

## SECTION VI – PROJECT MANAGEMENT, BUSINESS, AND TECHNICAL REQUIREMENTS

### A. INTRODUCTION

The purpose of this section is to present the Mandatory pass/fail business and technical requirements that must be addressed by the proposed solution as described in Section IV – Proposed System and Business Processes. This section also contains P1-11 requirements that are Mandatory and scorable. See Section V - Administrative Requirements, Section VIII - Proposal Format, and Section II - Rules Governing Competition for other requirements that must be met in order to be considered responsive to this Request for Proposals (RFP).

The California Office of the Secretary of State (SOS) is seeking a Bidder to develop or provide an application to meet the mandatory Help America Vote Act (HAVA) requirements. This is a solution-based procurement. It is important to understand that these requirements are intentionally written at a summary level to facilitate the procurement process. The underlying intent of this process is to focus business requirements on the business need ("what must be done"), not on current methods or constraints ("how it is currently done"). The SOS has identified the resultant performance criteria but the method of delivery or achievement is optional. The SOS recognizes there may be more than one means of meeting the requirements and wants to evaluate alternatives. Requirements for the VoteCal System have been broken out into separate sections for ease of responding to this RFP.

To facilitate the evaluation process and to meet applicable requirements, Bidders must complete the following Exhibits included within this Section and include each in their Final Proposals in accordance with Section VIII – Proposal Format:

- Exhibit VI.1 – Project Management and Plan Requirements Response Matrix
- Exhibit VI.3 - VoteCal Third Party Software Products List
- Exhibit VI.4 - VoteCal Contractor Commercial Proprietary Software Products List
- Exhibit VI.5 - VoteCal One-Time Hardware Products List
- Exhibit VI.6 - VoteCal System Rack Diagram and Description

Bidders must complete information for the business functional and technical requirements by completing Table VI.1– Mandatory VoteCal System Requirements, Functionality Reference, and Requirement Response Form and Table VI.2 – VoteCal Technical Requirements and Response Form in this section and include the completed forms in their Draft and Final Proposals in accordance with Section VIII – Proposal Format.

### B. PROJECT MANAGEMENT ACTIVITIES AND PLANS

It is SOS's intent to evaluate the Bidder's past level of effort and performance as well as their capability to execute certain tasks successfully. Tasks include:

- System preparation (project planning, tracking, and control);
- System requirements and gap analysis;
- System design, programming, configuration/modification, integration, and testing;
- Data integration;
- System implementation;

- Training;
- System maintenance and management; and
- System operation, maintenance, and support.

The SOS requires the Bidder to prepare and submit the Bidder's draft Project Management Plan and a number of additional descriptions of approaches to various project activities. SOS requires that Bidders outline these approaches so that SOS can evaluate the Bidder's ability, application of best business practices, and competence in managing a project of this size and complexity. Such information must be submitted along with the Bidder's response to the other Business and Technical Requirements. Bidders must note that when the VoteCal Project is initiated, for each deliverable that is prepared for the project, a Deliverable Expectations Document (DED) will be prepared by the Contractor and approved by the SOS VoteCal Project Director or designee. Refer to Attachment 1– Statement of Work and Attachment 1, Exhibit 3 – Sample Deliverable Expectation Document (DED), for further details on the DED.

In drafting the various plans and discussions to satisfy Project Management requirements, Bidder must clearly identify the proposed role of SOS staff, and consider the following principles:

- SOS will serve as the ultimate authority for elections policy and statute.
- SOS will serve as the primary interface and liaison with counties.
- SOS personnel with elections experience and expertise who are dedicated to the project will likely be limited to those persons already assigned to the project team.

Current and anticipated staff and contracted personnel assigned to the SOS VoteCal Project include: VoteCal Senior Project Manager, three (3) Project Managers, three (3) Elections Program Leads, [three two and one-half \(2.53\)](#) Information Technology Lead [positions](#), Project Assistant, Quality Assurance Manager, Test Manager and Technical Architect. No additional SOS VoteCal staff is anticipated.

In addition to the SOS and contracted personnel listed above, both the Independent Verification and Validation (IV&V) and Independent Project Oversight Consultant (IPOC) contractors will review deliverables. This review process is mandatory for the VoteCal Project and the Bidder should ensure that Project Management plans and the schedule incorporate time, responsibilities and steps for review by the oversight contractors. In addition, SOS has contracted with the IV&V firm to perform independent testing of the delivered applications. Bidders must factor this IV&V testing activity into the Test plan and draft integrated project schedule (IPS) as well as ensure that the draft IPS reflects all of the steps and timelines described for inspection, review and Acceptance of any Deliverable as defined in Attachment 1 – Statement of Work, Section 10 - [Inspection, Acceptance and Rejection of Contractor Deliverables](#).

Requirements P1 through P11 are Mandatory and scorable. The description of each requirement in this section indicates the elements of that requirement that will be evaluated. Failure to address all elements of each requirement will result in a lower score for that response.

**Bidders are reminded that narrative responses to requirements P1 through P11 must be complete and in sufficient detail for the Evaluation Team to evaluate the Bidder's described approach against criteria described for each requirement in this section.**

#### **1. Project Management**

The SOS has prepared a Project Management Plan and numerous subsidiary plans to govern VoteCal project management processes. The SOS is currently reviewing and revising these plans. Current versions are provided in the Bidder's Library. When revisions are approved, the revised versions will be published in the Bidder's Library.

The SOS intends to manage and conduct the VoteCal in accordance with the following industry and State standards, where appropriate to particular tasks and management efforts:

- Project management industry standards (i.e. PMBOK);
- The State Information Management Manual Project Oversight Framework;
- State Information Management Manual (SIMM) Information Technology Project Oversight Framework (ITPOF); and
- Institute of Electrical and Electronics Engineers (IEEE).

In developing responses to Project Management Activities and Plans requirements, Bidders must assume and accommodate the following constraints:

- Unavailability of county elections officials' staff and a freeze on changes to or testing with county systems (including EMS') during the period beginning sixty (60) calendar days prior to and ending thirty (30) calendar days following a statewide or Uniform District Election Law (UDEL) election. (Refer to the document "Future Election Dates" in the Bidder's Library for information on future statewide, UDEL and local elections.)
- No changes may be made to the SOS network during the period beginning seventy-five (75) calendar days prior to and ending thirty-nine (39) calendar days after an election.
- The SOS requires one hundred twenty (120) State calendar days, at a minimum, following approval of the production environment, to set up the required production environment Hardware.
- For interfaces with election management systems, each Election Management System (EMS) vendor will be allowed six (6) calendar months for the design, development, and testing of an interface prior to integration testing with VoteCal. The time period begins when the specification is delivered to the EMS vendors by the SOS and the Contractor.

Requirement P1 The Bidder's Draft Proposal and Final Proposal must provide a draft Project Management Plan (PMP) that, when finalized, will become the controlling document for managing Bidder's work on the VoteCal Project and must include Project activities to be conducted by Bidder staff and subcontractor resources as well as SOS tasks required to support creation of Contract deliverables. The Bidder must use its PMP to define the technical and managerial project functions, processes, activities, tasks, and schedules necessary to satisfy the Project requirements as documented in this RFP. If Bidder is awarded the Contract, the updated PMP shall be submitted as a deliverable for SOS review and approval within thirty (30) calendar days of Contract Award Date, in accordance with Attachment 1, Exhibit 2.E.Deliverable I.1 – Project Management Plan, and will provide the "baseline" for the change control process.

The PMP must describe the Bidder's planned approach to all appropriate and relevant project management processes for the Bidder team's performance of the scope of work as described in Attachment 1 – Statement of Work, except for those plans that are cited as separate Project Management requirements (e.g., P2 – Quality Management Plan). The PMP must include discussion of participation of and interaction with other VoteCal team members (SOS staff and other contractors) in those processes, and discussion of how each process will integrate with SOS's defined project management processes.

The Bidder's approach to risk management, issue management and scope management, and their integration points with corresponding VoteCal plans must also be described. The PMP must also include examples of significant anticipated VoteCal risks and mitigation strategies that demonstrate an understanding of the VoteCal project.

The PMP must also address deliverable definition, review and approval processes (see Attachment 1, Section 10 – Inspection, Acceptance and Rejection of Contractor Deliverables and Attachment 1, Exhibit 3 – Sample Deliverable Expectation Document), as well as definition of criteria and approach for Project Phase entry and exit (see Attachment 1, Exhibit 2 – Tasks and Deliverables, for description of Project Phases).

The PMP must conform to relevant PMBOK standards.

Requirement P2 The Draft Proposal and Final Proposal must describe the Bidder's approach to schedule management in a draft Schedule Management Plan, which includes resource updates, tracking of resource activities, milestone progress and reporting, critical path monitoring, schedule issues, status reporting based on work breakdown structure, and contingency activities. The narrative description of schedule management must describe how the Bidder will integrate the schedule with the VoteCal master integrated schedule, which will be maintained by the VoteCal Project Management Office (PMO), and ensure consistency of content between those schedules as they are tracked and updated. If the Bidder is awarded the Contract, the updated Schedule Management Plan shall be submitted as part of the updated Project Management Plan for SOS review and approval within thirty (30) calendar days of Contract Award Date, as described in Attachment 1, Exhibit 2.E.Deliverable I.1 – Project Management Plan.

Along with narrative description of the schedule management approach, the Bidder's response to this requirement must include a draft integrated project schedule (IPS) that contains the tasks/activities of Bidder, SOS staff and other SOS contractors, county elections officials' staff, and EMS vendors that must occur in order to meet the requirements of this RFP. The IPS must contain a list of planned tasks, milestones, estimated completion dates, resource assignments, and dependencies between tasks. The IPS must also include tasks' dependencies on other VoteCal team members' (staff, other contractors) activities, including but not limited to deliverable planning (Deliverable Expectation Document development and approval and SOS review of submitted deliverables, each as described in Attachment 1 - Statement of Work), and Bidder correction of Deficiencies. The submitted IPS must include a preliminary GANTT chart. The updated IPS shall be submitted for SOS review and approval within ninety (90) calendar days of Contract Award Date and will be updated on a biweekly basis in accordance with Attachment 1, Exhibit 2.E.Deliverable I.2 – Integrated Project Schedule.

Bidder's response to this requirement must conform to PMBOK standards.

NOTE: This is a fixed-price contract and the primary assumption is that there will be no change orders. Change orders will only be considered under the terms identified under Attachment 1, Section 7 - Unanticipated Tasks or for tasks that are the result of State or Federal legislative mandates, or law or regulation changes.

Requirement P3 The Bidder's Draft Proposal and Final Proposal must provide a draft Quality Management Plan, which includes definition of quality standards, policies, and procedures the Bidder will use; approach for quality assurance review of all work products and activities during the project; quality control approach for work products; process for continuous quality improvement; roles and responsibilities

for quality management activities; description of how quality will be monitored and measured; and a summary of proposed criteria for system and deliverable acceptance. The Quality Management Plan must also include discussion of integration with the SOS Quality Plan. If the Bidder is awarded the Contract, the updated Quality Management Plan shall be submitted for SOS review and approval within ninety (90) calendar days of Contract Award Date, in accordance with Attachment 1, Exhibit 2.E.Deliverable I.3 – Quality Management Plan.

The Quality Management Plan must conform to IEEE 730-2002 (Standard for Software Quality Assurance) or, alternatively, an equivalent methodology for which the Bidder describes successful application in previous projects as part of the response.

Requirement P4

The Bidder's Draft Proposal and Final Proposal must describe the Bidder's Software Version Control and System Configuration Management Plan to be employed during the VoteCal Project. The Bidder must include a discussion of the methods and tools that will be used for version control and configuration management along with how new modifications and/or modules will be integrated and implemented when Software upgrades are required during the warranty/maintenance period. If the Bidder is awarded the Contract, an updated Software Version Control and System Configuration Management Plan shall be submitted to SOS for review and approval within ~~thirty-sixty~~ (360) calendar days of Contract Award Date, as described in Attachment 1, Exhibit 2.E., Deliverable I.4 – VoteCal Software Version Control and System Configuration Management Plan.

Bidder's Draft Proposal and Final Proposal must include a summary approach to document management, which addresses how documents will be controlled and how deliverable versions will be tracked, including tools for document management (if appropriate).

The Software Version Control and System Configuration Management approach must conform to standards required by IEEE 828-2005 or, alternatively, an equivalent methodology for which the Bidder describes successful application in previous projects as part of the response.

Requirement P5

The Bidder's Draft Proposal and Final Proposal must include a Requirements Traceability Matrix Plan: a discussion of the content and approach to developing a Requirements Traceability Matrix, and a discussion of how this will be used and updated to track requirements, programming, and test scenarios during all Phases of the VoteCal Project (see Attachment 1, Exhibit 2 – Tasks and Deliverables, for description of Project Phases). All business functional and technical requirements in this RFP must be traceable to the Test Plan (Deliverable III.2 – Test Plan in Attachment 1, Exhibit 2 – Tasks and Deliverables) and if awarded the Contract, the Bidder must provide SOS with a Requirements Traceability Matrix which will provide a link from each test case back to each of the business functional and technical requirements in the RFP for testing purposes (see Attachment 1, Exhibit 2.E.Deliverable II.5 – VoteCal System Detailed Requirements Traceability Matrix). The Plan must include description of intended approach to ensuring forward and backward traceability, including but not limited to traceability between the following:

- Requirements from the RFP and more detailed sources such as the System Requirements Specifications (Attachment 1, Exhibit 2.E.Deliverable II.1 – System Requirements Specifications);

- Requirements in the System Requirements Specifications (Deliverable II.1) to design elements in the Detailed System Design Specifications (Attachment 1, Exhibit 2.E.Deliverable II.3)
- Design elements documented in the Detailed System Design Specifications (Attachment 1, Exhibit 2.E.Deliverable II.3) and Unit Test Cases
- System Requirements Specifications (Attachment 1, Exhibit 2.E.Deliverable II.1) and System Test Cases

If Bidder is awarded the Contract, an updated Requirements Traceability Matrix Plan shall be submitted to SOS for review and approval within ~~thirty-sixty~~ (360) calendar days of Contract Award Date in accordance with Attachment 1, Exhibit 2.E.Deliverable I.6 – Requirements Traceability Matrix Plan.

The Requirements Traceability Matrix Plan must conform to standards required by IEEE 1233-1998 and IEEE 830-1998, or CMMI V 1.2, or, an equivalent methodology for which the Bidder describes successful application in previous projects.

Requirement P6

The Bidder's Draft Proposal and Final Proposal must include a draft Implementation and Deployment Plan, which describes the Bidder's planned approach for implementation, links to the PMP and includes a discussion of strategy for a pilot testing, data conversion and deployment to SOS business users, county elections officials' staff, and other users.

The Implementation and Deployment Plan must also include a description of how the deployment approach will ensure that the integrity and completeness of the existing Calvoter system and its data, which constitute the statewide official list of registered voters until Phase VI – Deployment and Cutover is complete, are maintained through the end of Phase VI – Deployment and Cutover.

In preparing the Implementation and Deployment Plan, Bidders should assume that deployment of the VoteCal public access website (as described under S24: Public Access Website) will go into production after the VoteCal system is deployed to all counties; Bidders must include description of deployment of the public access website as part of the submitted Implementation and Deployment Plan.

The response to this requirement must include explanation of the best practices or standards on which the approach is based. If the Bidder is awarded the Contract, the updated Plan will be submitted for SOS approval in Phase III – Development (see Attachment 1, Exhibit 2.E.Deliverable III.5 – VoteCal System Implementation and Deployment Plan) and in Phase V – Pilot Deployment and Testing (Attachment 1, Exhibit 2.3.Deliverable V.4 – Revised/Updated System Implementation and Deployment Plan) and also updated at other times during the Project as appropriate.

Requirement P7

The Bidder's Draft Proposal and Final Proposal must provide a draft Organizational Change Management Plan, which outlines the Bidder's business change communication strategy. The Bidder's approach must address how the project will convey to all users and customers the new methods of doing business, roles and responsibilities, and common issues to be anticipated and mitigation scenarios in a project of this size and complexity. The Plan must also address securing support and buy-in from the county elections officials' staff as well as SOS staff. If Bidder is awarded the Contract, an updated Organizational Change

Management Plan shall be submitted to SOS for review and acceptance (1) within ninety (90) calendar days of Contract Award Date in accordance with Attachment 1, Exhibit 2.E.Deliverable I.5 – VoteCal System Organizational Change Management Plan; and (2) in Phase III – Development in accordance with Attachment 1, Exhibit 2.E.Deliverable III.4 – VoteCal System Organizational Change Management Plan Updated.

The Organizational Change Management Plan shall conform to ISO 9001:2008 or equivalent industry standards.

The Bidder's Library includes an Organizational Change Management Plan that was developed for the VoteCal Project and accepted by SOS. Bidder may adopt any or all concepts from that plan as part of their response to this requirement.

## **2. Training**

### **Requirement P8**

The SOS requires the Bidder to propose training for the SOS Elections Division and IT Division staff as well as county elections officials' staff as part of both the Bidder's Draft and Final Proposal. Bidders must provide a draft Training Plan, which includes outlines course descriptions, prerequisites, training objectives, content, and length of class for these VoteCal user groups. All VoteCal training that the Contractor is required to provide to SOS and county elections officials' staff must be provided at facilities located within the State of California.

The SOS has arranged for several training facilities in the Sacramento area that the Contractor may use free of facility charges to provide VoteCal training. See the "*Information on Potential VoteCal Training Facilities*" link and document located within the "*Documents Specifically Referenced in the RFP*" section of the VoteCal Bidder's Library for facility information regarding each of these (e.g., seating capacity, built in projection screens, etc.). If a Bidder proposes to use one or more of these training facilities, the Bidder's draft Training Plan must identify system requirements for the training room (e.g., minimum configuration of workstations, connectivity requirements, etc.) informed by available facility information published in the Bidder's Library.

The Bidder's proposal must include, as part of the bid amount, any training facility costs associated with the use of any facilities other than the free-of-charge Sacramento-area facilities (described above) that the Bidder proposes using to train SOS or county elections officials' staff.

Independent of the numbers and locations of the training facilities a Bidder proposes to use to meet the VoteCal training requirements, the Bidder' Training Plan must identify system requirements for a fully functional VoteCal Training Environment to support requisite training activities that is separate from the VoteCal Development, Test and Production environments.

The SOS requires the Bidder to provide initial VoteCal training to nineteen (19) SOS elections program staff and ten (10) IT staff assigned to the VoteCal Project. Eight (8) of these SOS staff (a subset of the elections program staff) must be trained in execution of pre-defined reports and user-executed extracts that are defined in this RFP section; of these, three (3) must be trained in creation and saving (or "publishing") of new reports and queries. (See Attachment 1, Exhibit 2.A – Introduction for assumptions concerning types and number of reporting/querying users.)

SOS anticipates that each single SOS training class will not exceed 20 participants. Bidder must specify the approach for training for SOS Elections Division staff, trainers, investigators, and help desk staff as well as training of SOS technical support staff. Note that the SOS help desk and Contractor help desk shall be established and training provided before the pilot counties receive the application. The Contractor must also provide (and the Training Plan reflect) training for the SOS staff that will provide on-going VoteCal training post implementation.

A Bidder's draft Training Plan must describe the method that will be used to transfer VoteCal technical knowledge to SOS IT staff as well as the VoteCal training to be provided these staff.

If the Bidder proposes to provide training for SOS staff at a training facility outside of the Sacramento area, the Bidder must ensure that the bid amount includes costs associated with SOS staff travel to/from the training facility outside of the Sacramento area as well as the costs for SOS staff lodging (if any) required as a consequence of the location of the training facility and the projected duration of the training. Bidders should use the State travel policies as published in the State Administrative Manual (specifically Chapters 715, 720 and 721) and available at <http://sam.dgs.ca.gov/default.htm> to understand the terms and conditions for State staff travel and lodging expense reimbursement in order to estimate the costs of such expenses.

The Contractor must also provide VoteCal orientation and training for county elections officials and their staff. Under separate contracts with SOS, the vendors supporting each of the three (3) EMS' currently used by county elections officials and staff in one or more California counties will modify their respective EMS' to integrate with VoteCal. Because county elections officials' staff will access VoteCal *through* their EMS', the SOS anticipates that the Contractor's VoteCal training for county elections officials and their staff will focus on policy and business process changes and not on EMS system changes or specific VoteCal system usage or functionality. **Note:** EMS vendors will be responsible for providing training to county elections officials' and their staff regarding how to use and interact with their respective EMS' after those systems have been modified to interface with VoteCal.

The State estimates that approximately 650 county elections officials and their staff will require VoteCal training, approximately two-thirds of which represent Elections staff and one-third of which represent IT and administrative staff. If the Bidder proposes to provide training for county elections officials and their staff at facilities geographically remote from their respective counties, the Bidder's bid amount must include costs associated with county elections officials' and their staff travel to/from a training facility geographically remote from their respective counties as well as the costs for county elections officials' and their staff lodging (if any) required as a consequence of the location of the training facility and the projected duration of the training. To assist the Bidder to project and estimate the costs for such travel and lodging expenses for county election officials and their staff, the Bidder should reference the same State travel policies (published in the State Administrative Manual) noted for SOS staff (above) to understand the terms and conditions applicable for reimbursing county election officials' staff for training-related travel and lodging.

Training aids, manuals, quick reference guides and other training materials must be provided in hard copies for all participants as part of the VoteCal solution, and also be delivered to SOS in electronic format.

If Bidder is awarded the Contract, an updated and comprehensive VoteCal System Training Plan shall be submitted to SOS for review and acceptance in Phase II – Design in accordance with Attachment 1, Exhibit 2.E.Deliverable II.9 – VoteCal System Training Plan.

### **3. Testing**

#### **Requirement P9**

The Bidder's Draft Proposal and Final Proposal must include a draft Test Plan that includes a discussion of the proposed test methodology and a sample Test Defect Log. If Bidder is awarded the Contract, a detailed Test Plan and Test Defect Log must be finalized and submitted to SOS with sufficient lead time to achieve SOS Acceptance no later than fifteen (15) State business days prior to the commencement of testing activities in Phase IV – Testing (see Attachment 1, Exhibit 2.E.Deliverable III.2 – VoteCal System Test Plan).

Bidder's Test Plan must include a discussion of all levels of testing that will be performed, including stress testing, performance and load testing, and backup and recovery testing, and the training to be provided for the SOS testing staff.

In addition, the proposed Test Plan must include discussion of approach for testing EMS remediation in preparation for the integration of EMS data that will occur in Phase V – Pilot Deployment and Testing and Phase VI – Deployment and Cutover. If Bidder is awarded the Contract, an updated and detailed description of the approach for testing EMS remediation shall be submitted for SOS review and approval in Phase III – Development. (See Attachment 1, Exhibit 2.E.Deliverable II.3 – Acceptance Test Plan for Certification of EMS System Data Integration and Compliance.)

The Test Plan must include discussion of testing to be conducted during Phase V – Pilot Deployment and Testing (Bidders should assume a total of one million five hundred thousand (1,500,000) voter registration records across the counties that participate in the pilot).

If a Bidder proposes a Commercial off-the-Shelf (COTS) application, a Modified-off-the-Shelf (MOTS) application, or any Contractor Commercial Proprietary Software product, out-of-the-box testing must be included to validate the base product is functioning properly. Negative testing scenarios must be included. Bidder must address all levels of testing to be performed, including stress testing and how they will manage these activities including managing of the test environments.

The Test Plan must include testing for all configured and programmed items, all programs and all Contractor-developed reports, queries and extracts, as well as a complete "end-to-end" test including testing from a county workstation through to VoteCal and on to DMV and back to VoteCal. Testing will include testing of interfaces to the county systems and interfaces to external state entities that share data with VoteCal (for example, see requirements in this section under S10: CDPH Death Records, S11: CDCR Felon Data, S6: DMV Change of Address, S13: NCOA). The Test Plan and the IPS must accommodate the need to correct VoteCal Deficiencies and make changes during and between Phase IV – Testing, Phase V - Pilot Deployment and Testing and Phase VI - Deployment and Cutover. The Test Plan and IPS must provide sufficient methodology and time to perform the end-to-end testing (conducted by the Contractor) after corrections and changes that were identified during user acceptance and other testing have been applied. Such testing will occur before Phase VI - Deployment and Cutover commences and during Phase VI – Deployment and Cutover at times mutually agreed upon by SOS and the Contractor.

While SOS will be responsible for conducting SOS user acceptance testing, the Bidder's Test Plan must address how the Bidder will record issues and Deficiencies identified in SOS user acceptance testing, how those issues and Deficiencies will be resolved, and how the status of addressing and/or resolving these will be monitored. The SOS and the Contractor shall report, resolve, and confirm resolution of test-related Deliverable Deficiencies encountered during testing in accordance with the terms and conditions described in Attachment 1 – Statement of Work, Section 10 - Inspection, Acceptance and Rejection of Contractor Deliverables in order for user acceptance testing to be considered complete and Accepted by SOS.

SOS has also contracted with an IV&V contractor to perform independent testing of the delivered VoteCal system (or components) at times during Contractor's testing as well as during SOS user acceptance testing. In order for the associated testing activity and Deliverable (if any) related to the IV&V contractor's independent testing to be considered completed and Accepted by SOS, Deliverable Deficiencies identified by the IV&V contractor during such testing will be reported and addressed by the Contractor in accordance with the terms and conditions described in Attachment 1 – Statement of Work, Section 10 - Inspection, Acceptance and Rejection of Contractor Deliverables. Bidders must factor into the Contractor's work plan the time and effort required by the Contractor to prepare for and, as necessary, support these IV&V contractor testing activities and to coordinate with the IV&V contractor about such testing and outcomes.

SOS will extend the SOS network to include Multi-Protocol Label Switch (MPLS) nodes (Verizon) to each of the three (3) EMS vendor sites to enable remote access between those environments and SOS' VoteCal environment during the Testing Phase so that integration and preliminary system testing between the remediated EMS' and VoteCal can occur in an EMS vendor Testing environment and not in the counties' production EMS environments. SOS also intends to extend the SOS network to include an MPLS node to the Contractor's site to enable the Contractor remote access to all VoteCal environments to support all phases of the VoteCal project through and including subsequent optional years of Hardware and Software M&O support. The Bidder must ensure that the changes required to the SOS WAN and any Hardware and Software required to provide the EMS vendors and Contractor such remote access are specified in requirements P11, T3.6, and T6.2 and T.6.3 in Table VI.2 – VoteCal Technical Requirements and Response Form within this Exhibit.

Refer to Attachment 1, Exhibit 2 – Tasks and Deliverables, Phase III – Development and Phase IV - Testing for additional information on SOS and Contractor testing-related responsibilities and activities.

#### **4. Data Integration**

**Requirement P10** The Bidder's Draft Proposal and Final Proposal shall provide a draft Data Integration Plan which describes the Bidder's approach, method and roles and responsibilities for:

- Conformance of all county data to VoteCal standards;
- Integration of existing county voter registration data from multiple counties into a single record for each voter (e.g., one record, one voter);

- Integration and standardization of county-specific or EMS-specific data definitions, including but not limited to static values for various codes (e.g., voter registration status codes, cancellation reason codes, etc.)
- The process of testing and validating data integration prior to the start of Phase V- Pilot Deployment and Testing (see Attachment 1, Exhibit 2 – Tasks and Deliverables, descriptions of Phase III – Development and Phase IV – Testing for details about required predecessor-successor relationships between Contractors' and SOS' testing), including the approach for:
  - Addressing and resolving data errors;
  - Conducting the integration process, including a strategy of “cut-over,” “pilot,” or “phased”;
  - Transitioning existing data into the new VoteCal;
  - Maintenance of Calvoter and VoteCal systems in parallel from Phase V – Pilot Deployment and Testing through Phase VI – Deployment and Cutover, and how the integrity of CalVoter as the statewide database containing the official list of all voters will be ensured while integration is occurring; and
  - Detailed transition schedule of activities that clearly defines key milestones, deliverables, tasks, and responsibilities and which are integrated with the PMP.

Refer to RFP Section III – Current Systems and Opportunities and the Bidder's Library for descriptions of the existing databases, Calvoter file structures, county upload file formats, and data volumes.

If Bidder is awarded the Contract, an updated Data Integration Plan shall be submitted as a deliverable for SOS review and acceptance in Phase II – Design of the VoteCal Project. (See Attachment 1, Exhibit 2.E.Deliverable II.8 – VoteCal System Data Integration Plan.)

## 5. *VoteCal Architecture*

**Requirement P11:** Bidders shall provide their proposed VoteCal Architecture, including a detailed description of the technical architecture/infrastructure solution for the VoteCal system, addressing performance, availability, security, scalability, maintainability, accessibility, deployability, and extensibility. The proposed VoteCal Architecture shall include a high-level mapping of the functionality required in the VoteCal RFP onto the proposed Hardware and Software components. The proposed VoteCal Architecture shall also address internal interfaces among the system's components, and the interfaces between the system and its external environment, including users, county EMS systems, the public access website, and external interfaces described in the VoteCal RFP.

Bidders should utilize their knowledge gained during the confidential discussions (see Section II.C.5 – Confidential Discussions for Pre-qualified Bidders) to ensure complete and appropriate responses.

The technical architecture/infrastructure response shall include a narrative discussion of the Hardware, Software, and network elements associated with the Development, Test, Training, Pilot and Production VoteCal environments (additional environments must be proposed as necessary to meet VoteCal requirements and deliverables as specified in this RFP).

The technical architecture/infrastructure response shall describe the structure and behavior of the technology infrastructure of the proposed solution. This discussion must include, and map to, high-level diagrams showing major system components, the application tier(s) and system environments they serve, their interrelationships, dependencies, and resident solution components in order to provide the SOS with a visual, as well as narrative, enterprise-wide representation of the VoteCal environments to be deployed for the period of the project and for ongoing maintenance and support. In addition to specifying the new Hardware and Software included within into the VoteCal solution, the Bidder's description of the proposed VoteCal solution and architecture should also identify any pre-existing SOS Hardware and Software leveraged and integrated within the solution.

The amount and level of detail of documentation plus supporting product literature provided must demonstrate that the architecture(s) will support the development, testing, implementation, and maintenance of the VoteCal system solution, and must provide evidence that the proposed architecture will meet if not exceed all VoteCal business and technical requirements described in this RFP. Such evidence must be either (1) a referenced project, completed within the past four (4) years, in which the Bidder used the described approach; or, (2) if a referenced project is not available as demonstration of the viability of the approach, detailed description of relevant industry standards or best practices.

The Bidder's response to this requirement must address the following factors:

- **Performance:** The degree to and manner in which the proposed architecture meets all performance requirements of the RFP and represents industry-accepted best practices related to ensuring high performance. At minimum the Bidder's response must address these key areas but should not be limited to them:
  - Network capacity;
  - Server memory and processing capacity;
  - Application-processing constraints; and
  - Performance testing and load testing.
- **Availability:** The degree to and manner in which the proposed architecture meets all availability requirements of the RFP and ensures maximum availability in accordance with industry-accepted best practices. At minimum the Bidder's response must address these key areas but should not be limited to them:
  - How and when routine maintenance will be performed;
  - How component failures will be handled;
  - How backup and recovery will be addressed from the start of Phase I – Project Initiation and Planning until the start of Phase V- Pilot Deployment and Testing; and,
  - How backup and restoration, other than from disaster (e.g. flood, fire earthquake, etc.) will be addressed (e.g., consistent with Bidder's response to requirements presented in T.3 – System Availability and Backup/Recovery).
- **Scalability:** The capability of the system to increase its capacity by upgrading system Hardware and Software. The proposed VoteCal Architecture shall

present a scalable solution consistent with industry-accepted best practices, e.g. scaling up and/or scaling out. Scaling up is the process of achieving scalability through the use of more or faster/better Hardware. Scaling out is the process of using many machines to work as one machine.

At a minimum the Bidder's response must address these key areas but should not be limited to them:

- How new Hardware and Software will be added; and
- What reconfiguration would be necessary to utilize new Hardware and Software.
- **Security:** The degree to and manner in which the proposed architecture presents a secure solution which at a minimum meets all security requirements of the RFP. The Bidder's response must address these key areas but should not be limited to them:
  - How authentication will take place;
  - How authorization will take place;
  - How data will be protected--both at rest and in transit;
  - How the system will protect against identity spoofing;
  - How the system will protect data from tampering;
  - How the system will log system and user activity; and
  - How the system will protect against Denial of Service attacks.
- **Maintainability:** The ability of the system to be maintained at an operational level after it is put into production. The Bidder's response must address these key areas but should not be limited to them:
  - Specific expectations of level of effort for maintenance (by Bidder through Phase VII – First Year Operations and Close-out and for up to five (5) additional years if SOS exercises a contract extension option for application and Hardware maintenance, and by SOS thereafter);
  - How the architecture will help contain the level of effort required for maintenance activities for any components added to the VoteCal network and/or SOS infrastructure;
  - How any third party components will be maintained, including routine updates as well as corrections of Deficiencies;
  - The necessary skills for staff who will be maintaining the system;
  - How the Bidder will ensure Software and Hardware currency and availability; and
  - Approach for forward compatibility.
- **Accessibility:** The degree to and manner in which the proposed architecture meets all accessibility requirements of the RFP and supports industry-accepted accessibility standards. At minimum the Bidder's response must address these key areas:
  - Compliance with provisions of California Government Code Section 11135 and United States Rehabilitation Act Section 508; and

- Conformance to Web Content Accessibility Guidelines 2.0, W3C World Wide Web Consortium Recommendation WCAG 2.0 12/2008, Level A and Level AA Success Criteria.
- **Deployability:** Where and how the system will be deployed. At minimum the Bidder's response must address these key areas but should not be limited to them:
  - Mitigation of common deployment risks;
  - Physical locations where systems components will be deployed; and
  - The method of distribution for system components.
- **Extensibility:** The adaptability of the architected system and the degree to which that system can be enhanced in the future. Reducing the average time and cost to make functionality updates in different areas of the architecture is a key component of extensibility. At a minimum the Bidder's response must address these key areas but should not be limited to them:
  - The steps necessary to add new functionality to the system;
  - How improving extensibility will affect the complexity of the system; and
  - How improving extensibility will affect testing and debugging.

The Bidder's response to this requirement must also provide supporting narrative and visual detail, including a list specifying all new Hardware, Third-Party and Contractor Commercial Proprietary Software and middleware components required for the design, development, training, implementation, and production operation of the VoteCal solution and specifying the BTU and electrical load requirements for each new Hardware product that will be included in the VoteCal System operating within the SOS Data Center (see Exhibits VI.3 – VoteCal Third Party Software Products List; VI.4 – VoteCal Contractor Commercial Proprietary Software Products List; and, VI.5 – VoteCal One-Time Hardware Products List).

The response to this requirement must also include visual diagrams and narrative that specify attributes and components included within each of the up to eight (8) racks that the Bidder may propose to support the VoteCal System solution within the SOS Data Center and which must include specifying the net BTU and electrical load requirements for each rack as well as the total BTU and electrical load requirements for the VoteCal System solution operating within the SOS Data Center (inclusive of all required Development, Testing, Training and Production environments). See Exhibit VI.6 - VoteCal System Rack Diagram and Description. **Note:** SOS assumes that the VoteCal System solution operating within the SOS Data Center will require two (2) 30 AMP receptacles per each of up to eight (8) racks. If the Bidder's solution will require the maximum four (4) receptacles per rack, the Bidder should assure that this is specified in P11, T.3.6.4 and in Exhibits VI.5 and VI.6. Bidder's response to this requirement must also reflect all applicable requirements, including those specified in Table VI.2 - VoteCal Technical Requirements and Response Form.

The response to this VoteCal Architecture requirement must specify all enhancements to the existing VoteCal network and/or SOS infrastructure that would be required for the proposed Architecture to meet business and technical requirements of this RFP and the general performance, availability, scalability, security, maintainability, accessibility, deployability and extensibility factors

described above. If Bidder proposes any changes to network Hardware, Software or configuration management components as part of the solution and is awarded the Contract, these changes shall be supplied at Contractor expense, and Contractor must support the additions at its own expense through Phase VII – First Year Operations and Close-out and up to five (5) years thereafter if SOS exercises the five (5) one (1) year contract extension options.

The Contractor's ability to implement and maintain proposed network changes is constrained by the following SOS-prescribed division of roles and responsibilities between the Contractor and SOS: the Contractor will be allowed view access to the network management tools for those components of the network included within the Contractor's VoteCal solution; the Contractor shall specify any changes required to the SOS LAN/WAN; and, SOS will collaborate with the Contractor to implement any requested and approved changes to the SOS LAN/WAN (see requirements T6.2, T6.3 and T6.4 in Table VI.2 - VoteCal Technical Requirements and Response Form for additional information).

The description of the Architecture provided in the response to this requirement must also specify the physical facilities and environment requirements for the SOS Data Center for the operation of the VoteCal System solution hosted in the Data Center, inclusive of Development, Test, Training, and Production environments (e.g., electrical capacity, HVAC, etc.). Bidder's VoteCal solution must operate within the SOS Data Center's existing physical facilities and environment as described in ~~version 2.0 of~~ the document entitled **Secretary of State Infrastructure Overview** (updated ~~May~~ July, 2012) located within the VoteCal Bidder's Library via the SOS Infrastructure Overview (<http://www.sos.ca.gov/elections/votecal/bidders-library/doc-specific-reference-rfp.htm>), and in keeping with the constraints described and providing the information specified in the T3.6 series of requirements within Table VI.2 - VoteCal Technical Requirements and Response Form.

SOS will extend the SOS network to include MPLS nodes (Verizon) to each of the three (3) EMS vendor sites to enable remote access between those environments and the VoteCal Test environment within the SOS Data Center during integration and preliminary system testing activities. SOS will also extend an MPLS node to the Contractor's site to enable Contractor remote access to all VoteCal environments to support all phases of the VoteCal project through and including subsequent optional years of Hardware and Software M&O support (see Attachment 1 – Statement of Work, Section 6.i). The Bidder must ensure that the changes required to the SOS WAN and any Hardware and Software required to provide the EMS vendors and Contractor such remote access are specified in response to this requirement as well as in response to requirements T3.6 (series), T6.2, T6.3 and T6. 4 in Table VI.2 – VoteCal Technical Requirements and Response Form within this Exhibit.

If Bidder is awarded the Contract, a comprehensive and updated Technical Architecture Documentation Deliverable in Phase II – Design of the VoteCal Project shall be submitted (see Attachment 1, Exhibit 2.E.Deliverable II.6 – VoteCal System Technical Architecture Documentation), in accordance with the PMP and the IPS for which the SOS has provided Acceptance.

### C. THE SOS MANAGEMENT ROLE

SOS will provide the following:

1. Full-time VoteCal Project Management Office (PMO) team, including one Senior Project Manager and two Project Managers, responsible for overseeing the project.
2. On-site workstations (including desk, telephone, desktop computer with access to printers, copiers, and the SOS IT staff) at the SOS Sacramento Office with space for up to six (6) Contractor staff. Additional space can be provided during project activities that require Contractor on-site presence that exceeds the number of workstations listed above.
3. SOS will provide Contractor staff access to the SOS voter registration program staff and the SOS IT staff that supports the existing applications as required during implementation. The SOS staff and the PMO team will participate in design sessions, review deliverables, and participate in testing and training as necessary to fulfill their responsibilities of acceptance of the new solution. However, SOS staff will not perform programming, develop Contractor deliverables, or configure the system. These are tasks expected to be performed by the Contractor's implementation team. The SOS will provide the full-time-equivalent (FTE) of up to two IT staff FTEs and three (3) voter registration/election business program FTEs.
4. An IPOC has been retained to support the SOS' VoteCal Senior Project Manager in terms of monitoring SOS and the Contractor's performance, responsibilities, and deliverables. The IPOC may perform the following activities on behalf of SOS:
  - (a) Validation of deliverables and selected Contractor activity and performance in accordance with standards as defined in the approved Deliverable Expectations Document for the specific deliverable, the Contractor's Proposal, Project Plan, schedule, and Contractor's progress report accuracy; and
  - (b) Support Risk Management and Issue Management and reporting on behalf of SOS to the California Technology Agency on timely issue resolution.
5. An IV&V consultant has been retained to support the VoteCal Project Manager in terms of monitoring and validating project activities, including the Software deliverables, requirements traceability, and verifying test results in accordance with the awarded Contract, the PMP, the IPS, and Contractor's progress reports.

#### **D. BUSINESS FUNCTIONAL REQUIREMENTS**

Bidders must propose a solution for the VoteCal System for which functionality is as outlined in this subsection.

All identified requirements are Mandatory requirements and must be addressed in Draft Proposals and Final Proposals. Proposals will be evaluated on the quality of the response and solution for each requirement.

Table VI.1 contains the VoteCal System business functional requirements that SOS requires of a proposed business solution to address the business processes described in Section IV – Proposed System and Business Processes. References to Government Code and California Code of Regulations (CCR) can be found in the Bidder's Library.

The SOS expects Bidders to develop a solution to meet all of the business needs. The Bidder is required to respond to each business requirement listed in this section using Table VI.1 – Mandatory VoteCal System Requirements, Functionality Reference, and Requirement Response Form. Bidders shall not retype the requirements. If there is a discrepancy between the electronic copy and the hardcopy of the stated requirement in the RFP, the RFP master hardcopy takes precedence.

**Bidders are reminded that in order to receive a “Pass” for these requirements, their response to each requirement must be complete and in sufficient detail for the Evaluation Team to understand how each requirement is to be met.**

Bidders shall provide a narrative response for each requirement individually, consisting of, for each requirement:

- The Proposed Solution Description column: containing a detailed description, which includes how the Bidder's proposed solution meets the needs associated with the requirement.
- The Supporting Documentation Reference column: indicate where (Proposal Response volume number and page number or section in the product literature) in the Bidder's proposal volumes additional material can be found that is to be considered in the evaluation of the requirement response.

**Table VI.1 – Mandatory VoteCal System Requirements, Functionality Reference, and Requirement Response Form**

All Bidders must respond to all requirements stated in the following table for the VoteCal System. Failure to respond to or meet one of these business requirements may be deemed a material deviation.

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S1	<b>GENERAL REQUIREMENTS &amp; FEATURES</b>	<b>S1 requirements are general features of the VoteCal System pertaining to data accessibility, functional application administration, extensibility, system access, and transactions between VoteCal and EMS'.</b>	
S1.1	VoteCal must provide authorized users with read-only access to the data for registered voters within other counties, including historic voter activity data, historic voting participation data, historic affidavit images and historic signature images for registrants.		
S1.2	VoteCal must provide authorized county users the ability to update the voter registration data for voters within their county.		
S1.3	VoteCal must prohibit county users from changing data for voters in other counties except to submit a transaction that moves a matched voter from another county into their county.		
S1.4	VoteCal must automatically send electronic notice to each appropriate county whenever a voter record is added or updated through VoteCal's automatic processes.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S1.5	<p>VoteCal must support VoteCal-related county user functions as described in this RFP through interfaces with each election management system (EMS). The EMS interfaces must be interactive and operate on a transactional basis where functions are so identified in the RFP requirements, such as registrant search, voter registration record entry and update, and county determinations on potential matches.</p> <p>Otherwise, the interfaces may be interactive, or batch or both as appropriate to the Bidder's proposed solution.</p>		
S1.6	All authorized county users shall access VoteCal only through their EMS.		
S1.7	VoteCal must provide the capability for authorized SOS administrators to search, query and track electronic notices that have been sent to counties. Search, sort, filter and grouping criteria must include county or jurisdiction, notice type, status (resolved or unresolved) and date or date range for notice.		
S1.8	VoteCal must provide for update and addition of "Smart names."		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S1.9	VoteCal must be able to process voter registration data originating from new sources of voter registration data both internal and external to SOS, with only the addition of a pluggable interface. <b>Note:</b> SOS intends that the California DMV will be one among the potential “new sources” of voter registration data once DMV is able to plan for and implement a method to provide new voter registration data to SOS. Although DMV is an existing source of some voter registration data, it would represent a “new source” from the perspective of submitting new voter registration data.		
S1.10	VoteCal must provide extracts of names and addresses for voters in one or more counties for processing by an external service.		

Req. #	Mandatory VoteCal System Business Requirement	Proposed Solution Description	Supporting Documentation Reference
S2	VOTER REGISTRATION: Registration Data	<p>S2 requirements list voter registration data elements that must be maintained in VoteCal to comply with HAVA Section 303 requiring that each state implement a “single, uniform, official, centralized, interactive computerized statewide voter registration list.” Data elements described under S2 include data provided by county elections officials’ staff through the EMS as well as data provided by citizens through online registration via the VoteCal public access website.</p> <p>The data elements listed here do not constitute an exhaustive list of required data. SOS expects that during Project Phase II – Design, the Contractor will work with SOS staff, county elections staff and EMS vendors to determine all specific data elements necessary to meet all - VoteCal requirements stated in this RFP. For examples of other data elements, beyond those listed here, see the Calvoter and Calvalidator Data Standards document in the Bidder’s Library.</p>	
S2.1	VoteCal must provide functionality that enables authorized county users to add new registered voters and to update data associated with existing registered voters.		
S2.2	VoteCal must be able to capture, store, and display all historical data on every record, including images.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S2.2.1	VoteCal must capture and display all data elements required to support the VoteCal functions and requirements defined in this RFP. (Refer to the Calvoter and Calvalidator Data Standards in the Bidder's Library for examples of additional data elements to be captured and stored in VoteCal. Contractor will work with SOS staff, county elections staff and EMS vendors to determine all specific data requirements for VoteCal.)		
S2.3	VoteCal must allow for capture and storage of voter names including the following discrete data fields: <ul style="list-style-type: none"> <li>• First name (full or initial);</li> <li>• Middle name (full name or initial);</li> <li>• Full last name (can include hyphenated last name);</li> <li>• Suffix (Sr., Jr., other generations); and</li> <li>• Previous name(s)</li> </ul>		
S2.4	VoteCal must store a unique identifier (UID) for each registrant in accordance with the rules described in requirements listed under S5: ID Verification.		
S2.4.1	VoteCal must capture and store the EMS voter ID for each voter.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S2.5	VoteCal must capture and store historic data on voter residence, mailing address and domicile county, including beginning and ending effective dates of those addresses.		
S2.6	<p>VoteCal must provide for capture and storage of the following discrete data fields related to a voter's address:</p> <ul style="list-style-type: none"> <li>• House number;</li> <li>• House fraction number;</li> <li>• House number suffix (alphanumeric);</li> <li>• Two-character pre-directional code (e.g. S., SW) *;</li> <li>• Street name (alphanumeric);</li> <li>• Type (e.g. Street, Road, Lane) *;</li> <li>• Two-character post-directional code *;</li> <li>• Apartment or space number (alphanumeric);</li> <li>• Unit Type *;</li> <li>• City;</li> <li>• Zip *;</li> <li>• Zip plus four* (optional with respect to each voter); and</li> <li>• County.</li> </ul> <p>NOTE: * indicates code must conform to USPS standards</p>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S2.7	VoteCal must be able to capture and store an address in a free-form format as a registered voter's official residence (e.g., the voter's address might be "THREE MILES NORTH OF ACME GROCERY STORE, Alturas, CA" or "Mile Marker 29.5, Hwy 85").		
S2.8	VoteCal must provide for capture and storage of multiple mailing addresses for a voter, including permanent mailing addresses, temporary mailing addresses (with beginning and ending effective dates), permanent vote-by-mail addresses, and one-time vote-by-mail addresses. (See Glossary for definitions of these types of mailing addresses.)		
S2.9	VoteCal must determine whether or not a mailing address is within California based on available data in the mailing address.		
S2.10	VoteCal must be able to capture and store a voter's "Mailing" and "Vote-by-Mail" address using the following fields that can be used with mailing Software: <ul style="list-style-type: none"> <li>• Free-form data entry;</li> <li>• Fields long enough to meet US postal, foreign and military mail regulations;</li> <li>• Postal codes; and</li> <li>• Country code.</li> </ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S2.11	VoteCal must provide the ability to capture and store a voter's date of birth. NOTE: Because a voter may have currently effective registrations that predate the requirement to provide date of birth, VoteCal must be capable of handling voters without a date of birth.		
S2.11.1	VoteCal must capture affirmation of citizenship status.		
S2.12	VoteCal must be capable of capturing and storing the following data that is optional for completion of voter registration: <ul style="list-style-type: none"> <li>• Telephone number (up to four different numbers, including type and extension, as separate fields or records);</li> <li>• Gender; and</li> <li>• Email address.</li> </ul>		
S2.13	VoteCal must be capable of capturing and storing voter registration information that is optional on the California affidavit, including: <ul style="list-style-type: none"> <li>• Name prefix;</li> <li>• Whether the voter wishes to exercise the permanent vote by mail option; and</li> <li>• Ethnicity/race</li> </ul> (Refer to Bidder's Library, Calvoter and Calvalidator Data Standards, for current codes for these fields.)		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S2.14	VoteCal must be capable of capturing and storing the voter's place of birth, both as free-form text and as user-defined codes. (Refer to Bidder's Library, Calvoter and Calvalidator Data Standards and Data Standards Tables (supplement to Calvoter and Calvalidator Data Standards) for current data standards.)		
S2.15	VoteCal must be capable of capturing and storing a voter's language preference, based on codes that can be defined and modified by authorized SOS administrators. (Refer to Bidder's Library, Calvoter and Calvalidator Data Standards, for current codes.)		
S2.15.1	VoteCal must be capable of capturing and storing multiple accessibility/assistance needs for a voter, based on codes that can be defined and modified by authorized SOS Administrators.		
S2.16	VoteCal must capture, store and display the status of any voter's registration, effective dates for such changes and reasons for the change. The status options must include: <ul style="list-style-type: none"> <li>• Active;</li> <li>• Inactive;</li> <li>• Cancelled; and</li> <li>• Pending.</li> </ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S2.17	VoteCal must store a voter's political party preference, if any, based on codes that can be defined and modified by authorized SOS administrators. (Documentation of currently used political party codes is available in the Data Standards Tables (supplement to Calvoter and Calvalidator Data Standards) document in the Bidder's Library.)		
S2.18	VoteCal must capture, store and display the following identification information for each voter record: <ul style="list-style-type: none"><li>• The voter's California issued Driver's License or State Identification Card (CDL/ID) number if known or provided;</li><li>• The DMV verification status of that number (i.e., verified, not-verified, or pending verification; see process described in S5: ID Verification); and</li><li>• If verified, the date verified.</li></ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S2.19	<p>VoteCal must capture and store the following identification information for each voter record:</p> <ul style="list-style-type: none"> <li>• The last 4 digits of the voter's Social Security Number (SSN4), if known or provided, which must be accessible for input, query and reporting;</li> <li>• The Social Security Administration verification status of that number (, verified, not-verified, or pending verification; see process described in S5; ID Verification); and</li> <li>• If verified, the date verified.</li> </ul>		
S2.20	<p>VoteCal must capture and store the voter's current and historical methods of registration (e.g., "by mail," "walk-in," "registration drive," "DMV," etc.), based on codes that can be defined and modified by authorized SOS administrators.</p>		
S2.21	<p>VoteCal must capture, store and display for voters who register by mail:</p> <ul style="list-style-type: none"> <li>• Whether or not the voter is a first-time voter, subject to the HAVA ID requirement (HAVA Section 303[b]);</li> <li>• Whether or not the voter has satisfied the ID requirement and, if so, how; and</li> <li>• If exempt from this requirement, the reason for that exemption.</li> </ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S2.22	<p>For each voter registration affidavit received, VoteCal must capture and store the following discrete data:</p> <ul style="list-style-type: none"><li>• Affidavit number;</li><li>• Execution date (from the affidavit);</li><li>• Date the affidavit was received; and</li><li>• Effective date of registration for the affidavit; and</li><li>• The voter registration record that was created or updated based on data in the affidavit.</li></ul>		
S2.23	<p>VoteCal must store and display the current and historic images of the full registration affidavit in a format consistent with either ANSI/AIIM standards or a Bidder-proposed standard.</p>		
S2.23.1	<p>VoteCal must store and display the current and historic images of the full registration affidavit with a minimum resolution of two hundred (200) dots per inch (dpi) and maximum resolution of three hundred (300) dpi.</p>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S2.24	VoteCal must provide ability to display the current and historic images of the voter's signature independently from the affidavit with a minimum resolution of two hundred (200) dpi and maximum resolution of three hundred (300) dpi.		
S2.25	VoteCal must provide the ability to zoom into affidavit and signature images.		
S2.26	VoteCal must provide ability to attach and store other images to a voter's record in GIF, TIF, JPG, PNG and PDF formats, such as letters received from the voter.		
S2.27	VoteCal must capture, store and display an average of fifty (50) free-form text comments and/or notes per voter record with an average size of five hundred (500) characters per comment or note.		
S2.27.1	VoteCal must be scalable to store an average of one hundred (100) free-form text comments and/or notes per voter record, with an average size per comment or note of one thousand (1,000) characters.		
S2.27.2		Requirement S2.27.2 is deleted effective Addendum #10.	

Req. #	Mandatory VoteCal System Business Requirement	Proposed Solution Description	Supporting Documentation Reference
S2.28	VoteCal must allow multiple comments and notes to be stored for a single registered voter. Each note must have a creation date, County ID and County user name (or user ID) associated with it.		
S2.29	VoteCal must retain all voter records and associated data, including images for each voter record, such that processes and reports that are generated with an "as of" date correctly reflect the data applicable on the "as of" date.		
S2.30	VoteCal must capture and store data for confidential voters under the California Elections Code (EC) §2166, EC §2166.5, EC §2166.7 such that the following criteria are met: <i>(see 2.30a through 2.30f below)</i>		
S2.30a	All such voters must have a mailing address different from the residence address or domicile.		
S2.30b	Such voters must be automatically designated as permanent vote-by-mail voters.		
S2.30c	All restricted information (residence address, phone number and email address) about such voters must not be displayed unless the user has appropriate and sufficient permissions.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S2.30d	By default, any restricted information about such voters must not be automatically included in any reports, queries or data extracts, and must only be included in reports or data extracts by special action of users with appropriate and sufficient permissions.		
S2.30e	Elections officials who create lists, rosters and data extracts from VoteCal must be able to optionally choose whether to exclude the voter.		
S2.30f	The counts of such voters must be either included in or excluded from statistical abstracts such as the Report of Registration, based on user selection report options.		
S2.31	VoteCal must capture and store the legal basis for which a voter qualifies as confidential (e.g., "court ordered," "victim of domestic violence," and "public safety officer") based on user-defined codes that can be defined and modified by SOS authorized administrators.		
S2.32	VoteCal must capture and store the date of application for confidential status under EC §2166.7 and other applicable state and federal law.		

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<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S2.32.1	VoteCal must provide the capability to automatically remove confidential status at the conclusion of a time period that is configurable by an authorized administrator, based on business rules. (See Bidder's Library, Current Business Rules, for currently known business rules.)		
S2.32.2		Requirement S2.32.2 is deleted effective Addendum #10.	

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S2.33	<p>VoteCal must capture and store the status of uniformed services and overseas voters that have been identified and fall under the Uniformed and Overseas Citizens Absentee Voting Act (UOCAVA), including the following information:</p> <ul style="list-style-type: none"> <li>• Category of qualification (e.g., uniformed services voter – domestic, uniformed services – overseas, non-military/civilian overseas voters);</li> <li>• Date and method of registration (e.g., state VRC, federal VRC, Federal UOCAVA Registration/Vote-By-Mail application postcard);</li> <li>• Date and method of application for vote-by-mail status (e.g. Federal UOCAVA Registration/Vote-By-Mail application postcard, County vote-by-mail application, etc.); and</li> <li>• If application was rejected, the reason for rejection and the date notice of rejection was sent to voter.</li> </ul>		
S2.34	<p>VoteCal must capture and store a record of list maintenance notices sent to a voter (e.g., RCP, ARCP, 8(d)(2) notices, CAN, etc.), including the date the extract for mailing label was created or the actual date sent.</p>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S2.35	VoteCal must provide a user interface for authorized SOS administrators to add and maintain allowable data values for all fields where the set of possible data values is constrained.		
S2.36	<p>VoteCal must capture and store vote-by-mail voting status of each voter, including:</p> <ul style="list-style-type: none"> <li>• Type of vote-by-mail voter: one-time, special absentee (e.g., military and overseas – see EC §300), permanent vote-by-mail (EC §3201), and all-mail precinct;</li> <li>• Type of application (e.g., State defined such as on-line, federal form, sample ballot return application, Federal UOCAVA Vote-By-Mail postcard, County vote-by-mail application, etc.);</li> <li>• Date application received;</li> <li>• Source of the application (how received);</li> <li>• Whether or not the application was accepted or denied; and</li> <li>• If denied, the reason for the denial.</li> </ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S3	VOTER REGISTRATION: Registrant Search	<p>S3 requirements cover voter registrant searches that will be executed by authorized SOS users or by authorized county elections officials' staff. County elections officials' staff and SOS users may execute searches to research voter registration issues. County elections officials' staff may also execute searches of VoteCal records to resolve list maintenance questions or address other issues that VoteCal transmits through electronic notices, as well as to pre-populate and modify data to submit to VoteCal.</p> <p>Requirements listed in S3 include those that are specific to searches that are executed for list maintenance or research purposes, as well as those that are applicable to any search. Requirements specific to searches that are executed for the purpose of pre-populating data for eventual submission to VoteCal (as a candidate update to a record) are described in S4: Registration Processing.</p>	

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S3.1	<p>VoteCal must allow an authorized user to query and locate an existing record in the system interactively, using any one or a combination of the following criteria:</p> <ul style="list-style-type: none"><li>• Full or partial first name;</li><li>• “Smart name” variances on first name;</li><li>• Full or partial middle name;</li><li>• Full or partial last name;</li><li>• Soundex variations on last name;</li><li>• Full or partial residence address;</li><li>• Full or partial mailing address;</li><li>• Full or partial telephone number;</li><li>• Full or partial VoteCal assigned UID;</li><li>• Full or partial CDL/ID;</li><li>• Full or partial Registration affidavit number;</li><li>• Full or partial SSN4;</li><li>• Full or partial date of birth (DOB)</li><li>• Place of birth;</li><li>• Political party preference;</li><li>• Precinct; and</li><li>• Political district.</li></ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S3.2	VoteCal must provide ability to search up to ten (10) years of historical values for name, address, UID, affidavit number, precinct and/or political district fields that are entered as search criteria, if the user chooses an option to include historical values for these fields.		
S3.2.1	In response to a search executed for research or list maintenance purposes, VoteCal must return all high-confidence matches and all potential matches that exceed the minimum matching threshold (See S9: Record Matching and Merging).		
S3.2.2	For any executed search, VoteCal must display the following information, at a minimum, for each match: <ul style="list-style-type: none"> <li>• Full voter name;</li> <li>• UID;</li> <li>• Date of birth;</li> <li>• CDL/ID (if available);</li> <li>• SSN4 (if available); and</li> <li>• Residence address</li> </ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S3.3	<p>For any executed search, VoteCal must, upon user choice, display applicable detail for a presented match, including:</p> <ul style="list-style-type: none"> <li>• historic voter activity data;</li> <li>• historic voting participation data;</li> <li>• historic affidavit images and</li> <li>• historic signature images.</li> </ul>		
S3.4		Requirement S3.4 is deleted effective Addendum #8.	
S3.4.1		Requirement S3.4.1 is deleted effective Addendum #8.	
S3.5		Requirement S3.5 is deleted effective Addendum #8.	
S3.5.1		Requirement S3.5.1 is deleted effective Addendum #8.	

Req. #	Mandatory VoteCal System Business Requirement	Proposed Solution Description	Supporting Documentation Reference
S4	VOTER REGISTRATION: Registration Processing	<p>All voter registration additions and updates from the county elections officials' staff will be submitted via the EMS to VoteCal. Online voter registration transactions from registrants/voters will come from the Secretary of State online voter registration website to VoteCal without streaming through the EMS.</p> <p>For voter registration transactions from the EMS, the county elections official's staff may <u>optionally</u> begin with a search of VoteCal records. If the county elections official's staff executes a search of the VoteCal database as an initial step, VoteCal will present a single matched record, if available, that meets or exceeds the high-confidence threshold for that search function. The county elections official's staff may optionally select that matched record for the purpose of pre-populating the data in a new transaction to submit to VoteCal, and then make additions and changes to the data through the EMS. If the county elections official's staff does not search for a match, or if VoteCal does not return a single high-confidence match in response to a search, the county elections official's staff will enter all required data fields for a new transaction.</p> <p>The process described in these requirements refers to the ID Verification process (which is described in more detail in S5: ID Verification), and includes a check for existing records with the same UID as that of the submitted record (as described in S9: Record Matching).</p> <p>The requirements do not include actions the county elections officials' staff would perform within the EMS.</p>	
S4.1	In response to a search that a user executes for purpose of submitting changes to an existing voter registration record, VoteCal must display a "match" result only if there is a single match that exceeds the high-confidence threshold.		

<b>Req. #</b>	<b>Mandatory VoteCal System Business Requirement</b>	<b>Proposed Solution Description</b>	<b>Supporting Documentation Reference</b>
S4.2	VoteCal must evaluate all submitted registration records against configurable data validation rules, and reject any records that have one or more errors configured as critical severity, and provide notice of the rejection to the appropriate county. (See Bidder's Library, Current Data Validation Rules, for currently known validation rules.)		
S4.3	Records presented to VoteCal that do not have critical severity data validation errors but have other non-fatal Deficiencies must be accepted into the system, with the need for correction of Deficiencies recorded. (See Bidder's Library, Current Data Validation Rules, for currently known validation rules.)		
S4.4	VoteCal must provide the capability for authorized users to configure data validations, including adding, modifying, enabling/disabling, and setting severity level. (See Bidder's Library for currently known validation rules.)		
S4.5	VoteCal must submit registration records that were not rejected for critical severity data validation errors to the ID verification (IDV) and UID creation process as described in S5: ID Verification.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S4.6	VoteCal must search for an existing voter record that contains the same UID as the submitted registration record in accordance with record matching requirements described in S9: Record Matching and Merging and S5: ID Verification.		
S4.7	If VoteCal finds a single, high-confidence match of an existing voter record with the submitted record, VoteCal must update the existing voter registration record with information from the submitted record. (See S9: Record Matching and Merging concerning merge and match requirements.)		
S4.8	If VoteCal cannot find a single, high-confidence match based solely on UID of an existing voter registration record with the submitted registration record, VoteCal must create a new record for the voter.		
S4.9	VoteCal must determine and indicate whether the voter is required to provide ID when voting in accordance with HAVA Section 303(b) and 42 U.S.C. Section 15483(b)(1), and any other applicable state or federal law. (See Bidder's Library, Current Business Rules, for documentation of currently known business rules.)		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S4.10	<p>Once a UID is assigned to a voter record, VoteCal must record:</p> <ul style="list-style-type: none"> <li>• The basis for the assigned UID (CDL/ID, SSN4, auto generated); and,</li> <li>• Voter status, according to configurable business rules. (See Bidder's Library, Current Business Rules, for currently known business rules.)</li> </ul>		
S4.10.1	<p>When a county submits a change in status of a voter's registration to "cancelled" or "inactive" based on information received locally within the county, VoteCal must automatically accept the change in status and the county-supplied reason for the change. (See Bidder's Library, Current Business Rules, for currently known rules pertaining to cancellation or inactivation of voter registration.)</p>		
S4.11	<p>Within twenty-four (24) hours of completing processing of any new registration, re-registration, or update of name, date of birth, CDL/ID or SSN4 with the resultant new or updated record in "active" status, VoteCal must compare that record against available death records for possible matches, in accordance with the requirements listed in S10: CDPH Death Records.</p>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S4.12	Within twenty-four (24) hours of completing processing of any new registration, re-registration, or update of name, date of birth, CDL/ID or SSN4 with the resultant new or updated record in "active" status, VoteCal must compare that record against available felon records for possible matches, in accordance with the requirements listed in S11: CDCR Felon Data.		
S4.13	Within twenty-four (24) hours of completing processing of any new registration, re-registration, or update of name, date of birth, CDL/ID or SSN4 with the resultant new or updated record in "active" status, VoteCal must compare that record against all other existing VoteCal records for possible duplicates, in accordance with the requirements listed in S12: Duplicate Identification.		
S4.14	For all voter registration transactions that do not have fatal data validation errors and are received by 11:59:59 p.m. PT in a given day, VoteCal must receive and store all new images associated with that voter record and not already contained within the database by 7:30:00 a.m. PT of the following State business day.		

Req. #	Mandatory VoteCal System Business Requirement	Proposed Solution Description	Supporting Documentation Reference
S5	VOTER REGISTRATION: ID Verification	S5 requirements describe the ID verification that is to occur for every voter registration or re-registration transaction that an EMS submits to VoteCal. The process validates a CA driver's license number, an identification card number or an SSN4 through an interface involving data maintained by California's Department of Motor Vehicles (DMV). Bidders should assume that the ID Verification interface features will support retrieval of digitized signatures (see Section IV.E.2.d for information on the extension of this interface that SOS plans will be implemented in mid-2012 to support an emerging SOS online Voter Registration website, COVR)).	
S5.1	VoteCal must support the existing DMV ID verification (IDV) interface, which operates on a transactional basis. (Refer to the Bidder's Library, ID Verification Interface Specifications, for more detailed specification of that interface.)		
S5.2	For new voter registrations, re-registrations, and for updates with a change of name, date of birth, CDL/ID or SSN4, VoteCal must automatically submit the data for validation from the DMV or the Social Security Administration through the IDV interface.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S5.3	<p>VoteCal must automatically assign the record a unique ID (UID) based on the CDL/ID provided by the DMV if:</p> <ul style="list-style-type: none"><li>• IDV verifies the provided CDL/ID as an exact match, <i>or</i></li><li>• IDV identifies a CDL/ID as a single exact match when no CDL/ID was provided, or when a different CDL/ID was provided.</li></ul>		
S5.4	<p>If the UID that VoteCal would assign based on verified CDL/ID has already been assigned to a different record, VoteCal must generate a UID based on an SOS-approved algorithm. (Refer to the Bidder's Library, Calvoter and Calvalidator Data Standards, for more detailed information on the current version of the SOS-approved algorithm.)</p>		
S5.5	<p>When VoteCal generates a UID based on the SOS-approved algorithm because the UID that would be based on CDL/ID or SSN4 is already assigned to another record, VoteCal must send electronic notice to the affected county(ies) to resolve the issue.</p>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S5.6	In cases where VoteCal generated a notice to 2 or more counties to resolve a duplicate CDL/ID- or SSN4-based ID, and one of the involved counties changes a CDL/ID or SSN4 (e.g., to correct a data entry error), then VoteCal must change all affected voter UIDs to conform to UID assignment rules described in this section (e.g., assign a CDL/ID- or SSN4-based UID where it previously could not because the UID had already been in use) and send electronic notice of UID change to all affected counties.		
S5.7	When the UID that would be based on CDL/ID or SSN4 is already assigned to another record and both counties verify that the voter registration records with the same CDL/ID or SSN4-based ID information are not the same voter, VoteCal must notify SOS authorized administrators.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S5.8	<p>VoteCal must automatically generate a unique ID (UID) for the record based upon an SOS-approved algorithm for SSN4-based UIDs if:</p> <ul style="list-style-type: none"> <li>• The IDV verifies the SSN4 as a single exact match or multiple exact match; and</li> <li>• The IDV does not identify a CDL/ID as a single exact match when no CDL/ID was provided.</li> </ul> <p>(Refer to the Bidder's Library, Calvoter and Calvalidator Data Standards, for more detailed information on the current SOS-approved algorithm.)</p>		
S5.9	<p>VoteCal must automatically generate a unique ID (UID) for the record based upon an SOS-approved algorithm, if the IDV is unable to either match the provided CDL/ID or SSN4 or identify a single exact match to a CDL/ID. (Refer to the Bidder's Library, Calvoter and Calvalidator Data Standards, for more detailed information on the current SOS-approved algorithm.)</p>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S5.10	When VoteCal generates a UID that is not based on the CDL/ID, the SOS-approved algorithm for generating that UID must ensure that if the voter reregisters at a later time with the same information, the system will generate the same UID or base number for the UID.		
S5.11	When ID verification cannot be completed at time of VoteCal receipt of the transaction, the record must be saved with a generated UID. VoteCal must automatically retry an incomplete ID verification, and if a CDL/ID or SSN4 is verified for the record, VoteCal must: <ul style="list-style-type: none"> <li>• Reassign an appropriate UID to the voter registration record; and</li> <li>• Identify any potential pre-existing records for that voter and provide electronic notice of the potential match to the county of the pre-existing record(s).</li> </ul>		
S5.12	VoteCal must receive digitized signature images from the DMV.		

Req. #	Mandatory VoteCal System Business Requirement	Proposed Solution Description	Supporting Documentation Reference
S6	VOTER REGISTRATION: DMV Change of Address	<p>California's current implementation of the National Voter Registration Act (NVRA, or 'motor voter') allows for electronic processing of address changes for existing registered voters. VoteCal will support the existing DMV Change-of-Address (DMV COA) interface and processes, namely:</p> <ul style="list-style-type: none"> <li>• Attempt to match the records received from DMV against existing voter registration records;</li> <li>• Provide such matches to counties for appropriate processing; and</li> <li>• Provide unmatched DMV COA transactions to the county for further research and possible match to a voter.</li> </ul>	
S6.1	VoteCal must receive voter registration address change data from the DMV in accordance with the National Voter Registration Act (NVRA), EC §2102, EC §2107 and Vehicle Code §12950.5.		
S6.1.1		Requirement S6.1.1 is deleted effective Addendum #8.	
S6.1.2		Requirement 6.1.2 deleted process (S5: ID Verification), effective Addendum #10.	
S6.2	VoteCal must attempt to match DMV voter registration change of address (COA) transactions against existing voter registration records using matching criteria established by the SOS. (See S9: Record Matching and Merging for requirements specific to matching criteria.)		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S6.3	<p>For matches of DMV COA transactions against existing voter registration records that meet or exceed the established confidence threshold, VoteCal must automatically:</p> <ul style="list-style-type: none"> <li>• Update the existing voter registration record with the new voter registration data received from DMV; and</li> <li>• Update the voter activity history with the basis for registration changes.</li> </ul>		
S6.4	<p>For matches of DMV COA transactions that do not meet the established confidence threshold for automatic matching but that meet the established minimum confidence threshold of that match function, VoteCal must automatically send a notice to the county that it must make a determination of whether the records match.</p>		
S6.5	<p>When a county verifies that a pre-existing voter registration record matches the DMV COA transaction, VoteCal must:</p> <ul style="list-style-type: none"> <li>• Record that information, including the basis for determination, in the voter activity history of the matched voter; and</li> <li>• Update the existing voter registration record with the new voter registration data received from DMV.</li> </ul>		

<b>Req. #</b>	<b>Mandatory VoteCal System Business Requirement</b>	<b>Proposed Solution Description</b>	<b>Supporting Documentation Reference</b>
S6.6	If a county determines that the potential match of DMV COA transaction to a pre-existing voter registration record is not valid, VoteCal must record the determination that the DMV COA transaction was not associated with the record and the basis for that determination.		
S6.7	VoteCal must provide authorized users the capability to un-match previously matched DMV COA transactions at any time after such matches have been applied. In such instances, VoteCal must correct any changes that were applied to the record as a result of the prior match and handle the transaction as a confirmed non-match for that process.		
S6.8	When a DMV COA transaction cannot be matched against any existing voter registration records, VoteCal must send unmatched DMV COA data to the appropriate county.		
S6.9	VoteCal must allow SOS authorized Administrators to record whether or not a county wants the SOS to mail voter registration cards for that county, for DMV COA transactions determined not to match an existing VoteCal record.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S6.10	VoteCal must generate a data extract of addresses for unmatched DMV COA transactions so that voter registration cards can be printed by the State through a third-party mailing house.		
S6.11		Requirement S6.11 is deleted effective Addendum #8.	
S6.12		Requirement S6.12 is deleted effective Addendum #8.	
S6.13		Requirement S6.13 is deleted effective Addendum #8.	
S6.14		Requirement S6.14 is deleted effective Addendum #8.	
S6.15		Requirement S6.15 is deleted effective Addendum #8.	
S6.16		Requirement S6.15 is deleted effective Addendum #8.	
S6.17		Requirement S6.15 is deleted effective Addendum #8.	
<b>S7</b>	<b>VOTER REGISTRATION: Voter Notification Cards (VNC)</b>	<b>In accordance with California law (EC §2155), county elections officials must mail voters voter notification card (VNC) following voter registration, re-registration, or updates to the voter record based on a variety of data points (e.g., voter's notification of an address change). VoteCal must provide the capability for SOS to generate an extract for some or all counties to mail VNCs through a third party such as the California Office of State Publishing (OSP).</b>	

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<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S7.1	VoteCal must have the capability to generate a data extract, based on the applicable mailing address for each voter, of all required VNC information across the State so that VNCs can be printed by the State through a third-party mailing house.		
S7.2	VoteCal must indicate in the voter record the date that the record was included in a data extract for VNC mailing.		

Req. #	Mandatory VoteCal System Business Requirement	Proposed Solution Description	Supporting Documentation Reference
S8	VOTER REGISTRATION: EMS-VoteCal Synchrony Verification	S8 requirements pertain to capability for either authorized county elections officials staff or authorized SOS users to conduct a “synchronization” audit to identify inconsistencies between EMS data and VoteCal data. The process supported by these requirements is for the purpose of ensuring accuracy and currency of VoteCal and EMS data.	
S8.1	<p>VoteCal must provide authorized administrators the ability to execute a process that identifies differences between VoteCal and EMS data. Differences would include data in VoteCal that is not in an EMS, as well as data in an EMS that is not in VoteCal. For purposes of this requirement, the data to be compared are:</p> <ul style="list-style-type: none"> <li>• Voter registration data other than images, including voter activity history and voter participation history (see Glossary for definitions of voter registration data, voter activity history, and voter participation history);</li> <li>• For affidavit, signature and document images (including historical images), the image file name, date created and date modified; and</li> <li>• Precinct and political district data as described in requirements within S18: Precinct-District mapping</li> </ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S8.2	<p>VoteCal must filter, sort and group identified differences between EMS and VoteCal records according to values or ranges of values of one or a combination of the following:</p> <ul style="list-style-type: none"><li>• Date of user's or VoteCal's action that created or changed data</li><li>• Registration date on the record</li><li>• CDL/ID</li><li>• UID</li><li>• Date of birth</li><li>• Registration status</li><li>• Electronic notice type</li><li>• Electronic notice date</li><li>• Electronic notice status</li></ul>		

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<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S9	LIST MAINTENANCE: Record Matching and Merging	<p>S9 requirements focus on the configuration of criteria for determining matches between records (either duplicate voter records, matches returned in response to a user-initiated search, or matches of voter records with death, felon or third party address change records) and on requirements associated with merging records that are determined to be a “match.”</p> <p>Though this section is called upon in Section 4: Registration Processing and matching is referenced in S6: DMV Change of Address and other List Maintenance requirements sets, the focus in S9 is the specification of the matching processes and the merge and unmerge processes.</p>	

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S9.1	<p>VoteCal must include a user-configurable method for authorized SOS administrators to:</p> <ul style="list-style-type: none"> <li>• Establish sets of registration record matching criteria;</li> <li>• Configure which criteria apply to each type of matching function (e.g., user-initiated registrant search for list maintenance/research purposes, user-initiated search for purpose of submitting data additions or updates to VoteCal, VoteCal search for existing record upon receipt of a registration transaction, death record matching, felon record matching, duplicate record checks, NCOA matching, etc.);</li> <li>• Assign “confidence” levels to each criteria set as it applies to each matching function; and</li> <li>• Establish threshold confidence levels required for manual or automatic application of matches for each matching function.</li> </ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S9.2	<p>VoteCal must allow SOS authorized administrators to establish one or more bases for matching data in a registration record field, including (where applicable):</p> <ul style="list-style-type: none"><li>• Exact character match;</li><li>• First "X" characters of the field (where "X" is user configurable);</li><li>• Same characters and order in string, but with spaces and punctuation removed;</li><li>• Soundex match (or alternative method based on phonetic pronunciation);</li><li>• "Smartnames" match based on common variations of First Name established by authorized SOS administrators (e.g., Robert = Bob, Bobby, Rob);</li><li>• "X" matching characters within string; and</li><li>• Same month and year.</li></ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S9.3	<p>VoteCal must allow SOS authorized administrators to identify a set of matching criteria based on combinations of individual field match settings, such as:</p> <ul style="list-style-type: none"> <li>• First Name- with "Smartnames"; Last Name- first 4 characters; and Date of Birth- same day and month; or</li> <li>• CDL/ID exact match; First Name- with "Smartnames"; Last Name- with Soundex.</li> </ul>		
S9.4	<p>VoteCal must allow SOS authorized administrators to configure and update whether or not an established matching criteria set is applied to each matching function, including:</p> <ul style="list-style-type: none"> <li>• Registrant searches for purposes of pre-populating a voter record;</li> <li>• Registrant searches for list maintenance and research purposes;</li> <li>• Searches for an existing record based on the UID;</li> <li>• Duplicate registration checks;</li> <li>• DMV transaction processing;</li> <li>• Death record matching; and</li> <li>• Felon record matching.</li> </ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S9.5	VoteCal must allow SOS authorized administrators to individually establish "confidence" values to each established matching criteria set as it applies to each potential matching function.		
S9.6	VoteCal must allow SOS authorized administrators to establish and modify confidence thresholds for each matching function so that matches found that meet or exceed that confidence threshold are automatically applied by the system. For matches that do not meet that threshold, but meet a lower "manual" minimum matching threshold, VoteCal must generate electronic notices to the appropriate county for match review and resolution.		
S9.7	<p>When evaluating voter records to identify potential matches with other voter records (match within VoteCal), DMV transactions, death records and felon records , VoteCal must exclude the following from matching results and notices to counties when same match criteria were used:</p> <ul style="list-style-type: none"> <li>• Previously verified matches;</li> <li>• Previously verified non-matches; and</li> <li>• Previously identified potential matches pending determination.</li> </ul>		

<b>Req. #</b>	<b>Mandatory VoteCal System Business Requirement</b>	<b>Proposed Solution Description</b>	<b>Supporting Documentation Reference</b>
S9.8	VoteCal must provide the ability for authorized SOS administrators to batch clear, by date range and/or by the county user ID, match determinations made inappropriately.		
S9.9	VoteCal must merge voter registration data into a single registration record when duplicate registrations are confirmed. The voter registration data must include voter activity history and voting participation history and be merged into the record with the most recent date of registration or voter registration update activity.		
S9.10	VoteCal must provide authorized users with the ability to un-merge a single voter registration record into separate registration records in the event that registration records were incorrectly merged. The separated voter registration data must include voter activity history and voting participation history and the separate registration records must contain the appropriate registration data.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
<b>S10</b>	<b>LIST MAINTENANCE: CDPH Death Records</b>	In accordance with Elections Code §2206 and California Administrative Code Title 2, Division 7, Chapter 1, Article 1, §20108.55, the Secretary of State receives death records from the California Department of Public Health (CDPH) and must provide this information to county elections officials for list maintenance purposes. The Secretary of State will also be responsible for ensuring any confirmed matches of death records with registered voters result in a cancellation of voter registration of the deceased persons.	
S10.1	VoteCal must receive and store new death records from CDPH.		
S10.2	VoteCal must match all new death records received from CDPH against existing voter registration records to identify existing voters that may have died.		
S10.3	For matches with new death records that meet or exceed the established confidence threshold, VoteCal must automatically: <ul style="list-style-type: none"> <li>• Cancel the voter's registration;</li> <li>• Record the basis for that cancellation in the voter's activity record; and</li> <li>• Send an electronic notice to the appropriate county of the cancellation and its basis.</li> </ul>		

<b>Req. #</b>	<b>Mandatory VoteCal System Business Requirement</b>	<b>Proposed Solution Description</b>	<b>Supporting Documentation Reference</b>
S10.4	For matches of new death record transactions that do not meet the established confidence threshold for automatic matching but that meet the established minimum confidence threshold of that match function, VoteCal must automatically: <ul style="list-style-type: none"> <li>• Note the potential match in the voter's record; and</li> <li>• Send electronic notice to the appropriate county of the potential match for investigation and resolution.</li> </ul>		
S10.5	VoteCal must allow an authorized county user to enter a determination of the validity of the potential match (valid or invalid).		
S10.6	VoteCal must apply authorized county users' determinations of validity of potential matches and change voter status, if appropriate, according to configurable business rules (Documentation of currently known business rules is available in the Bidder's Library, Current Business Rules.)		
S10.7		Requirement S10.7 has been deleted.	

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S10.8		Requirement S10.8 has been deleted.	
S10.9	VoteCal must provide authorized users the capability to un-match previously matched death records at any time after such matches have been applied. In such instances, VoteCal must correct any changes that were applied to the record as a result of the prior match and handle the transaction as a confirmed non-match for that process.		
S10.10	VoteCal must allow authorized SOS administrators to exclude from death record matching processes any death record determined to be incorrect or invalid.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
<b>S11</b>	<b>LIST MAINTENANCE: CDCR Felon Data</b>	<b>In order to comply with EC § 20108.55, VoteCal must have the capability to receive felon records from the California Department of Corrections and Rehabilitation (CDCR); to store such records on an ongoing basis; match records to voter registration records, and send electronic notices to counties to confirm potential matches; and, for confirmed matches, update registration status in accordance with business rules provided in the Bidder's Library. When CDCR data indicate that an individual is no longer under CDCR jurisdiction (i.e., no longer incarcerated or on parole), VoteCal must ensure that the CDCR record is no longer included in checks for matches of CDCR records with voter registration records.</b>	
S11.1	VoteCal must be capable of receiving and storing the California Department of Corrections and Rehabilitation (CDCR) felon records file.		
S11.2	VoteCal must match all new felon records received from CDCR against existing voter registration records to identify existing voters that may have become ineligible due to felon status, or may have become eligible to vote due to no longer being under CDCR jurisdiction (i.e., no longer incarcerated or on parole).		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S11.3	<p>For matches with new CDCR records that meet or exceed the established confidence threshold, VoteCal must automatically:</p> <ul style="list-style-type: none"> <li>• Change the status of the voter's registration in accordance with configurable business rules (documentation of current business rules is available in the Bidder's Library); and</li> <li>• Record the basis for that change in the voter's activity record.</li> </ul>		
S11.4	<p>For matches of CDCR records that do not meet the established confidence threshold for automatic matching but that meet the established minimum confidence threshold of that match function, VoteCal must automatically note the potential match in the voter's record.</p>		
S11.5	<p>VoteCal must provide the ability for an authorized county user to enter a determination that the potential match is valid.</p>		
S11.6	<p>VoteCal must provide the ability for an authorized county user that has investigated and determined that the potential match was invalid to enter that determination.</p>		
S11.7		Requirement S11.7 has been deleted.	

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S11.8		Requirement S11.8 has been deleted.	
S11.9	VoteCal must provide authorized users the capability to un-match previously matched felon records at any time after such matches have been applied. In such instances, VoteCal must correct any changes that were applied to the record as a result of the prior match and handle the transaction as a confirmed non-match for that process.		
S11.10	VoteCal must allow authorized SOS Administrators to exclude from felon matching processes any felon record determined to be incorrect or invalid.		
<b>S12</b>	<b>LIST MAINTENANCE: Duplicate Identification</b>	<b>In accordance with Elections Code § 2193 and HAVA 303 (a)(2)(B), VoteCal must have the capability to identify duplicate voter records and take action to ensure there is only one voter record for every eligible voter in California in the official list of voters.</b>	
S12.1	VoteCal must provide the ability for authorized SOS administrators to schedule and run duplicate checks across all voters in the database to identify potential duplicate registration records for the same voter using the criteria established for such matching.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S12.2	VoteCal must automatically merge voter registration records and assign the voter to the appropriate county when duplicate records are identified based on match criteria sets that meet or exceed the established confidence threshold.		
S12.3	VoteCal must, before automatically applying potential duplicate records, check voting participation history for the older registration record. If the older record indicates voting activity in an election after the date of registration in the newer record, the match must not be applied automatically and, instead, VoteCal must send electronic notice of potential match to the appropriate county(s) as indicated in requirement S12.4.		
S12.4	For matches of potential duplicate records that do not meet the established confidence threshold for automatic matching but that meet the established minimum confidence threshold of that match function, VoteCal must automatically note the potential match in both records.		
S12.5	For those records where a potential duplicate was identified with a record in another county, and an authorized county user makes a determination of match validity, VoteCal must update the other record with the determination.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S12.6		Requirement S12.6 has been deleted.	
S12.7	VoteCal must provide authorized users the capability to un-match previously confirmed duplicate records at any time after such matches have been applied. In such instances, VoteCal must correct any changes that were applied to the record(s) as a result of the prior match and store the determination that the records were confirmed non-duplicates.		
<b>S13</b>	<b>LIST MAINTENANCE: NCOA</b>	<b>VoteCal must provide the capability to process all registered voter records against an external USPS National Change of Address (NCOA) service on a regularly scheduled basis. Currently, SOS contracts to receive this service monthly from the California Employment Development Department (EDD). VoteCal must update the voter record with the potential NCOA match (no change in status) and provide an electronic notice to the county for evaluation and resolution. SOS Administrators must have the capability to monitor all such pending NCOA updates until resolved by the county.</b>	
S13.1		Requirement S13.1 has been deleted.	
S13.2	VoteCal must provide authorized SOS administrators the capability to configure a value 'X', such that the extracts created for NCOA processing are broken into multiple files, each containing a maximum of X records.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S13.3	VoteCal must evaluate the results from NCOA processing and reject invalid results - such as address changes previously received and address changes that are older than most recent changes received for a voter - according to configurable business rules.		
S13.4	VoteCal must note a potential address change in the voter record and send electronic notice to the appropriate county of the potential address change for determination of validity.		
S13.5	<p>When an NCOA address update has been determined to be valid where a voter has a forwarding address in the same county, VoteCal must automatically:</p> <ul style="list-style-type: none"> <li>• Update the (residence or mailing) address of the registrant;</li> <li>• Note in the activity history for that registrant that the record was updated because of NCOA match; and</li> <li>• Flag the record for automatic generation and mailing of a Change of Address Notice (CAN) in accordance with EC §2225.</li> </ul>		

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<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S13.6	<p>When an NCOA address update has been determined to be valid where the voter has a forwarding address in a different California county or outside the State, VoteCal must automatically:</p> <ul style="list-style-type: none"><li>• Determine the status of the registrant in accordance with configurable business rules (documentation of current business rules is available in the Bidder's Library);</li><li>• Note in the activity history for that registrant that the record was updated because of NCOA match; and</li><li>• Flag the record for automatic generation and mailing of a CAN in accordance with EC §2225.</li></ul>		

Req. #	Mandatory VoteCal System Business Requirement	Proposed Solution Description	Supporting Documentation Reference
S13.7	<p>When an NCOA address update has been determined to be valid where the voter has no forwarding address, VoteCal must automatically:</p> <ul style="list-style-type: none"> <li>• Determine the status of the registrant in accordance with configurable business rules (documentation of current business rules is available in the Bidder's Library);</li> <li>• Note in the activity history for that registrant that the record was updated because of NCOA match; and</li> <li>• Flag the record for automatic generation and mailing of a CAN in accordance with EC §2225.</li> </ul>		
<b>S14</b>	<b>LIST MAINTENANCE: Pre-Election Residency Confirmation Postcards (RCPs)</b>	<b>VoteCal must allow for data extracts to be generated for residency confirmation postcard mailings in accordance with EC §§ 2220 thru 2224.</b>	
S14.1	VoteCal must provide the ability to automatically generate a data extract of all required information in any or all counties on a batch basis so that RCPs and ARCPs can be printed by the State through a third-party mailing house. VoteCal must exclude records for voters who have voted within the previous X months where X is configurable.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
<b>S15</b>	<b>LIST MAINTENANCE: Change of Address Notification (CAN)</b>	When VoteCal receives third-party notice of a change of address, elections officials are required by law to follow up with postcard to the voter alerting them to the actions being taken. For uniformity and list maintenance practices, this section describes VoteCal capability to support mailing change of address notices to voters on behalf of counties, if counties choose to have SOS conduct mailings for them.	
S15.1	VoteCal must provide the ability for authorized SOS administrators to generate a data extract, based on the applicable mailing address for each voter, of all required information for one or more counties across the State so that CANs may be printed by the State through a third-party mailing house.		
S15.2	In accordance with EC §2225, subsections (b), (c) and (d), VoteCal must determine for each voter record the appropriate CAN notice.		
<b>S16</b>	<b>VOTER ELECTION DATA: Official List of Voters</b>	As the HAVA mandated official list of eligible voters, VoteCal must provide capability for extracting the official list of voters with respect to any election so that this data can be used to generate and print the polling place rosters.	
S16.1	VoteCal must provide authorized county users the ability to extract the official list of eligible registered voters with respect to any given election.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
<b>S17</b>	<b>VOTER ELECTION DATA</b>	<p>VoteCal must maintain voter participation history data that are necessary for to make determination of whether a voter who registers by mail must show ID the first time he/she votes (42 U.S.C. Section 15483(b)(1)(B)).</p> <p>Throughout the Election Cycle period, VoteCal must capture ongoing data changes related to vote-by-mail and provisional voting, to support the voter lookup capabilities on the public website.</p>	
S17.1	<p>VoteCal must maintain historic voting participation for all voters, regardless of the number of elections in which voters might have participated. The history captured and maintained for each voting event must include:</p> <ul style="list-style-type: none"> <li>• State defined code for the election;</li> <li>• Election date;</li> <li>• Voting precinct;</li> <li>• How voted (vote-by-mail, early, polling place, or provisional); and</li> <li>• Partisan ballot voted (for primary elections).</li> </ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S17.2	<p>Prior to an election, VoteCal must receive data from the EMS that enables a user to determine the following data for each registered voter:</p> <ul style="list-style-type: none"> <li>• Voting precinct assignment for the election; and</li> <li>• Polling place assignment for the election</li> </ul>		
S17.3	<p>VoteCal must capture and store the following vote-by-mail data for registered voters for every election:</p> <ul style="list-style-type: none"> <li>• Date that a voter was mailed a vote-by-mail ballot;</li> <li>• Manner in which the vote-by mail ballot was transmitted to the voter;</li> <li>• When the vote-by-mail ballot was received by the elections official;</li> <li>• Method of return of vote-by-mail ballot (e.g., mail, fax, etc.);</li> <li>• Form of voting (e.g., county issued vote-by-mail ballot or federal write-in vote-by-mail ballot);</li> <li>• Whether the ballot was accepted or rejected; and</li> <li>• If rejected, the reason for that rejection.</li> </ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S17.4	For registered voters who vote a provisional ballot in an election, VoteCal must capture and store whether or not the provisional ballot was counted and, if not, the reason it was not counted.		
<b>S18</b>	<b>PRECINCTS AND DISTRICTS: Precinct – District Mapping</b>	<b>So that VoteCal can correctly determine the Official List of Registered Voters with respect to political districts, and so that VoteCal can correctly compile and produce the Statement of Registration required by EC §2187, VoteCal must maintain precinct-to-district cross reference information. These data are provided by the EMS. The information is required for derivation of residence in political district based on the voter’s home precinct assignment.</b>	
S18.1	VoteCal must be able to identify, from the voter’s home precinct, the voter’s voting district for US Congress, State Senate, State Assembly, Board of Equalization and County Supervisory Districts, the municipality of residence if a voter is entitled to vote in that municipality, or if not, that the voter resides in the county’s unincorporated area.		
S18.1.1	VoteCal must capture and store county-defined local districts (e.g., school districts, water boards) and must be able to identify, from the voter’s home precinct, the voter’s membership in such districts.		

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<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S18.2	VoteCal must validate updates to precinct-district mapping against configurable data validation standards. (See Bidder's Library, Calvoter and Calvalidator Data Standards, for information on current data validation standards.)		
S18.3	VoteCal must notify county and SOS administrators of "orphan" precincts or political districts (e.g., home precincts without required political district assignments), and of "orphan" voter registration records (lacking a valid home precinct assignment).		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
<b>S19</b>	<b>SOS PROCESSES: Political Party Tracking</b>	<b>VoteCal must have the capability to track voters' political party data in order to (a) determine voter eligibility with respect to a primary election; (b) maintain uniformity of voter records and data; and (c) support the Report of Registration (ROR), which is a statistical abstract of party registration by political district.</b>	
S19.1	VoteCal must allow authorized SOS administrators to define and document changes to political parties. For each such party, VoteCal must capture and store the following information: <ul style="list-style-type: none"> <li>• SOS assigned party code (refer to the Bidder's Library for codes for currently recognized parties);</li> <li>• Whether or not the party is Qualified, Attempting to Qualify, or Non-Qualified;</li> <li>• Date of all changes in party status (Qualified/Non-Qualified/Attempting to Qualify);</li> <li>• Reason for such changes (if applicable); and</li> <li>• Current state party contact information.</li> </ul>		

Req. #	Mandatory VoteCal System Business Requirement	Proposed Solution Description	Supporting Documentation Reference
S20	SOS PROCESSES: Report of Registration (ROR)	<p>The ROR a statistical abstract of voter registration by political district and partisan affiliation, is published by the Secretary of State at prescribed times in accordance with EC §2187. Currently, counties extract their registration counts as of the specified date from their EMS, and then submit these statistics to the Secretary of State for compilation and publication as the official Report. Because VoteCal will contain the official list of registered voters, in the future system the ROR will be extracted and compiled based on VoteCal data.</p> <p>VoteCal will need the capability for each county to report, via the remediated EMS, when all voter registration activity as of the effective ROR date has been input into the system so that SOS administrators will know when that county's statistics can be captured. The ROR statistics will need to be captured and separately stored within the system to protect the official published data from alteration due to subsequent changes in the underlying voter registration data. VoteCal must enable SOS users to input the estimated counts of each county's eligible citizens, which are derived manually from a variety of data sources, and which becomes an integral part of one ROR component report.</p> <p>VoteCal must also enable an authorized SOS Administrator to create, on an ad hoc basis, an extract of specified VoteCal ROR data elements as of an Administrator-specified ROR Date and enable the Administrator to specify/select the SOS internal network location to which the electronic version of the resulting extract shall be routed/stored (this extract will be imported by the SOS CalVoter 2 system to support Election Night statistical analysis and reporting functionality, which is outside the scope of this RFP).</p>	
S20.1	VoteCal must provide authorized SOS Administrators the ability to view ROR completion status ('county entry of voter registrations not completed', 'county entry completed,' 'data extracted') for any county.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S20.2	VoteCal must capture and store ROR statistics of active registered voters by district and party within a county as of the established ROR date. VoteCal must capture these statistics county-by-county, or for the entire state at one time.		
S20.3	VoteCal must provide authorized SOS Administrators the ability to input the manually-calculated estimate for the number of persons 'eligible to register to vote' for each county as of the ROR date.		
S20.4	Once an ROR has been deemed final and ready for publication, VoteCal must provide authorized SOS Administrators the ability to 'finalize' the ROR such that its component statistical data cannot be modified.		
S20.5	Prior to 'finalization', VoteCal must permit authorized SOS Administrators the capability to delete ROR statistics for any or all counties and to recapture those statistics.		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S20.6	<p>VoteCal must support calculation and production of the following summary statistics for ROR component reports:</p> <ul style="list-style-type: none"> <li>• Registration By County</li> <li>• Registration By Political Bodies Attempting To Qualify</li> <li>• Registration By Congressional District</li> <li>• Registration By Senate District</li> <li>• Registration By Assembly District</li> <li>• Registration By Board of Equalization District</li> <li>• Registration By County Supervisorial District</li> <li>• Registration By Political Subdivision By County</li> </ul> <p>(See Bidder's Library, Example Report of Registration, for examples of ROR components.)</p>		
S20.7	<p>Once ROR data has been captured for a county, VoteCal must allow an authorized county user to request and receive VoteCal ROR statistics captured for that county, as well as information on whether or not the ROR has been 'finalized'.</p>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S20.8	<p>VoteCal must provide an authorized SOS Administrator the ability to:</p> <ul style="list-style-type: none"> <li>• Manually initiate a query to extract specified ROR data elements as of a specified ROR Date;</li> <li>• Specify the file format for the resulting extract file in accordance with authorized file formats; and,</li> <li>• Specify the SOS internal network drive location to which the extract file should be output/stored.</li> </ul> <p>(See Table III.3 within Section III.E.2.c – Internal and External Interfaces and Section IV.E.4.j – Other Processing for information regarding this requirement.)</p>		
<b>S21</b>	<b>SOS PROCESSES: State Voter Information Guide (VIG)</b>	<b>The requirements below pertain to the need for VoteCal administrators to have the capability to extract voter information based on specific data details (such as registrants within certain date ranges) and transmit that data extract to a third party for mailing of the State Voter Information Guide.</b>	
S21.1	<p>VoteCal must generate State “ballot pamphlet” or Voter Information Guide (VIG) mailing lists of registered voters eligible to vote in an upcoming election that meets the established specifications for this mailing list. (Refer to the Bidder’s Library for current mailing list specification.)</p>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S21.2	VoteCal must capture and store a voter's request to not be mailed the VIG. VoteCal must automatically exclude all voters who have so "opted out" from any VIG mailing lists generated.		
S21.3	VoteCal must update the voter activity record for each voter for whom a VIG address extract was generated, indicating the date of the extract and whether SOS or the county generated the extract.		
S21.4	VoteCal must provide the ability for authorized SOS administrators and authorized county users to generate mailing lists (or extracts of data for mailing lists) for all eligible registered voters that were not included in the State VIG mailing.		
<b>S22</b>	<b>SOS PROCESSES: Public Voter Registration Data Requests (PVRDR)</b>	<b>Requirements below pertain to the need for VoteCal to support workflow and associated data related to investigation, evaluation and fulfillment of PVRDRs.</b>	
S22.1	VoteCal must allow authorized SOS administrators and authorized county users to input, track and review Public Voter Registration Data Requests (PVRDRs), including: <ul style="list-style-type: none"> <li>• Requestor name;</li> <li>• Requestor ID number and type;</li> <li>• Requestor organization;</li> </ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
	<ul style="list-style-type: none"> <li>• Requestor residence and business addresses;</li> <li>• Requestor contact information (phone, fax, email addresses);</li> <li>• If Requestor is acting as an authorized agent for a qualified party, the name, address and contact information for the party legally qualified to purchase the data;</li> <li>• Requestor's stated purpose/use for the data;</li> <li>• Date of application;</li> <li>• Date application received;</li> <li>• Basis for qualification (election, party, academic, journalist, etc.);</li> <li>• Date of application fulfillment or denial;</li> <li>• Status of application;</li> <li>• Criteria used to select/exclude records for the extract; and</li> <li>• Filename(s) and number of records provided in the extract.</li> </ul> <p>(See Exhibit VI.2 – VoteCal Standard Reports, for additional description of the PVRDR.)</p>		

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<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S22.2	<p>VoteCal must allow authorized users to log the following items related to processing and fulfillment of a PVRDR:</p> <ul style="list-style-type: none"><li>• Date the event occurred</li><li>• Time the event occurred</li><li>• Free-form text note, averaging fifty (50) characters per PVRDR and scalable to one hundred (100) characters per PVRDR, of activities and events</li></ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S22.3	<p>VoteCal must provide authorized users with a method to select voter registration records for inclusion or exclusion in a PVRDR extract based on multiple criteria, with the ability to specify a range or list where applicable, including:</p> <ul style="list-style-type: none"><li>• County of residence;</li><li>• City of residence;</li><li>• Zip code(s);</li><li>• Home precinct;</li><li>• Political party affiliation;</li><li>• Current or historic date of registration;</li><li>• Age (before or after a specified date of birth, or within a specified range of dates of birth);</li><li>• Gender;</li><li>• Language preference;</li><li>• Voting participation history; and</li><li>• Political district (such as Congressional District, State Assembly District, County Supervisorial District, etc.).</li></ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S22.4	<p>In fulfillment of a PVRDR, VoteCal must be able to produce an extract as a standard tab-delimited text file that includes the following data fields for each voter:</p> <ul style="list-style-type: none"><li>• County of residence;</li><li>• Full name;</li><li>• Residence address;</li><li>• Mailing address;</li><li>• Party affiliation;</li><li>• Phone numbers;</li><li>• Email address;</li><li>• Language preference;</li><li>• Gender;</li><li>• Home precinct;</li><li>• Effective date of registration;</li><li>• Date of birth;</li><li>• Place of Birth;</li><li>• Registration status; and</li><li>• Registration method.</li></ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S22.5	<p>In fulfillment of a PVRDR that requests inclusion of voter participation history for each voter, VoteCal must be able to produce an extract in multiple related tab-delimited text files that includes the following files/data:</p> <ul style="list-style-type: none"><li>• Voter registration data (all fields identified in S22.4); and</li><li>• Voting participation history, including each relevant election in which each selected voter has voted and the method of voting (i.e., vote-by-mail, early or in-person).</li></ul> <p>The extracted files must include key data fields to appropriately relate/join the data in each file, so that the extracts can be imported into a relational database.</p>		

<b>Req. #</b>	<b>Mandatory VoteCal System Business Requirement</b>	<b>Proposed Solution Description</b>	<b>Supporting Documentation Reference</b>
S22.6	<p>In fulfillment of a PVRDR that requests inclusion of voter political district assignment for each voter, VoteCal must be able to produce an extract in multiple related tab-delimited text files that includes the following fields/data:</p> <ul style="list-style-type: none"> <li>• Voter registration data (all fields identified in S22.4); and</li> <li>• Political districts to which each voter is assigned.</li> </ul> <p>The extracted files must include key data fields to appropriately relate/join the data in each file, so that the extracts can be imported into a relational database.</p>		
S22.7	<p>VoteCal must include the ability for authorized SOS administrators to insert one or more fictional registration records into each PVRDR extract to “salt” the data extract so that improper use of the data can be traced to the particular PVRDR data release.</p>		
S22.8	<p>VoteCal must provide the ability to record the salted record(s) associated with each PVRDR.</p>		
S22.9	<p>VoteCal must enable authorized SOS administrators to save PVRDR extract files to a location external to VoteCal. (Extracted files will not be saved within VoteCal.)</p>		

Req. #	Mandatory VoteCal System Business Requirement	Proposed Solution Description	Supporting Documentation Reference
S23	<b>SOS PROCESSES: Jury Wheel Extracts</b>	Requirements listed below pertain to the need for VoteCal to support activities and associated data related to the evaluation and fulfillment of jury wheel requests.	
S23.1	VoteCal must provide authorized SOS administrators and authorized county users with a method to select voter registration records for inclusion or exclusion in a Jury Wheel extract based on multiple filtering criteria, with the ability to specify a range or list where applicable, including: <ul style="list-style-type: none"> <li>• County of residence;</li> <li>• City of residence;</li> <li>• Political district (such as Congressional District, State Assembly District; County Supervisorial District, local school district, etc.).</li> </ul> (See Bidder's Library, Calvoter and Calvalidator Data Standards, for current state and federal districts and associated codes.)		
S23.2	VoteCal must be able to further select records based on a formula that starts with the Nth record and selects every Mth record thereafter, where "N" and "M" are variables provided by an authorized administrator (e.g., select every 39 <sup>th</sup> record after record #17).		

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<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S23.3	<p>VoteCal must provide the ability for authorized SOS administrators to track requests for Jury Wheel Extracts (JWEs), including:</p> <ul style="list-style-type: none"><li>• Requestor name and contact information;</li><li>• Requestor address;</li><li>• Requestor specifications for the extract;</li><li>• Date of request;</li><li>• Date request received;</li><li>• Date request fulfilled (or denied); and</li><li>• Filename and number of records in the extract.</li></ul>		

Req. #	Mandatory VoteCal System Business Requirement	Proposed Solution Description	Supporting Documentation Reference
S24	SOS PROCESSES: Public Access Website	<p>Requirements listed below pertain to the need for VoteCal to provide online voter registration and self-service lookup of registration status and ballot status.</p> <p>SOS has adopted a standard for web applications to support mobile devices by optimizing standard browser screen displays via utilizing SOS standard cascading style sheets and java scripting (an approach that provides such support without requiring installation of an application or other component on the mobile device). SOS expects that any support VoteCal provides for mobile devices will not require installation any application or other component on those devices. VoteCal will be required to use the SOS-provided cascading style sheet in accordance with requirement T5.3 in this RFP.</p> <p>The requirements below include translation of public-facing pages into different languages. Pages and functions to be translated are all of those pages/functions that are used by the public in order to register to vote. Information and features that are not used in order to register to vote (e.g., polling place information) will not be translated.</p>	
S24.1	<p>For privacy purposes, the VoteCal public website must require an individual accessing the website to provide sufficient personally identifiable information to authenticate the individual and to prevent others from accessing that voter's data, and must not provide or confirm any additional private information. The personally identifiable information must be configurable by an authorized administrator, such as: first name, date of birth, house number and zip code.</p>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S24.2	<p>The VoteCal public website must allow a voter to determine:</p> <ul style="list-style-type: none"> <li>• Whether he or she is registered to vote;</li> <li>• Whether he or she has requested not to be mailed the Voter Information Guide;</li> <li>• Whether or not voter is registered as a permanent vote-by-mail or one-time mail ballot voter; and</li> <li>• Political party preference.</li> </ul>		
S24.3	<p>The VoteCal public website must support on-line voter registration pursuant to EC §2196 and other applicable state and federal law, including new registration and updates to an existing registration.</p>		
S24.3.1	<p>The VoteCal public website must allow a voter to determine:</p> <ul style="list-style-type: none"> <li>• His or her eligibility to vote in an upcoming election;</li> <li>• His or her voting precinct for an election; and</li> <li>• His or her polling place for an election.</li> </ul>		
S24.3.2	<p>The VoteCal public website must allow a voter to request not to be mailed (“opt out” of receiving) a Voter Information Guide, and allow a voter to undo a prior “opt out” request.</p>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S24.3.3	VoteCal must allow members of the public to perform all online voter registration and self-service lookup functions using mobile devices without requiring installation of any application or component on the mobile device.		
S24.4	The VoteCal public website must allow voters who have voted a provisional ballot to determine if their ballot was counted and, if not, the reason it was not counted.		
S24.5	The VoteCal public website must allow voters who have voted a vote-by-mail ballot to determine if their ballot was accepted and, if it was rejected, the reason it was rejected.		
S24.6	The data on voters' registration status and ballot status that VoteCal displays on the public website (Requirements S24.2 S24.4, S24.5) must be current as of a point in time that is no more than twenty-four (24) hours prior to the time of the user's query.		
S24.6.1		Requirement S24.6.1 is deleted effective Addendum #10.	

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S24.6.2	<p>VoteCal must allow an authorized SOS administrator to control the updates of public access website data on voters' eligibility to vote in an upcoming election, voting precinct assignment, and polling place assignment for an election (as described in requirement S24.3.1), by executing one of the following options:</p> <ul style="list-style-type: none"> <li>• Authorized administrator-initiated updates on an ad hoc basis for one or multiple counties for which updates have been received; and</li> <li>• Setting of an update frequency whereby VoteCal applies any and all data updates received from counties every X number of hours, where X is configurable by an authorized SOS Administrator.</li> </ul>		
S24.7	<p>The data that are accessible and queried through the VoteCal public access website must not change during a user's execution of a query.</p>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S24.8	<p>All public-facing VoteCal web pages and functions that a member of the public views or uses in order to register to vote, change voter registration-related data, or look up registration status (according to requirements S24.2, S24.3, and S24.3.2) must be available in ten (10) languages (English plus nine (9) additional languages) required by the Voting Rights Act, EC §2300(a)(8) or deemed necessary by the Secretary of State for language minority groups. These languages currently include English, Hindi, Khmer (Cambodian), Thai, Spanish, Chinese (Mandarin), Japanese, Korean, Tagalog, and Vietnamese.</p> <p>(SOS will be responsible for providing the required translations.)</p>		
S24.8.1	<p>VoteCal must be scalable and extensible to support web pages and functions that a member of the public views or uses in order to register to vote, change voter registration-related data, or look up registration status (according to requirements S24.2, S24.3, and S24.3.2) in a total of twenty one (21) languages (English plus twenty (20) other languages).</p>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
<b>S25</b>	<b>AFFIDAVIT ISSUANCE TRACKING</b>	<b>For fraud detection and prevention purposes, VoteCal must capture data related to the issuance of voter registration cards to individuals and organizations who conduct registration drives, relating the identifiers of issued affidavits to voter registration records.</b>	
S25.1	<p>VoteCal must capture and store information related to SOS issuance of blank voter registration affidavits to an individual or organization and returns of blank affidavits to SOS, including:</p> <ul style="list-style-type: none"> <li>• The name and contact information for the person who requested the affidavits;</li> <li>• The name of the requesting organization if any;</li> <li>• The date of issuance of blank affidavits;</li> <li>• The date of edit or correction to a record of issuance of blank affidavits;</li> <li>• The date of return of blank affidavits from a prior issuance; and</li> <li>• The number range of affidavits issued or returned.</li> </ul>		

<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S25.2	<p>VoteCal must capture and store data from the EMS regarding county issuance of blank voter registration affidavits to an individual or organization and return of blank affidavits to the county, including:</p> <ul style="list-style-type: none"><li>• The name and contact information for the person who requested the affidavits;</li><li>• The name of the requesting organization if any;</li><li>• The date of issuance of blank affidavits;</li><li>• The date of edit or correction to a record of issuance of blank affidavits;</li><li>• The date of return of blank affidavits from a prior issuance; and</li><li>• The number range of affidavits issued or returned.</li></ul>		
S25.3	<p>VoteCal must enable an authorized user to input a specific affidavit number or a range of affidavit numbers and retrieve the individual(s) or organization(s) to which the affidavit(s) was/were issued.</p>		

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<i>Req. #</i>	<i>Mandatory VoteCal System Business Requirement</i>	<i>Proposed Solution Description</i>	<i>Supporting Documentation Reference</i>
S25.4	VoteCal must, upon authorized user's input of a specific affidavit number or a range of affidavit numbers, display all voter registration records that were created or updated based on each affidavit, including the data described in requirement S3.2.2 for each voter registration record.		

## E. TECHNICAL REQUIREMENTS

This section contains the detailed technical requirements and response form (Table VI.2) that SOS requires of a proposed business solution to address the business processes described in Section IV – Proposed System and Business Processes as well as Table VI.1 - Mandatory VoteCal System Requirements, Functionality Reference, and Requirement Response Form.

All identified requirements are Mandatory requirements and are required in Draft Proposals and must be addressed in Final Proposals. Proposals will be evaluated on the quality of the response and solution for each requirement.

This is a "solution-based procurement," and SOS is expecting Bidders to develop an appropriate solution to meet the business requirements listed in Section VI.D – Business Functional Requirements and the technical requirements described in this subsection.

The Bidder is required to respond to each technical requirement listed Table VI.2 using the table provided. Bidders must not retype the requirements. If there is a discrepancy between the electronic copy and the hardcopy of the stated requirement in the RFP, the RFP master hardcopy takes precedence.

**Bidders are reminded that in order to receive a "Pass" for these requirements, their responses must be complete and in sufficient detail for the Evaluation Team to understand how the each requirement is to be met.**

Bidders shall provide a narrative response for each requirement individually, consisting of, for each requirement:

- The Proposed Solution Description column: a detailed description how the Bidder's proposed solution meets the needs associated with the requirement. This description must be in sufficient detail for SOS to fully understand all aspects of the proposed solution or the proposal may be deemed non-responsive.
- The Supporting Documentation Reference column: indicate where (Proposal Response volume number and page number or section in the product literature) in the Bidder's proposal volumes additional material can be found that is to be considered in the evaluation of the requirement response.

**Table VI.2 – VoteCal Technical Requirements and Response Form**

All Bidders must respond to all requirements stated in the following table for the VoteCal System. Failure to respond to or meet one of these business requirements may be deemed a material deviation.

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T1	<b>SECURITY AND PASSWORDS</b>		
T1.1	VoteCal user authentication must use single sign on based upon existing SOS security systems and domain accounts.		
T1.2	VoteCal access must provide a security function that allows the establishment of user roles and allows authorized SOS administrators to define the specific functions that can be performed by users assigned to each role.		
T1.3	VoteCal must be designed such that voter data is not cached on user systems.		
T1.4	VoteCal systems and environment must conform to recognized United States federal and California state government security standards and practices including system hardening, security in-depth and utilize diversity of design.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T1.5	VoteCal must encrypt all data in transit between system components. Encryption must be at least 128-bit and based on recognized industry standards.		
T1.6	VoteCal must encrypt all voter registration data whenever stored in non-volatile memory.		
T1.7	VoteCal must be designed and implemented to ensure that no VoteCal system component or combination of components will allow or facilitate access from one county environment to another or from non-VoteCal portions of the SOS environment to any county.		
<b>T2</b>	<b>INTERFACES</b>		
T2.1	All VoteCal interfaces with external systems other than EMS' must be implemented as service points except where that architecture is not compatible with the external system.		
T2.2	All VoteCal interfaces with external systems other than EMS' must be implemented using XML; a removable converter must be used to communicate with non-XML partners.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
<b>T3</b>	<b>SYSTEM AVAILABILITY AND BACKUP/RECOVERY</b>		
T3.2	VoteCal must back up data, operating systems, application code and configuration of all components to an SOS-designated Backup and Restore site on an SOS-defined periodic basis in full and on an incremental, differential or item basis.		
T3.3	VoteCal must provide the ability to restore data, systems, code, and/or configurations of all or any specific or selected component(s) from the SOS approved backup facility.		
T3.4	VoteCal must be designed so that no more than two (2) hours of committed data (i.e., data added to the database) is lost in the event of any system failure or system component failure regardless of the cause of failure.		
T3.5	VoteCal must allow for routine maintenance to be performed while the system is online and meeting all performance and availability requirements described in this RFP (see T3: System Availability and Backup/Recovery and T4: Performance and Capacity in Table VI.2 – VoteCal Technical Requirements and Response Form).		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T3.6	<p>The VoteCal System solution (inclusive of Development, Test, Training, and Production environments) must be supportable by the SOS Data Center (e.g., electrical capacity, HVAC, etc.), consistent with the sub-requirements and constraints specified in this T3.6 series of requirements.</p> <p>[See <del>version 2.0 of</del> the document entitled <b>Secretary of State Infrastructure Overview</b> (updated <del>May</del> <del>July</del> 2012) located within the VoteCal Bidder's Library via the SOS <i>Infrastructure Overview</i> link for general information on the SOS Data Center's physical facilities and operating parameters (<a href="http://www.sos.ca.gov/elections/votecal/bidders-library/doc-specific-reference-rfp.htm">http://www.sos.ca.gov/elections/votecal/bidders-library/doc-specific-reference-rfp.htm</a>)]</p>		
T3.6.1	<p>The Bidder's proposed VoteCal System solution hosted in the SOS <del>VoteCal</del> Data Center, inclusive of Development, Test, Training, and Production environments, shall not require an additional floor Power Distribution Unit (PDU) in order to operate within the SOS Data Center and meet all of the VoteCal requirements.</p>		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T3.6.2	The Bidder's proposed VoteCal System solution hosted in the SOS <del>VoteCal</del> -Data Center, inclusive of Development, Test, Training, and Production environments, shall not require floor pressure greater than 250 pounds/per square foot and 1,000 pounds per raised floor tile.		
T3.6.3	The Bidder's proposed VoteCal System solution hosted in the SOS <del>VoteCal</del> -Data Center, inclusive of Development, Test, Training, and Production environments, shall not require more than the 10 feet by 12 feet of raised floor space within the Data Center that SOS intends to dedicate to VoteCal.		
T3.6.4	The <u>total</u> BTU requirements of the Bidder's proposed VoteCal System solution hosted in the SOS <del>VoteCal</del> -Data Center, inclusive of Development, Test, Training, and Production environments shall not exceed 150,000 BTU.		
T3.6.5	The Bidder's proposed VoteCal System solution hosted in the SOS <del>VoteCal</del> -Data Center, inclusive of Development, Test, Training, and Production environments, shall not require more than a maximum of four (4) 30 AMP receptacles (e.g., L6-30Rs or L15-30Rs) per rack for up to eight (8) racks total.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T3.6.6	The Bidder's proposal must specify the BTU and electrical load requirements for each new Hardware item to be included in the VoteCal System solution hosted in the SOS Data Center (inclusive of Development, Test, Training, and Production environments) by completing and submitting Exhibits VI.3 thru VI.5.		
T3.6.7	For each of the up to eight (8) possible racks that SOS will allocate SOS Data Center space for to host the proposed VoteCal System solution (inclusive of Development, Test, Training, and Production environments), the Bidder's proposal must specify the BTU and electrical load requirements for <u>the</u> rack once loaded with all components anticipated by the Bidder by specifying this information (along with other required information) in Section B of Exhibit VI.6 - VoteCal System Rack Diagram and Description.		
T3.6.8	The Bidder's proposal must specify the <u>total</u> BTU and electrical load requirements for the entire VoteCal System solution hosted in the SOS <del>VoteCal</del> Data Center (inclusive of Development, Test, Training, and Production environments) by completing Section A of Exhibit VI.6 - VoteCal System Rack Diagram and Description (which specifies these totals based on all racks specified in Section B of this Exhibit).		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T3.7	The Bidder's proposal must specify the estimated network bandwidth required in order to conduct the required VoteCal Backup/Recovery activities while meeting all related requirements.		
T3.8	The Bidder's proposal shall specify all new Hardware and Third-Party and Contractor Commercial Proprietary Software that must be installed within the SOS Data Center in order to backup/recover the VoteCal System data, system components, documentation and other information to/from the external Backup/Recovery environment according to the specifications provided by the SOS Backup/Recovery vendor and consistent with the VoteCal requirements.		
<b>T4</b>	<b>PERFORMANCE AND CAPACITY</b>		
T4.1		Requirement T4.1 is deleted effective Addendum #8.	
T4.1.1	VoteCal must support and maintain, concurrently, five thousand (5,000) users of online registration (creation or update of voter registration records) through the public access website, while concurrently meeting all other T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements stated in this RFP.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T4.1.2	The VoteCal public access website functions for retrieval of voter registration status and related data (e.g., assigned polling place, vote-by-mail ballot status, provisional ballot status) must support and maintain twelve thousand (12,000) concurrent users while concurrently meeting all other T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements stated in this RFP.		
T4.1.3		Requirement T4.1.3 is deleted effective Addendum #8.	
T4.1.4		Requirement T4.1.4 is deleted effective Addendum #8.	

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T4.1.5	<p>VoteCal must support the following sustained transaction volumes concurrently, while concurrently meeting all other T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements stated in this RFP:</p> <ul style="list-style-type: none"> <li>• Three thousand (3000) county- and SOS-initiated transactions (e.g., EMS data transmittal of new and updated voter registration data, search for existing records, data retrieval for a record) per ten (10) second period;</li> <li>• Fifteen (15) ongoing processes involving sequential updates of multiple records (e.g., roster generation, extracts for mailing that require update to the voter record, updates of voter participation history, updates on voter vote-by-mail status, voter precinct reassignments);</li> <li>• Six hundred (600) online registrations (creating and updating voter registration data through the public access website) per ten (10) second period;</li> <li>• Twenty (20) ongoing executions of pre-defined reports, extracts, and ad hoc reports/queries;</li> </ul>		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
	<ul style="list-style-type: none"> <li>• Twenty-six hundred (2600) online retrievals of voter registration status and related data (e.g., vote-by-mail ballot status, provisional ballot status, and assigned polling place) per ten (10) second period; and</li> <li>• Forty (40) ongoing EMS-VoteCal synchronization processes.</li> </ul>		
T4.2		Requirement T4.2 is deleted effective Addendum #8.	
T4.2.1		Requirement T4.2.1 is deleted effective Addendum #8.	
T4.3	VoteCal must support forty million (40,000,000) voter records as implemented under this contract while concurrently meeting all other requirements of this RFP.		
T4.4	VoteCal must be able to scale to one hundred million (100,000,000) voter records, while maintaining system performance as specified in T4: Performance and Capacity requirements, with the addition of Hardware, operating system and Third Party Software licenses only.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T4.5		Requirement T4.5 was previously deleted --- the original requirement number is restored effective Addendum #8 for purposes of consistency.	
T4.6	VoteCal must provide the capacity to store an average of ten (10) affidavit images and ten (10) signature images for each voter registration record concurrent with meeting all T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP.		
T4.7	VoteCal must provide the capacity to store an average of ten (10) pages of attached document images per voter registration record concurrent with meeting all T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP.		
T4.8		Requirement T4.8 was previously deleted --- the original requirement number is restored effective Addendum #8 for purposes of consistency.	

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T4.9	VoteCal must complete List Maintenance Record Matching, automatic cancellation of voter records, and sending electronic notices to counties for CDPH Death Data and CDCR Felon Data within twenty-four (24) hours of availability of external CDPH or CDCR data files, as measured at the SOS LAN/WAN boundary located at the SOS Sacramento office, concurrent with meeting all T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP.		
T4.10	VoteCal must complete List Maintenance Record Matching, automatic merging of voter records, and sending electronic notices to counties for statewide Duplicate Identification within twenty-four (24) hours from the start of scheduled processing, as measured at the SOS LAN/WAN boundary located at the SOS Sacramento office, concurrent with meeting all T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T4.11	VoteCal must complete each county-initiated addition of or update to a voter registration record – including completing the ID verification process described in S4: Registration Processing and S5: ID Verification, checking for existing record with same ID in VoteCal, applying all data validation rules and business rules, and sending electronic notice to the county - within ten (10) seconds of receipt of the initiating county transaction, as measured at the SOS LAN/WAN boundary located at the SOS Sacramento office, concurrent with meeting all T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP.		
T4.11.1	VoteCal must complete each addition of or update to a voter registration record initiated through the public access website – including ID verification, checking for existing registration record with the same ID in VoteCal, applying all validation rules and business rules, and sending electronic notice to the county – no more than ten (10) seconds aggregated time after receipt of the website user's information, as measured at the SOS WAN/LAN boundary located at the SOS Sacramento office, concurrent with meeting all T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T4.11.2	VoteCal must complete processing and response to all voter inquiry transactions against the VoteCal public website for voter registration status and related data (e.g., vote-by-mail ballot status, provisional ballot status, assigned polling place and whether voter has opted out of receiving a VIG) within five (5) seconds, as measured at the SOS WAN/LAN boundary located at the SOS Sacramento office, concurrent with meeting all T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP.		
T4.12	For all pre-defined reports listed in Exhibit VI.2 – VoteCal Standard Reports <u>except</u> Public Voter Registration Data Request (PVRDR) reports, VoteCal must complete execution and return all results for queries needed to generate the reports within five (5) minutes, as measured at the SOS LAN/WAN boundary at the SOS Sacramento office, concurrent with meeting all T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP. (See Exhibit VI.2 – VoteCal Standard Reports, for descriptions of pre-defined VoteCal reports.)		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T4.12.1	VoteCal must complete extracts that include voter addresses – such as extracts for the Voter Information Guide, Voter Notification Cards, Residency Confirmation Postcards, Public Voter Registration Data Requests, Jury Wheel Extracts, Change of Address Notifications, NCOA processing, and Voter Registration Cards – VoteCal must complete extraction at a rate of at least one million (1,000,000) records every ten (10) minutes, concurrent with meeting all T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP.		
T4.12.2	VoteCal must complete query and return results for ad hoc reports and queries at a rate of no less than one thousand (1,000) records every 5 seconds, concurrent with meeting all T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP.		
T4.12.3	For ad hoc reports and queries, VoteCal must automatically terminate execution and return an explanatory error message to the user if the report/query has not completed within X seconds, where X is configurable by an authorized SOS administrator.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T4.12.4	<a href="#">VoteCal must have the capacity to store two thousand (2,000) reports and query statements, including the pre-defined reports described in Exhibit VI.2 – VoteCal Standard Report Specifications, while concurrently meeting all other requirements of this RFP.</a>		
T4.13	VoteCal must complete execution and return all results from a synchronization check between VoteCal and EMS within five (5) minutes for each one million (1,000,000) records checked, as measured at the SOS LAN/WAN boundary located at the SOS Sacramento office, concurrent with meeting all T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP.		
T4.14	VoteCal must complete processing of DMV COA data, including automatic updates to voter records and sending data to counties, within twenty-four (24) hours of the availability of DMV COA data, as measured at the SOS LAN/WAN boundary located at the SOS Sacramento office, concurrent with meeting all T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP.		

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Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T4.15	VoteCal must complete processing of NCOA matching results – including import of NCOA data, evaluation of NCOA results, and transmittal of required electronic notices to counties – within five (5) minutes of NCOA data availability for each one million (1,000,000) records available, as measured at the SOS LAN/WAN boundary located at the SOS Sacramento office, concurrent with meeting all T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP.		
T4.16		Requirement T4.16 is deleted effective Addendum #8.	
T4.17	For searches utilizing the UID field or the CDL/ID field, VoteCal must complete execution and return all results within two (2) seconds, as measured at the SOS LAN/WAN boundary located at the SOS Sacramento office, concurrent with meeting all other T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T4.18	<p>For searches not utilizing the UID field or the CDL/ID field, but using exact-match criteria on two (2) or more individually identifying data attributes (e.g., combination of Last Name, Data of Birth, First Name), VoteCal must return results within the following time frames, concurrent with meeting all other T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements of this RFP:</p> <ul style="list-style-type: none"><li>• 90% of the searches complete in less than one (1) second;</li><li>• 98% of the searches complete in less than two (2) seconds; and</li><li>• 100% of searches complete in less than (5) seconds.</li></ul>		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T4.18.1	<p>Searches for registrants that do not use either the UID or a combination of individually identifiable fields as criteria must meet the following response times as measured from the LAN/WAN boundary to the database and back to the LAN/WAN boundary, concurrent with meeting all other T3: System Availability and Backup/Recovery and T4: Performance and Capacity requirements in this RFP:</p> <ul style="list-style-type: none"> <li>• 80% of the searches complete in less than three (3) seconds;</li> <li>• 90% of the searches complete in less than five (5) seconds; and</li> <li>• 98% of the searches complete in less than eight (8) seconds.</li> </ul>		
T4.18.2	<p>If any search for registrants that does not use either the UID or a combination of individually identifiable fields as criteria does not complete within ten (10) seconds, VoteCal must terminate the search and send a message to the user that the query was terminated and should be revised to be more efficient.</p>		
T4.18.3	<p>VoteCal must enable an authorized SOS administrator to override the automatic termination of searches that do not complete within ten (10) seconds.</p>		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T4.19		Requirement T4.19 has been deleted.	
T4.20	VoteCal must provide the capability to retrieve archived audit log data within 48 hrs.		
<b>T5</b>	<b>PUBLIC INTERNET ACCESS</b>		
T5.1	VoteCal public web pages must adhere to SOS web publishing standards. (Refer to the Bidder's Library, Web publishing standards, for current web publishing standards.)		
T5.2		Requirement T5.2 has been deleted. See requirement T10.6.	
T5.3	All web pages must accept application of an SOS-provided cascading style sheet (CSS) file without modifications to the web pages. This includes any web pages presented as a user interface to SOS VoteCal users.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T6	<b>NETWORK</b>		
T6.1	No VoteCal function except the public access website may be accessible over the Internet.		
T6.2	VoteCal must utilize the SOS network wide-area-network (WAN) for connectivity between the central site, county nodes, and other interfaces. The Bidder's VoteCal solution must propose any changes required to WAN Hardware, Software or configuration management components. If awarded the Contract, the Bidder must supply any WAN-related Hardware and Software changes and provide for maintenance of WAN changes at its own expense through Phase VII – First Year Operations and Close-out and for any subsequent years of optional VoteCal Hardware and Software M&O extensions permitted by this procurement subject to the roles and responsibilities defined in requirement T6.4. See Attachment 1 – Statement of Work Section 6.i for information about SOS' intention to extend the WAN to the Contractor's location and to each of three (3) EMS vendor locations.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
	<p><b>Note:</b> Any new Hardware and/or Software the Bidder proposes in response to this requirement must be specified in the corresponding product lists in Exhibits VI.3 through VI.5 (see this Section's Exhibits) and included in the appropriate VoteCal System Hardware and Software cost tables (see Tables VII.1, VII. 2, and VII.3 in Section VII – Cost Tables).</p> <p>[See <del>version 2.0 of</del> the document entitled <b>Secretary of State Infrastructure Overview</b> (updated <del>May</del> July 2012) located within the VoteCal Bidder's Library via the SOS <i>Infrastructure Overview</i> link for general information on the SOS Data Center's physical facilities and operating parameters (<a href="http://www.sos.ca.gov/elections/votecal/bidders-library/doc-specific-reference-rfp.htm">http://www.sos.ca.gov/elections/votecal/bidders-library/doc-specific-reference-rfp.htm</a>)]</p>		

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Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T6.3	<p>VoteCal must utilize the SOS local-area-network (LAN) for connectivity between VoteCal components and the existing SOS infrastructure. The Bidder's VoteCal solution must propose any changes required to Hardware, Software or configuration management components. If awarded the Contract, Bidder must supply any Hardware and Software changes and must support the additions to SOS LAN components at its own expense through Phase VII – First Year Operations and Close-out and for any subsequent years of optional extensions of VoteCal Hardware and Software M&amp;O permitted by this procurement subject to the roles and responsibilities defined in requirement T6.4. See Attachment 1 – Statement of Work Section 6.i for information about SOS' intention to extend the WAN to the Contractor's location and to each of three (3) EMS vendor locations.</p> <p><b>Note:</b> Any new Hardware and/or Software <del>that the Bidder proposes in response to this requirement</del> must be specified <del>for this requirement should also be included in the information to be specified in the corresponding product lists in Exhibits VI.3 through VI.5 (see this Section's Exhibits) and included in the appropriate VoteCal System Hardware and Software cost tables (see Tables VII.1, VII. 2, and VII.3 in Section VII – Cost Tables).</del></p>		<p>Addendum 11  July 24, 2012</p>

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
	<p>[See <del>version 2.0 of</del> the document entitled <b>Secretary of State Infrastructure Overview</b> (updated <del>May-July</del> 2012) located within the VoteCal Bidder's Library via the <i>SOS Infrastructure Overview</i> link for general information on the SOS Data Center's physical facilities and operating parameters (<a href="http://www.sos.ca.gov/elections/votecal/bidders-library/doc-specific-reference-rfp.htm">http://www.sos.ca.gov/elections/votecal/bidders-library/doc-specific-reference-rfp.htm</a>)]</p>		
T6.4	<p>The Contractor's agrees to adhere to the following SOS-prescribed division of roles and responsibilities between the Contractor and SOS regarding Contractor's implementation and maintenance of proposed network changes to the SOS WAN/LAN: the Contractor will be allowed view access to the network management tools for those components of the network included within the Contractor's VoteCal solution; the Contractor shall specify any changes required to the SOS WAN/LAN for SOS review/approval; and, SOS will collaborate with the Contractor to implement any requested and approved changes to the SOS WAN/LAN.</p>		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T7	<b>AUDITING REQUIREMENTS</b>	VoteCal must log every action that changes voter registration data, precinct-district mapping data, political party data, or security roles or role assignments. Logs must contain sufficient information for authorized administrators to reliably reconstruct the chain of events and, where possible, track them back to a specific user.	
T7.1	<p>VoteCal must log all creations of and updates to voter registration data that are executed as a result of actions by county users, SOS users and automated VoteCal processes. (See Glossary for definition of "voter registration data.")</p> <p>The following information must be logged for each such change to voter registration data:</p> <ul style="list-style-type: none"> <li>• Data that was changed;</li> <li>• Prior value of the data before the change (if applicable);</li> <li>• Date and time of the change; and</li> <li>• Source of the change (either a VoteCal automated process identifier, SOS user name, or combination of county ID and county user name).</li> </ul>		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T7.2	<p>VoteCal must log all creations of and updates to voter registration data that are executed as a result of actions by members of the public using the VoteCal public access website. (See Glossary for definition of "voter registration data.")</p> <p>The following information must be logged for each such change to voter registration data:</p> <ul style="list-style-type: none"><li>• Data that was changed;</li><li>• Prior value of the data before the change (if applicable);</li><li>• Date and time of the change; and</li><li>• Source of the change (i.e., 'VoteCal website user').</li></ul>		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T7.2.1	<p>VoteCal must log all instances of viewing individual voter registration records, searching voter registration records, executing queries and reports against voter registration data, and executing extracts of voter registration data that are initiated by SOS users or county users. The following information must be logged for each such instance:</p> <ul style="list-style-type: none"><li>• Date and time of the initiation of the view of the record, search execution or query/report or extract execution;</li><li>• Source or performer of the action (either SOS user name or a combination of county ID and county user name); and,</li><li>• For searches, executions of queries and reports, and executions of extracts, the data selection and filtering criteria for the search, query/report, or extract.</li></ul>		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T7.2.2	<p>VoteCal must log creations of and updates to precinct and political district data (as described in S18: Precinct-District Mapping) by county users. The following information must be logged for each such change:</p> <ul style="list-style-type: none"> <li>• Data that was changed;</li> <li>• Prior value of the data before the change (if applicable);</li> <li>• Date and time of the change; and</li> <li>• County ID and county user name for the individual who submitted the change.</li> </ul>		
T7.2.3	<p>VoteCal must log creations of and updates to political party data (as described in S19: Political Party Tracking) by SOS users. The following information must be logged for each such change:</p> <ul style="list-style-type: none"> <li>• Data that was changed;</li> <li>• Prior value of the data before the change (if applicable);</li> <li>• Date and time of the change; and</li> <li>• SOS user name for the individual who submitted the change.</li> </ul>		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T7.2.4	<p>VoteCal must log all creations of and updates to security roles, security role permissions, and assignments of security roles to users. The following information must be logged for each such change:</p> <ul style="list-style-type: none"><li>• Data that was changed;</li><li>• Prior value of the data before the change (if applicable);</li><li>• Date and time of the change; and</li><li>• SOS user name for the individual who made the change.</li></ul>		
T7.3	<p>VoteCal must provide a graphical user interface for authorized SOS administrators to search, view, and print VoteCal audit log data including filtering and sorting by any field or combination of fields. Filtering must support wild card searches and range of data where applicable.</p>		
T7.4	<p>VoteCal must provide authorized SOS administrators the capability to archive audit log entries prior to a given date of change and to retrieve archived data according to configurable criteria.</p>		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
<b>T8</b>	<b>CODING AND ERROR HANDLING REQUIREMENTS</b>		
T8.1	All Software must adhere to an SOS-acceptable industry standard for code development and error handling that is appropriate for the development and implementation environment.		
T8.2	VoteCal must log all system processing errors, which must capture all relevant information for each error, including: <ul style="list-style-type: none"> <li>• Date/time;</li> <li>• User name;</li> <li>• Stack trace information;</li> <li>• Module/source; and</li> <li>• Error description.</li> </ul>		
T8.3	VoteCal must provide a graphical user interface for authorized SOS users to search, view, and print error log data that can be filtered and sorted by any field or combination of fields. Filtering must support wildcard searches and ranges of data values where applicable.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T8.4	<p>VoteCal user interfaces must provide user error messages that clearly communicate the following to the user:</p> <ul style="list-style-type: none"><li>• Simple, clear explanation of the error;</li><li>• Identification of the source/location of the error (e.g., module, line number, error code, etc.) for troubleshooting by SOS and Contractor support staff (VoteCal must allow this information to be suppressed in production environments); and</li><li>• Action that the user should take in order that will most directly and immediately correct the error (if applicable).</li></ul>		
T8.5	<p>VoteCal must provide a real-time alert (e.g., email, pager alert, etc.) to authorized SOS administrators and support staff upon each occurrence of one of a set of pre-defined application events.</p>		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T8.6	<p>VoteCal must provide a user interface for authorized SOS administrators to configure</p> <ul style="list-style-type: none"> <li>the specific events for which alerts will be provided;</li> <li>for each event, the administrator(s) and/or staff who will receive an alert; and</li> <li>for each combination of event and administrator(s) or staff, the method of transmittal of the alert (e.g., email, phone or pager alert, etc.).</li> </ul>		
<b>T9</b>	<b>REPORTING/QUERYING REQUIREMENTS</b>	<p>The VoteCal solution must include multiple pre-defined reports ready for execution by an authorized SOS user, plus capability to define and execute ad hoc reports and queries.</p> <p>For additional information about expected volumes of report/query execution activity and types of reporting/querying users, see Exhibit VI.2 – VoteCal Standard Report Specifications and Attachment 1, Exhibit 2.A – Introduction.</p>	
T9.1	<p>The VoteCal solution must provide authorized SOS users with capability and tool(s) to query VoteCal data and create formatted reports with user-defined sort criteria, filters, and subtotals/totals.</p>		
T9.1.1	<p>The data that VoteCal displays in response to an executed report or query must be current as of a point in time that is not more than twenty-four (24) hours prior to the time of report/query execution.</p>		

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Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T9.1.2	The VoteCal data extracted during execution of a report or query must not change during query execution.		
T9.2		Requirement T9.2 is deleted effective Addendum #10	
T9.3	VoteCal must allow authorized SOS users to save created ad hoc report data selection, sort, filter, grouping, and formatting parameters for later re-execution.		
<a href="#">T9.3.1</a>	<a href="#">VoteCal must allow authorized SOS users to manually delete previously saved query/report statements (data selection, sort, filter, grouping and formatting parameters).</a>		
T9.4	VoteCal must provide execution-ready versions of the pre-defined reports identified in Exhibit VI.2 – VoteCal Standard Report Specifications.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T9.5	<p>VoteCal must, for both ad hoc queries, ad hoc reports and pre-defined reports, allow the user to:</p> <ul style="list-style-type: none"> <li>• Preview/display the report or query results on screen, instead of or prior to printing the report;</li> <li>• Print results of the entire report/query or user selected page(s) to a user selected printer in a local SOS network environment; and</li> <li>• Export the report or query results electronically to a user specified location external to VoteCal, in multiple formats, including: Acrobat PDF, RTF, comma-delimited text file, and tab-delimited text file. (Report and query output will not be stored within VoteCal.)</li> </ul>		
T9.6	<p>For ad hoc queries and reports as well as pre-defined reports, VoteCal must provide authorized SOS users with a visual “progress indicator” during data extraction and report generation, and must allow users who execute a query or report to cancel execution prior to completion.</p>		
T9.7	<p>For both ad hoc and pre-defined reports, VoteCal must, at authorized SOS user option, include the report parameters and report execution date in report output.</p>		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T9.8	VoteCal must make all stored queries and reports available for immediate generation and for batch generation.		
T9.9	VoteCal must provide information to authorized users that batch-executed reports are completed.		
T9.10	.	Requirement T9.10 is deleted effective Addendum #10.	
<b>T10</b>	<b>GENERAL TECHNICAL REQUIREMENTS</b>		
T10.1	VoteCal must be instrumented to provide monitoring, alerts, notices and information to existing SOS monitoring systems. Additional tools for those areas that require more robust, extensive, and/or interactive monitoring must be included in the Bidder's proposal. (Refer to the Bidder's Library, SOS Infrastructure Overview, for information on existing SOS monitoring tools.)		
T10.2	VoteCal must provide functionality to allow authorized users to print screen information including application name and screen or function name.		
T10.3	VoteCal must provide a comprehensive and context-sensitive electronic help function that can be accessed both from the relevant application function and independently from a help menu.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T10.3.1	VoteCal must allow an authorized user to access and view help information from an application function without having to exit or close the application function.		
T10.3.2	The information that VoteCal provides through either the electronic help function menu or in a context-sensitive manner must include field-specific information on required data content and data format as well as general information about each application function and application screen or page.		
T10.3.3	VoteCal's electronic help function content must be cross-referenced, allowing an authorized user to view and access content on help topics and subtopics that are related to the help topic or subtopic that the user is currently viewing.		
T10.4	VoteCal must provide a Help table of contents, multiple (up to 15) index levels, and full text search.		
T10.5	The VoteCal help index levels, index values, help content and hierarchy of index values and associated help content must be configurable by an authorized SOS administrator for all general, function-specific and field-specific help topics and subtopics.		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T10.6	<p>VoteCal functions and features must conform to accessibility standards cited in</p> <ul style="list-style-type: none"><li>• California Government Code Section 11135:</li><li>• Section 508 of the United States Rehabilitation Act: and</li><li>• Web Content Accessibility Guidelines 2.0 (W3C World Wide Web Consortium Recommendation WCAG 2.0 12/2008, Level A &amp; Level AA Success Criteria).</li></ul>		

Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T10.7	<p><del>Contractor must provide an</del>SOS and Contractor staff that provide Help Desk and Maintenance and Operations (M&amp;O) support shall use the automated problem-tracking tool currently in use by SOS (iSupport, version 10.5.1.0) to enable staff to <del>report</del>record, track, monitor, and report on VoteCal operational and performance problems (e.g., defects and Deficiencies) detected, prioritized, and resolved during:</p> <ul style="list-style-type: none"> <li>• Pilot and Production operation of the VoteCal System beginning with Phase V – Pilot Deployment and Testing and extending through the end of Phase VII – First Year Operations and Close-out; and,</li> <li>• Ongoing VoteCal Production operations and maintenance supported by: <ul style="list-style-type: none"> <li>○ Contractor(s) staff, if SOS exercises optional M&amp;O year(s) with Contractor for VoteCal Hardware and/or Software M&amp;O support and services (as defined in Attachment 1 SOW – Exhibits 4 - Hardware, Maintenance and Operations Services and Help Desk Service Levels and Exhibit 5 - Software Maintenance and Operations Services and Help Desk Service Levels for the VoteCal System); and/or,</li> </ul> </li> </ul> <p>—SOS staff providing VoteCal Hardware and/or Software M&amp;O support and services.</p>		

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Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T10.8	<p>The Contractor shall specify the estimated number of iSupport problem tracking tool licenses required for the Contractor staff that will perform VoteCal project activities requiring such licensing (e.g., VoteCal Help Desk and Hardware and Software M&amp;O support).</p> <p><b>Note:</b> SOS will pay for and provide iSupport licenses for Contractor and other VoteCal support staff use.</p>		

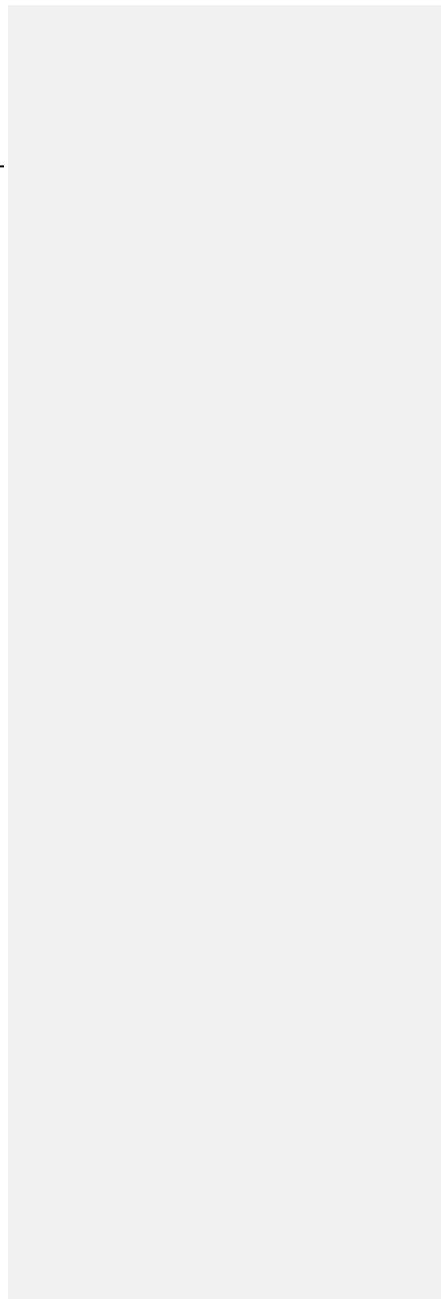
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Req. #	Technical Requirement Text	Proposed Solution Description	Supporting Documentation Reference
T10.9	<p>The Contractor shall provide and use software tools to scan and monitor the VoteCal System to ensure that security vulnerabilities are identified and addressed (see provisions 1.K and 1.I in Attachment 1 Exhibits 4 and 5). At a minimum, Contractor shall provide and use the vulnerabilities management tool set currently utilized by the SOS Information Technology Division (ITD), which is comprised of:</p> <ul style="list-style-type: none"> <li>• eEye Retina Network Security Scanner (v5.15.1)</li> <li>• Qualys Vulnerability Management (v7.2 – part of the QualysGuard Enterprise Suite)</li> <li>• Qualys Web Application Scanner (v2.0 – part of the QualysGuard Enterprise Suite)</li> </ul> <p><b>Note:</b> While SOS currently owns, maintains, and utilizes the tool set described above for general security vulnerability purposes, the Contractor must purchase, maintain and utilize (at a minimum) this same tool set to scan for, identify and address security vulnerabilities within the VoteCal System. The Bidder is reminded that this, as well as any additional software the Contractor proposes to address this requirement, must be specified in Exhibit VI.3 – VoteCal Third Party Software Products List and included in the VoteCal System Third-Party Software Cost Table (see Tables VII.1 in Section VII – Cost Tables).</p>		<p>Addendum 11  July 24, 2012</p>

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**Exhibit VI.1 – Project Management and Plan Requirements Response Matrix**

**Instructions**

This information table must specify the Volume and page number in the Bidder's Proposal in which the Bidder's response to each of the Project Management and Plan Requirements is located. Bidders should refer to Section VIII – Proposal Format for specifics regarding proposal format and content.

COLUMN HEADING	INFORMATION TO BE ENTERED IN THAT COLUMN
Project Management and Plan Requirement #	Do not enter – already in information table
Proposal Volume and Page # Where Response Can Be Found	Enter the Proposal Volume # and Page # where the Bidder's Response to the specified Project Management and Plan Requirement is located (location must conform with the prescribed format specified in Section VIII – Proposal Format)

Project Management and Plan Requirement #	Proposal Volume and Page # Where Response Can Be Found
P1	
P2	
P3	
P4	
P5	
P6	
P7	
P8	
P9	
P10	
P11	

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## Exhibit VI.2 – VoteCal Standard Report Specifications

VoteCal must allow the authorized user to configure report parameters for the following standard reports, which specify data detail, constraints/filters, and grouping/sorting options for each report. The standard reports are divided by category for ease of identification.

### Voter Registration

1. Detailed data for a specified individual voter, including (*at user option*):
  - o Voter participation history
  - o Voter activity history
  - o Audit log of changes to voter record
2. Affidavit image(s) for a specified individual voter
3. Document(s) associated with a specified voter record
4. List of registered voters as of a specified date, including voter address, precinct assignment, district membership, voter status and partisan affiliation, optionally sorted and/or filtered by:
  - o Voter name (*sort only*)
  - o Date of registration (range, before {date}, after {date})
  - o Jurisdiction
  - o District
  - o Precinct/precinct-part
  - o Age (range)
  - o Registration status
  - o Confidentiality status
  - o VBM/UOCAVA status
  - o Partisan affiliation
  - o Affidavit number (range)
  - o Language preference
  - o Combinations of above
5. Voter registration counts as of a specified date, optionally broken-out, sorted, grouped and/or filtered by:
  - o Partisan affiliation
  - o Voter age range
  - o Category of UID (i.e., CA DL based, SSN4 based, or generated)
  - o Registration status
  - o Voter language preference
  - o Vote-By-Mail status
  - o Confidentiality status
  - o Jurisdiction
  - o District
  - o Combinations of above
6. UOCAVA Voter counts as of a specified date, optionally broken-out, sorted, grouped and/or filtered by:
  - o Jurisdiction

- o UOCAVA type
- o Partisan affiliation
- o Voter age (range)

**Report of Registration (ROR)**

7. ROR status by county, indicating for each county whether the county has completed entry of voter registrations for a specific ROR, and whether the ROR statistics have been captured for that county.
8. Standard ROR statistical reports as of the specified ROR date:
  - o Registration by County
  - o Registration by Political Bodies Attempting to Qualify
  - o Registration by Congressional District
  - o Registration by Senate District
  - o Registration by Assembly District
  - o Registration by Board of Equalization District
  - o Registration by County Supervisorial District
  - o Registration by Political Subdivision by County
  - o (Note: see Bidders Library for examples of the required format and composition of each report.)
9. Historical comparison of between two ROR statistical reports for any two user-specified ROR dates, optionally filtered by:
  - o Jurisdiction
  - o Political district
  - o Partisan affiliation

**Voter Registration Activity**

10. Statistics on registration activity for a specified date range, optionally broken-out, sorted, grouped and/or filtered by:
  - o Jurisdiction
  - o District
  - o Partisan affiliation
  - o Voter age range
  - o Category of UID (i.e., CA DL based, SSN4 based, or generated)
  - o Voter language preference
  - o Vote-By-Mail status
  - o Confidentiality status
  - o Method of registration
  - o Type of registration (e.g., new, name change, address change in-county, address change out-of-county, partisan change, re-registration with no data change, etc)
  - o Time period of registration (by year or month)
  - o Combinations of above
11. Statistics on changes in voter registration status, optionally broken-out, sorted, grouped and/or filtered by:
  - o Jurisdiction
  - o Current Registration status

- Previous Registration status
  - Source/reason for change
  - Partisan affiliation
  - Voter age (range)
  - Type of voter (e.g., regular, confidential, UOCAVA)
  - Combinations of above
12. Statistics on voters who changed their VIG opt-out status, optionally broken-out, sorted, grouped and/or filtered by:
- Opt-out status
  - Date range (default monthly)
  - Jurisdiction
  - Partisan affiliation
  - Voter age (range)
  - Language preference
  - Combinations of above

#### **Voter Participation**

13. Statistics on voters who participated in a specified election, optionally broken-out, sorted, grouped and/or filtered by:
- Jurisdiction
  - District (category or specified district)
  - Voter age
  - Voter partisan affiliation
  - Partisan ballot voted (if applicable)
  - Registration status
  - Registration date
  - Confidentiality status/type
  - Vote-by-mail status/type
  - Language requirements
  - Voting method (e.g., Early, Vote-by-Mail, Polling Place, Provisional)
  - Ballot disposition (e.g., accepted, rejected)
  - Rejection reason (if applicable)
  - Combinations of above

#### **Registration Processing and List Maintenance Activity**

14. Detailed listing of unresolved registration issues over “X” days of age, optionally sorted and/or filtered by:
- Jurisdiction
  - Issue type (e.g., data validation error, fatal “pend,” potential move out of county, potential duplicate, potential death record match, potential felon match, potential DMV match, potential NCOA match)
  - Combinations of above
15. Statistics of unresolved registration issues over “X” days of age, optionally broken-out, sorted, grouped and/or filtered by:
- Jurisdiction

- Issue type (e.g., data validation error, fatal “pend,” potential move out of county, potential duplicate, potential death record match, potential felon match, potential DMV match, potential NCOA match)
  - Aging period
  - Combinations of above
16. Voter registration activity error statistics (error count, resolution time) within a specified date range, optionally broken-out, sorted, grouped and/or filtered by:
- Jurisdiction
  - Type of transaction (e.g., new registration, re-registration within county, re-registration in new county, change of party, cancellation, inactivation, etc.)
  - Type of error
  - Resolution type
  - Time period of error occurrence (by year or month)
  - Combinations of above
17. Count of applicable voters who have not been mailed a VNC after X days from registration, broken down by county
18. Statistics of list maintenance notices optionally broken-out, sorted, grouped and/or filtered by:
- Jurisdiction
  - Notice type
  - Date sent to voters
  - Date returned by voters
  - Disposition (e.g., Returned as undeliverable, Returned by Voter, Unknown, etc)
19. Statistics on voters who have not voted in “X” years and have not been sent an RCP or an ARCP, optionally broken-out, sorted, grouped and/or filtered by:
- Date of registration (range, before {date}, after {date})
  - Jurisdiction
  - District
  - Voter Age (range)
  - Confidentiality status
  - VBM/UOCAVA status
  - Partisan affiliation
  - Language preference
  - Combinations of above
20. Listing of voters who have not voted in “X” years and have not been sent an RCP or an ARCP, optionally sorted, grouped, and/or filtered by:
- Voter name (sort only)
  - Jurisdiction
  - District
  - Combinations of above
21. Statistics on voters who have had an “inactive” status and not voted since a User-specified date, optionally broken-out, sorted, grouped and/or filtered by
- Effective date of ‘Inactive’ status (range, before {date}, after {date})
  - Jurisdiction

- District
  - Voter Age (range)
  - Confidentiality status
  - VBM/UOCAVA status
  - Partisan affiliation
  - Language preference
  - Combinations of above
22. Listing of voters who have had an “inactive” status and not voted since a User-specified date, optionally sorted, grouped, and/or filtered by:
- Voter name (sort only)
  - Jurisdiction
  - District
  - Combinations of above
23. Statistics on Removal notices [8(d)(2)] sent, optionally broken-out, sorted, grouped and/or filtered by:
- Date range(s) (default monthly)
  - Jurisdiction
  - District
  - Partisan affiliation
  - Voter age (range)
  - Disposition
  - Combinations of above
24. Statistics on voter cancellation activity, optionally broken-out, sorted, grouped and/or filtered by:
- Date ranges (default monthly)
  - Reason/basis
  - Jurisdiction
  - Political district
  - Partisan affiliation
  - Voter age (range)
  - Combinations of above
25. Statistics on VoteCal duplicate identification (match count, valid match rate, resolution time) within a specified date range, optionally broken-out, sorted, grouped and/or filtered by:
- Jurisdiction
  - Match basis
  - Disposition (e.g., not resolved, match confirmed, non-match verified); and
  - Time Period (by month or year)
  - Combinations of above
26. NCOA performance statistics (match count, valid match rate, resolution time) within a specified date range, optionally broken-out, sorted, grouped and/or filtered by:
- Jurisdiction
  - Type of NCOA notice (e.g., individual, family, etc.)
  - Type of move (e.g., in-county, new county, out-of-state, no forwarding address)
  - Match disposition (e.g., not resolved, match confirmed, non-match verified)

- Time Period (by month or year)
  - Combinations of above
27. DHS Death Record matching performance statistics (match count, valid match rate, resolution time) within a specified date range, optionally broken-out, sorted, grouped and/or filtered by:
- Jurisdiction
  - Match criteria
  - Type (i.e., new registration validation versus new death notice against existing registration records)
  - Match disposition (e.g., not resolved, match confirmed, non-match verified)
  - Time Period (by month or year)
  - Combinations of above
28. CDCR felon matching performance statistics (match count, valid match rate, resolution time) within a specified date range, optionally broken-out, sorted, grouped and/or filtered by:
- Jurisdiction
  - Match criteria
  - Type (i.e., new registration validation versus new felon notice against existing registration records)
  - Match disposition (e.g., not resolved, match confirmed, non-match verified)
  - Time Period (by month or year)
  - Combinations of above
29. DMV Motor Voter performance statistics (match count, valid match rate, resolution time) within a specified date range, optionally broken-out, sorted, grouped and/or filtered by:
- Jurisdiction
  - Type of transaction (e.g., new registration, in-county move, move between counties)
  - Match criteria
  - Match disposition (e.g., not resolved, match confirmed, non-match verified)
  - Time Period (by month or year)
  - Combinations of above
30. Statistics on DMV turnaround aging (registration date vs. date sent to SOS), optionally broken-out, sorted, grouped and/or filtered by:
- Jurisdiction
  - Type of transaction (e.g., new registration, in-county move, move between counties)
  - Time Period (by month or year)
  - Combinations of above
31. Statistics on DMV ID verification performance (match counts, valid match rate, turnaround time) , optionally broken-out, sorted, grouped and/or filtered by:
- Jurisdiction
  - Type of verification requested (i.e., CA DL, SSN4, no ID)
  - Type of verification response
  - Time Period (by month or year)
  - Combinations of above

32. Statistics on time to resolve work items/match cases, optionally broken-out, sorted, grouped and/or filtered by:
  - o Jurisdiction
  - o Type or source (e.g., DMV COA, Felon, Data validation error, etc)
  - o Time Period (by month or year)
  - o Combinations of above
33. Statistics on 'high-confidence matches' that are identified at time of registration but declined as a match, compared to ultimate disposition, optionally broken-out, sorted, grouped and/or filtered by:
  - o Jurisdiction, and/or
  - o Registration time period (by month or year)
34. Statistics on 'undo' match cases, optionally broken-out, sorted, grouped and/or filtered by:
  - o Jurisdiction
  - o Type or source (e.g., DMV COA, Felon, Data validation error, etc)
  - o Time Period (by month or year)
  - o Combinations of above

#### **Investigations**

35. List of voters that have voted more than once in a specified election, optionally sorted, grouped, and/or filtered by:
  - o Voter name (sort only)
  - o Jurisdiction
  - o Combinations of above
36. List of addresses and voters at that address where more than a User-specified number of voters are registered at that address as of a specified date, optionally sorted, grouped, and/or filtered by:
  - o Address
  - o Method of registration
  - o Jurisdiction
  - o Combinations of above
37. List of cancelled voters who voted in a specified election after date of cancellation, optionally sorted, grouped, and/or filtered by:
  - o Voter name (sort only)
  - o Jurisdiction
  - o Reason for cancellation
  - o Combinations of above
38. List of voters for whom the affidavit date and registration transaction are more than a user specified number of days apart, optionally sorted, grouped, and/or filtered by:
  - o Voter name (sort only)
  - o Jurisdiction
  - o Registration Source
  - o Affidavit number (range, filter only)
  - o By date of registration transaction (range, before {date}, after {date})

- Combinations of above

**Address – Precinct – District Mapping**

39. Listing of Precincts by District as of a specified date, optionally sorted, grouped, and/or filtered by:

- Jurisdiction
- District type
- District name/number
- Combinations of above

40. Listing of Districts by Precinct as of a specified date, optionally sorted, grouped, and/or filtered by:

- Jurisdiction
- District type
- Precinct number (range)
- Combinations of above

41. Listing of 'orphaned precincts' (not assigned to one or more required districts), optionally sorted, grouped, and/or filtered by:

- Jurisdiction
- District type
- Precinct number (range)
- Combinations of above

42. Listing of 'orphaned districts' (not assigned to at least one precinct), optionally sorted, grouped, and/or filtered by:

- Jurisdiction
- District type
- District name/number
- Combinations of above

43. Listing of 'orphaned voters' (not assigned to a recognized precinct), optionally sorted, grouped, and/or filtered by:

- Jurisdiction
- Voter name (sort only)
- Combinations of above

**Political Parties**

44. Detailed data for a specified party, including (*at user option*):

- History of changes to party record
- Audit log of changes to Party record

45. Listing of political parties, including status and assigned system party code, optionally sorted, grouped, and/or filtered on:

- Party name (sort only)
- Party status

46. Listing of party contacts and the associated contact information, optionally sorted, grouped, and/or filtered on:
- o Party name (sort only)
  - o Party status
  - o Contact name (sort only)
  - o Position/role
  - o Contact method (e.g., phone, email, mailing address, etc)
  - o Combinations of above

**Public Voter Registration Data Requests (PVRDRs)**

47. Detailed data for a specified applicant/customer, including (at user option):
- o Current and historic contact information
  - o History of data requests and their disposition
48. Listing of PVRDR requests for a specified period, optionally sorted, grouped, and/or filtered on:
- o Applicant name
  - o Application date
  - o Disposition date
  - o Qualification basis (e.g., governmental, candidate, journalist, academic, etc)
  - o Disposition of request
  - o Type of data requested (e.g., voter data only, participation history, district membership, etc)
  - o Combinations of above
49. Statistics on PVRDR requests for a specified period, optionally broken-out, sorted, grouped and/or filtered by:
- o Qualification basis (e.g., governmental, candidate, journalist, academic, etc)
  - o Disposition of request
  - o Time Period (by month or year)
  - o Type of data requested (e.g., voter data only, participation history, district membership, etc)
  - o Combinations of above

**System Administration**

50. Listing of user accounts and their status, optionally sorted, optionally sorted, grouped, and/or filtered on:
- o User name
  - o Assigned role(s)/permissions
  - o Account status
  - o Combinations of above
51. List of Invalid login activity, optionally sorted, grouped, and/or filtered on:
- o User account provided
  - o Login failure reason (e.g., invalid user account, invalid password, account locked, etc)
  - o Activity date
  - o Combinations of above

- 
52. Listing of county profile configuration (parameters/settings), optionally sorted, grouped and/or filtered by:
- o Jurisdiction
  - o Parameter
  - o Combinations of above
53. Listing of job history, optionally sorted, grouped and/or filtered by:
- o Job date/time
  - o Source
  - o Job Type
  - o Disposition
  - o Combinations of above
54. Statistics on job execution duration (performance), optionally broken-out, sorted, grouped and/or filtered by:
- o Job date/time
  - o Source
  - o Job Type
  - o Disposition
  - o Combinations of above
55. Online Registration usage statistics for a specified period, optionally broken-out, sorted, grouped and/or filtered by:
- o Disposition
  - o Jurisdiction
  - o Age (range)
  - o Partisan affiliation
  - o Language preference
  - o Time Period (by hour, day, week, month or year)
  - o Combinations of above
56. Online website usage statistics, optionally broken-out, sorted, grouped and/or filtered by:
- o Web page viewed
  - o Activity/function
  - o Jurisdiction
  - o Age (range)
  - o Partisan affiliation
  - o Language preference
  - o Time Period (by hour, day, week, month or year)
  - o Combinations of above

The table on the pages that follow provides the frequency with which each report is expected to be executed.

REPORT CATEGORY	REPORT #	FREQUENCY OF REPORT EXECUTION
Voter Registration	1	Weekly
Voter Registration	2	As needed
Voter Registration	3	Daily to Weekly
Voter Registration	4	Weekly to Monthly
Voter Registration	5	Monthly and As Needed
Voter Registration	6	Monthly and As Needed
Report of Registration (ROR)	7	5 times/year in election years Annually in non-election years
Report of Registration (ROR)	8	5 times/year in election years
Report of Registration (ROR)	9	Annually in non-election years
Voter Registration Activity	10	Monthly and As Needed
Voter Registration Activity	11	Monthly and As Needed
Voter Registration Activity	12	Monthly and As Needed
Voter Participation	13	Monthly and As Needed
Registration Processing and List Maintenance	14	Daily
Registration Processing and List Maintenance	15	Daily
Registration Processing and List Maintenance	16	Daily
Registration Processing and List Maintenance	17	Daily
Registration Processing and List Maintenance	18	Monthly and As Needed
Registration Processing and List Maintenance	19	Monthly and As Needed
Registration Processing and List	20	Monthly and As Needed

REPORT CATEGORY	REPORT #	FREQUENCY OF REPORT EXECUTION
Maintenance		
Registration Processing and List Maintenance	21	Monthly and As Needed
Registration Processing and List Maintenance	22	Monthly and As Needed
Registration Processing and List Maintenance	23	Monthly and As Needed
Registration Processing and List Maintenance	24	Monthly and As Needed
Registration Processing and List Maintenance	25	Daily
Registration Processing and List Maintenance	26	Monthly and As Needed
Registration Processing and List Maintenance	27	Monthly and As Needed
Registration Processing and List Maintenance	28	Monthly and As Needed
Registration Processing and List Maintenance	29	Monthly and As Needed
Registration Processing and List Maintenance	30	Monthly and As Needed
Registration Processing and List Maintenance	31	Monthly and As Needed
Registration Processing and List Maintenance	32	Monthly and As Needed
Registration Processing and List Maintenance	33	Monthly and As Needed
Registration Processing and List Maintenance	34	Monthly and As Needed
Investigations	35	Daily
Investigations	36	Daily
Investigations	37	Daily

REPORT CATEGORY	REPORT #	FREQUENCY OF REPORT EXECUTION
Investigations	38	Daily
Address-Precinct-District Mapping	39	As needed
Address-Precinct-District Mapping	40	As needed
Address-Precinct-District Mapping	41	Monthly and As Needed
Address-Precinct-District Mapping	42	Monthly and As Needed
Address-Precinct-District Mapping	43	Monthly and As Needed
Political Parties	44	As needed
Political Parties	45	Monthly and As Needed
Political Parties	46	Monthly and As Needed
Public Voter Registration Data Requests (PVRDR)	47	As needed
Public Voter Registration Data Requests (PVRDR)	48	As needed
Public Voter Registration Data Requests (PVRDR)	49	As needed
System Administration	50	Daily to Weekly
System Administration	51	Daily to Weekly
System Administration	52	Daily to Weekly
System Administration	53	Daily to Weekly
System Administration	54	Daily to Weekly
System Administration	55	Daily to Weekly
System Administration	56	Daily to Weekly

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**Exhibit VI.3 – VoteCal Third Party Software Products List and Instructions**

**Instructions**

The *VoteCal Third Party Software Products List* should include all such required products and licenses (as defined in Attachment 1 – Statement of Work, Section 12.c – Third Party Software).

COLUMN HEADING	INFORMATION TO BE ENTERED IN THAT COLUMN
Item #	Do not enter – already in information table
Brief Description of Third-Party Software Item	Provide a brief description of the Third-Party Software item.
Fuller description of Third-Party Software, including possibly Manufacturer, Part #, Version #, Release #, Product Name	Provide a fuller description of the Third-Party Software item, including information such as manufacturer, version number, release number, product name as applicable
H/W & S/W Implementation Period (“1” or “2”)	<p>Specify either a “1” or a “2” in this column to indicate the H/W and S/W Implementation Period during which this Third-Party Software will be installed based on the type of project activities the Third-Party Software is primarily intended to support:</p> <ul style="list-style-type: none"> <li>• Designate a “1” in this column if the Third-Party Software will be installed during the first H/W and S/W Implementation Period and is primarily (or initially) intended to support the Project’s Development, Test and Training activities;</li> <li>• Designate a “2” in this column if the Third-Party Software will be installed during the second H/W and S/W Implementation Period and is primarily (or initially) intended to support the VoteCal project’s Pilot or Production activities</li> </ul> <p>If the Third-Party Software item will support <i>both</i> Implementation Periods, the Bidder should indicate a “1” in this column (because the Third-Party Software would be implemented during the earlier period).  This designation should correspond to applicable Deliverable(s) within the Bidder’s Project Schedule</p>
# of this Item Required	Enter the quantity of the specified Third-Party Software item required for the proposed solution (e.g., # of licenses - # of users supported by each license).

**Exhibit VI.3 — VoteCal Third Party Software Products List**

Use additional pages if necessary

Third Party Software Products List Page: \_\_\_\_\_

Item #	Brief Description of Third-Party Software Item	HW & S/W Implementation Period	Fuller Description of Third-Party Software, including possibly Manufacturer, Part #, Version #, Release #, Product Name	# of this Item Required
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

**Exhibit VI.4 – VoteCal Contractor Commercial Proprietary Software Products List and Instructions**

**Instructions**

The *Contractor Commercial Proprietary Software Products List* should include all such required products and licenses (as defined in Attachment 1 – Statement of Work, Section 12.a – Contractor Commercial Proprietary Software).

COLUMN HEADING	INFORMATION TO BE ENTERED IN THAT COLUMN
Item #	Do not enter – already in information table
Brief Description of Contractor Commercial Proprietary Software Item	Provide a brief description of the Contractor Commercial Proprietary Software item
H/W & S/W Implementation Period (“1” or “2”)	<p>Specify either a “1” or a “2” in this column to indicate the H/W and S/W Implementation Period during which this Contractor Commercial Proprietary Software will be installed based on the type of project activities the Contractor Commercial Proprietary Software is primarily intended to support:</p> <ul style="list-style-type: none"> <li>• Designate a “1” in this column if the Contractor Commercial Proprietary Software will be installed during the first H/W and S/W Implementation Period and is primarily (or initially) intended to support the Project’s Development, Test and Training activities;</li> <li>• Designate a “2” in this column if the Contractor Commercial Proprietary Software will be installed during the second H/W and S/W Implementation Period and is primarily (or initially) intended to support the VoteCal project’s Pilot or Production activities</li> </ul> <p>If the Contractor Commercial Proprietary Software item will support both Implementation Periods, the Bidder should indicate a “1” in this column (because the Third-Party Software would be implemented during the earlier period).</p> <p>This designation should correspond to applicable Deliverable(s) within the Bidder’s Project Schedule</p>
Fuller Description of Contractor Commercial Proprietary Software, including possibly Manufacturer, Part #, Version #, Release #, Product Name	Provide a fuller description of the Contractor Commercial Proprietary Software item, including information such as manufacturer, version number, release number, product name as applicable
# of this Item Required	Enter the quantity of this item required.

**Exhibit VI.4 – VoteCal Contractor Commercial Proprietary Software Products List**

Use additional pages if necessary

Contractor Commercial Proprietary Software Products List Page: \_\_\_\_\_

Item #	Brief Description of Contractor Commercial Proprietary Software Item	HW & S/W Implementation Period	Fuller Description of Contractor Commercial Proprietary Software, including possibly Manufacturer, Part #, Version #, Release #, Product Name	# of this Item Required
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

**Exhibit VI.5 – VoteCal System One-Time Hardware List and Instructions**

**Instructions**

The *VoteCal Hardware Products List* should include all required Hardware items proposed for the VoteCal solution and installation within the SOS Data Center and external to SOS to support remote access, network and other requirements (as needed), including quantity, manufacturer, brand name, and model number. all such required products.

COLUMN HEADING	INFORMATION TO BE ENTERED IN THAT COLUMN
Item #	Do not enter – already in information table
Brief Description of Hardware Item	Provide a brief description of the Hardware item
	<p>Specify either a “1” or a “2” in this column to indicate the Hardware (H/W) and Software (S/W) Implementation Period during which this Hardware will be installed based on the type of project activities the hardware is primarily intended to support:</p> <ul style="list-style-type: none"> <li>• Designate a “1” in this column if the Hardware will be installed during the first H/W and S/W Implementation Period and is primarily (or initially) intended to support the Project’s Development, Test and Training activities;</li> <li>• Designate a “2” in this column if the Hardware will be installed during the second H/W and S/W Implementation Period and is primarily (or initially) intended to support the VoteCal project’s Pilot or Production activities</li> </ul> <p>If this Hardware will support both Implementation Periods, the Bidder should indicate a “1” in this column (because the Hardware would be implemented during the earlier period). This designation should correspond to applicable Deliverable(s) within the Bidder’s Project Schedule</p>
Fuller description of Hardware, including possibly Manufacturer, Brand Name, Model #, Version/Series	Provide a fuller description of the Hardware item, including information such as manufacturer, brand name, model number, Version/Series as applicable
BTU Requirement	Specify the BTU requirement for this Hardware item.
Electrical Load Requirement	Specify the Electrical Load requirement for this Hardware item.
# of this Item Required	Enter quantity of specified Hardware item required for the proposed solution.
BTU Requirement for Total # of this Item	Specify the BTU Requirement for the Total # designated of this Hardware Item
Electrical Load Requirement for Total # of this Item	Specify the Electrical Load Requirement for the Total # designated of this Hardware Item

**Exhibit VI.5 — VoteCal One-Time Hardware Products List**

Use additional pages if necessary  
Hardware Products List Page: \_\_\_\_\_

Item #	Brief Description	HW & SW Implementation Period	Fuller Description (Manufacturer, Brand, Model #, Version/Series)	BTU Requirement	Electrical Load Requirement	# of this Item Required	BTU Requirement for Total # of this Item	Electrical Load Requirement for Total # of this Item
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								

## Exhibit VI.6 – VoteCal System Rack Diagram and Description and Instructions

### **Instructions**

The Bidder must use this Exhibit to provide the following visual and narrative information for the VoteCal System solution hosted within the SOS Data Center (inclusive of all environments required to support the VoteCal System Development, Testing, Training, Pilot and Production environments as proposed in Bidder's response to requirement P11 – VoteCal Technical Architecture).

Bidder shall complete **Section A** of this Exhibit by specifying the total BTU and electrical load requirements for the VoteCal System solution operating within the SOS Data Center. These totals should reflect the sum of the BTU and electrical load requirements specified for each of the racks described in Section B of this Exhibit (described below).

Bidder shall complete **Section B** of this Exhibit (adding additional pages as needed) to fully specify the following information for each of the up to eight (8) racks the Bidder may specify to support the VoteCal System Solution hosted within the SOS Data Center. The information may include diagrams and narrative but **must clearly provide the following information (at a minimum) for each rack:**

- The physical specifications of the rack without Hardware components, including weight, height, width, and depth;
- The physical specifications of the rack as fully loaded with all specified components (see below) including weight and (if different than above), height, width, and depth;
- The number of 30 AMP receptacles (e.g., L6-30Rs or L15-30Rs) required for the rack (a maximum of four (4) may be specified per rack - see requirement T3.6.4).
- Each Hardware component to be included in the rack, including proposed location within the rack (cross-referenced to the completed Exhibit IV.5 - VoteCal System One-Time Hardware List – remembering that all new Hardware proposed for the VoteCal System solution component should also be listed in);
- The rack's total BTU and electrical load (inclusive of all Hardware components loaded within the rack); and,
- Other relevant attributes and requirements associated with each rack

The Bidder should present rack information in whatever blend of diagrammatic and narrative information best relays the required information, therefore the Exhibit's Section B does not include any pre-formatted subsections, fields, etc. However, the **Bidder must ensure that the required information is easily identifiable for each rack (including the total BUT and electrical load for each rack)**. The Bidder should include additional pages as needed to relay the information required in response to Section B and designate the appropriate header information on each additional page.

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**Exhibit VI.6—VoteCal System Rack Diagram and Description**

Use additional pages if necessary

VoteCal System Rack Diagram and Description Page: \_\_\_\_\_

**Section A: Total BTU & Electrical Load Requirements for VoteCal in Data Center**

**Total BTU requirements for VoteCal System solution operating within the SOS Data Center** (including all Development, Test, Training, Pilot and Production environments):

\_\_\_\_\_

**Total electrical load requirements BTU VoteCal System solution operating within the SOS Data Center** (including all Development, Test, Training, Pilot and Production environments):

\_\_\_\_\_

**Section B: Specification, Build Description & BTU/Electrical Load Requirements per Rack** (for each of up to 8 racks for VoteCal in Data Center). At a minimum, provide all of the information described in the Instructions.

*Use additional pages if necessary*

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## SECTION VII – COST TABLES

### A. INTRODUCTION

**ATTACHMENTS IN THIS SECTION SHALL NOT CONTAIN ANY COST FIGURES UNTIL SUBMITTED WITH THE BIDDER'S FINAL PROPOSAL. FOR THE FINAL PROPOSAL, ALL COST INFORMATION MUST BE SEPARATELY SEALED AND IDENTIFIED.** (Refer to Section VIII - Proposal Format for instructions.)

The evaluation of solution costs will be based on the best value to the State, which includes costs as calculated according to the methodology in this section. It includes an escalation rate and adjustments as they specifically relate to the products and services to be obtained. Bidders must **itemize all costs, excluding taxes**, associated with their Final Proposal solution for the VoteCal Statewide Voter Registration System. The costs must include all proposed hardware, software, and services to be provided, and taxes although not itemized separately.

### B. PAYMENT TERMS

Each VoteCal Deliverable shall be billable upon SOS Acceptance of the Deliverable. In cases where SOS Acceptance of a Deliverable requires concurrent or prior SOS Acceptance of one or more other Deliverables, the Deliverable shall be billable upon Acceptance by SOS of that Deliverable and the concurrent or prior Deliverable(s). Unless SOS and the Contractor agree otherwise in writing, no payment shall be made for a Deliverable in a subsequent Phase until all Deliverables in the preceding Phase have received Acceptance from SOS. The SOS shall make payments to the Contractor only once a month and only for those Deliverables for which SOS provided Acceptance during the previous month.

Twenty percent (20%) of the cost shall be withheld from payment for Deliverables that have received Acceptance from SOS and from payments for Hardware and Third-Party and Contractor Commercial Proprietary Software (see below). The withheld amounts shall be payable to the Contractor according to the terms specified in Attachment 1 - Statement of Work, provision 13(e) - Twenty Percent 20% Withhold.

#### **Payments for Hardware and Third-Party & Contractor Commercial Proprietary Software**

After the Contractor delivers VoteCal Hardware and Third-Party and Contractor Commercial Proprietary Software to SOS, the Contractor may invoice the State for payment of **applicable** Hardware and Software costs once SOS Accepts Deliverable III.1 - VoteCal System Development, Test and Training Environments Certification Report and, later, Deliverable IV.4 - VoteCal System Pilot and Production Environments Certification Report. For additional information about the VoteCal System Hardware and Software applicable to each of these two Deliverables and Contractor Payments, see the *VoteCal Hardware and Third-Party & Contractor Commercial Proprietary Software Delivery and Payment* subsection in Attachment 1 Exhibit 2 – Tasks and Deliverables.

#### **VoteCal System Schedule of Deliverable Payments**

Contractor shall be paid a percentage of the Cost delineated in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost, exclusive of cost adjustments associated with Contract amendments, for SOS Acceptance of Deliverables according to the schedule below.

<b>VOTECAL SYSTEM – SCHEDULE OF DELIVERABLE PAYMENTS</b>		
Deliv #	Deliverable Description	% of Total Cost in Table VII.4, Line A4
<b>PHASE 0 - ONGOING PROCESS TASKS AND DELIVERABLES</b>		
<i>These Phase 0 Deliverables are ongoing throughout the VoteCal System Project and are subject to payments from Phase I through Phase VII. Payment for these Phase 0 deliverables is reflected in each phase beyond Phase 0 in the chart below.</i>		
0.1	Project Control and Status Reporting	
0.2	Maintain and Update Project Management Plans (as appropriate)	
0.3	Weekly Project Management Reports and Attend Weekly Project Meetings	
0.4	Attend Project Meetings with Key Business Users, County Users, Election Management System (EMS) Vendors, Other State Agencies and SOS Management (as required)	
0.5	Ongoing Issues Management and Risk Tracking	
0.6	Written Monthly Project Status Reports	
0.7	Change Control Processes	
0.8	Communications Processes	
<b>PHASE I - PROJECT INITIATION AND PLANNING</b>		
<i><u>Where indicated below, SOS Acceptance of a Deliverable in this Phase is contingent upon prior or concurrent Acceptance by SOS of one or more other Deliverables.</u> Deliverables in this Phase are not separately payable. Payment shall be made upon successful completion of the entire Phase, including SOS Acceptance of all Phase I Deliverables. The total of all Deliverables in this Phase is worth 5.0% of the Total Project Deliverables Cost as specified in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost and exclusive of cost adjustments associated with Contract amendments.</i>		
I.1	VoteCal Project Management Plan	
I.2	Integrated Project Schedule	
I.3	Quality Management Plan	
I.4	VoteCal Software Version Control and System Configuration Management Plan	
I.5	VoteCal System Organizational Change Management Plan	
I.6	VoteCal Requirements Traceability Matrix Plan	
I.7	VoteCal System Project Kick-Off Meeting	
I.8	Phase 0 Ongoing Process Tasks and Deliverables <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable I.9)</i>	

<b>VOTECAL SYSTEM – SCHEDULE OF DELIVERABLE PAYMENTS</b>		
Deliv #	Deliverable Description	% of Total Cost in Table VII.4, Line A4
I.9	Final Report for Phase I <u>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable I.8 plus prior SOS Acceptance of all other Phase I Deliverables)</u>	
Phase Completion		5.0%
<b>PHASE II – DESIGN</b>		
SOS Acceptance of <del>each</del> <u>some</u> Deliverables in this Phase is contingent upon prior <u>or concurrent</u> Acceptance by SOS of <u>one or more</u> other Deliverables <del>where-as</del> indicated below. The total of all Deliverables in this Phase is worth 17.1% of the Total Project Deliverables Cost as specified in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost and exclusive of cost adjustments associated with Contract amendments.		
II.1	VoteCal System Requirements Specifications <u>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables I.1, I.2, I.6, and I.7)</u>	0.9%
II.2	VoteCal System Functional Specifications <u>(Acceptance Criteria shall include prior SOS Acceptance <del>by SOS</del> of Deliverables <del>II.1, I.2, I.6, and I.7)</del></u>	1.8%
II.3	VoteCal System Detailed System Design Specifications <u>(Acceptance Criteria shall include prior SOS Acceptance of Deliverable II.2 and <del>II.6 concurrent SOS Acceptance of Deliverable II.4)</del></u>	3.6%
II.4	VoteCal System EMS Integration and Data Exchange Specifications Document <u>(Acceptance Criteria shall include prior SOS Acceptance of Deliverable II.6 and concurrent SOS Acceptance of Deliverable <del>II.3</del>)</u>	0.9%
II.5	VoteCal System Detailed Requirements Traceability Matrix <u>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables <del>I.6, II.4 and II.7)</del></u>	2.7%
II.6	VoteCal System Technical Architecture Documentation <u>(Acceptance Criteria shall include prior SOS Acceptance of Deliverable <del>II.2</del>)</u>	1.8%
II.7	VoteCal System Data Model and Data Dictionary <u>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.3 and II.6 <del>and concurrent SOS Acceptance of Deliverable II.4)</del></u>	1.8%
II.8	VoteCal System Data Integration Plan <u>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.4 and II.7)</u>	2.7%
II.9	VoteCal System Training Plan <u>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.2 and II.4)</u>	0.5%
II.10	Phase 0 Ongoing Process Tasks and Deliverables <u>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable II.11)</u>	
II.11	Final Report for Phase II <u>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable II.10 plus prior SOS Acceptance of all other Phase II Deliverables)</u>	
Phase Completion		0.4%

<b>VOTECAL SYSTEM – SCHEDULE OF DELIVERABLE PAYMENTS</b>		
Deliv #	Deliverable Description	% of Total Cost in Table VII.4, Line A4
<b>PHASE III – DEVELOPMENT</b>		
<i><b>SOS Acceptance of each Deliverable in this Phase is contingent upon prior or concurrent Acceptance by SOS of one or more other Deliverables as indicated below. The total of all Deliverables in this Phase is worth 22% of the Total Cost as specified in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost and exclusive of cost adjustments associated with Contract amendments.</b></i>		
III.1	VoteCal System Development, Test & Training Environments Certification Report <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverable II.6)</i>	3.1%
III.2	VoteCal System Test Plan <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.3, II.4 and II.7)</i>	3.8%
III.3	Acceptance Test Plan for Certification of EMS Data Integration and Compliance <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.4 and II.8)</i>	1.9%
III.4	VoteCal System Organizational Change Management Plan Updated <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables I.5, II.8 and II.9)</i>	1.2%
III.5	VoteCal System Implementation and Deployment Plan <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.2 and II.8)</i>	3.8%
III.6	VoteCal System Source Code and Documentation <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.3, II.4, II.6, II.7 and III.1)</i>	7.4%
III.7	Phase 0 Ongoing Process Tasks and Deliverables <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable III.8)</i>	
III.8	Final Report for Phase III <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable III.7 plus prior SOS Acceptance of all other Phase III Deliverables)</i> Phase Completion	0.8%
<b>PHASE IV – TESTING</b>		
<i><b>SOS Acceptance of each Deliverable in this Phase is contingent upon prior or concurrent Acceptance by SOS of one or more other Deliverables as indicated below. The total of all Deliverables in this Phase is worth 20.5% of the Total Cost as specified in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost and exclusive of cost adjustments associated with Contract amendments.</b></i>		
IV.1	VoteCal System Pilot County Data Integration Completion and Report <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables III.5 and III.6)</i>	4.3%
IV.2	VoteCal System Acceptance Test Completion, Results and Defect Resolution Report <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables III.3, III.6, and IV.1)</i>	7.7%
IV.3	VoteCal System Documentation and Updated VoteCal System Source Code <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverable IV.4)</i>	4.7%

<b>VOTECAL SYSTEM – SCHEDULE OF DELIVERABLE PAYMENTS</b>		
Deliv #	Deliverable Description	% of Total Cost in Table VII.4, Line A4
IV.4	VoteCal System Pilot and Production Environments Certification Report <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.6, III.1 and IV.2)</i>	3.2%
IV.5	Phase 0 Ongoing Process Tasks and Deliverables <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable IV.6)</i>	0.6%
IV.6	Final Report for Phase IV <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable IV.5 plus prior SOS Acceptance of all other Phase IV Deliverables)</i> Phase Completion	
<b>PHASE V – PILOT DEPLOYMENT AND TESTING</b>		
<p>Contractor's submittal and SOS' review and Acceptance of Deliverables in this Phase shall occur in the order indicated below. <i>SOS Acceptance and/or approval to begin work for each Deliverable in this Phase is contingent upon prior or concurrent Acceptance by SOS of one or more other Deliverables as indicated below.</i> The total of all Deliverables in this Phase is worth 15.1% of the Total Project Deliverables Cost as specified in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost and exclusive of cost adjustments associated with Contract amendments.</p>		
V.1	Develop VoteCal System Training Materials and Complete Training Before the Pilot- <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables III.2, III.4, IV.2 and IV.3)</i>	4.5%
V.2	Conduct Pilot Testing and Provide Pilot Results Report (SOS approval to <i>initiate</i> <del>proceed to conduct</del> pilot testing is dependent on <i>SOS</i> Acceptance of Deliverables <i>III.2, III.5, IV.1, IV.2, IV.4, and V.1)</i>	5.2%
V.3	Updated System, Documentation and Training Materials including VoteCal System Source Code <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables V.1 and V.2)</i>	3.8%
V.4	Revised/Updated System Deployment Plan <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables III.5, V.2 and V.3)</i>	1.1%
V.5	Phase 0 Ongoing Process Tasks and Deliverables <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable V.6)</i>	0.5%
V.6	Final Report for Phase V <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable V.5 plus prior SOS Acceptance of all other Phase V Deliverables)</i> Phase Completion	
<b>PHASE VI – DEPLOYMENT AND CUTOVER</b>		
<p>SOS Acceptance <del>and/or approval to begin work for each of and payment for some</del> Deliverables in this Phase <del>are-is</del> contingent upon prior <i>or concurrent</i> completion and SOS Acceptance of <i>one or more</i> other Deliverables <del>where-as</del> indicated below. The total of all Deliverables in this Phase is worth 15.2% of the Total Project Deliverables Cost as specified in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost and exclusive of any Contract amendments.</p>		

<b>VOTECAL SYSTEM – SCHEDULE OF DELIVERABLE PAYMENTS</b>		
Deliv #	Deliverable Description	% of Total Cost in Table VII.4, Line A4
VI.1	VoteCal System County Elections Staff Training Completed <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables V.3, V.4 and VI.2)</i>	3.8%
VI.2	Updated Training of SOS Staff <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables V.3 and V.4)</i>	1.0%
VI.3	VoteCal System Help Desk Implementation and Support <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables V.3, V.4, and VI.1)</i>	2.3%
VI.4	VoteCal System Remaining County Data Integration Completed and Tested for Compliance and Successful Integration <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables VI.1, VI.2, and VI.3; SOS approval to proceed is required for initiation of deployment to counties)</i>	6.5%

VI.5	VoteCal System Final Deployment Report including Delivery of Updated VoteCal System Source Code and System Documentation <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverable VI.4)</i>	1.1%
VI.6	Phase 0 Ongoing Process Tasks and Deliverables <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable VI.7)</i>	0.5%
VI.7	Final Report for Phase VI <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable VI.6 plus prior SOS Acceptance of all other Phase VI Deliverables)</i>  Phase Completion	

<b>PHASE VII – FIRST YEAR OPERATIONS AND CLOSE-OUT</b>		
<i>SOS Acceptance and/or approval to begin work for each Deliverable in this Phase is contingent upon prior or concurrent Acceptance by SOS of one or more other Deliverables as indicated below. The total of all Deliverables in this Phase is worth 5.1% of the Total Project Deliverables Cost as specified in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost and exclusive of any Contract amendments. This Phase shall begin upon SOS Project Director's approval to proceed, which will be based on confirmation of VoteCal System Acceptance by SOS (as defined in Attachment 1 Section 10(e)).</i>		
VII.1	Provide Monthly Operations Support and Performance Reports <i>(Billable monthly in Phase VII; Project Director approval required to initiate Phase VII as described in Attachment 1 Section 10(e))</i>	2.5%
VII.2	VoteCal System Final Documentation and Current VoteCal System Source Code <i>(Acceptance Criteria shall include concurrent SOS Acceptance of the twelfth (12<sup>th</sup>) Monthly Operations Support and Performance Report)</i>	1.8%
VII.3	Phase 0 Ongoing Process Tasks and Deliverables <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable VII.4)</i>	0.8%
VII.4	Complete Contract Implementation Close-out <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable VII.3 plus prior SOS Acceptance of all other Phase VII Deliverables)</i>	

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### C. COST TABLE INSTRUCTIONS

Bidders are required to complete **all** cost tables for the VoteCal System described in this section. The tables are provided to the Bidders as Microsoft (MS) Word tables (without formulas). Bidders are responsible for the accuracy of all data entered into these cost tables and for any underlying calculations. Any error in calculation found will be corrected by the VoteCal Evaluation Team based on Section II.D.7.c – Errors in the Final Proposal. For purposes of completing cost tables, the following assumptions should be made:

- (1) A contract award will be made at the anticipated Contract Award Date as described in Section I.F - Key Action Dates.
- (2) The term of this contract is for VoteCal implementation plus one (1) year warranty concurrent with one (1) year of VoteCal System Hardware and Software Maintenance and Operations (M&O).
- (3) SOS may execute five (5) one-year options for additional VoteCal System Hardware M&O and one (1) five-year option for additional Software M&O after completion of Phase VII.

### D. COST TABLES AND INSTRUCTIONS

The following are instructions for completing each cost table. Each table must be completed in accordance with its related instructions.

**COST TABLE VII.1 – VoteCal System Hardware**

The Bidder must identify each Hardware item and provide related cost and other required information in Cost Table VII.1 - VoteCal System Hardware according to the instructions below.

**The information the Bidder specifies in this table should be consistent with the information the Bidder included in Exhibit VI.5 - VoteCal System One-Time Hardware Product List. The *H/W and S/W Implementation Period* designated for each Hardware item in Cost Table VII.1 should be supported by the Integrated Project Schedule (IPS) included in the Schedule Management Plan submitted with the Bidder’s proposal (see Requirement P2 – Schedule Management Plan in Section VI – Project Management, Business and Technical Requirements).**

COLUMN HEADING	INFORMATION TO BE ENTERED IN THAT COLUMN
VoteCal System Hardware	Do not enter – already in cost table.
Item #	Do not enter – already in cost table.
Brief Description of Hardware Item	Provide a brief description of the Hardware item
H/W & S/W Implementation Period (“1” or “2”)	<p>Specify either a “1” or a “2” in this column to indicate the Hardware (H/W) and Software (S/W) Implementation Period during which this Hardware will be installed based on the type of project activities the hardware is primarily intended to support:</p> <ul style="list-style-type: none"> <li>• Designate a “1” in this column if the Hardware will be installed during the first H/W and S/W Implementation Period and is primarily (or initially ) intended to support the Project’s Development, Test and Training activities;</li> <li>• Designate a “2” in this column if the Hardware will be installed during the second H/W and S/W Implementation Period and is primarily (or initially) intended to support the VoteCal project’s Pilot or Production activities</li> </ul> <p>If this Hardware will support <i>both</i> Implementation Periods, the Bidder should indicate a “1” in this column (because the Hardware would be implemented during the earlier period).</p> <p>This designation should correspond to applicable Deliverable(s) within the Bidder’s Project Schedule</p>
Fuller description of Hardware, including possibly Manufacturer, Brand Name, Model #, Version/Series	Provide a fuller description of the Hardware item, including information such as manufacturer, brand name, model number, Version/Series as applicable
# of this Item Required	Enter the quantity of the specified Hardware item required for the proposed solution.
Cost of the Item	Enter the cost of this item (single item Cost x Quantity)

**Bidder should add additional Item rows to COST TABLE VII.1 – VoteCal System Hardware table as needed.**

**COST TABLE VII.1 – VOTECAL SYSTEM HARDWARE**

VoteCal System Hardware					Cost
Item #	Brief Description	HW & S/W Implementation Period	Fuller Description (Manufacturer, Brand, Model #, Version/Series)	# of this Item Required	
1					\$
2					\$
3					\$
4					\$
5					\$
6					\$
7					\$
8					\$
9					\$
10					\$
11					\$
12					\$
13					\$
14					\$
15					\$
16					\$
17					\$
18					\$
19					\$
20					\$
<b>TOTAL VOTECAL SYSTEM HARDWARE COSTS</b>				<b>(A1)</b>	<b>(A1)\$</b>

Enter Total (A1) on COST TABLE VII.4 – VoteCal System Costs for Project Deliverables, Hardware, Third-Party & Contractor Commercial Proprietary Software and Unanticipated Tasks.

**COST TABLE VII.2 – VoteCal System Third-Party Software**

The Bidder must identify each Third-Party Software item and provide related cost and other required information in Cost Table VII.2 - VoteCal System Third-Party Software according to the instructions below.

**The information the Bidder specifies in this table should be consistent with the information the Bidder included in Exhibit VI.3 - VoteCal System Third-Party Software Product List. The *H/W and S/W Implementation Period* designated for each Third-Party Software item in Table VII.2 should be supported by the IPS included in the Schedule Management Plan submitted with the Bidder’s proposal** (see Requirement P2 – Schedule Management Plan in Section VI – Project Management, Business and Technical Requirements).

COLUMN HEADING	INFORMATION TO BE ENTERED IN THAT COLUMN
VoteCal System Third-Party Software	Do not enter – already in cost table.
Item #	Do not enter – already in cost table.
Brief Description of Third-Party Software Item	Provide a brief description of the Third-Party Software item
H/W & S/W Implementation Period (“1” or “2”)	<p>Specify either a “1” or a “2” in this column to indicate the H/W and S/W Implementation Period during which this Third-Party Software will be installed based on the type of project activities the Third-Party Software is primarily intended to support:</p> <ul style="list-style-type: none"> <li>• Designate a “1” in this column if the Third-Party Software will be installed during the first H/W and S/W Implementation Period and is primarily (or initially) intended to support the Project’s Development, Test and Training activities;</li> <li>• Designate a “2” in this column if the Third-Party Software will be installed during the second H/W and S/W Implementation Period and is primarily (or initially) intended to support the VoteCal project’s Pilot or Production activities</li> </ul> <p>If the Third-Party Software item will support <i>both</i> Implementation Periods, the Bidder should indicate a “1” in this column (because the Third-Party Software would be implemented during the earlier period). This designation should correspond to applicable Deliverable(s) within the Bidder’s Project Schedule</p>
Fuller description of Third-Party Software, including possibly Manufacturer, Part #, Version #, Release #, Product Name	Provide a fuller description of the Third-Party Software item, including information such as manufacturer, version number, release number, product name as applicable
# of this Item Required	Enter the quantity of the specified Third-Party Software item required for the proposed solution (e.g., # of licenses - # of users supported by each license).
Cost of the Item	Enter the cost of this item (single item Cost x Quantity)

Bidder should add additional Item rows to COST TABLE VII.2 – VoteCal System Third-Party Software table as needed.

**COST TABLE VII.2 – VOTECAL SYSTEM THIRD-PARTY SOFTWARE**

VoteCal System Third-Party Software					Cost
Item #	Brief Description	HW & S/W Implementation Period	Fuller Description (manufacturer, version number, release number, product name)	# of this Item Required	
1					\$
2					\$
3					\$
4					\$
5					\$
6					\$
7					\$
8					\$
9					\$
10					\$
11					\$
12					\$
13					\$
14					\$
15					\$
16					\$
17					\$
18					\$
19					\$
20					\$
<b>TOTAL VOTECAL SYSTEM THIRD-PARTY SOFTWARE COSTS</b>				<b>(A2)</b>	<b>(A2)\$</b>

Enter Total (A2) on COST TABLE VII.4 – VoteCal System Cost for Project Deliverables, Hardware, Third-Party & Contractor Commercial Proprietary Software and Unanticipated Tasks.

**COST TABLE VII.3 – VoteCal System Contractor Commercial Proprietary Software**

The Bidder must identify each Contractor Commercial Proprietary Software item and provide related cost and other required information in Cost Table VII.3 - VoteCal System Contractor Commercial Proprietary Software according to the instructions below.

**The information the Bidder specifies in this table should be consistent with the information the Bidder included in Exhibit VI.4 - VoteCal System Contractor Commercial Proprietary Software Product List.** The *H/W and S/W Implementation Period* designated for each Contractor Commercial Proprietary Software item in Cost Table VII.3 should be supported by the IPS included in the Schedule Management Plan submitted with the Bidder’s proposal (see Requirement P2 – Schedule Management Plan in Section VI – Project Management, Business and Technical Requirements).

COLUMN HEADING	INFORMATION TO BE ENTERED IN THAT COLUMN
VoteCal System Contractor Commercial Proprietary Software	Do not enter – already in cost table.
Item #	Do not enter – already in cost table.
Brief Description of Contractor Commercial Proprietary Software Item	Provide a brief description of the Contractor Commercial Proprietary Software item
H/W & S/W Implementation Period (“1” or “2”)	<p>Specify either a “1” or a “2” in this column to indicate the H/W and S/W Implementation Period during which this Contractor Commercial Proprietary Software will be installed based on the type of project activities the Contractor Commercial Proprietary Software is primarily intended to support:</p> <ul style="list-style-type: none"> <li>• Designate a “1” in this column if the Contractor Commercial Proprietary Software will be installed during the first H/W and S/W Implementation Period and is primarily (or initially) intended to support the Project’s Development, Test and Training activities;</li> <li>• Designate a “2” in this column if the Contractor Commercial Proprietary Software will be installed during the second H/W and S/W Implementation Period and is primarily (or initially) intended to support the VoteCal project’s Pilot or Production activities</li> </ul> <p>If the Contractor Commercial Proprietary Software item will support <i>both</i> Implementation Periods, the Bidder should indicate a “1” in this column (because the Third-Party Software would be implemented during the earlier period).</p> <p>This designation should correspond to applicable Deliverable(s) within the Bidder’s Project Schedule</p>
Fuller description of Contractor Commercial Proprietary Software, including possibly Manufacturer, Part #, Version #, Release #, Product Name	Provide a fuller description of the Contractor Commercial Proprietary Software item, including information such as manufacturer, version number, release number, product name as applicable
# of this Item Required	Enter the quantity of the specified Contractor Commercial Proprietary Software item required for the

COLUMN HEADING	INFORMATION TO BE ENTERED IN THAT COLUMN
	proposed solution (e.g., # of licenses - # of users supported by each license).
Cost of the Item	Enter the cost of this item (single item Cost x Quantity)

**Bidder should add additional Item rows to COST TABLE VII.3 – VoteCal System Contractor Commercial Proprietary Software table as needed.**

**COST TABLE VII.3 – VOTECAL SYSTEM CONTRACTOR COMMERCIAL PROPRIETARY SOFTWARE**

VoteCal System Contractor Commercial Proprietary Software					Cost
Item #	Brief Description	HW & S/W Implementation Period	Fuller Description (manufacturer, version number, release number, product name)	# of this Item Required	
1					\$
2					\$
3					\$
4					\$
5					\$
6					\$
7					\$
8					\$
9					\$
10					\$
11					\$
12					\$
13					\$
14					\$
15					\$
16					\$
17					\$
18					\$
19					\$
20					\$
<b>TOTAL VOTECAL SYSTEM CONTRACTOR COMMERCIAL PROPRIETARY SOFTWARE COSTS</b>				<b>(A3)</b>	<b>(A3)\$</b>

Enter Total (A3) on COST TABLE VII.4 – VoteCal System Cost for Project Deliverables, Hardware, Third-Party & Contractor Commercial Proprietary Software and Unanticipated Tasks.

**COST TABLE VII.4 – VoteCal System Costs for Project Deliverables, Hardware, Third-Party and Contractor Commercial Proprietary Software and Unanticipated Tasks**

COLUMN HEADING	INFORMATION TO BE ENTERED IN THAT COLUMN
VoteCal System Costs for Project Deliverables, Hardware, Third-Party and Contractor Commercial Proprietary Software and Unanticipated Tasks	Do not enter – already in cost table.
Cost	Enter the cost of this item.

**COST TABLE VII.4 – VOTECAL SYSTEM COSTS FOR PROJECT DELIVERABLES, HARDWARE, THIRD-PARTY AND CONTRACTOR COMMERCIAL PROPRIETARY SOFTWARE AND UNANTICIPATED TASKS**

VOTECAL SYSTEM COSTS FOR PROJECT DELIVERABLES, HARDWARE, THIRD-PARTY AND CONTRACTOR COMMERCIAL PROPRIETARY SOFTWARE AND UNANTICIPATED TASKS		COST
VoteCal System Hardware (Cost Table VII.1)	(A1)	\$
VoteCal System Third-Party Software (Cost Table VII.2)	(A2)	\$
VoteCal System Contractor Commercial Proprietary Software (Cost Table VII.3)	(A3)	\$
VoteCal System Project Deliverables*	(A4)	\$
<b>Subtotal</b>	<b>(A5)</b>	<b>\$</b>
Unanticipated Tasks** (A5) x 10%	(A6)	\$
<b>TOTAL VOTECAL SYSTEM COSTS FOR PROJECT DELIVERABLES, HARDWARE, THIRD-PARTY AND CONTRACTOR COMMERCIAL PROPRIETARY SOFTWARE AND UNANTICIPATED TASKS</b>	<b>(A7)</b>	<b>\$</b>

Enter Total (A7) on COST TABLE VII.8 – VoteCal System Evaluated Cost Summary.

\*Total costs for all Deliverables included within Phases 0 through VII must be entered into Cost Table VII.4, Line A4.

\*\*Total costs shall include ten (10) percent of the total of Line A5, for the purpose of Unanticipated Tasks in accordance with Attachment 1 – Statement of Work, Section 7 – Unanticipated Tasks.

**COST TABLE VII.5 – VoteCal System 5-Year Hardware Maintenance and Operations Costs (M&O)**

The SOS has the option to obtain up to five (5) years of additional Hardware M&O in one-year increments. For each potential option year, list the Hardware M&O costs for the VoteCal System. Hardware M&O costs must also include any ongoing Hardware costs for version and firmware upgrades, end of life upgrades, and manufacturer support necessary to fulfill the service levels specified in the Attachment 1 SOW, Exhibit 4 – Hardware, Maintenance and Operations Services and Help Desk Service Levels.

If SOS exercises the option(s) to extend hardware M&O, the contracted fees for such support will be payable monthly in arrears at one-twelfth of the applicable contracted annual rate. The SOS may not exercise its option for the first of the up to five (5) one-year options for additional Hardware M&O until the Contractor has completed all Deliverables under the contract for VoteCal deployment and first year operations and close-out.

COLUMN HEADING	INFORMATION TO BE ENTERED IN THAT COLUMN
Maintenance Year	Do not enter – already in cost table
Total Hardware M&O Costs	Enter the total cost for hardware maintenance and operations.

**COST TABLE VII.5 – VoteCal 5-Year Optional Hardware M&O Costs**

For the costs specified for the second and all subsequent hardware support years in each of the five (5) 1-year optional extensions for M&O, the maximum escalation rate is five percent (5%) per year.

**TABLE VII.5 – VOTECAL 5-YEAR OPTIONAL HARDWARE M&O COSTS**

Maintenance Year	Total Hardware M&O Cost
1	\$
2	\$
3	\$
4	\$
5	\$
<b>Total VoteCal System 5-Year Hardware M&amp;O Cost TOTAL</b>	<b>(B)\$</b>

Enter Total (B) on COST TABLE – VoteCal System Evaluated Cost Summary.

**Cost Table VII.6 – VoteCal System 5-Year Software Maintenance and Operations (M&O) Costs**

The SOS has the option to obtain five (5) years of additional software M&O support for any Contractor Commercial Proprietary Software (see Attachment 1 – Statement of Work, Section 12(a)), any VoteCal System Software (see Attachment 1 - Statement of Work, Provision 12(b)) and any Third Party Software (see Attachment 1 – Statement of Work, Provision 12(c)) included in the VoteCal Solution developed or configured for SOS.

Software support costs should reflect the support levels required to meet VoteCal service level objectives specified in Attachment 1 SOW, Exhibit 5 - Software Maintenance and Operations Services and Help Desk Service Levels for the VoteCal System.

If SOS exercises the option to extend Software M&O, the contracted fees for such support will be payable monthly in arrears at one-twelfth the applicable contracted annual rate. The SOS may not enter into the additional five (5) years of Software M&O until the Contractor has completed all Deliverables under the contract for VoteCal deployment and first year operations and close-out.

COLUMN HEADING	INFORMATION TO BE ENTERED IN THAT COLUMN
Software M&O Year #	Do not enter – already in cost table.
Annual Support Cost*	Enter the annual cost of this item.
Total 5-Year Software M&O Costs for VoteCal System Software	Total all the line items in the cost column and enter total.

**COST TABLE VII.6 – VOTECAL 5-YEAR SOFTWARE M&O COSTS**

For the costs specified for the second and all subsequent software support years in the 5-year optional extension for M&O, the maximum escalation rate is five percent (5%) per year.

Software Support Year	Annual Software M&O Cost for VoteCal System
1	\$
2	\$
3	\$
4	\$
5	\$
<b>Total 5-Year Software M&amp;O Costs for VoteCal System</b>	<b>(C)\$</b>

Enter Total (C) on COST TABLE VII.8 – VoteCal System Evaluated Cost Summary

**Information Table VII.7 – VoteCal System On-Going Software Licensing Costs  
(information only)**

This table must contain the Bidder’s estimate of on-going licensing costs for all Software components proposed in the Project for the VoteCal System other than for each of the five (5) years following the Project’s closure.

SOS will purchase any necessary Contractor Commercial Proprietary Software and Third Party Software license renewals required for ongoing software maintenance and support after the end of Phase VII – First Year Operations and Close-out. Therefore, the costs for such license renewals should not be included in the Bidder’s costs for providing ongoing software maintenance and support during the 5-year extension of such services (if the State elects to exercise for this optional extension).

If the 5-year extension is exercised, the Contractor will be responsible for Software operational support of the VoteCal System environment, including Contractor Commercial Proprietary Software, Third Party Software and VoteCal System Software (which is not licensed but is instead owned by the State).

COLUMN HEADING	INFORMATION TO BE ENTERED IN THAT COLUMN
Item #	Do not enter – already in cost table.
Product Name	Enter the product name for each Contractor Commercial Proprietary Software or Third Party Software product.
# of licenses	Enter the total number of licenses to be maintained for the item.
Cost by Maintenance Year	Enter the ongoing fee estimate. Assume escalation will not exceed 5% per year.
Total On-Going Fees by Line Item	Multiply the # of licenses for this Item by the Total # of Months Required per year and multiply this product by the On-Going Software Cost Per Month Per Item and enter the sum in this column.
Total VoteCal System On-Going Contractor Commercial Proprietary Software and Third Party Software Licensing Cost	Add up the Total On-Going Fees column and enter the sum.

**COST TABLE VII.7 – VOTECAL SYSTEM ON-GOING CONTRACTOR COMMERCIAL PROPRIETARY SOFTWARE AND THIRD-PARTY SOFTWARE LICENSING COSTS (information only)**

Use additional pages if necessary.

The maximum escalation rate is five percent (5%) per year.

			Cost by Maintenance Year					
Item #	Product Name	# of licenses	1	2	3	4	5	On-Going Fees by Line Item
1			\$	\$	\$	\$	\$	\$
2			\$	\$	\$	\$	\$	\$
3			\$	\$	\$	\$	\$	\$
4			\$	\$	\$	\$	\$	\$
5			\$	\$	\$	\$	\$	\$
6			\$	\$	\$	\$	\$	\$
7			\$	\$	\$	\$	\$	\$
8			\$	\$	\$	\$	\$	\$
9			\$	\$	\$	\$	\$	\$
10			\$	\$	\$	\$	\$	\$
11			\$	\$	\$	\$	\$	\$
12			\$	\$	\$	\$	\$	\$
13			\$	\$	\$	\$	\$	\$
Total VoteCal System On-Going Contractor Commercial Proprietary Software and Third Party Software Licensing Costs								\$

All products with zero costs are considered perpetual licenses.

**Cost Table VII.8 – VoteCal System Evaluated Cost Summary**

Enter the Total Cost (bottom line totals) from each of the previous Cost Tables.

COLUMN HEADING	INFORMATION TO BE ENTERED
Cost Table #	Do not enter – already in cost table
Total cost from each cost table	Enter the Total from the listed table
Total VoteCal System Project Cost	Enter the sum of all items in the Total Column

**COST TABLE VII.8 – VOTECAL SYSTEM EVALUATED COST SUMMARY**

Cost Table	Total Cost from Each Cost Table
Cost Table VII.1 –Total VoteCal System Costs for Project Deliverables, Hardware, Third-Party and Contractor Commercial Proprietary Software and Unanticipated Tasks Cost (A7)	(A7)\$
Cost Table VII.2 – Total VoteCal System 5-Year Hardware M&O Costs (B)	(B)\$
Cost Table VII.3 – Total VoteCal System 5-Year Software M&O Costs (C)	(C)\$
<b>Total VoteCal System Evaluated Cost Summary</b>	<b>(D)\$</b>

**Cost Table VII.9 – Bidder Staff Hourly Rates**

The Bidder must propose staff hourly rates by Bidder staff classification for staff classifications proposed for the VoteCal Project, which are effective for the life of the contract and will be used when preparing estimates and calculating costs for Unanticipated Tasks as indicated in the Attachment 1, Statement of Work. (NOTE: The State fiscal year runs from July 1 through June 30 of the following year.)

COLUMN HEADING	INFORMATION TO BE ENTERED IN THAT COLUMN
Item #	Do not enter – already in cost table
Bidder Staff Classification	Enter the Bidder staff classification (e.g., Senior Programmer, Network Specialist, Trainer, etc.).
Hourly Rate for FY 2012-2013	Enter the Bidder staff classification hourly rate for this Fiscal Year.*
Hourly Rate for FY 2013-2014	Enter the Bidder staff classification hourly rate for this Fiscal Year.*
Hourly Rate for FY 2014-2015	Enter the Bidder staff classification hourly rate for this Fiscal Year.*
Hourly Rate for FY 2015-2016	Enter the Bidder staff classification hourly rate for this Fiscal Year.*
Hourly Rate for FY 2016-2017	Enter the Bidder staff classification hourly rate for this Fiscal Year.*
Hourly Rate for FY 2017-2018	Enter the Bidder staff classification hourly rate for this Fiscal Year.*
Hourly Rate for FY 2018-2019	Enter the Bidder staff classification hourly rate for this Fiscal Year.*

The maximum escalation rate is five percent (5%) per year.

**COST TABLE VII.9 - CONTRACTOR STAFF HOURLY RATES**

(For informational purposes only—not included for evaluation purposes.)

Item #	Contractor Staff Classification	Hourly Rate for FY 2012-2013	Hourly Rate for FY2013-2014	Hourly Rate for FY 2014-2015	Hourly Rate for FY2015-2016	Hourly Rate for FY 2016-2017	Hourly Rate for FY 2017-2018	Hourly Rate for FY 2018-2019
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								

The maximum escalation rate is five percent (5%) per year.

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## SECTION IX – EVALUATION AND SELECTION

### A. INTRODUCTION

The procurement process is a multi-step process to determine the most responsible and responsive Proposal that offers “best value” business solution to the California Office of the Secretary of State (SOS). A “best value” evaluation does not emphasize least cost at the exclusion of other factors. It is a balanced assessment consisting of cost and perceived risk matched to the business needs.

This section discusses the process the SOS will follow in evaluating Proposals submitted by Bidders in response to the Request for Proposal (RFP) and the criteria to be used in evaluating Proposals. For purposes of this Section, when the term “Proposal” is used without further specification (e.g., without stating “Draft Proposal”) it is intended to refer to any of the three Bidder Proposal submissions (i.e., Pre-qualification Package, Draft Proposal, and Final Proposal). The selection process includes a pre-qualification phase, which includes submission and SOS evaluation of Bidder Pre-qualification Packages. This RFP section provides information about some elements of the evaluation and selection of Pre-qualification Packages. Additional information about the pre-qualification phase is provided in Section V.B – Bidder Pre-qualification. The selection process also includes review of the Draft Proposals, with confidential discussions where SOS provides feedback to each Bidder, followed by a scored evaluation of Final Proposals.

Bidders are required to thoroughly review all RFP requirements to ensure that the Proposal and the proposed approaches and plans are fully compliant with RFP requirements and thereby avoid the possibility of being ruled non-responsive. If the Evaluation Team finds that a Final Proposal has a material deviation from specified requirements, the Proposal may be considered non-responsive and may not be considered for award.

If the Evaluation Team determines that an acceptable, responsive and responsible Proposal has been submitted, contract award will be made to the Bidder that is considered to provide the best value business solution, which balances business functionality, service delivery and risks, and ultimately reduces SOS’s costs to provide the VoteCal functions.

### B. VOTECAL EVALUATION TEAM

This procurement is being conducted under the guidance of a Department Official from the Department of General Services (DGS). (Refer to RFP Section I.D – Department Official.)

SOS has established an Evaluation Team of voter registration and information technology staff along with the Project Manager. The Department Official will serve as a contact point with the Bidder for questions and clarification, and identifies the rules governing the procurement. SOS may engage additional qualified individuals or subject matter experts during the evaluation process to assist the team in gaining a better understanding of technical, financial, legal, contractual, or program issues. These other individuals do not have voting privileges or responsibility for the evaluation process, but they will serve in an advisory capacity.

### C. REVIEW OF DRAFT PROPOSALS

Once SOS has selected pre-qualified Bidders (see Section II – Rules Governing Competition and Section V.B – Bidder Pre-Qualification), the SOS requires Bidders to submit Draft Proposals that will be used as the basis for the second set of Confidential Discussions. Draft Proposals must describe the Bidder’s proposed solution, **without costs**. Draft Proposals will be deemed non-responsive if submitted with costs.

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## D. EVALUATION AND SCORING OF PROPOSALS

Each Pre-Qualification, Draft Proposal and Final Proposal received by the corresponding date and time specified in the RFP Section I.F - Key Action Dates will be date and time marked as it is received by the SOS Department Official listed in RFP Section I.D – Department Official and verified that all responses are submitted under an appropriate cover, sealed and properly identified. Proposal Cost Volumes (Volume III) in the Final Proposal will remain sealed until the designated time for opening (after scoring has been finalized for all other Proposal evaluation areas).

The purpose of this Section of the RFP is to outline how the points will be awarded and how a winning Final Proposal will be selected in an impartial manner that preserves the integrity of the competitive procurement process. During Proposal Evaluation, failure to respond to a mandatory requirement is considered to be non-responsive and may be considered a material deviation. A material deviation is considered a fatal error and may result in Bidder disqualification.

An overview of the evaluation and selection process is described in the six (6) steps that follow immediately below. The first three (3) of these steps describe the evaluation of Pre-qualification Packages as well as Draft and Final Proposals. Later steps pertain to the evaluation of the Draft Proposals and to the evaluation and selection of Final Proposals only.

### 1. **Preliminary Review and Validation (Pass/Fail)**

All Proposals received by the time and date specified in Section I.F - Key Action Dates, will be acknowledged as having been received at that time. For Final Proposals, Volume III - Cost Data shall remain sealed and in the possession of the SOS Department Official listed in RFP Section I.D – Department Official until the evaluations of Volume I have been completed for all Bidders. The Final Proposals will be checked by the Department Official for the presence of proper identification and the presence of required information, in conformance with the bid submittal requirements of this RFP, Section VIII – Proposal Format. Absence of required information may deem the Proposal non-responsive and may be cause for rejection.

### 2. **Administrative Requirements Review (Pass/Fail)**

With the exception of the two designated as desirable, all Administrative Requirements in RFP Section V – Administrative Requirements are mandatory. Review of the detailed Proposals will begin with ensuring that the Bidder has responded to all Administrative Requirements (in RFP Section V – Administrative Requirements) that are indicated as mandatory for the appropriate Proposal (Pre-Qualification, Draft Proposal, or Final Proposal).

All Proposals passing the Administrative Requirements Review will proceed to the Bid Evaluation and Scoring described in Section IX.E – Response Evaluation Process and Determination of Score, below. All Proposals that fail to submit responses to the mandatory Administrative Requirements will be rejected. (NOTE: At this step, the evaluation of the response is to determine that the Bidder has provided the information (e.g., references). The qualitative evaluation will occur when requirements are evaluated against the scoring criteria summarized in Section IX.D.3 below and described in detail in Section IX.E – Response Evaluation Process and Determination of Score.

### 3. **Response Evaluation Categories and Scoring (Maximum Score = 14,000)**

The VoteCal Evaluation Team will review and evaluate the Bidder's response to requirements described in Section V – Administrative Requirements and Section VI – Project Management, Business and Technical Requirements. The evaluation of Draft and Final Proposals will address all requirements listed below; evaluation of Pre-Qualification submissions will address a subset of these requirements as described and listed in Section V.B – Bidder Pre-Qualification.

All Project Management, Business and Technical Requirements are mandatory, and are described in Section VI. Bidder and Staff Qualifications include mandatory and desirable requirements, and are described in Section V – Administrative Requirements. For each category, points will be awarded based on the Bidder's response or references. The points awarded for a category will be

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translated into the Bidder's score for that category based on the percentage of the points actually awarded compared to the total points possible for that category. The maximum score possible for the evaluation of the Proposal response to the various requirements is 14,000 for Draft Proposals and Final Proposals. Table IX.1 summarizes the breakdown of maximum score for each category to be evaluated. Note that Pre-Qualification packages will contain only a subset of the categories listed below in Section V.B – Bidder Pre-Qualification (Mandatory).

**Table IX.1 Bid Evaluation Categories & Scoring**

<b>Evaluation Category</b>	<b>Maximum Score</b>	<b>Requirement Number(s)</b>	<b>RFP Section Reference(s)</b>
<b>Project Management Activities and Plans</b>	3100	P1-P7	VI.B.1
<b>Training</b>	300	P8	VI.B.2
<b>Testing plan</b>	800	P9	VI. B.3
<b>Data Integration Plan</b>	1000	P10	VI.B.4
<b>VoteCal Architecture</b>	3000	P11	VI.B.5
<b>VoteCal System Business Requirements</b>	Pass/Fail	S1.1 – S25.4	VI.D, Table VI.1
<b>VoteCal Technical Requirements</b>	Pass/Fail	T1.1 – T10.79	VI.E, Table VI.2
<b>Bidder Firm Qualifications &amp; References</b>			
• Bidder Qualifications and References (Mandatory)	2300	A9	V.B.3.B and V.C.3.K, Exhibit V.5.a
• Bidder Qualifications and References (Desirable)	700	A10	V.B.3.C and V.C.3.L Exhibit V.5.b
<b>Proposed Staff Qualifications</b>			
Mandatory Staff Qualifications	Pass/Fail	A11	V.B.3.D and V.C.3.M, Exhibits V.6, V.7
Desirable Staff Qualifications	800	A12	V.B.3.E and V.C.3.N, Exhibits V.6, V.7
<b>Key Project Staff References</b>	1000	A11 and A12	V.B.3.D-E and V.C.3.M-N, Exhibits V.6, V.7 and IX.E.10
<b>Project Organization</b>	1000	A20	V.C.3.O
<b>TOTAL POSSIBLE SCORE:</b>	<b>14,000</b>		

**4. Minimum Score Threshold to Proceed to Cost Opening**

All Final Proposal Submissions with a combined **non-cost** score for ~~Project Management, Business and Technical Requirements~~ of 9,800 or higher (70% of the Maximum Total Score) for these evaluation sections) will proceed to the cost opening. Bidders that do not meet this minimum level score will be eliminated from further consideration due to their solution being of insufficient quality, completeness, clarity, or thoroughness, as reflected in the scores.

**5. Cost Opening and Cost Assessment (Maximum Score = 6,000)**

The opening of Proposal costs will be conducted in public for all Proposals that meet or exceed the threshold score for Requirements responses. After opening, all bids will be validated to verify that they are complete and free of math errors. If appropriate, errors will be corrected in accordance with Section II.D.87.d – Errors in the Final Proposal.

**6. Determination of Winning Proposal**

The total score (Requirements and Costs) will be calculated for each Proposal. As appropriate, all necessary adjustments for Small Business Preferences and Disabled Veteran Business Enterprise (DVBE) incentive points will be calculated and applied to determine the Final Score for each Proposal.

**E. Response Evaluation Process and Determination of Score**

Section IX.E – Response Evaluation Process and Determination of Score explains the evaluation approach and scoring methodology for each requirement of this RFP. For each requirement (or set of requirements), the evaluation process and the scoring is explained. In cases where the scoring is complex (e.g., because the maximum total raw “points” that a Bidder may earn does not map directly to the maximum score), an example is provided to illustrate. When a score is calculated by applying a percentage or other weight against “raw” points, the resulting score will be rounded to two decimal places (e.g., a result of 86.666667 would be rounded to 86.67).

**1. Project Management Activities and Plans – P1 through P7 (Maximum Score 3100)**

a. INTRODUCTION

RFP Section VI.B.1 - Project Management Activities and Plans describe requirements P1 through P7. Bidders must provide narrative responses to all requirements P1 through P7, as described in Section VI.B.1.

Scoring of the Project Management Activities and Plans requirements will be based on the Evaluation Team’s assessment of Bidder’s response relative to the Requirement and Evaluation Factors. The Bidder’s project plans, implementation methodologies, and schedule will be evaluated to determine points awarded for responses to requirements P1 through P7.

Requirements in this section are all governed by the State Information Management Manual (SIMM). The project is using Project Management Body of Knowledge (PMBOK) methodology to address risk and issue management.

Table IX.2 below summarizes the maximum score for each of the seven requirements in this area:

**Table IX.2 Project Management Activities and Plans:  
Maximum Score per Requirement**

Requirement	Maximum Score
P1: Project Management Plan	400
P2: Schedule Management and Project Schedule	500
P3: Quality Management Plan	300
P4: Software Version Control, System Configuration Management, and Document Management	500
P5: Requirements Traceability Matrix	400
P6: Implementation and Deployment Plan	600
P7: Organizational Change Management Plan	400
<b>Total: Project Management Activities and Plans</b>	<b>3100</b>

b. EVALUATION PROCESS

For each requirement, the Evaluation Team will award points using the criteria detailed in Table IX.3 below.

**Table IX.3 Criteria for Award of Points for Project Management Activities and Plans (P1 through P7)**

Percent of Points	Criteria
100%	Response meets or exceeds all elements of the requirement and clearly demonstrates a thorough understanding of project management to the extent that a timely and high quality project management performance is anticipated. Bidder's on-site time, plans, and timeline are based on industry standards as well as relevant State standards and level of Bidder's resource commitment is high.
75%	Response meets at least seventy-five percent (75%) of the elements of the requirement and demonstrates project management processes that conform to industry standards, but with weaknesses that are considered minimal and can be mitigated. For example, Bidder's on-site time, plans, timeline, and level of resource commitment are adequate but may require additional State resources.
50%	Response meets at least fifty percent (50%) of the elements of the requirement for project management with weaknesses that are considered moderate and resolvable but will require more involvement by SOS to mitigate potential risks. For example, Bidder's on-site time, plans, and timeline may be inadequate and will require additional SOS resources to reduce risk.
10%	Response meets at least ten percent (10%) of the elements of the requirement for industry-standard project management practices with identified weaknesses that will require significant resources from SOS to mitigate and ensure project success. For example, Bidder's plan does not demonstrate a strong knowledge of managing a complex project such as VoteCal and indicates high risk.
0%	Response meets less than ten percent (10%) of the elements of the requirement and does not demonstrate thorough knowledge of managing projects of this size, scope, and complexity.

Table IX.4, below, identifies the factors to be considered per requirement, and the maximum points possible for that requirement. Note each bullet is equally weighted within that requirement.

**Table IX.4 Project Management Activities and Plans (P1 through P7) – Evaluation Factors and Maximum Points per Requirement**

Reqmt. #	Requirement and Evaluation Factors	Max Points Possible
P1	<p><b>Project Management Plan (PMP)</b></p> <ul style="list-style-type: none"> <li>• Does the Project Management Plan (PMP) incorporate activities for SOS team as well as Bidder staff resources in each of its component plans?</li> <li>• Does the PMP indicate conformity to relevant industry and State project management and software development standards (e.g., PMBOK, IEEE)?</li> <li>• Does the Bidder describe their approach to developing Deliverable Expectation Documents (DED) and managing the development of deliverables in compliance to the DED approach?</li> <li>• Does it define the technical and managerial project functions, and tasks necessary to satisfy the project requirements?</li> <li>• Does the PMP reflect good project management practices conveying a thorough understanding of the complexity in managing a project of this size and importance?</li> <li>• Does the PMP identify major deliverable milestones (e.g., work products and project deliverables and SOS approval points for signoffs)?</li> <li>• Does the PMP define the process for developing, managing and tracking phase entrance and exit criteria, system acceptance criteria, etc?</li> <li>• Do the descriptions of project management processes include recommended integration points with SOS VoteCal processes as described in the SOS VoteCal Project Management Plan and relevant subsidiary plans?</li> <li>• Does the PMP include overviews of the Bidder’s approach to risk management, issue management, and scope management/change control that illustrate how the Bidder will integrate its internal processes for these areas with SOS established processes?</li> <li>• Does the PMP include examples of significant anticipated VoteCal risks and mitigation strategies that demonstrate understanding of the VoteCal project?</li> </ul>	400
P2	<p><b>Schedule Management and Project Schedule</b></p> <ul style="list-style-type: none"> <li>• Is the schedule proposed by the Bidder consistent with tasks in the SOW with tasks broken down into manageable segments?</li> <li>• Does the proposed schedule reflect methodologies and timeframes consistent with those cited in Bidders’ proposed plans that are submitted in response to this RFP?</li> <li>• Does the described approach to schedule management conform to industry standards (PMBOK) and relevant State standards (SIMM 17) concerning management of milestone progress and reporting, resource assignment, critical path monitoring, identification and escalation of schedule issues, status reporting, and contingency activities?</li> <li>• Does the proposed approach to schedule management include an approach for integration with the master VoteCal schedule?</li> </ul>	500

Reqmt. #	Requirement and Evaluation Factors	Max Points Possible
	<ul style="list-style-type: none"> <li>• Is the proposed schedule management approach realistic given the complexity and scope of VoteCal?</li> <li>• Does the described approach to schedule management demonstrate familiarity with conducting schedule management activities that entail task-related interdependencies among multiple groups, stakeholders and resource types (e.g., State and Contractor staff)?</li> <li>• Does the described approach to schedule management ensure schedule accuracy, including schedule reviews, quality assurance and report generation processes?</li> <li>• Does the draft schedule (Gantt Chart) for the Bidder's activities demonstrate how Bidder tasks will be integrated with SOS and other VoteCal Contractor (e.g., election management system vendors, independent verification and validation vendor, security auditor, quality assurance, etc.) tasks?</li> <li>• Does the draft schedule (Gantt Chart) for the Bidder's activities demonstrate adequate decomposition of the Bidder's tasks?</li> </ul>	
P3	<p><b>Quality Management Plan</b></p> <ul style="list-style-type: none"> <li>• Does the Bidder's Quality Management Plan meet the standards required by IEEE 730-2002, or did the Bidder demonstrate previous engagements where this methodology produced successful Quality Management Planning?</li> <li>• Does the Bidder's Quality Management Plan identify quality policies and procedures throughout all project phases?</li> <li>• Does the Bidder's Quality Management Plan describe activities to be conducted in providing a quality assurance review of all work products?</li> <li>• Does the Bidder's Quality Management Plan describe activities to be conducted in controlling quality of all work products?</li> <li>• Does the Bidder's Quality Management Plan describe roles and responsibilities for quality activities throughout the life cycle of the project?</li> <li>• Does the Bidder's Quality Management Plan include a description of the quality improvement process(es) throughout the project?</li> <li>• Does the Bidder's Quality Management Plan include a description of how quality will be monitored and measured by the Bidder and verified by the SOS team, including the SOS' Quality Assurance Manager?</li> <li>• Does the Bidder's Quality Management Plan include a summary of proposed criteria for system acceptance and deliverable acceptance?</li> <li>• Does the Bidder's Quality Management Plan describe integration with SOS quality management processes described in the SOS VoteCal Quality Management Plan?</li> </ul>	300
P4	<p><b>Software Version Control, System Configuration Management and Document Management</b></p> <ul style="list-style-type: none"> <li>• Does the Software Version Control, System Configuration Management and Document Management approach meet the standards required by IEEE 828-2005 or did the Bidder demonstrate previous engagements</li> </ul>	500

Reqmt. #	Requirement and Evaluation Factors	Max Points Possible
	<p>where this methodology produced successful Configuration Management?</p> <ul style="list-style-type: none"> <li>• Does the Bidder’s proposed Software Version Control, System Configuration Management and Document Management approach describe methods that will be used during this project to manage software version control and system configuration management?</li> <li>• Does the Bidder’s proposed Software Version Control, System Configuration Management and Document Management approach describe the tools that will be used to manage version control and configuration management?</li> <li>• Does the Bidder’s proposed Software Version Control, System Configuration Management and Document Management approach document how new modifications or modules will be tracked?</li> <li>• Does the Bidder’s proposed Software Version Control, System Configuration Management and Document Management approach include a discussion of how new modifications and/or modules will be integrated and implemented?</li> <li>• Does the Bidder’s proposed Software Version Control, System Configuration Management and Document Management approach describe the process for updating documentation to ensure that system documentation keeps pace with the versioning of the products?</li> <li>• Does the Bidder’s proposed Software Version Control, System Configuration Management and Document Management approach describe deliverable versioning methods and tools?</li> <li>• Does the Bidder’s proposed Software Version Control, System Configuration Management and Document Management approach address how configuration management will be exercised during periods of frequent changes?</li> <li>• Does the Bidder’s proposed Software Version Control, System Configuration Management and Document Management approach discuss controls for migrating approved changes across development, test, and production environments?</li> </ul>	
P5	<p><b>Requirements Traceability Matrix</b></p> <ul style="list-style-type: none"> <li>• Does the Bidder describe the content and development of a Requirements Traceability Matrix?</li> <li>• Did the Bidder describe how the Requirements Traceability Matrix will be used/updated to track requirements during the various phases of the project?</li> <li>• Does the Bidder provide a feasible and rigorous method for linking test scenarios to requirements during the Testing Phase?</li> <li>• Does the Bidder provide a feasible and rigorous method that ensures both forward and backward traceability analysis throughout the project lifecycle?</li> <li>• Does the Bidder describe the process and timing of sharing the matrix with SOS including the independent verification and validation vendor?</li> <li>• Does the Requirements Traceability Matrix meet the standards required by IEEE 1233-1998 and 830-1998, or CMMI V 1.2, or did the Bidder</li> </ul>	400

Reqmt. #	Requirement and Evaluation Factors	Max Points Possible
	demonstrate previous engagements where this methodology produced successful Requirements Traceability?	
P6	<p><b>Implementation and Deployment Plan</b></p> <ul style="list-style-type: none"> <li>• Does the Implementation and Deployment Plan follow best business practices and industry-accepted standards and State standards for implementation of a large complex system similar to VoteCal?</li> <li>• Does the Implementation and Deployment Plan link to the PMP?</li> <li>• Does the Implementation and Deployment Plan address an implementation strategy of pilot testing, phase cutover, or other?</li> <li>• Is the deployment approach and schedule realistic and achievable in light of the VoteCal project organization, stakeholder populations, and project external calendars?</li> <li>• Does the Implementation and Deployment Plan allow for contingencies?</li> <li>• Does the Implementation and Deployment Plan address implementation issues during the Testing Phase and how they will be handled?</li> <li>• Does the Implementation and Deployment Plan include activities that ensure that integrity and completeness of the existing CalVoter system and its data are maintained through the end of Phase VI – Deployment and Cutover?</li> </ul>	600
P7	<p><b>Organizational Change Management Plan</b></p> <ul style="list-style-type: none"> <li>• Does the draft Organizational Change Management Plan include how the new methods of business will be implemented for SOS staff and county users?</li> <li>• Does the communication strategy reflect knowledge of the types of issues commonly rising in a project of this scale and complexity and propose how to overcome the obstacles?</li> <li>• Does the Organizational Change Management Plan discuss how commonly occurring issues should be mitigated?</li> <li>• Does the Organizational Change Management Plan reflect understanding of key issues in the elections and voter registration environment?</li> <li>• Are the strategies for securing support and buy-in from the county users realistic and appropriate?</li> <li>• Does the Organizational Change Management Plan conform to ISO 9001:2008, or did the Bidder describe previous engagements where their methodology was successful?</li> </ul>	400
	<b>TOTAL POINTS POSSIBLE</b>	<b>3100</b>

- c. **CALCULATION OF THE SCORE FOR PROJECT MANAGEMENT ACTIVITIES AND PLANS**  
The score for each of the Project Management Activities and Plans will be calculated and awarded based on the following procedures:
- 1) The Bidder's response to each requirement will be separately evaluated and will be awarded a percentage of the possible points for that requirement based on the evaluation criteria in Table IX.1 above.
  - 2) The points awarded for each requirement in this category will be added together to calculate the total points awarded.

Table IX.5 below shows an example of calculation of a Bidder's score for Project Management Activities and Plans.

**Table IX.5 – Example  
Calculation of Bidder Score for Project Management Activities and Plans  
(P1 – P7)**

Reqmt. #	Requirement and Evaluation Factors	Max Points Possible	% Earned in Eval	Points Awarded
P1	Project Management Plan (PMP)	400	75%	300
P2	Schedule Management Plan	500	100%	500
P3	Quality Assurance Plan	300	75%	225
P4	Software Version Control, System Configuration Management and Document Management	500	50%	250
P5	Requirements Traceability Matrix	400	75%	300
P6	Implementation and Deployment Plan	600	10%	60
P7	Organizational Change Management Plan	400	50%	200
<b>TOTAL POINTS</b>		<b>3100</b>		<b>1835</b>

**2. Training – P8 (Maximum Score 300)**

a. INTRODUCTION

Section VI.B.2 – Training of the RFP identifies Requirement P8 – Training.

This Training requirement is mandatory and Bidders must provide a narrative response to the requirement, as described in Section VI.B.2 - Training.

The Evaluation Team will evaluate the Bidder's response to the Training requirement and determine a Score for this category based on the Evaluation Team's assessment of the Bidder's response relative to the Requirement and Evaluation Factors.

b. EVALUATION PROCESS

For the response to the Training requirement (P8), the Evaluation Team will award points using the criteria detailed in Table IX.6 below.

**Table IX.6 Criteria for Award of Points for Training Requirement (P8)**

Percent of Points	Criteria
100%	Response meets or exceeds all elements of the requirement and clearly demonstrates a thorough understanding of training to the extent that a timely and high quality training performance is anticipated. Bidder's on-site time, plans, and timeline are sufficient to meet the requirements and level of Bidder's resource commitments is high.
75%	Response meets at least seventy-five percent (75%) of the elements of the requirement and demonstrates good training processes but with weaknesses that are considered minimal and can be mitigated. For example, Bidder's on-site time, plans, and timeline are sufficient to meet the requirements and level of resource commitment are adequate but may require additional State resources.
50%	Response meets at least fifty percent (50%) of the elements of the requirement for training with weaknesses that are considered moderate and resolvable but will require more involvement by SOS to mitigate potential risks. For example, Bidder's on-site time, plans, and timeline may be inadequate and will require additional SOS resources to reduce the risk potential.
10%	Response meets at least ten percent (10%) of the elements of the requirement for training practices with identified weaknesses that will require significant resources from SOS to mitigate and ensure project success. For example, Bidder's plan does not demonstrate a strong knowledge of training for a complex project such as VoteCal and indicates high risk.
0%	Response meets less than ten percent (10%) of the elements of the requirement and does not demonstrate thorough knowledge of training for a project of this size, scope, and complexity.

Table IX.7 below identifies each requirement to which these criteria will be applied, the factors to be considered in that evaluation and the maximum points possible for that requirement. Note each bullet is equally weighted within that requirement.

**Table IX.7 Training Plan (P8) – Evaluation Factors and Maximum Points**

Reqmt. #	Requirement and Evaluation Factors	Max Points Possible
P8	<p><b>Training Plan</b></p> <ul style="list-style-type: none"> <li>• Is the draft Training Plan comprehensive, feasible, and reflect the knowledge required to train users on a system this critical and complex?</li> <li>• Did the Bidder propose on-site training for the SOS staff?</li> <li>• Does the Bidder discuss technical knowledge transfer as well as application knowledge transfer and specify the technical IT skill sets required to support the proposed solution?</li> <li>• Is the training proposed for IT technical support staff appropriate, and sufficient for the proposed technical platform and tool suite?</li> <li>• Is the proposed training plan for program and help desk staff appropriate, and sufficient to ensure a successful operation at the time the pilot is initiated?</li> <li>• Is the proposed training schedule and resource allocation appropriate and sufficient for the population to be trained?</li> <li>• Does the Proposal specify system requirements for the training room (e.g. number of workstations, minimum configuration of workstations, connectivity requirements, and etc.)?</li> <li>• Does the Bidder discuss providing the Training Environment separate from Test and Production and provide system specifications (and provide the training specifications of how to refresh the database)?</li> <li>• Does the Bidder agree to provide training aids, manuals, quick reference guides, and other training materials?</li> <li>• Does the training plan sufficiently and appropriately address the training required for county users? Is the proposed training schedule and resource allocation appropriate and sufficient?</li> <li>• Does the Bidder agree that the training shall reflect the solution as implemented, shall be provided for each trainee, and shall be delivered in electronic format?</li> <li>• Does the Bidder agree that training materials shall become the property of SOS upon completion of the training and may be modified or supplemented as needed, and agree to allow SOS to duplicate all materials and manuals?</li> </ul>	300

c. CALCULATION OF THE SCORE FOR TRAINING PLAN

The Bidder's Training Plan submitted in response to Requirement P8 will be awarded a percentage of possible points for that requirement based on the criteria in Table IX.6 above. For example, a Training Plan that earns seventy-five percent (75%) based on the evaluation criteria will earn a score of 225 (300 maximum possible points x 75%).

**3. Test Plan – P9 (Maximum Score 800)**

a. INTRODUCTION

Section VI.B.3 – Testing of the RFP identifies Requirement P9 – Test Plan.

This Test Plan requirement is mandatory and Bidders must provide a narrative response to the requirement, as described in Section VI.B.3.

b. EVALUATION PROCESS

For the response to the Test Plan requirement (P9), the Evaluation Team will award points using the criteria detailed in Table IX.8 below.

**Table IX.8 Criteria for Award of Points for Test Plan Requirement (P9)**

Percent of Points	Criteria
100%	Response meets or exceeds all elements of the requirement and clearly demonstrates a thorough understanding of the test plan requirements to the extent that a timely and high quality tests are executed. Bidder's on-site time, plans, and timeline are sufficient to meet requirements and level of Bidder's resource commitments is high.
75%	Response meets at least seventy-five (75%) of the elements of the requirement and demonstrates good test plan processes but with weaknesses that are considered minimal and can be mitigated. For example, Bidder's on-site time, plans, and timeline are sufficient to meet requirements and level of resource commitment are adequate but may require additional State resources.
50%	Response meets at least fifty percent (50%) of the elements of the test plan requirements with weaknesses that are considered moderate and resolvable but will require more involvement by SOS to mitigate potential risks. For example, Bidder's on-site time, plans, and timeline may be inadequate and will require additional SOS resources to reduce the risk potential.
10%	Response meets at least ten percent (10%) of the elements of the requirement for industry-standard test management practices with identified weaknesses that will require significant resources from SOS to mitigate and ensure project success. For example, Bidder's plan does not demonstrate a strong knowledge of testing for a complex project such as VoteCal and indicates high risk.
0%	Response meets less than ten percent (10%) of the elements of the requirement and does not demonstrate thorough knowledge of test plan requirements for a project of this size, scope, and complexity.

Table IX.9 below identifies each requirement to which these criteria will be applied, the factors to be considered in that evaluation and the maximum points possible for that requirement. Note each bullet is equally weighted within that requirement.

**Table IX.9 Test Plan (P9) – Requirement, Evaluation Factors and Maximum Points**

Reqmt. #	Requirement and Evaluation Factors	Max Points Possible
P9	<p><b>Test Plan</b></p> <ul style="list-style-type: none"> <li>• Does the Test Plan include a sample Test Defect Log? Does it contain sufficient detail and tracking?</li> <li>• Does the Test Plan discuss a proposed Test Methodology that encompasses industry-standard phases of testing?</li> <li>• Does the Test Plan address how the defects will be researched and resolved?</li> <li>• Does the Test Plan contain a retest function using a structured approach?</li> <li>• Does the Test Plan include negative testing scenarios?</li> <li>• Does the Test Plan include training for testers?</li> <li>• Does the Test Plan adequately address functional testing of each system component, end-to-end integration testing, performance and stress testing, backup and recovery testing, regression testing for system modifications, and acceptance testing?</li> <li>• Does the Test Plan describe the process and timeframes for applying and testing Deficiencies and changes during and between Phase IV – Testing, Phase V – Pilot Deployment and Testing, and Phase VI – Deployment and Cutover, and to perform end-to-end testing after corrections and changes are applied, as well as before Phase VI – Deployment and Cutover commences and during Phase VI – Deployment and Cutover?</li> <li>• Does the Test Plan describe the roles and participation of county elections officials' staff, Election Management System (EMS) vendors and SOS in all phases of testing?</li> <li>• Does the Test Plan address proper use of the dedicated test environments to protect the integrity of existing production environments and data?</li> </ul>	800

c. CALCULATION OF THE SCORE FOR TEST PLAN

The Bidder's Test Plan submitted in response to Requirement P9 will be awarded a percentage of possible points for that requirement based on the criteria in Table IX.8 above. For example, a Test Plan that earns 75% based on the evaluation criteria will earn a score of 600 (800 maximum possible points x 75%).

**4. Data Integration Plan – P10 (Maximum Score 1000)**

a. INTRODUCTION

Section VI.B.4 – Data Integration of the RFP identifies Requirement P10 – Data Integration Plan. This Data Integration Plan requirement is mandatory and Bidders must provide a narrative response to the requirement, as described in Section VI.B.4.

b. EVALUATION PROCESS

For the response to the Data Integration Plan requirement (P10), the Evaluation Team will award points using the criteria detailed in Table IX.10 below.

**Table IX.10 Criteria for Award of Points for Data Integration Plan Requirement (P10)**

Percent of Points	Criteria
100%	Response meets or exceeds all elements of the requirement and clearly demonstrates a thorough understanding of data integration to the extent that a timely and high quality performance is anticipated. Bidder's on-site time, plans, and timeline are sufficient to achieve requirements and level of Bidder's resource commitments is high.
75%	Response meets at least seventy-five percent (75%) of the elements of the data integration requirement but with weaknesses that are considered minimal and can be mitigated. For example, Bidder's draft plan, approach, and timeline are sufficient to achieve requirements and level of resource commitment are adequate but may require additional State resources.
50%	Response meets at least fifty percent (50%) of the elements of the data integration requirement with weaknesses that are considered moderate and resolvable but will require more involvement by SOS to mitigate potential risks. For example, Bidder's approach and processes may be inadequate and will require additional SOS resources to reduce the risk potential.
10%	Response meets at least ten percent (10%) of the elements of the requirement for data integration activities, with identified weaknesses that will require significant resources from SOS to mitigate and ensure project success. For example, Bidder's plan does not demonstrate a strong knowledge of performing data integration for a complex project such as VoteCal and indicates high risk.
0%	Response meets less than ten percent (10%) of the elements of the requirement and does not demonstrate thorough knowledge of data integration activities for a project of this size, scope, and complexity.

Table IX.11 below identifies each requirement to which these criteria will be applied, the factors to be considered in that evaluation and the maximum points possible for that requirement. Note each bullet is equally weighted within that requirement.

**Table IX.11 Data Integration Plan (P10) – Requirement, Evaluation Factors and Maximum Points**

Reqmt. #	Requirement and Evaluation Factors	Max Points Possible
P10	<p><b>Data Integration Plan</b></p> <ul style="list-style-type: none"> <li>Does the Data Integration Plan narrative describe their Data Integration approach and method and are these discussions concise and illustrative of best business practices?</li> <li>Does the Data Integration Plan adequately and appropriately address the roles and responsibilities of bidder staff, SOS staff, and counties and their EMS vendors?</li> <li>Does the response include a discussion of integration strategy of "cut-over", "pilot", or "phased"?</li> </ul>	1000

Reqmt. #	Requirement and Evaluation Factors	Max Points Possible
	<ul style="list-style-type: none"> <li>• Is the proposed integration approach realistic and is it appropriately timed for the proposed testing and implementation schedule?</li> <li>• Does the response include performing a test of data integration and to have all data validated and approved by SOS prior to Phase V – Pilot Deployment and Testing (as per Deliverable II.8 defined in Attachment 1, Exhibit 2 – Tasks and Deliverables)?</li> <li>• Does the response discuss how data integration issues and errors will be addressed and resolved?</li> <li>• Does the Data Integration Plan realistically address the integration of data from all counties into a single statewide record for each voter, including integration of document images, voter activity history, and voter participation history?</li> <li>• Does the approach described in the Data Integration Plan ensure the integrity of CalVoter as the statewide database containing the official list of all voters while integration is in progress?</li> </ul>	

c. CALCULATION OF THE SCORE FOR DATA INTEGRATION PLAN

The score for the Bidder's Data Integration Plan submitted in response to Requirement P10 will be directly calculated based on the percentage of points earned. For example, a Data Integration Plan that earns seventy-five percent (75%) based on the evaluation criteria will earn a score of 750 (1000 maximum possible points x 75%).

5. **VoteCal Architecture – P11 (Maximum Score 3000)**

a. INTRODUCTION

Section VI.B.5 – VoteCal Architecture identifies Requirement P11: VoteCal Architecture. This Architecture requirement is mandatory and Bidders must provide a narrative response to the requirement that addresses the criteria described in Section VI.B.5.

Evaluation and scoring of the response to the VoteCal Architecture requirement will include evaluation of the Bidders' narrative and pictorial discussion of the proposed VoteCal architecture (in response to Section VI.B.5 – VoteCal Architecture), as well as the Bidder's responses requirements in Tables VI.1 and VI.2 (Business and Technical Requirements) and Bidder's referenced projects. The State Evaluation Team will determine the depth, breadth, completeness, and clarity of the included response, and the degree to which the response demonstrates that the solution meets or exceeds objectives for performance, availability, scalability, security, maintainability, accessibility, deployability, and extensibility as described in Section VI.B.5 – Voter Architecture.

b. EVALUATION PROCESS

The Evaluation Team will use the criteria in Table IX.12 (below) to rate the Bidder's proposed VoteCal Architecture for multiple factors and award a percentage of points for each factor.

**Table IX.12 –Criteria for Assigning Points in Evaluation of VoteCal Architecture (P11)**

Percent of Points	Criteria
100%	<b>Meets All Requirements and Solution is Implemented</b> - The Proposal addresses the factor and exceeds SOS expectations and objectives in the completeness and demonstrability of this factor in an existing system developed or provided by the bidder in at least one referenced project that was completed within the past four (4) years.
70%	<b>Meets Requirements</b> – The Proposal addresses the factor and contains sufficient detail to evaluate whether it meets requirements, and meets all aspects of the evaluation criterion, but the approach is not fully demonstrated in an existing, referenced system or project that was completed within the past (4) years. However, the approach is completely described and is clearly viable based upon standard or best business practices.
10%	<b>Partially Meets Requirements</b> - The factor is addressed in the Proposal, although the response either incompletely describes how the factor will be addressed; or the approach is logically argued but is not supported by industry standards, best practices, or a referenced project that was completed within the past four (4) years.
0%	<b>Poor or Does Not Meet Requirements</b> - The factor is not addressed in the response; the description lacks sufficient detail to evaluate the response; or the impact of the described approach on functionality or performance is unsupported or contraindicated by industry standards, best practices, or referenced projects.

The above criteria will be used to assign points for each of the eight (8) VoteCal Architecture evaluation factors. The factors and the maximum number of points per factor are presented in Table IX.13 below.

**Table IX.13 – Evaluation Factors and Maximum Points for Bidder VoteCal Architecture (P11)**

Evaluation Factor for the Proposed VoteCal Architecture	Maximum Points
<p><b>Performance.</b> The degree to which the proposed architecture meets or exceeds performance requirements described in the RFP and the extent to which the approach to meeting performance requirements conforms to industry-accepted best practices and standards. Areas that will be evaluated for this factor include:</p> <ul style="list-style-type: none"> <li>• Network capacity;</li> <li>• Server memory and processing capacity;</li> <li>• Application-processing constraints; and</li> <li>• Performance testing and load testing.</li> </ul>	<b>600</b>

Evaluation Factor for the Proposed VoteCal Architecture	Maximum Points
<p><b>Availability.</b> The degree to which the proposed architecture meets all availability requirements described in the RFP and the extent to which the approach to meeting availability requirements conforms to industry-accepted best practices and standards. Areas that will be evaluated for this factor include:</p> <ul style="list-style-type: none"> <li>• How and when routine maintenance will be performed;</li> <li>• How component failures will be handled;</li> <li>• How backup and recovery will be addressed from the start of Phase I – Project Initiation and Planning to the start of Phase V – Pilot Deployment and Testing; and,</li> <li>• How backup and restoration, <i>other</i> than from disaster (e.g., flood, fire, earthquake, etc.) will be addressed (consistent with the requirements stated in T3 - System Availability and Backup/Recovery described in RFP Section VI).</li> </ul>	<b>450</b>
<p><b>Scalability.</b> The degree to which the proposed architecture meets all scalability requirements of the RFP, demonstrates capability of the system to increase its capacity by upgrading system hardware and software and reflects industry-accepted best practices and standards. Areas that will be evaluated for this factor include:</p> <ul style="list-style-type: none"> <li>• How new hardware and software will be added; and</li> <li>• What reconfiguration would be necessary to utilize the new hardware and software.</li> </ul>	<b>450</b>
<p><b>Security.</b> The degree to which the proposed architecture meets all security requirements of the RFP and the extent to which the approach for meeting security requirements reflects industry-accepted best practices and standards. Areas that will be evaluated for this factor include:</p> <ul style="list-style-type: none"> <li>• How authentication will take place;</li> <li>• How authorization will take place;</li> <li>• How data will be protected--both at rest and in transit;</li> <li>• How the system will protect against identity spoofing;</li> <li>• How the system will protect data from tampering;</li> <li>• How the system will log system and user activity; and</li> <li>• How the system will protect against Denial of Service attacks.</li> </ul>	<b>600</b>
<p><b>Maintainability.</b> The ability of and ease with which the system is to be maintained at an operational level after it is put into production, including the degree to which maintenance by SOS can be performed within SOS's projected VoteCal staffing and anticipated operating budget. Areas that will be evaluated for this factor include:</p> <ul style="list-style-type: none"> <li>• Specific maintenance level-of-effort expectations;</li> <li>• How the proposed architecture will help contain the level of effort required for maintenance activities for any components added to the VoteCal network and/or SOS infrastructure;</li> <li>• How any third-party components will be maintained - including routine updates and bug fixes;</li> <li>• The necessary staffing skills needed to maintain the system;</li> <li>• Degree to which software and hardware currency and availability are ensured; and</li> <li>• Approach for forward compatibility.</li> </ul>	<b>300</b>

Evaluation Factor for the Proposed VoteCal Architecture	Maximum Points
<p><b>Accessibility.</b> The degree to which the proposed architecture meets all accessibility requirements of the RFP and the extent to which the approach to ensuring accessibility reflects industry-accepted best practices and standards. Areas that will be evaluated for this factor include:</p> <ul style="list-style-type: none"> <li>• Evidence of architecture's compliance with provisions of California Government Code Section 11135 and United States Rehabilitation Act Section 508; and</li> <li>• Evidence of conformance to Web Content Accessibility Guidelines 2.0, W3C World Wide Web Consortium Recommendation WCAG 2.0 12/2008, Level A and Level AA Success Criteria.</li> </ul>	<b>150</b>
<p><b>Deployability.</b> The extent to which the deployment approach minimizes risks. Areas that will be evaluated for this factor include:</p> <ul style="list-style-type: none"> <li>• Mitigation of common deployment risks;</li> <li>• Physical locations where systems components will be deployed; and</li> <li>• The method of distribution for system components and release processes.</li> </ul>	<b>150</b>
<p><b>Extensibility.</b> The degree to which the proposed architecture meets all extensibility requirements of the RFP, the degree to which the system can be enhanced in the future, and the resource impact of the approach described for ensuring extensibility. Areas that will be evaluated for this factor include:</p> <ul style="list-style-type: none"> <li>• The steps necessary to add new functionality to the system;</li> <li>• How improving extensibility will affect the complexity of the system; and</li> <li>• How improving extensibility will affect testing and debugging.</li> </ul>	<b>300</b>

c. CALCULATION OF THE SCORE FOR THE VOTECAL ARCHITECTURE

- 1) **Calculation of Points Earned Per Evaluation Factor:** The total points awarded for each of the factors in the above Section will be calculated by multiplying the percentage of points earned by the total points for the evaluation factor.
- 2) **Calculation of the Total Score:** The Total Points Earned for the VoteCal Architecture will be calculated as the sum of points earned for each factor.

**Example Calculation of Bidder Score for VoteCal Architecture:**

1. Assume Bidder's Proposal receives the following percentages and resultant scores for the evaluation factors:

Evaluation Factors	Max Points Possible	Percentage Awarded	Bidder's Score
<b>Performance</b>	600	100%	600
<b>Availability</b>	450	70%	315
<b>Scalability</b>	450	10%	45

Evaluation Factors	Max Points Possible	Percentage Awarded	Bidder's Score
Security	600	70%	420
Maintainability	300	10%	30
Accessibility	150	70%	105
Deployment	150	70%	105
Extensibility	300	10%	30
<b>TOTAL</b>	<b>3000</b>		<b>1650</b>

The Bidder's Total Score for VoteCal Architecture would be the sum of the calculated scores for the factors, or 1650.

**6. VoteCal System Business Requirements – S1.1 through S25.4(Pass/Fail)**

a. INTRODUCTION

The VoteCal System business requirements are listed in Section VI.D – Business Functional Requirements, Table VI.1. The business requirements are all mandatory and are broken down by major business functional areas within the response form. Response to each business requirement will be evaluated for compliance with the evaluation criteria in order to obtain the best value solution. These business requirements are mandatory and Bidders must provide a complete response to each requirement, as described in Section VI.D – Business Functional Requirements.

The evaluation process will assess the Bidder's responses to the business requirements in Section VI.D – Business Functional Requirements to determine whether they fully address and satisfy each requirement.

Bidders are encouraged to provide references to technical literature in response to the specific requirements where the functionality is discussed in the product literature, user or system manuals, etc. Marketing literature is discouraged. This will assist the Evaluation Team in validating the Bidder's response to the requirement.

b. EVALUATION PROCESS

The Evaluation Team will evaluate the response to each business requirement, including any reference materials to which they are directed for additional information in the Bidder's Proposal response, to determine whether the response addresses the requirement, while demonstrating best business practices..

Based on the Team's evaluation, each requirement will be rated pass or fail based on the criteria identified in Table IX.14 below.

**Table IX.14 Criteria for Pass/Fail Evaluation of Bidder's Response to VoteCal System Business Requirements (S1.1 – S25.4)**

Rating	Criteria
PASS	Response meets or exceeds system business requirement.
FAIL	Response does not meet the system business requirement.

7. **VoteCal Technical Requirements – T1.1 through T10.7-9 (Pass/Fail)**

a. INTRODUCTION

The VoteCal Technical requirements are listed in Section VI.E – Technical Requirements, Table VI.2. These technical requirements are mandatory and Bidders must provide a complete response to each requirement, as described in Section VI.E.

The evaluation process will assess the Bidder's responses to the technical requirements in Section VI.E – Technical Requirements of the RFP to determine whether they fully address and satisfy each requirement.

b. EVALUATION PROCESS

The Evaluation Team will evaluate the response to each technical requirement to consider whether the response addresses the requirement, while demonstrating best business practices. The evaluation for each technical requirement will include review of any reference materials to which the Evaluation Team is directed for additional information in the Bidder's Proposal response to the requirement.

Based on the Team's evaluation, each requirement will be rated pass or fail based on the criteria identified in Table IX.15 below.

**Table IX.15 Criteria for Pass/Fail Evaluation of Bidder  
Response to VoteCal Technical Requirements (T1.1 – T10.7-9)**

Rating	Criteria
PASS	Response meets or exceeds technical requirement.
FAIL	Response does not meet the technical requirement.

8. **Bidder Qualifications and References (Mandatory and Desirable) – A9 and A10 (Maximum Score 3000)**

a. INTRODUCTION

Section V.B.3.B - Bidder Qualifications and References Requirements (Mandatory) and V.B.3.C – Bidder Qualifications and References Requirements (Desirable) of the RFP identify mandatory and desirable Bidder Qualifications. Evaluation of Bidder Qualifications and references will be based on similarity of the referenced projects to VoteCal in terms of scope and complexity, and on client references.

The State's determination of similarity of the projects included as references to the project specified in this RFP, for the purposes of this RFP, shall be final. The three (3) references submitted by the Bidder to address the mandatory Bidder Qualifications and References requirement (A9) must conform to the criteria described in Section V.B.3.B. **If submitted references for the mandatory Bidder Qualifications and References requirement are determined not to meet criteria described in Section V.B.3.B, this will be deemed a material deviation and may disqualify the Bidder from further consideration.** The reference submitted by the Bidder to address the desirable Bidder Qualifications and References requirement (A10) must conform to the criteria described in Section V.B.3.C. **If the reference submitted for the desirable Bidder Qualifications and References requirement is determined not to meet the criteria set forth in Section V.B.3.C, the reference will not be scored.**

If a Bidder elects to submit the same qualifications and references in response to the Bidder Qualification and References requirements (A9 and A10) in the Final Proposal as were

submitted for the Pre-Qualification Package, the State reserves the right to carry the Pre-Qualification Package evaluation scoring forward to the Final Proposal evaluation scoring for these two requirements. If a Bidder elects to respond to the mandatory Bidder Qualifications and References requirement (A9) with qualifications and references that are different from those submitted in the Pre-Qualification Package, the new qualifications and references must meet the mandatory Bidder Qualifications and References requirement. Similarly, if a new qualification and reference is submitted in the Final Proposal in response to the desirable Bidder Qualifications and References requirement (A10), the new qualification and reference must meet the desirable Bidder Qualifications and References requirement in order to be scored.

Bidders can earn a maximum score of 3000 for these requirements, 2300 for mandatory qualifications and references (A9), and 700 for desirable qualifications and references (A10). Scores are based on the results of the State's client reference checks for the Bidder's firm and for qualifying key subcontractors. (See Section V – Administrative Requirements for a definition of qualifying subcontractor.) The score awarded for Bidder Qualifications and References requirements will be based entirely upon the information provided by the references identified in the Bidder's Proposal. Three (3) references will be checked for the Bidder firm and/or qualifying subcontractor during evaluation of a Bidder's response to the mandatory Bidder Qualifications and References requirement (A9). A completed Exhibit V.5.a Bidder Qualifications & References (Mandatory) form for each of the three references must be submitted in Bidder's Proposal. An additional reference may also be checked to evaluate a Bidder's response to the desirable Bidder Qualifications and References requirement (A10). A completed Exhibit V.5.b – Bidder Qualifications & References (Desirable) form must be submitted with the Bidder's Proposal if the Bidder intends to respond to the desirable Bidder Qualifications and References requirement (this is true even if the Bidder intends to use one of the three references designated in response to the mandatory requirement to address the desirable requirement --- in all cases a completed Exhibit V.5.b must be submitted if the Bidder intends to respond to the desirable requirement).

b. EVALUATION PROCESS

At least three (3) members of the Evaluation Team and the DGS procurement official will participate in each reference call. During the call, the Evaluation Team members will:

- Confirm the information provided by the Bidder about the reference's implementation project as provided by the Bidder in Exhibit V.5.a – Bidder Qualifications References (Mandatory) and in Exhibit V.5.b – Bidder Qualifications & References (Desirable), if submitted;
- Ask the reference to provide a numeric rating of their satisfaction with the Bidder (or Key Subcontractor) with respect to the development and implementation process, the end product delivered, the service and support provided, and the end product's usability; and
- Ask the reference to evaluate the Bidder's (or Key Subcontractor's) overall success by choosing best answers to a number of questions pertaining to schedule, cost, fulfillment of requirements, system deployment, and system quality.

The Exhibit IX.2 - Bidder Reference Form - Client Telephone Reference Questionnaire includes the questions that are to be asked of each of the references. This form will also be used to document the reference's responses. The Evaluation Team will complete one of these forms for each client reference telephone call made.

Based on the reference responses, points will be awarded for the Bidder's references and a final score will be calculated in the following manner:

- 1) **References' Numeric Ratings on Indicators of Project Success (140 points Maximum for each reference):** Each reference will be asked to rate the Bidder or Key Subcontractor

firm on a scale of 0 to 10 on a total of fourteen (14) questions related to customer satisfaction with the firm's performance pertaining to project management, expertise of Contractor personnel, system quality and performance, and the firm's support of the system as shown in Exhibit IX.2. – Bidder Reference Form – Client Telephone Reference Questionnaire. For each indicator, the reference will be asked to choose the number, between 0 and 10 inclusive, that best describes his/her level of satisfaction.

The rating provided by the reference to each question will be translated directly into points awarded for the question; for example, if the reference rates the firm 7 on a particular question, the Bidder will be awarded 7 points for that question.

**Table IX.16 - This table has been removed (table number reserved)**

- 2) **Reference's Evaluation of Overall Success (100 points maximum for each reference):** Each reference will be asked to choose best answers to questions that pertain to schedule performance, cost performance, achievement of requirements, system deployment, and system quality. A maximum of 100 points per reference will be awarded for this section of the Bidder Reference Form. The points awarded for each reference (out of a maximum of 100) will be based on the reference's responses as outlined in Table IX.17 – Criteria for Scoring Reference's Evaluation of Overall Success.

**Table IX.17 Criteria for Scoring Reference's Evaluation of Overall Success (Bidder Reference Form - A9, A10)**

Topic Area		Scoring	
1. Schedule Performance	Points Assigned	Condition	Responsibility for Deviation
	20	Completed early, on time, or late by less than 25%	N/A
	20	Completed late by at least 25% but less than 50%	Customer only
	20	Completed late by 50% or more	Customer only
	15	Completed late by at least 25% but less than 50%	Both Contractor Firm and Customer
	10	Completed late by at least 25% but less than 50%	Contractor Firm only
	2	Completed late by 50% or more	Both Contractor Firm and Customer
	1	Completed late by 50% or more	Contractor Firm only
2. Cost Performance	Points Assigned	Condition	Responsibility for Deviation
	20	Completed within or under budget, or over budget by less than 25%	N/A
	20	Completed over budget by at least 25% but less than 50%	Customer only

Topic Area	Scoring		
	20	Completed over budget by 50% or more	Customer only
	15	Completed over budget by at least 25% but less than 50%	Both Contractor Firm and Customer
	10	Completed over budget by at least 25% but less than 50%	Contractor Firm only
	2	Completed over budget by 50% or more	Both Contractor Firm and Customer
	1	Completed over budget by 50% or more	Contractor Firm only
<b>3. Achievement of Project Requirements</b>	<b>Points Assigned</b>	<b>Condition</b>	<b>Responsibility for Deviation</b>
	20	Fully met or exceeded all business and technical requirements	N/A
	20	Met all <u>critical</u> business and technical requirements	Customer only
	15	Met all <u>critical</u> business and technical requirements	Both Contractor Firm and Customer
	15	Did not meet all <u>critical</u> business and technical requirements	Customer only
	10	Met all <u>critical</u> business and technical requirements	Contractor Firm only
	2	Did not meet all <u>critical</u> business and technical requirements	Both Contractor Firm and Customer
	1	Did not meet all <u>critical</u> business and technical requirements	Contractor firm only

Topic Area	Scoring		
<b>4. System Deploy-ment</b>	<b>Points Assigned</b>	<b>Condition</b>	<b>Responsibility for Deviation</b>
	20	Fully met or exceeded all expectations	N/A
	20	Met all <u>critical</u> expectations	Customer only
	15	Met all <u>critical</u> expectations	Both Contractor Firm and Customer
	15	Did not meet all <u>critical</u> expectations	Customer only
	10	Met all <u>critical</u> expectations	Contractor Firm only
	2	Did not meet all <u>critical</u> expectations	Both Contractor Firm and Customer
1	Did not meet all <u>critical</u> expectations	Contractor Firm only	
<b>5. Deployed System Quality</b>	<b>Points Assigned</b>	<b>Response</b>	
	20	There were only cosmetic deficiencies or minor deficiencies that did not impact system functionality, and each deficiency was corrected or could be corrected by a system fix.	
	15	There were minor deficiencies that did not impact the system's <u>critical</u> business or technical functionality, and each deficiency was corrected or could be corrected by a system fix.	
	10	There were significant deficiencies that impacted <u>critical</u> business and/or technical functionality, and each significant deficiency was corrected or could be corrected by a system fix.	
	2	There were significant deficiencies that impacted <u>critical</u> business and/or technical functionality, and at least one of these significant deficiencies was addressed or must be addressed by a workaround (a system fix was or would not be feasible).	
1	There were significant deficiencies that impacted <u>critical</u> business and/or technical functionality, and at least one of these significant deficiencies could not be addressed by either a system fix or a workaround.		

- 3) **Comparability Factor (0- 4) Adjustment:** The sum of the points determined in #1 and #2 above will be multiplied by a project comparability factor to yield the total points for that reference. A project that closely mirrors the requirements, scope, and complexity of the VoteCal Project will receive a higher comparability factor. The comparability factor will be determined according to Table IX.18 – Calculation of Reference Comparability Factor.

**Table IX.18 – Calculation of Reference Comparability Factor**

Table IX.18 – Calculation of Reference Comparability Factor
<p><b>1 point</b> will be added to the comparability factor for submitting a valid reference that meets the minimum requirements specified for the mandatory Bidder Qualifications and References requirement (A9) or, if a the Bidder has submitted a completed form V.5.b – Bidder Qualifications and References (Desirable), for the desirable requirement (A10). In all cases, this single point represents the only possible comparability factor that a reference submitted to meet the desirable Bidder Qualifications and References requirement is eligible to receive.</p>
<p><b>1 point</b> will be added to the comparability factor if the project was a completed voter registration system implementation with a scope similar to that described in Section VI - Project Management, Business and Technical Requirements, <i>or</i>, the project implemented a statewide system. Only references specified for the mandatory Staff Qualifications and References requirement (A9) are eligible for this comparability factor point.</p>
<p><b>1 point</b> will be added to the comparability factor if the implemented system has 200 or more concurrent users. Only references specified for the mandatory Staff Qualifications and References requirement (A9) are eligible for this comparability factor point.</p>
<p><b>1 point</b> will be added to the comparability factor if the project was completed within the past three (3) years. Only references specified for the mandatory Staff Qualifications and References requirement (A9) are eligible for this comparability factor point.</p>

- 4) **Non-Responsive References:** The following procedures will be followed for references that are non-responsive:
- After 2 (two) attempts to contact the reference, DGS Procurement Official will notify the Bidder of the client's unresponsiveness;
  - DGS Procurement Official and the Evaluation Team will make a third (3<sup>rd</sup>) attempt to contact the reference. If the reference is still unresponsive after 2 (two) business days from the third (3<sup>rd</sup>) contact attempt, the Bidder will receive zero (0) points for that reference. If the nonresponsive reference was submitted for the Mandatory Bidder Qualifications and References requirement (A9), the 0 point will be factored into the average reference calculation and therefore the final score for the Mandatory Bidder Qualifications and References requirement. If the nonresponsive reference is the Bidder's reference submitted for the desirable Bidder Qualifications and References requirement (A10), then the Bidder will be given a score of 0 for that requirement.
- c. **CALCULATION OF THE SCORE FOR BIDDER QUALIFICATIONS AND REFERENCES REQUIREMENT (MANDATORY) – A9 (Maximum Proposal score = 2300)**
- 1) **Total Reference Points Calculation:** The points awarded to each of the three (3) references submitted in response to the mandatory Bidder Qualifications and References requirement (A9) are summed. The maximum total points possible when combining the points of all three (3) references submitted in response to the mandatory requirement is two thousand eight hundred eighty (2880) (two hundred forty (240) points per reference form x maximum comparability factor of 4 x 3 references).
  - 2) **Calculation of the Percentage of Maximum Points Earned:** The total reference points (#1 above) will be divided by the total possible points (2880) to determine the percentage of points earned for references submitted in response to the Mandatory Bidder Qualifications and References requirement.

$$\frac{\text{Total Reference Points}}{\text{Maximum Reference Points Possible (2880)}} = \% \text{ of Maximum Points Earned}$$

- 3) **Calculation of Score for the Mandatory Bidder Qualifications and References Requirement:** The actual Proposal score for the Mandatory Bidder Qualifications and References requirement will be calculated by multiplying the maximum possible score for the mandatory Bidder Qualification and References requirement (two thousand three hundred (2300)) by the percentage of earned points calculated in step 2 above.

(Maximum Possible Score) X (% of Maximum Points Earned) = RFP Score for Mandatory Bidder Qualifications and References Requirement (A9).

- d. CALCULATION OF THE SCORE FOR BIDDER QUALIFICATIONS AND REFERENCES REQUIREMENT (DESIRABLE) – A10 (Maximum Proposal score = seven hundred (700))

- 1) **Calculation of the Percentage of Points Earned:** The total reference points awarded the single reference submitted by a Bidder electing to respond to the desirable Bidder Qualifications and References requirement (A10) will be divided by the total possible points (two hundred forty (240) per reference) to determine the percentage of points earned for the reference the Bidder identified in response to the desirable Bidder Qualifications and References requirement. (A comparability factor of one (1) will be used for references for the desirable Bidder Qualifications and References requirement).

$$\frac{\text{Total Reference Points}}{\text{Maximum Points Possible}} = \% \text{ of points earned}$$

- 2) **Calculation of Score for Desirable Bidder Qualifications and References Requirement (A12):** The actual Proposal score for the desirable Bidder Qualifications and References requirement will be calculated by multiplying the maximum possible score of seven hundred (700) by the percentage of earned points calculated in step 1 above.

(Maximum Possible Score = 700) X (% of Points Earned) = RFP Score for Desirable Bidder Qualifications and References

**Example of Calculation of Bidder Qualifications and References Score:**

Refer to Table IX.19 - Example Calculation of Bidder Qualification and References Scores for an example of how the Bidder Qualifications and References scores are established for the mandatory (A9) and desirable (A10) requirements. In this example, the hypothetical Bidder has submitted three (3) completed Exhibit V.5.a forms in response to mandatory requirement A9, each specifying one of the three required references (shown in Table IX.19 as TDM, CA DHY, and DCM). The hypothetical Bidder has also submitted a completed Exhibit V.5.b Bidder Qualifications and References in response to desirable requirement A10. In this example, the reference designated in the completed Exhibit V.5.b form is the same as one of the three (3) references the Bidder designated in response to the mandatory Bidder Qualifications and References requirement (shown as DCM in Table IX.19).

**Table IX.19 - Example Calculation of Bidder Qualifications and References' Scores (A9 and A10)**

Reference Name	Mandatory or Desirable Requirement (Exhibit V.5.a or Exhibit V.5.b)?	(a) Ratings on Indicators of Project Success (max. 140)	(b) Evaluation of Overall Success (max. 100)	(c) Sub-Total (sum a+b)	(d) Comparability Factor (max = 4 for Mandatory req; max = 1 for Desirable req)	Total Points per Reference (c x d)
TDM	Mandatory (Exhibit V.5.a)	45	75	120	3	360
CA DHY	Mandatory (Exhibit V.5.a)	80	100	180	1	180
DCM	Mandatory (Exhibit V.5.a)	100	75	175	3	525
DCM	Desirable (Exhibit V.5.b)	100	75	175	1	175
<b>Mandatory Bidder Qualifications &amp; References Requirement (A9)</b>						
		M1. Mandatory Total Points – Sum of Total Points for all 3 Mandatory references TDM, CA DHY, DCM			1065	
		M2. Maximum Points Possible for Mandatory Bidder References (= 3 x 240 maximum total points per reference x 4 comparability factor)			2880	
		M3. Percent of Points Earned [M1 divided by M2]			37.0%	
		M4. Maximum Possible Score			2300	
		<b>M5. Mandatory Bidder Qualifications (A9) Score Awarded [M3 x M4]</b>			<b>850.5</b>	
<b>Desirable Bidder Qualifications &amp; References (A10)</b>						
		D1. Desirable Total Points (reference DCM)			175	
		D2. Maximum Points Possible for Desirable Reference (= 240 x comparability factor of 1)			240	
		D3. Percent of Points Earned (D1 divided by D2)			72.9%	
		D4. Maximum Possible Score			700	
		<b>D5. Desirable Bidder Qualifications (A10) Score Awarded [D3 x D4]</b>			<b>510.4</b>	
		<b>TOTAL Bidder Qualifications &amp; References' Score (M5 Mandatory + D5 Desirable)</b>			<b>1360.9</b>	

**9. Proposed Staff Qualifications – A11 and A12 (Pass/Fail, and Maximum Score 800)**

a. INTRODUCTION

Sections V.B.3.D – Proposed Staff Qualifications Requirements (Mandatory) and V.B.3.E – Proposed Staff Qualifications Requirements (Desirable) of the RFP describe the mandatory

and desirable Proposed Staff Qualifications requirements that the State will evaluate in the Bidder's response included in both the Pre-qualification Package and the Final Proposal.

The six (6) Key Staff members are defined as the Bidder or subcontractor staff designated to fill the following roles: Project Manager (PM), Business Lead (BL), Technical Lead (TL), Data Integration Lead (DIL), Development Lead (DL), and Testing Lead (TestL). The Bidder's proposed Key Staff will be evaluated and scored on the following factors:

- Whether the proposed staff for the six (6) defined Key Staff roles (Project Manager, Business Lead, Technical Lead, Data Integration Lead, Development Lead, and Testing Lead) meet all Mandatory Proposed Staff Qualifications requirement, A11 (Pass/Fail); and
- The degree to which the proposed staff for a subset of the six (6) Key Staff roles meet Desirable Staff Qualifications requirement, A12 (eight hundred (800) maximum score).

b. EVALUATION PROCESS

- 1) **Satisfaction of mandatory Proposed Staff Qualifications requirement (Pass/Fail):** RFP Section V.B.3.D - Proposed Staff Qualifications Requirements (Mandatory) details the mandatory qualifications for the Key Staff proposed for the Bidder's proposed project team. The Bidder's response to these requirements, submitted in Exhibits V.6 – Staffing Experience Matrix and V.7 – Bidder Staff Resume, will be evaluated on a Pass/Fail basis.

The Evaluation Team may, during the State's Pre-Qualification Package evaluation, contact client contacts (references) listed in Exhibit V.6 - Staffing Experience Matrix for purposes of validating the period of time during which the Key Staff worked on the referenced project and the number of Full-time Month equivalents experience reported; however, those references will not be scored.

If the Evaluation Team elects to validate the number of reported Full-time Month Equivalents experience reported for a Bidder's Key Staff during the Pre-qualification Package evaluation phase, then:

- a. At least three (3) members of the Evaluation Team and the DGS procurement official will participate in each reference contact call. During the call, the Evaluation Team members will:
1. For each of designated ("x") experience requirements the Bidder specifies the Key Staff has met based on work on the referenced project, validate the number of Full-time Month Equivalents' experience the Key Staff accrued by asking the contact to confirm the (calendar) timeframe during which the Key Staff worked on the referenced project, whether the Key Staff worked full-time or part-time on the project, and the type of role filled/work performed.
  2. Using the calculations provided in the instructions accompanying the Exhibit V.6 – Staffing Experience Matrix and the reference contact's input, the Evaluation Team will calculate the number of Full-time Month Equivalents the Key Staff accrued for each designated work experience requirement for the referenced project (based on the reference contact check).
  3. If the Key Staff's Exhibit V.6 – Staffing Experience Matrix and/or Exhibit 7 – Bidder Staff resume reports a number of Full-time Month Equivalents' experience for the designated work experience requirement for the referenced project that is different than that calculated based on reference contact input, the Key Staff will be evaluated based only on the number of Full-time Month Equivalents calculated reform reference contact input.
- b. **Non-Responsive References during the Pre-qualification phase:** The following procedures will be followed for reference contacts that are non-responsive:

1. After 2 (two) attempts to contact the reference, DGS Procurement Official will notify the Bidder of the client's unresponsiveness;
2. DGS Procurement Official and the Evaluation Team will make a third (3rd) attempt to contact the reference. If the reference is still unresponsive after 2 (two) business days from the third (3rd) contact attempt, the Bidder will be evaluated based on the number of Full-time Month Equivalents specified in Exhibit V.6 – Staffing Experience Matrix for that reference for purposes of the Pre-qualification Package evaluation only.

If the Evaluation Team does not elect to validate the number of reported Full-time Month Equivalents experience' reported for a Bidder's Key Staff during the Pre-qualification Package evaluation phase, then the Key Staff is evaluated based on the number of Full-time Month Equivalents specified in Exhibit V.6 – Staffing Experience Matrix for each referenced project.

As part of evaluating the Bidder's response to this requirement in the Final Proposal, the Evaluation Team will contact at least two (2) references for the proposed Project Manager, and at least a total of three (3) references for the other Key Staff to confirm information provided by the Bidder in Exhibit V.6 – Staffing Experience Matrix and Exhibit V.7 - Bidder Staff Resume (The Evaluation Team will take the opportunity of these reference contacts to obtain client satisfaction ratings as described in item #10 that follows below.) In cases where the information submitted on Exhibit V.6 – Staffing Experience Matrix and Exhibit V.7- Bidder Staff Resume conflicts with information provided by a reference, the information provided by the reference will take precedence and will be used in determining whether the proposed staff meets mandatory requirements. A "Fail" on this requirement will be deemed a material deviation and may disqualify the Bidder from further consideration.

- 2) **Satisfaction of desirable Proposed Staff Qualifications requirement** (Maximum Score = 800): Section V.B.3.E - Proposed Staff Qualifications Requirements (Desirable) details the desirable qualifications for the Key Staff on the Bidder's proposed project team. Using the Bidder's completed Exhibit V.6 – Staffing Experience Matrix, Exhibit V.7 – Bidder Staff Resume, and (if applicable) results of reference checks, the Evaluation Team will sum the total number of Full-time Month Equivalents of each proposed staff's desirable experience for his/her respective role. In cases where the information submitted on Exhibit V.6 - Staffing Experience Matrix and Exhibit V.7 – Bidder Staff Resume conflict with information provided by a reference, the information provided by the reference will take precedence and will be used in calculation of the total months of proposed staff's desirable experience.

To determine the desirable the number of Full-time Month Equivalents' experience, the Evaluation Team will first total the number Full-time Month Equivalents for the desirable qualifications that have been verified against submitted Exhibits V.6 - Staffing Experience Matrix and V.7 - Bidder Staff Resume and (if applicable) contacts with staff references. Then the Evaluation team will subtract minimum required number of Full-time Month Equivalents, if any, for that experience. Lastly, they will enter the remaining number of Full-time Month Equivalents as the net number of desirable Full-time Month Equivalents experience.

In the event a Bidder elects to re-submit the same staff qualifications and references in response to these proposed Staff Qualifications requirements (A11 and A12) for the Final Proposal as submitted for the Pre-Qualification phase, the State reserves the right to carry the Pre-Qualification scoring forward to the Final Proposal evaluation scoring. In the event a Bidder elects to submit proposed staff in response to the Proposed Staff Qualifications requirements (A11 and A12) in the Final Proposal that differ from those submitted in the Pre-Qualification Package or a Bidder elects to submit references for the same proposed staff in response to requirements A11 and A12 in the Final Proposal that differ from the references for that staff included in the Pre-qualification Package, the new proposed staff

qualifications and/or the new references and contacts must meet the respective mandatory and (if appropriate) desirable requirements.

The team will then apply a weighting formula as specified below to award points to each Bidder based upon the total amounts tabulated for each role.

$$\frac{\text{Bidder's Total Desirable Qualifications x 800 (weight)}}{\text{Highest Bidder's Total Desirable Experience}} = \text{Bidder's Proposed Staff Score}$$

Table IX.20 shows an example of scoring of Proposed Staff Desirable Experience.

**Table IX.20 Sample Proposed Staff Desirable Experience (A12) Scoring**

Bidder	Total Desirable Full-time Month Equivalent Experience	Calculation	Points Awarded
A	72	$\frac{72 \times 800}{90}$ (Bidder C)	640
B	31	$\frac{31 \times 800}{90}$ (Bidder C)	275.6
C	90	$\frac{90 \times 800}{90}$ (Bidder C)	800
D	38	$\frac{38 \times 800}{90}$ (Bidder C)	337.8

**10. Proposed Staff References – A11 and A12 for Final Proposals Only (Maximum Score = 1000)**

a. INTRODUCTION

Sections V.B.3.D - Proposed Staff Qualifications Requirements (Mandatory) and V.B.3.E – Proposed Staff Qualifications Requirements (Desirable) identify requirements A11 and A12, which require the Bidder to complete Exhibit V.6 – Staffing Experience Matrix, including contacts for referenced projects. During the evaluation of Final Proposals, the references documented in Bidder’s submitted Exhibit V.6 - Staffing Experience Matrix will be contacted in order to obtain their ratings of satisfaction with the proposed Key Staff members’ performance.

b. EVALUATION PROCESS

As was stated in the context of discussion of evaluation of mandatory and desirable Proposed Staff Qualifications above, a minimum of two (2) references will be checked for the proposed Project Manager and a total of at least three (3) references will be checked for the proposed Key Project Team Members other than the Project Manager. At least three (3) members of the Evaluation Team will participate in each reference call. During the call, the Evaluation Team will ask the reference to directly rate the proposed Staff member’s performance on the reference’s implementation project as described in Exhibit V.6 – Staffing Experience Matrix.

The Reference Check Questionnaires for a Bidder’s proposed Project Manager (Exhibit IX.3 - Reference Check Questionnaire for Proposed Project Manager) and proposed Key Staff (Exhibit IX.4 - Reference Check Questionnaire for Proposed Staff) detail the questions that are to be asked of each reference. These forms will also be used to document the references’

responses. The Evaluation Team will fax the questions to each reference in advance to ensure they have the resources available to respond to the questions.

During the call, the reference will be asked to directly rate the proposed project team member from 0 to 5 on a series of standard questions. For the proposed Project Manager, there are twenty-six (26) questions that address functional performance, general performance in managing the project, and demonstrated personal management skills.

For each of the other five (5) proposed Key Project Team members, there are a total of eight (8) questions that address technical skills for the role for which the individual is proposed, and general professional skills.

The rating provided by the reference to each question will be translated directly into points, i.e., if the reference rates the Team Member "4" on a particular question, the Bidder will be awarded four (4) points for that question. After the conclusion of the call, the Evaluation Team members will discuss the reference's responses to validate they all had heard the same score from the reference for each of the question ratings.

Non-responsive References: The following procedures will be followed for references that are non-responsive:

- After two (2) attempts to contact the reference, DGS Procurement Official will notify Bidder of client's unresponsiveness;
- DGS Procurement Official and Evaluation Team will make one (1) more attempt to contact the reference. If the reference is still unresponsive two (2) business days after the third (3<sup>rd</sup>) attempt to contact, Bidder will receive zero (0) points for that reference, which may be factored into the average reference calculation and final score awarded.

c. CALCULATION OF RFP SCORE FOR PROPOSED STAFF REFERENCES

- 1) **Total Reference Points Calculation:** The total points from each reference for the Project Manager (one hundred thirty (130) points maximum for each reference) will be summed, then divided by the total number of Project Manager References checked to yield an average Project Manager Reference score. The maximum number of points for the Project Manager Reference Score is one hundred thirty (130).

The total points from each reference for Key Staff other than the Project Manager (forty (40) points maximum for each reference) will be summed, then divided by the total number of references checked for proposed staff, and multiplied by two (2). The maximum number of reference points for the proposed staff other than the PM is eighty (80) (2 x 40 maximum points per reference).

These two average scores will be summed to yield Total Reference Points.

- 2) **Calculation of the Percentage of Points Earned:** The total reference points (#1 above) will be divided by the total possible points two hundred ten (210), to determine the percentage of points earned Proposed Staff References.

$$\frac{\text{Total Reference Points}}{\text{Maximum Points Possible (210)}} = \% \text{ of points earned}$$

- 3) **Calculation of RFP Score for Project Staff References:** The actual RFP score for Project Staff References will be calculated by multiplying the maximum possible score for Project Staff References one thousand (1000) by the percentage of earned points calculated in step 2 above.

$$(\text{Maximum Possible Score}) \times (\% \text{ of Points Earned}) = \text{RFP Score Awarded}$$

**11. Project Organization – A20 (Maximum Score = 1000)**

a. INTRODUCTION

Section V.3.C.N - Project Organization (Mandatory) of the RFP identifies requirement A20 – Project Organization. This Project Organization requirement is mandatory and Bidders must provide a narrative response to the requirement that addresses the criteria described in Section V.3.C.N.

The Evaluation Team will evaluate Bidder's response to the Project Organization requirement and determine a score for this category based on the depth and breadth of the Bidder's narrative description of the Project Organization, and the Evaluation Team's assessment of the Bidder's response relative to the Requirement and Evaluation Factors.

b. EVALUATION PROCESS

For the response to the Project Organization requirement (A20), the Evaluation Team will award points using the criteria detailed in Table IX.21 – Criteria for Assigning Points in Evaluation of Project Organization below.

**Table IX.21 –Criteria for Assigning Points in Evaluation of Project Organization (A20)**

Percent of Points	Criteria
100%	<b>Meets all requirements</b> - The response is understandable, contains sufficient detail to evaluate the response completely, and meets all aspects of the evaluation criteria cited in Section V.3.C.N - Project Organization. Assigned roles are consistent with skill sets documented for proposed staff members in Exhibit V.6 – Staffing Experience Matrix and Exhibit V.7 – Bidder Staff Resume, and roles are assigned and discussed for all functions cited for the requirement in Section V.3.C.N - Project Organization. On-site staffing meets or exceeds SOS project needs and is logically consistent with the staff roles/responsibilities. The response gives a complete picture of the Bidder's proposed organization, with detailed staff role information.
70%	<b>Meets most requirements</b> – The response is understandable, contains sufficient detail to evaluate the response completely, and meets at least seventy percent 70% of the criteria described in Section V.3.C.N – Project Organization for the requirement. On-site staffing is consistent with the documented roles/responsibilities. Assigned roles are consistent with skill sets documented for proposed staff members in Exhibits V.6 – Staffing Experience Matrix and Exhibit V.7 – Bidder Staff Resume, and roles are assigned and discussed for all functions cited in for the requirement in Section V.3.C.N – Project Organization.
25%	<b>Partially meets requirements</b> – The response meets at least twenty-five percent (25%) of the criteria described for the requirement in Section V.3.C.N – Project Organization, but is not clearly understandable, lacks sufficient detail to evaluate, or demonstrates lack of understanding for up to seventy-five (75%) of the criteria. Or, the Bidder's description of organization and resource allocation is inconsistent with documented skill sets members in Exhibit V.6 – Staffing Experience Matrix or Exhibit V.7- Bidder Staff Resume for one (1) or two (2) proposed staff, or reflects on-site staffing insufficient to fulfill the team functions.

Percent of Points	Criteria
0%	<b>Does not meet requirements</b> – The response is not clearly understandable, lacks sufficient detail to evaluate the response, meets fewer than twenty-five percent (25%) of the evaluation criteria cited in Section V.3.C.N – Project Organization-for the requirement, or demonstrates a lack of understanding of the evaluation criteria, Or, the Bidder's description of organization and resource allocation is inconsistent with documented skill sets members in Exhibit V.6 – Staffing Experience Matrix or Exhibit V.7 – Staff Resume for three (3) or more proposed staff.

**Calculation of RFP Score for Project Organization:** The actual Proposal score for Project Organization will be calculated as the percentage score x one thousand (1000). For example, if a Bidder's response is evaluated at seventy percent (70%) (meets most requirements) the Bidder's RFP score awarded for this requirement will be seven hundred (700) points.

**F. COST ASSESSMENT (Maximum Score = 6,000 points)**

A maximum score of six thousand (6,000) is possible for the Cost Assessment portion of the evaluation. The Cost Proposals from all participating Bidders will not be opened until the Evaluation Team has completed the evaluation process for Project Management, Business and Technical Requirements. Only Bidders that are compliant in all previous evaluation areas and exceeding seventy percent (70%) of the maximum total score for those categories will continue in the evaluation process and have their Cost Proposals opened. Bidders may be awarded up to six thousand (6,000) points for their costs for the VoteCal System.

**All participating Bidders and interested parties shall be notified as to the date and time when a public opening of Proposal costs will be conducted.**

The cost assessment is a two-step process. In the first step the Cost Proposals will be opened and the Evaluation Team will validate all cost tables for accuracy (math errors) and to ensure all items identified in the Bidder's Proposal (i.e., deliverables) have been included in the Cost Tables.

Errors and inconsistencies will be dealt with according to procedures contained in Section II.D.87.d - Errors in the Final Proposal. Adjustments will be made for the purpose of evaluation in accordance with procedures described in RFP Section VII – Cost Tables and RFP Section II. Rules Governing Competition. Only those cost adjustments will be made for which a procedure is described in this RFP. When the cost table validation has been complete, the Cost Score for each Bidder's Final Proposal are determined by applying the math adjustments and calculating the final Total Cost for each Bidder.

In the second step of the cost assessment, the formula is applied to the adjusted total evaluated cost for the VoteCal System (Line D in Cost Table VII.8 – VoteCal System Evaluated Cost Summary) as follows:

**Example Calculation of Bidder Score for VoteCal System Evaluated Cost (Table VII.8, Line D):**

The maximum cost score achievable is six thousand (6,000).

$$\frac{\text{Lowest VoteCal System Evaluated Cost x 6,000}}{\text{Bidder's VoteCal System Evaluated Cost Proposal}} = \text{Bidder Final Cost Score}$$

Bidder Final Evaluated Costs:

Bidder A	\$1,100,000
Bidder B	\$3,000,000
Bidder C	\$2,040,000

Bidder A	$(1,100,000 * 6,000)/1,100,000$	= 6,000 Cost Score
Bidder B	$(1,100,000 * 6,000)/3,000,000$	= 2,200 Cost Score
Bidder C	$(1,100,000 * 6,000)/2,040,000$	= 3,235 Cost Score

**G. DETERMINATION OF WINNING PROPOSAL**

**1. Finalization of Final Proposal Points**

All Bidder's points awarded for each area of the Evaluation are tallied to determine the total points awarded for each. The following Table IX.22 – Maximum Possible Score for Each Evaluation Area illustrates the maximum possible in each evaluation area.

**Table IX.22 – Maximum Possible Score for Each Evaluation Area**

Evaluation Area	Maximum Possible Score	
Preliminary Review (Pass/Fail)		
Administrative Requirements (Pass/Fail)		
<b>Project Management, Business &amp; Technical, and Bidder/Team Requirements</b>		
Project Management Activities and Plans	3100	
Training	300	
Testing Plan	800	
Data Integration Plan	1000	
Technical Architecture	3000	
VoteCal System Business Requirements	Pass/Fail	
VoteCal Technical Requirements	Pass/Fail	
<b>Bidder Qualifications and References</b>		
Bidder Qualifications and References (Mandatory)	2300	
Bidder Qualifications and References (Desirable)	700	
<b>Proposed Staff Qualifications for Key Staff</b>		
Proposed Staff Qualifications (Mandatory)	Pass/Fail	
Proposed Staff Qualifications (Desirable)	800	
Proposed Staff References	1000	
Project Organization	1000	
<b>TOTAL MAXIMUM SCORE: Project Mgmt., Business &amp; Technical Requirements</b>		<b>14,000</b>
<b>Evaluation of Project Management, Business, Technical and Added Value Total Points</b> (Numbers posted at Cost Opening)		
<b>Cost Assessment</b>		
VoteCal System Proposal Cost	6,000	
<b>TOTAL POSSIBLE SCORE: Cost Assessment</b>		<b>6,000</b>
<b>TOTAL MAXIMUM SCORE:</b>		<b>20,000</b>

**2. Determination of the Small Business Preference**

The Small Business participation preference will be applied after the scores for cost have been calculated. Per Government Code, Section 14835, et seq., Bidders who qualify as a California

certified small business and Bidders that commit to using small business subcontractors for twenty-five percent (25%) or more of the value of the contract will be given a five percent (5%) preference for contract evaluation purposes only.

The five percent (5%) preference is calculated on the total number of points awarded to the highest scoring non-small business that is responsible and responsive to the Proposal requirements. If after applying the small business preference a small business has the highest score, no further preferences would be applied as the small business cannot be displaced from the highest score position by application of any other preference.

The rules and regulations of this law, including the definition of a California-certified small business for the delivery of goods and services, are contained in the California Code of Regulations, Title 2, Section 1896, et seq. and can be viewed online at [www.pd.dgs.ca.gov/smbus](http://www.pd.dgs.ca.gov/smbus).

Table IX.23 Scoring Example with Small Business Preferences Applied illustrates how the Small Business preference would be applied. In the example, Bidder A initially has the most points. Bidder C is a California-certified small business. Bidder D is a non-small business that is using California-certified small businesses to perform work that amounts to twenty-five percent (25%) of the value of the contract. In this scenario, Bidder C earns the five percent (5%) small business preference, which is applied to the total "earned" points (accumulated technical, non-technical and cost points, prior to incentives and preferences). Bidder D earns the five percent (5%) small business preference, which is applied to the total "earned" points to yield the highest overall point total. In this example, Bidder C would be awarded the contract, because a small business cannot be displaced by any other preference, even though applying the small business preference to Bidder D would have given Bidder D the higher point total.

**Table IX.23 - Scoring Example with Small Business Preferences Applied**

	Bidder	A	B	C	D
1	Bidder Firm is a Small Business?	No	No	Yes	No
2	Proposal Meets Small Business Requirements?	No	No	Yes	Yes
3	Technical Requirement Points (Row 3)	268	255	245	248
4	Cost Points (row 4)	280	240	300	299
5	Non-Technical points (row 5)	0	0	0	0
6	The Bidder's Cost bid that has the total Combined Highest Cost and Non-Technical Points (Row 4 + Row 5) = Row 6 (300; in this case, Bidder C)	300	300	300	300
7	Total Points Score before any Incentives (Row 3 + Row 4 + Row 5) = Row 7	548	495	545	547
8	Small Business Preference - Highest points Bidder in Row 7 that is not a small business, times 5% = Row 8	0	0	(548 x .05) = 27.4	(548 x .05) = 27.4
9	Total Points with Small Business Preference Applied (Row 7 + Row 8) = Row 9	548	495	572.4	574.4
10	Subtraction of Preference Points from Non-Small Businesses	0	0	0	27.4

	Bidder	A	B	C	D
11	Total Final Points with Small Business Preference Applied	548	495	572.4	547

In this example, Bidder D would appear to receive the award, but the law states that a California certified small business cannot be displaced by a large business, which receives preference points. Therefore, when you remove the small business preference points from, Bidder D, Bidder C, has the most points and will receive the award.

**3. Determination of the DVBE Incentives**

The DVBE Incentive requirement is optional, but will provide additional points to be factored in for contract award purposes.

The Military and Veterans Code Section 999.5(a) is to provide an incentive for DVBE participation in State contracts. The incentive for this procurement provides additional points for those Bidders that achieve more than 3%. Bidders will receive incentive points in accordance with the table that follows, also described in Section IX - Evaluation and Selection.

NOTE: In accordance with Section 999.5(a) of the Military and Veterans Code, Incentive points will be given to bidders who provide DVBE participation surpassing designated minimum thresholds. For contract award purposes only, the State shall add Incentive points to Proposals that include California certified DVBE participation as identified on the Bidder Declaration GSPD-05-105 located at:

[www.documents.dgs.ca.gov/pd/delegations/GSPD105.pdf](http://www.documents.dgs.ca.gov/pd/delegations/GSPD105.pdf).

The Incentive amount for awards is based on the amount of DVBE participation obtained. The Incentive is only given to those bidders who are responsive to the DVBE Program Requirement and propose DVBE participation in the resulting contract. Table IX.24 – DVBE Point Scale illustrates the point allocation.

**Table IX.24 DVBE Point Scale**

Confirmed DVBE participation of:	DVBE Incentive:
5% or more	5% of 20,000 = 1000 points
4% up to 4.99%	4% of 20,000 = 800 points
3% up to 3.99%	3% of 20,000 = 600 points

The DVBE incentive percentage is applied to points earned by the Bidder. For this RFP, the total available is twenty thousand (20,000) DVBE incentive points.

Table IX.25 Example of Bidder Points with Small Business and DVBE Incentives and Preferences Applied illustrates how DVBE incentives and Small Business Preferences would be applied. In this example, Bidder B initially has the most points (16,530 total points). Bidder C is a California certified small business. Bidder D is a non-small business that is using California certified small businesses to perform work that amounts to twenty-five percent (25%) of the value of the contract. As a small business, Bidder C earns the five percent (5%) small business preference, which is applied to the total "earned" points (accumulated technical, non-technical and cost points, prior to incentives and preferences). As a large business using California certified small businesses to perform work that amounts to twenty-five percent (25%) of the value of the contract, Bidder D earns the five percent (5%) small business preference which is applied to the total "earned" points also. Bidder D earns one thousand (1000) DVBE incentive points.

In this example, Bidder D would appear to receive the award, but the law states that a California certified small business cannot be displaced by a large business, which receives preference points. Therefore, when you remove the small business preference points from, Bidder D, Bidder C, has the most points and will receive the award.

**Table IX.25** - Example of Bidder Points with Small Business and DVBE Incentives and Preferences Applied illustrates how DVBE incentives and Small Business Preferences would be applied. In this example, Bidder B initially has the most points (16,530 total points). Bidder C is a California certified small business. Bidder D is a non-small business that is using California certified small businesses to perform work that amounts to twenty-five percent (25%) of the value of the contract. As a small business, Bidder C earns the five percent (5%) small business preference, which is applied to the total "earned" points (accumulated technical, non-technical and cost points, prior to incentives and preferences). As a large business using California certified small businesses to perform work that amounts to twenty-five percent (25%) of the value of the contract, Bidder D earns the five percent (5%) small business preference which is applied to the total "earned" points also. Bidder D earns one thousand (1000) DVBE incentive points.

**Table IX.25 Example of Bidder Points with Small Business and DVBE Incentives and Preferences Applied**

#	Scoring Step	Bidder A	Bidder B	Bidder C	Bidder D
	Meets Small Business Requirement?	No	No	Yes	Yes
1	Technical Requirements Score	0	11295	10055	11455
2	Cost Points	0	5235	3590	3555
3	Non-Technical Points (none for this procurement)	0	0	0	0
4	The Bid that has the Total Combined Highest Cost and Non-Technical Points (row 3 + row 4)		X		
5	Total Points Score before any Incentives (row 2 + row 3 + row 4)	0	16,530	13,645	15,010
6	Small Business Preference ((highest points from row 7 that is not a small business) * 5%)	0	0	(16,530* 0.05) = 826.5	(16,530* 0.05) = 826.5
7	Total Points with Small Business Preference (row 6 + row 7)	0	16,530	14,471.5	15,836.5
8	DVBE Incentive	0	0	0	5%
9	DVBE Incentive Points from Table IX.27	0	0	0	1000
10	Total Points for Evaluation Purposes Only (row 8 + row 10)	0	16,530	14,471.5	16,836.5

In the example, Bidder D would have the highest number of points (16,836.5) and would receive the award.

**4. Winning Proposal Summary**

The evaluation process will determine which responsive Bidder Proposal has the highest combined score for the technical and administrative scored requirement, the cost and the preferences.

**H. CONTRACT AWARD**

The Contract award, if any, will be made to the responsive and responsible Bidder that best meets the State's needs.

## EXHIBIT IX.1 – PRELIMINARY REVIEW FORM

The response package includes the following:

EXHIBIT IX.1 – PRELIMINARY REVIEW FORM	
<b>Bidder Name:</b>	
Received ten (10) copies of Volumes I and IV	Yes <input type="checkbox"/> No <input type="checkbox"/>
Received ten (10) copies of Volumes II and III (Volume III validated at cost opening)	Yes <input type="checkbox"/> No <input type="checkbox"/>
Received one (1) CD-ROM versions of Volumes I, II, and III (Vol. III validated at cost opening)	Yes <input type="checkbox"/> No <input type="checkbox"/>
Received by time and date specified in RFP	Yes <input type="checkbox"/> No <input type="checkbox"/>
One (1) complete set of all volumes containing original signatures marked " <b>Master Copy</b> "	Yes <input type="checkbox"/> No <input type="checkbox"/>
VOLUME I – RESPONSE TO REQUIREMENTS	
<b>Section 1: Cover Letter</b>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>• A statement to the effect that the Proposal is a firm's binding offer, good for 180 calendar days from Submission of Final Proposals due to DGS as set forth in Section I.F - Key Action Dates.</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>• A statement that the Bidder commits to meeting all requirements of the RFP.</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>• A statement indicating that the Bidder has available staff with the appropriate skills to complete performance under the Contract for all services and providing all deliverables as described in this RFP.</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>• A statement accepting full Prime Contractor responsibility for coordinating, controlling, and delivering all aspects of the Contract and any subcontractors on their team.</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>Section 2: Executive Summary</b>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>Section 3: Response to the Administrative Requirements (Section V)</b>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>• Signed Confidentiality Statement for Bidder Firm (Mandatory)* (Requirement A1) *If not previously received as tracked by DGS Procurement Analyst, signed Exhibit V.1 (<b>Confidentiality Statement for the Bidder Firm</b>).</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>• General Liability Insurance Certificate (Mandatory) (Requirement A2) Statement indicating Bidder agrees to provide the required general liability insurance</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>• Workers Compensation Liability Insurance Certificate (Mandatory) (Requirement A3) <b>Completed Exhibit V.3 (Workers' Compensation Insurance Certification)</b></li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>• Subcontractor List (Mandatory) (Requirement A6) <b>Exhibit V.2- Subcontractor List</b> Must be at least one, even if no subcontractors will be used (one form must so indicate)</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>• Letter of Credit Intent (Mandatory) (Requirement A7) Letter on letterhead from an FDIC-insured financial institution that it intends to issue a Letter of Credit to Bidder in the amount of 25% of the contract value --- all cost redacted</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>

<ul style="list-style-type: none"> <li>Financial Capacity/Responsibility (Mandatory) (Requirement A8) <b>Audited financial statements or SEC 10K filings (including a balance sheet) for each of the company's last three fiscal years</b> <b>Completed Exhibit V.8 - Bidder Affirmation of Financial Capacity</b> signed by someone in the Bidder firm with the authority to bind the firm. <b>(Required for Final Proposal submission, not Draft Proposal submission)</b></li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>California Certificate of Good Standing for Bidder and all qualifying Subcontractors (Requirement A15)</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>Fully executed copy of the Standard Form 204 – Payee Data Record for Bidder and all qualifying Subcontractors (Requirement A16)</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>Data to support that the solution proposed meets the Productive Use requirements (Requirement A17)</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>DVBE Participation (Mandatory) (Requirement A18)</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>Small Business Preference Exhibit V.4 – Small Business Preference (Requirement A19)</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>Optional Preference Claims (if applicable) TACPA Preference Claimed? Yes <input type="checkbox"/> No <input type="checkbox"/> EZA Preference Claimed? Yes <input type="checkbox"/> No <input type="checkbox"/> LAMBRA Preference Claimed? Yes <input type="checkbox"/> No <input type="checkbox"/></li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>Section 4: Response to the Business and Technical Requirements RFP Section VI</b>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>Project Management Activities and Plans (Requirement P1 – P11)</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>Business Functional Requirements</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>Technical Requirements</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>Exhibits VI.1 – Project Management and Plan Requirements Response Matrix</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>Exhibits VI.3 – VoteCal Third Party Software Products List</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>Exhibits VI.4 – VoteCal Contractor Commercial Proprietary Software Products List</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>Exhibits VI.5 – VoteCal One-Time Hardware Products List</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>Exhibits VI.6 – VoteCal System Rack Diagram &amp; Description</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>Section 5: Response to the Project Team Experience Requirements RFP Section V</b>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>Bidder Qualifications and References (Mandatory) (Requirement A9) Mandatory 3 completed &amp; signed <b>Exhibit V.5.a</b> forms supplied</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<ul style="list-style-type: none"> <li>Bidder Qualifications and References (Desirable) (Requirement A10) Confirm a possible but not necessary 4th completed &amp; signed <b>Exhibit V.5.b</b> form supplied)</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>

<ul style="list-style-type: none"> <li>Proposed Staff Experience (Mandatory) (Requirement A11) Confirm six (6) completed <b>Exhibit V.6 (Staffing Experience Matrix)</b> and <b>Exhibit V.7 (Bidder Staff Resume)</b> forms received in response to this mandatory requirement. .One completed set for each of following six (6) Key Staff Roles:             <ol style="list-style-type: none"> <li>Project Manager</li> <li>Business Lead</li> <li>Technical Lead</li> <li>Development Lead</li> <li>Testing Lead</li> <li>Data Integration Lead</li> </ol> </li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
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**VOLUME I – RESPONSE TO REQUIREMENTS (CONTINUED)**

<ul style="list-style-type: none"> <li>Proposed Staff Experience (Desirable) (Requirement A12) Confirm that the <b>Exhibit V.6 (Staffing Experience Matrix)</b> and <b>Exhibit V.7 (Bidder Staff Resume)</b> forms received (for requirement A11, above) for the following Key Staff roles specifying the requisite desirable requirements are met: Project Manager, Business Lead, Technical Lead and Development Lead.</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
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<ul style="list-style-type: none"> <li>Proposed Project Organization (Mandatory) (Requirement A20) The Bidder’s Project Staffing Overview includes both a diagram and a high-level narrative description of the project team organization. The narrative must include a description of proposed key staff’s roles, responsibilities, functional activities, proposed time each proposed staff will be devoted to the project, the specific deliverables to which each key staff will contribute and other required information.</li> </ul>	Yes <input type="checkbox"/> No <input type="checkbox"/>
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**VOLUME II – COMPLETED CONTRACT**

This volume must contain a completed contract. Submission of a contract with SOS unapproved modifications may cause the Final Proposal to be deemed non-responsive.	Yes <input type="checkbox"/> No <input type="checkbox"/>
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**VOLUME III – COST DATA**

Cost Proposal is submitted in a separate and sealed envelope.	Yes <input type="checkbox"/> No <input type="checkbox"/>
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**VOLUME IV – LITERATURE**

This volume will contain all technical and other reference literature necessary to support the responses to the requirements of this RFP (i.e., product “glossy” brochures, equipment technical specification brochures, technical or user manuals that may be advertised in response to the requirements, and other advertising materials). Literature must be tabbed, page numbered, indexed, and properly annotated so SOS can readily verify compliance with the stated requirements. <u>Any references to cost figures in the literature must be replaced with “XXXX”.</u>	Yes <input type="checkbox"/> No <input type="checkbox"/>
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COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
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**Exhibit IX.2 – Bidder Reference Form –  
Client Telephone Reference Questionnaire**

Bidder Reference Form (Requirements A9 and A10)		
<b>Bidder Name:</b>	<b>Firm/Sub-Contractor Name:</b>	
Scheduled date and time of attempted contact(s):	Contact #1 Contact #2 Contact #3	
Time of contact interview:	Start:	End Time:
<b>Ratings on Indicators of Project Success</b>		
<i>On a scale of 0 to 10 (where 10=Very Satisfied, 5 = Satisfied, 0 = Not Satisfied), select a number that best describes your level of satisfaction on the following topics. You may select any number between 0 and 10, inclusive.</i>		
	<b>Points</b>	<b>Comments</b>
1. How satisfied were you with the business subject matter expertise of the firm's implementation team?		
2. How satisfied were you with the technical expertise of the firm's implementation team?		
3. How satisfied were you with the firm's responsiveness to your organization's needs and concerns?		
4. How satisfied were you with the firm's management of project schedule and scope?		
5. How accurate and effective were the firm's processes for managing risks, issues, and changes?		
6. How effective was the firm's management of communications, both with internal stakeholders and external stakeholders?		
7. How effective was the firm's management of product quality; for example, management of product testing and quality assurance processes?		
8. How satisfied were you with the firm's overall implementation and deployment approach?		
9. How satisfied are you with overall system usability, including features and help functions?		
10. How well does the system meet your performance requirements; for example, requirements concerning responsiveness and batch processing windows?		
11. How satisfied are you with the reliability of the system; for example, system availability and frequency of unscheduled outages?		
12. How satisfied are you with the firm's systems and operations documentation?		

**Bidder Reference Form (Requirements A9 and A10)**

<b>Bidder Name:</b>	<b>Firm/Sub-Contractor Name:</b>	
13. How satisfied are you with the timeliness and effectiveness of product service and support provided by the firm; for example, responses to questions, problem resolution, and bug fixes?		
14. How satisfied are you with the ability to easily adapt the delivered system to changing business requirements?		

**Evaluation of Overall Success**

**1. Schedule Performance**

Choose the one option that best describes the actual completion of the Contractor's work on the project, relative to the scheduled completion date:

- Completed early, on time, or late by less than 25%
- Completed late by at least 25% but less than 50%
- Completed late by 50% or more

If the project was late by 25% or more, which of the following 3 options best describes who was responsible for late completion? (choose ONE)

- Contractor Firm only     Customer only     Both Contractor Firm and Customer

**2. Cost Performance**

Choose the one option that best describes the actual cost of the Contractor's work on the project, relative to the approved budget:

- Completed within or under budget, or over budget by less than 25%
- Completed over budget by at least 25% but less than 50%
- Completed over budget by 50% or more

If the project was over budget by 25% or more, which of the following 3 options best describes who was responsible for exceeding the budget? (choose ONE)

- Contractor Firm only     Customer only     Both Contractor Firm and Customer

**3. Achievement of Project Requirements**

Choose the ONE option that best describes the extent to which the delivered system met goals and requirements:

- System fully met or exceeded all business and technical requirements
- System met all critical business and technical requirements
- System did not meet all critical business and technical requirements

If the system did not fully meet or exceed all requirements, which of the following 3 options best who was responsible for deviations? (choose ONE)

- Contractor Firm only     Customer only     Both Contractor Firm and Customer

**Bidder Reference Form (Requirements A9 and A10)**

**Bidder Name:**

**Firm/Sub-Contractor Name:**

**4. System Deployment**

Choose the ONE option that best describes the extent to which actual system deployment met your organization's expectations:

- System deployment fully met or exceeded all expectations related to schedule, scope and resources
- System deployment met all critical expectations related to schedule, scope and resources
- System deployment did not meet all critical expectations related to schedule, scope and resources

If deployment did not fully meet all expectations, which of the following 3 options best describes who was responsible deviations from expectations? (choose ONE)

- Contractor Firm only
- Customer only
- Both Contractor Firm and Customer

**5. Deployed System Quality**

Check the ONE option that best describes the quality of the deployed system. For the purposes of this question, "deployed system" means the system in full production use or in a pilot phase in which at least some user communities are using it in a production mode. A "workaround" is defined as a policy, procedural and/or technical action that is external to the system and undertaken to address a system bug or error on either a temporary or a long-term basis.

- There were only cosmetic deficiencies or minor deficiencies that did not impact system functionality, and each deficiency was corrected or could be corrected by a system fix.
- There were minor deficiencies that did not impact the system's critical business or technical functionality, and each deficiency was corrected or could be corrected by a system fix.
- There were significant deficiencies that impacted critical business and/or technical functionality, and each significant deficiency was corrected or could be corrected by a system fix.
- There were significant deficiencies that impacted critical business and/or technical functionality, and at least one of these significant deficiencies was addressed or must be addressed by a workaround (a system fix was or would not be feasible).
- There were significant deficiencies that impacted critical business and/or technical functionality, and at least one of these significant deficiencies could not be addressed by either a system fix or a workaround.

**Comments:**

**Exhibit IX.3 – Reference Check Questionnaire for Proposed Project Manager**

Project Manager Reference Check Form	
<b>Bidder Name:</b>	<b>Project Mgr Name:</b>
<b>General Project Profile of Reference</b>	
Contact Name:	
Title:	
City, State, Zip:	
Phone:	
Scheduled date and time of attempted contact(s):	Contact #1 Contact #2 Contact #3
Time of contact interview:	Start: _____ End Time: _____
Was the total one-time cost for this project over \$20 million?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Was the Client for this project an agency of the State of California?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Project Role</b>	
What was this person's role on the Project	
Indicate the Start and End dates of that role	<b>Start Date:</b> <b>End Date:</b>
Using the definitions included in Exhibit V.6 Staffing Experience Matrix and Instructions, indicate whether this person worked full-time or half-time on the Project.	<input type="checkbox"/> Full-time <input type="checkbox"/> Half-time
The VoteCal evaluation team will verify the specific experience qualifications and dates for each qualification on the submitted Exhibit V.6 Staffing Experience Matrix. In the right-hand cell, they will note any area in which reference's report of existence or duration of experience for this project differs from submitted Exhibit V.6 (keeping in mind the calculations required to determine Full-time Month Equivalents as defined in Exhibit V.6).	<b>Differences from Exhibit V.6:</b>
<b>On a Scale of 0-5 (5 being the highest &amp; 0 being the lowest score or "not applicable"), rate the following:</b>	<b>Rating</b> <b>Comments</b>
<b>Functional Performance</b>	
• Project Management Plan preparation	
• Project Schedule Management	

<b>Project Manager Reference Check Form</b>		
<b>Bidder Name:</b>	<b>Project Mgr Name:</b>	
• Project Reporting		
• Project Budget and cost control		
• Risk & Issue Management		
• Deliverables Management		
• Quality Assurance		
• Change Control Process		
• System Documentation		
• Design Cycle		
• Development Cycle		
• Testing & Implementation Cycle		
• Product support and help desk functions		
• Training		
• Data conversion/integration		
<b>General Ability to Manage a Project</b>		
Rate the PM's success in managing and controlling project scope		
Rate the PM's success in controlling project costs		
Rate the PM's success in controlling the project schedule		
Rate the likelihood you would hire this person in this capacity for future projects		
<b>Personal Management Skills</b>		
Rate the extent to which the PM demonstrated personal management skills in the following areas:		
• Written Communications		

**Project Manager Reference Check Form**

<b>Bidder Name:</b>	<b>Project Mgr Name:</b>	
• Verbal communications		
• Meeting planning & facilitation		
• Organization		
• Customer service and responsiveness		
• Leadership & personnel management		
• Follow through		
Other comments/questions		
Total Points for PM Reference Check		

**Exhibit IX.4 – Reference Check Questionnaire for Proposed Staff**

Proposed Staff Reference Check Form		
<b>Bidder Name:</b>	<b>Team Member Name:</b>	
<b>General Project Profile of Reference</b>		
Contact Name:		
Title:		
City, State, Zip:		
Phone:		
Scheduled date and time of attempted contact(s):	Contact #1 Contact #2 Contact #3	
Time of contact interview:	Start:	End Time:
<b>Project Role</b>		
What was this person's role on the Project? (Function? In a lead position?)		
Was the one-time cost for this project greater than \$25 million?	___ Yes     ___ No	
Indicate the Start and End dates of that role	<b>Start:</b>	<b>End:</b>
Using the definitions included in Exhibit V.6 Staffing Experience Matrix and Instructions, indicate whether this person worked full-time or half-time on the Project.	___ Full-time   ___ Half-time	
The VoteCal evaluation team will verify the specific experience qualifications and dates for each qualification on the submitted Exhibit V.6 Staffing Experience Matrix. In the right-hand cell, they will note any area in which reference's report of existence or duration of experience for this project differs from submitted Exhibit V.6 (keeping in mind the calculations required to determine Full-time Month Equivalent as defined in Exhibit V.6).	<b>Differences from Exhibit V.6:</b>	
<b>On a Scale of 1-5 (5 being the highest &amp; 1 being the lowest score), rate the following:</b>	<b>Rating</b>	<b>Comments</b>
Rate the extent to which the person demonstrated skills in the following areas:		
<ul style="list-style-type: none"> <li>• Technical skills demonstrated for the role assigned</li> </ul>		

**Proposed Staff Reference Check Form**

• Performance (timeliness, quality, completeness) for the role assigned		
• Written & Verbal Communications		
• Organization		
• Customer service and responsiveness		
• Leadership & supervisory skills		
• Follow-through		
• The likelihood you would hire this person in this capacity for future projects		

Other comments/questions

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## ATTACHMENT 1 – STATEMENT OF WORK

### 1. General

- (a) This Statement of Work (SOW) defines the tasks needed to implement and support the Secretary of State (SOS or State) Statewide Voter Registration System Project (VoteCal); it also establishes responsibilities for completing these tasks. The Contractor is responsible for performing all tasks including without limitation producing all Deliverables, and providing all Services described in this SOW and its Exhibits in the manner and according to the Specifications and the schedules and dependencies stated in the Project Management Plan (PMP) and Integrated Project Schedule (IPS) (as defined below) that have received Acceptance from SOS. The SOS team is responsible for providing information, data, documentation, and test data to facilitate the Contractor's performing its tasks, including without limitation producing Deliverables and providing Services, and to provide such additional support as specifically put forth in this SOW.
- (b) The Contractor Deliverables identified for this fixed price Contract are described in Attachment 1, Exhibit 2 - Tasks and Deliverables.
- (c) For additional work, which is not foreseen at the time this Contract is executed, Work Authorizations (Exhibit I) will define and authorize such work pursuant to Section 7 of this SOW. A Work Authorization shall not result in a purchase order for purposes of Attachment 2, Provision 26 – Limitation of Liability (i.e., Work Authorizations result in contract amendments which are then included in the Purchase Price).
- (d) All Contractor Commercial Proprietary Software, other Pre-Existing Materials incorporated into VoteCal System Software, and Third-Party Software components included in the VoteCal System must be fully supported by their licensors in accordance with maintenance agreement terms of such licensors at the time this Agreement completes at the end of Phase VII – First Year Operations and Close-Out (see the description of Deliverable VII.4, Complete Contract Implementation Close-out in Attachment 1, Exhibit 2, Section E – First Year Operations and Close-out). Further, the Contractor is responsible for ensuring that the licensor provides such support from the time the Contract is awarded to the Contractor throughout the term that the Contractor provides Maintenance and Operations Services. Any Software upgrades or other changes necessary to continue receiving the licensor's maintenance services for the Contractor Commercial Proprietary Software and Third-Party Software will be made by the Contractor without additional cost to SOS.
- (e) All Software development tools proposed for use in developing and implementing the VoteCal System must be fully supported by their manufacturer in accordance with the maintenance agreement terms of such manufacturer at the end of Phase VII – First Year Operations and Close-out. Further, the Contractor is responsible for ensuring that the manufacturer provides such support from the time the Contract is awarded to the Contractor throughout the term that the Contractor provides Maintenance and Operations Services. Any Software upgrades or other changes necessary to continue receiving the manufacturer's maintenance services for such Software development tools will be made by the Contractor without additional cost to SOS.
- (f) All VoteCal System Hardware components must be fully supported by their manufacturer at the end of Phase VII – First Year Operations and Close-out. Further, the Contractor is responsible for ensuring that the manufacturer provides such support from the time the Contract is awarded to the Contractor throughout Phase VII – First Year Operations and Close-out. Any Hardware maintenance or other changes necessary to continue receiving the manufacturer's maintenance services for such Hardware will be made by the Contractor without additional cost to SOS.

2. Term of Contract

The term of this Contract shall begin on the Contract Award Date and continue through Phase VII – First Year Operations and Close-out, which includes the Warranty Period that shall be concurrent with one (1) year of Maintenance and Operations Services, subject to earlier termination as provided in the Contract. Additionally, SOS may execute five (5) one-year options for Hardware Maintenance and Operations and one (1) five-year option for Software Maintenance and Operations. The State may, at its sole option, choose to exercise the extensions to the Maintenance and Operations Services for the Services described in Attachment 1, Exhibit 4 – Hardware, Maintenance and Operations and Help Desk Service Levels and Attachment 1, Exhibit 5 – Software Maintenance and Operations Services and Help Desk Service Levels for the VoteCal System and at the price identified in Cost Table VII.5 - VoteCal System 5-Year Hardware Maintenance and Operations Costs and Cost Table VII.6 - VoteCal System 5-Year Software Maintenance and Operations Costs.

3. Contractor's Responsibilities

- (a) Contractor shall make available personnel as listed on their Final Proposal Staffing Plan for the purpose of providing the services required to accomplish the tasks prescribed in the Attachment 1, Exhibit 2 – Tasks and Deliverables and further defined Project Management Plan (PMP) and Integrated Project Schedule (IPS) (as defined below). Each Contractor Deliverable will be considered complete only after formal review and Acceptance in writing by the SOS VoteCal Project Director that the Deliverable has been delivered in accordance with the requirements set forth in the SOW (see Section 10 - Inspection, Acceptance and Rejection of Contractor Deliverables). Each Contractor task, including but not limited to the Services will be considered complete only after formal review and confirmation in writing by the SOS VoteCal Project Director that the task has been performed as required in the Contract.
- (b) The fixed price listed in this Contract shall provide for all Contractor tasks, including but not limited to the Deliverables, as defined in Attachment 1, Exhibit 2 – Tasks and Deliverables and as more fully specified in:
1. The Project Management Plan (PMP) Deliverable, which defines the technical and managerial Project functions, processes, activities, tasks, and schedules necessary to satisfy the Project requirements and produce required Contractor Deliverables and which must receive SOS's Acceptance to be effective. Contractor's PMP Deliverable shall be developed based upon the Final Proposal's PMP and shall be submitted for SOS review and Acceptance within 30 calendar days of the Contract Award Date.
  2. The Integrated Project Schedule (IPS), which specifies the planned tasks, milestones, estimated completion dates, resource assignments, and dependencies between tasks and which is effective only after it receives SOS Acceptance. In collaboration with the VoteCal Project Manager (or designees), the Contractor develops the IPS based upon the draft IPS in Final Proposal (included in the Final Proposal's Schedule Management Plan) within ninety (90) calendar days of the Contract Award Date. The updated and Accepted IPS identifies major activities the Contractor must undertake to complete its Deliverables and to deliver required Services in a timely manner. The IPS also identifies all activities that other contractors and SOS staff must perform in order for the Contractor to complete its required activities and Deliverables as described in this Attachment 1 and in Attachment 1, Exhibit 2 – Tasks and Deliverables. While the IPS is initially included in the Final Proposal's Schedule Management Plan, it is delivered and maintained as a separate Deliverable independent of the Schedule Management Plan for the term of the Contract, and any subsequently revised and accepted IPS that is within the scope of the Contract, an approved Work Authorization, or an authorized Change

Order shall be deemed incorporated herein without the necessity of a Contract amendment.

- (c) If the Contractor delays in project performance in accordance with the agreed upon schedule or otherwise materially fails to perform under this Contract, the SOS may terminate the Contract for cause pursuant to Section 23 of Attachment 2 – IT General Provisions Termination for Default.
- (d) The Contractor shall cooperate with any third-party contracted by the State to provide additional project support services.
- (e) The Contractor shall package (draft and final copies) and deliver paper copies of all project documentation, Deliverables, and other materials for deposit into the Project Library.
- (f) The Contractor shall work directly with the State to help State determine changes that will be required to existing State and other systems to support the Project and operate with the System in accordance with applicable Specifications. If SOS subsequently decides to request that the Contractor implement such changes for one or more of these existing systems that is not included within the Contractor's scope of work defined in this Contract and detailed in Section VI - Project Management, Business and Technical Requirements, SOS would pursue such unanticipated work according to Section 7 – Unanticipated Tasks and Section 8 – Change Control Procedures.
- (g) The Contractor shall store all non-Software project artifacts in the project's Microsoft SharePoint project library or other Project library repositories as specified by the State.
- (h) The services provided by Contractor to accomplish the SOW shall be under the control, management, and supervision of Contractor, including Services provided by any subcontractors and off-site Contractor staff (if applicable).
- (i) Conflict of Interest. During the performance of this Contract, should the Contractor become aware of a financial conflict of interest that may foreseeably allow an individual or organization involved in this Contract to materially benefit from the State's adoption of an action(s) recommended as a result of this Contract, the Contractor must inform the SOS VoteCal Project Director in writing within 10 State business days. If, in the SOS VoteCal Project Director's judgment, the financial interest will jeopardize the objectivity of the recommendations, the SOS shall have the option of terminating the Contract.

Failure to disclose a relevant financial interest on the part of the Contractor will be deemed grounds for termination of the Contract with all associated costs to be borne by the Contractor and, in addition, the Contractor may be excluded from participating in the State's bid processes for a period of up to 360 calendar days in accordance with Public Contract Code section 12102(j).

4. Contractor Personnel

- (a) Contractor shall make available personnel as specified in its Final Proposal for the purpose of performing tasks, including providing the Services, required in Attachment 1, Exhibit 2 – Tasks and Deliverables and further defined in the SOS-approved PMP and IPS.
- (b) SOS requires that Contractor analysis, design, development, testing, and training development activities be performed exclusively within Sacramento County except as set forth below. The staff filling the Contractor's six (6) Key Staff Roles, which include the Contractor's Project Manager, Business Lead, Technical Lead, Development Lead, Testing Lead, and Data Integration Lead, must work exclusively at the SOS' Sacramento office. No tasks shall be performed offshore. If Contractor identifies potential tasks that Contractor staff filling any of the Key Staff Roles could accomplish off-site and/or tasks

that any Contractor staff could accomplish working outside Sacramento County without adversely affecting the project, the SOS VoteCal Project Director or designee may grant exceptions based on Contractor's written request and justification, submitted in writing to the SOS VoteCal Project Director at least ten (10) State business days prior to the date that the Contractor proposes such off-site work begin and contingent on SOS VoteCal Project Director written approval of the request before work begins.

Prior to the State approving such an exception for Contractor staff filling any of the six (6) Key Staff Roles to work off-site, the Contractor must describe to the SOS VoteCal Project Director how effective and timely communications with off-site staff will be maintained. If the State approves work outside of Sacramento County, the remote access described in Section 6.j in Attachment 1 – Statement of Work will be utilized to support such work.

Should the SOS VoteCal Project Director approve Contractor staff filling any of the Key Staff Roles to work off-site within Sacramento County and/or any Contractor staff to work off-site outside of Sacramento County, the Contractor must make these off-site staff available to work at SOS headquarters at SOS's request and at Contractor's expense.

- (c) The Contractor must commit to the continuing availability and participation of the staff filling six (6) Key Staff Roles, to the extent of the Contractor's control, for the duration of the Project or for their proposed period of involvement (as defined in the SOS-approved PMP, IPS and Final Proposal).
- (d) If staff designated to fill any one of the six (6) Key Staff roles submitted by the Contractor for the Contract is unable to participate in this Contract at any time, they must be replaced with comparably qualified staff who meets the minimum RFP qualifications within twenty-eight (28) State business days. The Contractor may request changes to staff designated to fill any one of the six (6) Key Staff roles (either replacement or additional staff) by submitting a written request to the SOS VoteCal Project Director. The request must include customer references and a current resume for each replacement staff. The SOS may, at its sole discretion, request additional information to substantiate whether the replacement staff is in compliance with the RFP requirements. Within ten (10) State business days after receipt of the request or additional information, the SOS VoteCal Project Director will respond, in writing, indicating approval or rejection of the proposed replacement staff. The SOS VoteCal Project Director must approve replacement staff designated to fill any one of the six (6) Key Staff roles in writing before they begin work on the project.
- (e) If any of the proposed replacement staff designated to fill any one of the six (6) Key Staff roles is rejected, the Contractor shall work diligently to promptly provide a qualified replacement to SOS for approval within 20 State business days of the rejection.
- (f) SOS will notify the Contractor concerning any issues and/or concerns SOS has regarding the poor or otherwise unsatisfactory performance of any Contractor staff working on-site at SOS and the Contractor will have ten (10) State business days in which to remedy SOS' issues and/or concerns. If Contractor has not remedied SOS issues and/or concerns regarding the Contractor staff within this period of time, The the SOS reserves the right in its sole discretion to require the Contractor to replace any such assigned staff working on-site at SOS at any time thereafter, subject to compliance with applicable law. The SOS will notify the Contractor in writing when exercising that right. The Contractor, no later than thirty-twenty (3020) State business days of such notification, shall provide a replacement candidate, that meets or exceeds the requirement as defined in this RFP.

- (g) Except in the case of a leave of absence, sickness, death, termination or resignation of employment or association, or other circumstances outside the reasonable control of Contractor, the individuals designated to fill any of the six (6) Key Staff roles in Contractor's Final Proposal shall not be removed by Contractor from performing their assigned tasks during the period of performance for each such individual as described in Contractor's Final Proposal without the prior written approval of State. SOS recognizes that a resignation or other events may cause Contractor Project team members to be unavailable. The SOS VoteCal Project Director reserves the right to approve or deny all of the Contractor's proposed replacement project team members designated to fill any one of the six (6) Key Staff roles. Any of these proposed replacement staff must have the same or higher-level skills and experience as those requirements stated in the RFP. Contractor must request approval of replacement staff designated to fill any one of the six (6) Key Staff roles from the SOS VoteCal Project Director in writing at least ten (10) State business days before they are scheduled to begin work on the project and such replacement staff shall not start on the Project without the SOS VoteCal Project Director's written approval. In addition, the SOS reserves the right to disapprove any additional staff intended to work on-site SOS before they start on the project (independent of whether such Contractor staff fill one of the six (6) Key Staff roles).
- (h) The State recognizes that changes to Subcontractor(s) may be necessary and in the best interests of the State; however, advance notice of a contemplated change and the reasons for such change must be made to the State no less than seven (7) State business days prior to the existing Subcontractor's termination. If this should occur, the Contractor should be aware that the SOS VoteCal Project Director or designee must approve any changes to the Subcontractor(s) prior to the termination of the existing Subcontractor(s) and hire of the new Subcontractor(s) and such approval will not be unreasonably withheld or delayed. This also includes any changes made between submittal of the Final Proposal and Contract Award Date. All replacement Subcontractor(s) are subject to a corporate reference check. The corporate reference check must produce a good reference of the Subcontractor's successful performance operating in a role(s) comparable to the role(s) the Subcontractor is intended to fill under this Contract. The State will not compensate the Contractor for any of the Contractor's time or effort to educate or otherwise make the new Subcontractor(s) ready to begin work on the Contract.
- (i) The Contractor must designate one Project representative to oversee the management and requirements of the Contract. The Contractor's Project representative will work directly with the SOS VoteCal Project Director.
- (j) The Contractor must provide staff to support required project roles, work activities, and management of their respective teams based on this SOW.

5. Work Standards

Contractor staff and Subcontractors shall adhere to the following work standards for the Project:

- (a) Contractor will use Microsoft Office 2003 and Microsoft Project 2007 or such other standard programs designated by the SOS. Contractor shall upgrade commercial Software versions at no cost to the State to remain compatible with the SOS' systems.
- (b) Contractor will comply with SOS security restrictions related to the access of the SOS facilities. SOS must agree to any exceptions to the established practices in writing.
- (c) Contractor will maintain the IPS in MS Project 2007 or an automated tool accepted in writing by SOS.
- (d) Contractor will manage all Project documentation in automated tools acceptable to SOS.

- (e) All required Project records and Documentation must be maintained in the SOS Project repository in electronic format (such as MS Word, MS Excel or editable PDF). If the electronic version of a Contractor's Project record or Documentation Work Product is created by or stored in a product or tool that SOS does not own or have access to, then, either: i) SOS and the Contractor will identify an alternate electronic format that is acceptable to both parties that will be used by the Contractor to store an electronic copy of the particular Project record or Documentation Work Product; or, ii) if an alternative electronic format cannot be identified or agreed to, the Contractor will maintain a paper copy of the Project record or Documentation Work Product in the SOS Project Library.
- (f) The Contractor must comply with project management industry standards (e.g., PMBOK) and IEEE when designated in writing by the SOS.

6. Responsibilities of SOS

- (a) The SOS VoteCal Project Director will oversee and manage this Contract. The SOS VoteCal Project Director will work with the Contractor to facilitate successful completion of Contractor's obligations, will review and have authority to provide Acceptance of Deliverables in accordance with Contract terms, will accept staffing changes, and will work to resolve Contract issues.
- (b) The SOS VoteCal Project Director will be responsible for the overall management of the project Governance Structure that includes an Executive Steering Committee (ESC) and Project Management Office (PMO), and serves as the primary contact for each.
- (c) The SOS will maintain a comprehensive Project office to: provide SOS Project Managers to support the Project infrastructure to provide day-to-day project management for the SOS VoteCal Project; and to manage project operations, including Project staffing changes, budget/fiscal controls, Contract management, State reporting, and recruitment.
- (d) The SOS will be responsible for the delivery of Project communications.
- (e) The SOS will serve as the representative of the Project in meetings, presentations, and other contexts for the Project.
- (f) The SOS will provide knowledge of relevant State processes, policies, and regulations not related to voter registration.
- (g) The SOS will administer and maintain the Project library for deposit of Project Deliverables and other documents. The Project library will be comprised of both hard copy and electronic documents.
- (h) The State will continue to support its existing legacy systems as provided in the PMP.
- (i) For work performed at SOS premises, SOS shall provide the following work environment, after all onsite Contractor and subcontractor personnel agree in writing to SOS and State acceptable use policies.
  - 1. Up to six (6) contractor workstations and work space for up to 12 Contractor staff; and, access to printers, copiers, telephone, and desktop computers with approved SOS applications.
  - 2. Should Contractor wish to have more than six (6) workstations connected to the SOS network, Contractor will reimburse SOS for its acquisition and installation of additional workstations and Software.
- (j) For work performed remote of SOS premises:
  - 1. SOS will provide the Contractor access to the SOS Wide Area Network (WAN) by extending the network to include a Multi-Protocol Label Switch (MPLS) node (Verizon) to the Contractor's site. This will enable the Contractor to have remote access to the SOS VoteCal environments required in order for the Contractor to

support all phases of the VoteCal Project and as required for any subsequent contract extensions for optional years of Hardware and Software M&O support. SOS will control such Contractor remote access to the MPLS and the SOS environment. The Contractor will be restricted to accessing specific segments of the SOS network wholly dedicated to VoteCal design, development, test, pilot, and production activities. Such remote access will not include access to the SOS network file servers. The Contractor shall attest to its compliance with all State and SOS security requirements before such remote access will be established.

2. SOS will extend the SOS network to include MPLS nodes to a remote location for each of the three (3) Election Management System (EMS) vendors whose products operate within California counties (which will be remediated to work with the VoteCal system under separate contracts with SOS). The SOS network will be extended to these three (3) EMS vendor locations to enable remote access between those EMS vendor environments and SOS' VoteCal environment during the VoteCal Project's Testing Phase in order to facilitate integration and preliminary system testing of the remediated EMS and the VoteCal System within an EMS vendor Testing environment (as opposed to a County EMS environment). SOS will control such remote access to the MPLS and to the SOS environment. The EMS vendors will be restricted to accessing specific segments of the network that are wholly dedicated to the VoteCal Project's Test activities. Such remote access will not include access to the SOS file servers. As will also be stated in the separate contracts established between SOS and each of the three (3) EMS vendor representatives, the EMS vendors shall attest to their compliance with all State and SOS security requirements before such remote access will be established.
  3. The Contractor is responsible for providing the required WAN circuits and routers at each of the four (4) external locations provided remote access to the SOS network. SOS anticipates that the Contractor and EMS vendors will coordinate with SOS to manage the local routers in each of the four (4) remote locations.
  4. The SOS will not support the use of VPN access to its network.
- (k) SOS is responsible for providing required information, data, and documentation, in its current form, as specified in the Request for Proposal, the VoteCal Bidder's Library, and access to program staff to facilitate Contractor's performance of the tasks. The SOS VoteCal Project Director or designee shall provide additional assistance and services as specifically set forth in Attachment 1, Exhibit 2 - Tasks and Deliverables.
- (l) The SOS VoteCal Project Director (or designee) shall manage the performance and availability of SOS personnel under this SOW and is the sole individual to whom all official communications relative to this SOW will be addressed by Contractor.
- (m) At the end of Phase VII – First Year Operations and Close-out, SOS shall assume primary responsibility for maintaining and operating the VoteCal System without Contractor support unless the SOS exercises the optional maintenance and operations terms as described in Attachment 1, Section 2 – Term of Contract.

7. Unanticipated Tasks

- (a) The Contractor will include all Hardware (as specified in Exhibit VI.5 - VoteCal One-Time Hardware List) and Software necessary to provide the functionality and performance specified in the Specifications, where the Software may be comprised of custom-developed Software (VoteCal System Software), Third-Party Software (as specified in Exhibit VI.3 - VoteCal Third Party Software List) and Contractor Commercial Proprietary Software (as specified in Exhibit VI.4 – VoteCal Contractor Commercial Proprietary Software List). Any additional Hardware or Software components not included in the Proposal, but determined necessary or required to meet Contract requirements and

functionality and performance Specifications, will be acquired at the sole expense of the Contractor and will become the property of the SOS once delivered, installed, and after having received Acceptance. SOS will only reimburse the Contractor for any additional Hardware or Software components as are required to implement an approved change request, which will result in a Work Authorization, as provided below.

- (b) If additional work must be performed that was wholly unanticipated and was not identified in either the RFP or Contractor's Proposal, but which, in the opinion of the SOS, is necessary to the accomplishment of the general scope of work in the Contract, and the estimated cost of that work does not exceed the amount calculated and recorded in Line A6 in Cost Table VII.4 – VoteCal System Costs for Project Deliverables, Hardware, Third-Party and Contractor Commercial Proprietary Software and Unanticipated Tasks, the following procedures will be employed. Unanticipated tasks, if approved by SOS, will be authorized through Work Authorizations ~~and amendment to this Contract~~, as described in this Section 7.
- (c) For each item of unanticipated work, the VoteCal Change Control Process will be used (see Section 8 – Change Control Procedures). When the Change Control Request resulting from this process is approved by SOS, a Work Authorization will be prepared by the Contractor in accordance with the sample in Attachment 1, Exhibit I – Sample Work Authorization. All Contractor rates have been established by Contractor staff classification in Cost Table VII.6 - Contractor Staff Hourly Rates and shall apply to all Work Authorizations developed and approved under this Contract. Unless otherwise agreed by both parties in writing, the Contractor Work Authorization will specify a fixed price for the delivery and Acceptance of the change.
- (d) It is understood and agreed by both parties to this SOW that all of the Terms and Conditions of this SOW shall remain in force with the inclusion of any additional Work Authorization. Such Work Authorization shall in no way constitute an Agreement other than as provided pursuant to this SOW nor in any way amend any of the other provisions of this Contract.

~~(e)~~ Each Work Authorization shall be prepared in accordance with Attachment 1, Exhibit 1 – Sample Work Authorization ~~and~~-

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~~(f)(e)~~ The State shall execute a Contract amendment based on the Work Authorization that shall include, at a minimum:

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1. Complete description of the work to be performed
2. Schedule for the work to be performed
3. Contractor resource classifications that will be used to perform the work
4. Deliverables to be produced
5. The cost of the work to be performed to address the Work Authorization and whether the cost reflects a fixed price or an estimated number of hours (e.g., time and materials).

~~(f)~~ Upon agreement, both parties shall execute the Work Authorization.

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~~(f)(g)~~ If, while performing the work required to address a Work Authorization to be performed under this Contract and which was accepted as an estimated number of labor hours rather than a fixed price for the Deliverable, the Contractor determines that the required work cannot be completed within the estimated labor hours, Contractor will immediately notify SOS in writing about this determination and relay the Contractor's labor hours already expended to address the Work Authorization (if any) as of the time of notification and the Contractor's estimate of the additional labor hours and additional cost that will be required to complete the Work Authorization in full. Upon receipt of such notification, SOS may in its sole discretion elect to:

1. Authorize Contractor to expend the estimated additional labor hours in excess of the original estimate necessary to accomplish the Work Authorization; or,
2. Terminate the Work Authorization; or,
3. Alter the scope of the Work Authorization in order to define tasks that can be accomplished within the remaining estimated labor hours; or
4. Provide Acceptance for the work provided and set-off from the cost previously agreed upon for the work to the extent determined to be appropriate by the SOS.

The SOS shall notify the Contractor of its decision in writing within five (5) business days of receiving the written Notification from the Contractor.

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~~(g)~~(h) Contractor shall not initiate work effort for Work Authorizations until authorized in writing by SOS and the Work Authorization is included in an amendment to the Contract.

8. Change Control Procedures

Either the SOS or the Contractor may request changes to this SOW at any time. Because such changes could significantly affect the cost or other critical aspects of the work being performed, both the SOS and the Contractor must agree as to whether to accept each change request prior to implementation.

The following change control procedure will be used except as superseded by written mutual agreement in the SOS' Change Control Plan:

- A Change Request (CR) prepared pursuant to the Change Control Plan will be the vehicle for communicating change.
- A CR must describe: the requested change; the rationale for the change; and any anticipated effect the change will have on the schedule and budget.
- Resolution of open issues concerning the definition, submission, acceptance, rejection, or implementation of all CRs will occur via resolution process mutually selected by and agreeable to the SOS and the Contractor.

9. Problem Escalation

Should the Contractor Project Manager and the SOS VoteCal Project Director not be able to agree on a resolution to any particular issue, the Contractor and the SOS agree to raise the issue to the SOS Project Sponsor prior to the assertion of rights under the Contract's Dispute provisions in Attachment 2 - IT General Provisions Modified for the SOS VoteCal Project Only, Provision 41. The SOS Project Sponsor will decide on a resolution within ten (10) State business days of being made aware of the issue. The SOS may extend this timeline at its sole discretion. The SOS Project Sponsor will use whatever resources it deems necessary to seek a rapid and just resolution to an issue at the SOS Project Sponsor level. If resolution cannot be reached at the SOS Project Sponsor level within the time frame prescribed above, either party may assert its other rights and remedies as provided by the Contract.

10. Inspection, Acceptance and Rejection of Contractor Deliverables

The following provisions take precedence over Attachment 2 – IT General Provisions Modified for the SOS VoteCal Project Only, Provision 16 – Inspection, Acceptance and Rejection:

(a) Acceptance

1. Acceptance of the VoteCal System will be governed by this SOW. Acceptance of the VoteCal System shall be conditioned upon the description of VoteCal System Acceptance defined in Attachment 1 – SOW, Section 10(e).
2. All Deliverables shall be subject to SOS's Acceptance, including without limitation Deliverables provided pursuant to the Deliverables described in Attachment 1,

Exhibit 2 – Tasks and Deliverables, Work Authorizations, System Change Requests and Technical Service Requests.

~~3. SOS Acceptance of each Contractor Deliverable submitted for SOS review and Acceptance will be communicated exclusively through a formal written letter to the Contractor. No VoteCal Deliverable shall be considered Accepted unless SOS has provided such formal written Acceptance.~~

~~3.4.~~ At the SOS's request, Contractor shall provide a walk-through of a Deliverable prior to delivery or Acceptance thereof, notwithstanding the absence of a requirement as such in a DED.

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(b) Contractor Formal Transmittal of Deliverables

1. Contractor shall submit for review and approval a formal transmittal letter from Contractor's Project Manager addressed to the SOS VoteCal Project Director (or designee) for each Deliverable. The Deliverable must contain an Approval Page, which indicates the date submitted, to whom submitted, Deliverable author, and title of the Deliverable. The DED prepared for the specific Deliverable approval must be attached to the transmittal.

2. In submitting a Deliverable for State Acceptance, the Contractor represents that, to the best of its knowledge, it has performed the associated tasks in a manner which will, in concert with other tasks, conform to the relevant terms and conditions of the VoteCal Contract and conform to and meet applicable Acceptance Criteria. Each Deliverable submitted to the SOS VoteCal Project Director for review and Acceptance shall have a Deliverable Certification Cover Letter from the Contractor. The Deliverable Certification Cover Letter shall contain the following Certification: "I certify that this Deliverable has been prepared in accordance with the relevant terms and conditions of the VoteCal Contract and conforms to and meets its applicable Acceptance Criteria." The Deliverable Certification Cover Letter shall also contain a Certification that the Contractor has performed an internal quality assurance review of the Deliverable. Deliverables shall be signed as complete by a Contractor representative who is authorized to sign legal documents for the Contractor's organization.

(c) General Delivery and Review Process

1. Contractor shall provide SOS with the Deliverables ~~and Services~~ on or before the applicable delivery dates in the PMP and IPS, as mutually agreed upon in writing and described in this Contract. Contractor and SOS shall utilize the Specifications, the DEDs, the IPS, PMP, the RFP, the Proposal, the Deliverables for which SOS has previously granted Acceptance, Contractor's professional knowledge, and this Contract as the basis for establishing and mutually agreeing to the DED for a Deliverable.

2. Upon delivery of a Deliverable and receipt of the Deliverable Certification Cover Letter from Contractor, SOS will, with Contractor's assistance, perform Acceptance Tests on the Deliverable to determine whether the Deliverable conforms to its Acceptance Criteria.

~~3.~~ The SOS's testing time for Software Deliverables submitted for Acceptance shall be as documented in the DED, IPS, and PMP but will be ten (10) State business days if not so documented, without requiring SOS's concurrent review of multiple Deliverables unless otherwise agreed upon by the SOS in the DED, IPS or PMP.  
Further:

~~(i) However, the~~ testing time may, in the SOS's reasonable discretion, be extended on a day-to-day basis. ~~-If the testing time is extended:~~

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a. The SOS shall make every effort to notify Contractor of any and all Deficiencies reasonably discoverable by the SOS at the time of the extension.

b. On the sixth (6<sup>th</sup>) business day following the expiration of the SOS testing time period for the Software Deliverable, SOS shall initiate the Change Control process (Section 8, above) to evaluate the schedule and/or cost impact (if any) to the VoteCal project and the Contractor. The resulting changes to the IPS, if any, shall be a consideration in determining the appropriate compensation due to Contractor. SOS will revise the IPS included in the Contract to reflect the change in downstream dates accordingly.

(ii) When SOS completes testing of a Software Deliverable, The-the SOS shall notify Contractor in writing of Deficiencies that the SOS requires the Contractor to remedy, and the Contractor shall correct the Software Deliverable Deficiencies within five (5) State business days of receiving notice from the SOS. SOS may, at its discretion, allow a period longer than five (5) State business days in consideration of the scope of the change required to address the Software Deliverable Deficiencies.

3.4. SOS review time for document Deliverables submitted for Acceptance will be determined at the time the Deliverable DED is developed and will be based on the type and complexity of said Deliverable, and the times included in the preliminary IPS and PMP. SOS will require ten (10) State business days for review, comment and approval on a Deliverable unless otherwise agreed upon by the SOS in the IPS or PMP. Document deliverables that are more complex and/or over 100 pages may, in the SOS's discretion, require 20 State business days. Changes to these review times shall be discussed during the DED review period and mutually agreed upon by both parties.

5. The times for review and testing times assume that SOS will not conduct a concurrent review or test of multiple Deliverables submitted for Acceptance. If multiple Deliverables must be reviewed or tested concurrently, review and testing times will depend on the nature and complexity of the Deliverables, available SOS and Contractor resources, and the number of Deliverables concurrently being reviewed and tested. However, SOS will require ten (10) State business days or twenty (20) State business days depending upon Deliverable size and complexity as specified in Attachment 1 – SOW, Section 10(c)4 for each Deliverable's review or testing, unless the SOS and Contractor otherwise agree in the DED, IPS or PMP on the numbers of State business days that SOS will require to concurrently review and test multiple Deliverables. Reviewing and testing time may, in the SOS's reasonable discretion, be extended on a day-to-day basis to the extent that the SOS's review or test of a Deliverable or concurrent review of multiple Deliverables and review of corrections of Deficiencies in accordance with the Acceptance process and Acceptance test plan is longer than described in the DED, IPS, or PMP, or longer than the number of State business days specified in Attachment 1 – SOW Section 10(c)4, as applicable.

If the SOS requires a period of time that exceeds the number of days specified for the Deliverable in the corresponding DED or that exceeds the number of days specified for review/test of Deliverables when no such DED specification is established (see Section 10(c)4 in Attachment 1 – SOW) to complete its review or testing, then, on the sixth (6<sup>th</sup>) business day following the expiration of the review/test time period, SOS shall initiate the Change Control process (Section 8, above) to evaluate the schedule and/or cost impact (if any) to the VoteCal project and the Contractor. The resulting changes to the IPS, if any, shall be a consideration in

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~~determining the appropriate compensation due to Contractor. :- a) Contractor may use Section 14 – Contractor Claims Against the State (Attachment 1 – SOW) to request SOS to address the cost impacts of such a schedule extension upon the Contractor; and, b) SOS will revise the IPS included in the Contract to reflect the change in downstream dates accordingly.~~

4.6. For those deliverables submitted for Acceptance, the SOS shall notify Contractor of Deliverable Deficiencies that the SOS requires the Contractor to remedy prior to Acceptance, and the Contractor shall correct the Software Deliverable Deficiencies within five (5) State business days of receiving notice from the SOS except for any Deficiency or types of Deficiencies identified according to the provisions of Sections 10.c.8.v and 10.f.3 of Attachment 1 – Statement of Work (which would be subject to the remedies and timeframes specified in those provisions). SOS may, at its discretion, allow a period longer than five (5) State business days in consideration of the scope of the change required to address the Deliverable Deficiencies. The following applies to any Deliverable Deficiencies identified by SOS:

(i) **Reproducibility of Deliverable Deficiencies.**

Any Deliverable Deficiency detected and reported for a Software Deliverable during any of the VoteCal Project Phases and during any subsequent contract for Software maintenance and operations and support must be reproducible. A reproducible Deficiency is one that can be predictably re-created and/or demonstrated by a tester, a VoteCal system end-user and/or a VoteCal operator once the conditions required to create the Deficiency have been identified. SOS may request Contractor's staff to assist SOS VoteCal testing resources, end-user or operations staff to identify the conditions required in order to reproduce the Deficiency.

(ii) **Deliverable Deficiency Severity Levels.**

SOS will assign a Deliverable Deficiency Severity Level to each Deficiency identified during review of a VoteCal Deliverable submitted for SOS' review and Acceptance. The Deliverable Deficiency Severity Level assigned to a Deliverable Deficiency will be tied to the Acceptance Criteria specified in the Deliverable's corresponding Deliverable Expectation Document (DED) and will reflect the impact or significance of the Deficiency based on the Acceptance Criterion or Criteria that the Deliverable fails to meet due to the Deficiency.

As Attachment 1, Exhibit 3 – Sample Deliverable Expectation Document illustrates, each VoteCal Deliverable's DED will define applicable Acceptance Criteria. Depending upon the nature of the Deliverable, Acceptance Criteria will designate the previously specified requirements, objectives, standards, consistency with previous Deliverables and other criteria that SOS and the Contractor agree are appropriate to use in order to determine that the Deliverable under review is accurate, complete and appropriate. The DED for a Deliverable may also designate Acceptance Criteria that represent general Deliverable attributes that could be applicable to multiple VoteCal Deliverables (e.g., spelling, grammar, etc.).

After Contract Award and prior to the Contractor delivering a DED for any VoteCal Deliverable, SOS and the Contractor will mutually agree to a consistent set of Deliverable Deficiency Severity Levels and definitions based on Acceptance Criteria specified in DEDs.

5.7. When the Contractor completes correcting a Deliverable to address the documented Deficiencies that precluded SOS Acceptance of the Contractor's previous submission of the Deliverable and resubmits the corrected Deliverable for SOS review and Acceptance, the SOS review and/or testing time for the corrected and resubmitted Deliverable will be the same number of business days specified for review and/or testing for the Deliverable's initial submission. The State shall make

every effort to identify any and all Deficiencies reasonably discoverable by the State at the time the Contractor first submits a Deliverable for the State's review and Acceptance. However, aAny new or remaining Deficiencies SOS identifies during review of the corrected and resubmitted Deliverable shall be communicated to the Contractor in a written notification and all subsequent Contractor and SOS actions (and the number of State business days allowed for each) shall proceed in the same manner and with the same time constraints as specified for the Deliverable's initial submission. This process for a resubmitted and corrected Deliverable that has not yet been given Acceptance by SOS continues until either the Deliverable is subject to Section 10.f.d.1 in Attachment 1 – Statement of Work (below) or the SOS VoteCal Project Director communicates in writing that:

- (i) The corrected and resubmitted Deliverable corrects all previously documented Deficiencies, contains no new Deficiencies, and is given Acceptance by SOS; or,
- (ii) While potentially correcting some or all of the previously documented Deficiencies, the corrected and resubmitted Deliverable, contains the specified new or previously Documented Deficiency (or Deficiencies) which the Contractor is not required to resolve based on SOS determination that the Deficiency (or Deficiencies) has minimal impact on the project and, therefore, the Deliverable is given Acceptance by SOS.

6.8. The following describes what the State's Acceptance of a Deliverable shall be based upon and the exception process for, in very limited instances, those VoteCal Deliverables that may be eligible for Acceptance while acknowledged to contain an unresolved Deliverable Deficiency (or Deficiencies) meeting specific criteria.

- (i) The Deliverable will conform to and operate in accordance with all applicable Acceptance Criteria.
- (ii) Deliverable documents will be comprehensive in level of detail and quality as defined in this SOW and the applicable DED.
- (iii) Deliverable documents will be organized in a structured manner and be professional in presentation.
- (iv) Deliverable documents will be consistent in style and quality. This means if a Deliverable document is the composite work of many people within the Contractor's organization, the Contractor is responsible for making any edits necessary to ensure the Deliverable document delivered to SOS is of a consistent style and quality.
- (v) **Unresolved Deliverable Deficiencies in Accepted Deliverables.** SOS expects that each Deliverable submitted to the SOS VoteCal Project Director for review and Acceptance will be determined to be free of Deliverable Deficiencies as a condition of SOS providing Acceptance of the Deliverable. However, SOS recognizes that, for a very limited number of VoteCal Deliverables, SOS and the Contractor may mutually agree that the Deliverable may be eligible for SOS Acceptance despite containing as yet unresolved Deliverable Deficiency (or Deficiencies) which is agreed to have a low impact on the quality, accuracy, and completeness of the Deliverable and any subsequent Deliverables.

SOS and the Contractor may identify such a Deliverable at the time the Deliverable's DED is developed (as specified in Section 10.f.3 in Attachment 1- Statement of Work) and/or at the time the Deliverable is undergoing review and Acceptance by SOS. Whenever SOS and the Contractor agree that a

Deliverable is eligible for SOS Acceptance despite containing an as yet unresolved Deliverable Deficiency (or Deficiencies), the SOS and the Contractor shall specify in a written agreement:

a. The specific Deliverable Deficiency (or Deficiencies) or the Deliverable Deficiencies of a specified Severity Level that may remain unresolved at the time of Acceptance;

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b. The SOS and Contractor agreements regarding if and how the State's Acceptance of the Deliverable with such explicitly acknowledged unresolved Deficiencies impacts the State's review and Acceptance of subsequent Deliverables until such time that SOS VoteCal Project Director's review of the Contractor's later re-submission of the corrected Deliverable (see 10.c.8.v.c and 10.c.8.v.d, below) determines that either: i) the Contractor has satisfactorily resolved the Deficiencies that were unresolved at the time of Acceptance and no new Deficiencies have been introduced or found; or, ii) although the corrected Deliverable still contains one or more of the Deficiencies that were unresolved at the time the Deliverable was Accepted and/or new Deficiencies, in SOS' assessment, those remaining Deficiencies have such minimal project impact the Contractor is not required to resolve them.

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c. The number of business days following SOS Acceptance of the Deliverable that the Contractor must address the unresolved Deficiencies in the Deliverable which has received Acceptance and re-submit the corrected Deliverable to the SOS VoteCal Project Director.

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d. Within five (5) business days of receiving the resubmitted, corrected Deliverable (which SOS previously Accepted with acknowledged unresolved Deficiency), the SOS VoteCal Project Director will review and ~~confirm~~ determine that the resubmitted Deliverable ~~has either: meets the conditions specified in 10.c.8.v.b.i or 10.c.8.v.ii (above-); or, i) satisfactorily resolved the Deficiencies that were unresolved at the time of Acceptance and no new Deficiencies have been introduced or found; or ii) still contains one or more of the Deficiencies that were unresolved at the time the Deliverable was Accepted and/or new Deficiencies that SOS requires the Contractor to correct~~ that SOS has determined that any specific unresolved Deficiency (or Deficiencies) contained in the resubmitted, corrected Deliverable has minimal impact on the project and the Contractor is not required to resolve it. If SOS requires the Contractor to correct Deficiencies identified within the resubmitted Deliverable, SOS shall notify the Contractor in writing of these Deficiencies and the Contractor must correct and resubmit the Deliverable within five (5) State business days of receiving SOS notice (unless SOS, at its discretion, allows a period longer than five (5) State business days).

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When the Contractor once again resubmits the corrected, previously Accepted Deliverable for the SOS VoteCal Project Director's review and determination, the SOS review and/or testing time for the corrected and resubmitted Deliverable will be the same number of business days specified for review and/or testing for the initial resubmission of the corrected Deliverable.

e. The process for the Contractor to correct and resubmit a Deliverable that has previously been given Acceptance by SOS (as explained in this Section) continues until: the SOS VoteCal Project Director communicates in writing that the conditions identified in Section 10.c.8.v.b.i or Section 10.c.8.v.b.ii

~~(above) are met; or, the Deliverable is subject to Section 10.d.1 in Attachment 1 – Statement of Work (below).;~~

~~a. and,~~

~~c. The SOS and Contractor agreements regarding if and how Accepting the Deliverable with such explicitly acknowledged unresolved Deficiencies will impact the State's review and Acceptance of subsequent Deliverables until such time that the SOS VoteCal Project Director provides the review and confirmation described in subsection (b) above (Section 10.e.8.v.b).-~~

~~7.9.~~ Unless otherwise permitted by the PMP or IPS, it is the State's intention that work on subsequent Deliverables will not proceed prior to the State's formal Acceptance of the preceding Deliverables. If Contractor elects to proceed with work on subsequent Deliverables prior to such Acceptance of preceding Deliverables, the Contractor must request and receive the SOS VoteCal Project Director's approval in writing in order to use SOS VoteCal staff or contractors in such work. With or without the State's approval, Contractor shall proceed with such work at Contractor's sole risk and with the understanding that the Contractor may need to repeat previously performed work without payment therefore by the State.

~~8.10.~~ In accordance with the terms specified in Section 10(b)2 of this SOW, the parties acknowledge and agree that the State's Acceptance of a Deliverable indicates that it has reviewed the Deliverable and confirmed that the Deliverable meets its Acceptance Criteria as set forth in the applicable DED. The State's Acceptance of a Deliverable does not discharge any of Contractor's obligations to insure comprehensiveness, functionality, effectiveness or Certification of the VoteCal System as a whole. Acceptance shall not be construed to waive any warranty rights that the State might have at law or by express reservation in this Contract with respect to any Deficiency.

(d) Remedies for Uncorrected Deliverable Deficiencies

~~1.~~ Excepting Deficiencies that the parties have mutually agreed need not be corrected subject to the provisions (as specified in Sections 10.c.7.ii or 10.c.8.v.b.iii in Attachment 1 – Statement of Work, (above), if the Contractor is unable to correct Deficiencies reported to the Contractor by SOS upon review of the Deliverable within the number of calendar days indicated following the Deliverable's scheduled acceptance, or if no such date is specified in either the IPS or in an agreement between SOS and the Contractor as provided for in Section 10.e.8.v in Attachment 1 – Statement of Work, then within 30-60 calendar days from either submission of the Deliverable Certification Letter (see Section 10.b.2, above) or the first resubmission of the corrected, Accepted Deliverable (see 10.c.8.v.c, above). the State may, at its option: (i) continue reviewing or performing acceptance tests on the Deliverable and require Contractor to continue until Deficiencies are corrected or eliminated; (ii) request Contractor to provide, at its expense, a replacement Deliverable for further review or acceptance tests; or (iii) accept a reasonable adjustment in the cost of the applicable Deliverable in an amount to reflect a reduction in the value of the Deliverable as a result of the noted Deficiencies that have not been corrected and/or provide full or conditional Acceptance for the applicable Deliverable. ~~If none of the options or remedies available to the State in sections (i) through (iii) above is determined by the State determines that none of the options or remedies described in this Section (above) to be~~ appropriate, the State may, within seven (7) calendar days of the State's cure notice, pursuant to Provision 23(b) in Attachment 2 - IT General Provisions Modified for the SOS VoteCal Project Only, Provisions 23.b., terminate this Contract, in whole or in part after rejecting the Deliverable without penalty or liability to State, and return to the Contractor the rejected Deliverable

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~~and as well as any Successor other Deliverable(s) that is impacted/Dependent upon or affected by the rejected Deliverable.~~

A Deliverable is considered a Successor Deliverable to and Dependent upon the rejected Deliverable if the Deliverable is defined as a Successor Deliverable of the rejected Deliverable within this Contract and the Acceptance of the Deliverable is specified as contingent upon prior or concurrent SOS Acceptance of the rejected Deliverable. Dependencies between VoteCal Deliverables shall be defined in the VoteCal System – Schedule of Deliverable Payments tables that are included within subsection C - Payment Milestones in Attachment 1, Exhibit 2 – Tasks and Deliverables.

~~to Contractor. If the State terminates this Contract under this Section provision, Contractor shall, within 20 calendar days thereafter, refund to the State all payments made to Contractor (if any) for: to State all payments made to Contractor for the rejected Deliverable; and, any Successor Deliverables that are Dependent upon the rejected Deliverable. In addition, the Contractor shall not be entitled to any further compensation from the State under the terms of this Contract following termination as defined above except payments due to the Contractor for valid, submitted invoices for Accepted Deliverables not impacted by the rejected Deliverable.~~

~~Notwithstanding anything to the contrary in Attachment 2 – IT General Provisions Modified for the SOS VoteCal Project Only, if the State does not provide such notice of rejection within the time period specified in the IPS or, if no such time is in the IPS or PMP, within 30 calendar days of submission of the Deliverable Certification Letter such Deliverables and services will be deemed to have been rejected.~~

~~1.2. In addition to its other remedies, if Contractor fails to deliver Deliverables or to provide Services which satisfy Contractor's obligations hereunder, the State shall have the right to withhold payments due hereunder without penalty or work stoppage by Contractor until such failure to perform is cured.~~

~~2.3. In the event of a contradiction, conflict, ambiguity or inconsistency in or between Deliverables and other documents comprising this Contract, including without limitation, a Deliverable that has already received Acceptance, the RFP and the Proposal, any such contradiction, conflict, ambiguity or inconsistency shall be resolved in favor of the latest State-approved Deliverable except in the case where a previous documented requirement is inadvertently omitted or not addressed directly in a subsequent Deliverable. No requirements can be omitted from the Specifications without the SOS VoteCal Project Director's written consent.~~

~~3.4. The Contractor must not change a Deliverable that has received Acceptance from the State without the approval of the State.~~

(e) VoteCal System Acceptance

1. The SOS VoteCal Project Director will provide Acceptance of the VoteCal System if the VoteCal System meets the applicable Acceptance Criteria set forth herein.
2. The VoteCal System Acceptance Criteria will include:
  - (i) SOS Acceptance of Deliverable VI.5 - VoteCal System Final Deployment Report including Delivery of Updated VoteCal System Source Code and System Documentation (described in Attachment 1, Exhibit 2 – Tasks and Deliverables).
  - (ii) SOS Acceptance of Deliverable VI.7 - VoteCal Final Report for Phase VI (described in Attachment 1, Exhibit 2 – Tasks and Deliverables).

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- (iii) Submission of all Contract Deliverables up through Deliverable VI.7 (as stated above).
  - (iv) Satisfaction of all mandatory requirements and System Specifications.
  - (v) Satisfaction of all terms and conditions that the Contract states must be satisfied prior to *beginning* Phase VII – First Year Operations and Close-out.
- (f) Deliverable Expectation Documents (DED)
1. Contractor shall submit a DED to the State for each Deliverable due under the Contract according to the PMP and the IPS and based upon Attachment 1, Exhibit 2 – Tasks and Deliverables, related information in the Final Proposal (if any), and SOS and Contractor discussions during related phase visioning sessions. The Contractor shall deliver VoteCal DEDs in accordance with the Deliverable dependencies described for the corresponding Deliverables in Attachment 1, Exhibit 2 – Tasks and Deliverables. SOS will not provide review and Acceptance of a DED for a predecessor Deliverable prior to the State's formal Acceptance of the DED for all preceding Deliverables. The DED for each Deliverable is itself a Deliverable and is due for delivery to the State in accordance with the terms of the PMP and IPS. Contractor shall gain the State's Acceptance of the DED before starting work on the Deliverable described therein. For each DED, the parties will agree on Acceptance Criteria based on the Specifications during the course of the Project.
  2. The DED for each Deliverable will be drafted by the Contractor, using the template provided in Attachment 1, Exhibit 3 - Sample Deliverable Expectation Document Template. This process will establish requirements regarding the appropriate standards, format, content, number of copies, and Acceptance Criteria for the Deliverables. This process can start as early as the phase visioning sessions where the Contractor will present the vision for the subsequent phases and SOS will provide detailed and collaborative feedback during the visioning sessions. At a high level, the vision for the phase Deliverables will be identified and will serve as the input for the drafts of phase-related DEDs.
  3. For a very limited number of VoteCal Deliverables, SOS and the Contractor may agree at the time the DED is being developed for the Deliverable that the Deliverable's specific nature recommends it be eligible for SOS Acceptance (when later submitted for SOS review and Acceptance) despite possibly containing a specific type of Deliverable Deficiency (or Deficiencies) representing low or minimal adverse impact on the quality, accuracy, and completeness of that specific Deliverable and on any subsequent Deliverables. For any Deliverable(s) so identified, SOS and the Contractor will mutually agree to and specify in that Deliverable's DED all of the same criteria specified in Attachment 1 – Statement of Work, Sections 10.c.8.v.a, 10.c.8.v.b, and 10.c.8.v.c. The DED for such a Deliverable would specify the type of unresolved Deficiency (or Deficiencies) that would not preclude SOS Acceptance by designating Deficiencies assigned a specific Deliverable Deficiency Severity Level (that is defined as representing low or minimal impact) or by identifying the specific type of Deficiency, such as specifying that any unresolved spelling errors in non-critical term would not preclude SOS Acceptance of the particular Deliverable.

The ability of SOS and the Contractor to agree during DED development that the nature of a particular VoteCal Deliverable recommends specifying in the DED that the Deliverable should be eligible for Acceptance despite possibly containing as yet unresolved Deliverable Deficiency (or Deficiencies) of a specified, low impact type does not preclude SOS' ability to perform a similar assessment for any Deliverable at the time it is submitted by the Contractor for review and Acceptance (see Attachment 1- Statement of Work, Section 10.c.8.v).

4. SOS will review and provide Acceptance or reject the draft DED within five (5) State business days of receipt. If the DED does not receive Acceptance, SOS will notify the Contractor in writing to communicate SOS' feedback about the Deficiencies in the draft DEDs. While SOS feedback may include suggested revisions to improve DED content, SOS is not responsible for providing revised DED language when providing feedback about DED Deficiencies. If the DED does not receive Acceptance, the Contractor will revise the DED to address SOS feedback concerning Deficiencies within five (5) State business days and resubmit the revised DED to SOS for review and Acceptance or rejection. SOS has up to five (5) State business days to review the resubmitted DED and give Acceptance or identify additional or continuing Deficiencies. If the resubmitted DED does not receive Acceptance, SOS and Contractor will repeat the actions (within the number of business days specified) described for a new, draft DED during continuing DED review until the DED receives Acceptance, or the deadline for receiving Acceptance is not met, as provided below. If SOS does give Acceptance, the DED will serve as the Acceptance Criteria by which SOS will formally give Acceptance or rejection for applicable Deliverables.
5. Following the established Change Control procedures which are described in the VoteCal Change Control Plan, the Contractor may recommend changes to the DED after SOS Acceptance, as warranted to improve the content and/or submission of a particular Deliverable, subject to approval by SOS. SOS may also propose changes to the approved DED to improve its content relative to a particular Deliverable, subject to agreement by the Contractor.

(g) DED Information and Formats

Each DED will contain the following:

1. An annotated outline of the Deliverable, table of contents, sample format and sample pages and general description of the information that will be contained in the Deliverable;
2. Time frames for activities related to the Deliverable, including without limitation, dates for the Deliverable consistent with the SOS-approved IPS and PMP and with this SOW;
3. Proposed State review timeframes for the Deliverable consistent with the SOS-approved IPS and PMP and with this SOW;
4. Contractor correction time frames for the Deliverable;
5. Deliverable objectives; and
6. Acceptance Criteria which are consistent with the Specifications and other requirements of this Contract and prior Deliverables and communications between the parties.

(h) Inspection of Work in Progress

Contractor agrees that the SOS VoteCal Project Director or designee, the IPOC and IV&V shall have the authority to inspect any and all of Contractor's work in progress. The purpose of such inspections will be to verify project progress as reported by Contractor and to ensure that work products are in conformity with requirements or Agreement provisions. If, upon such inspection, the SOS, IV&V or IPOC identify significant deviations from progress reported by the Contractor, the ESC may require the Contractor to submit a corrective action plan within five (5) business days for consideration and approval by the ESC. The Chair of the ESC may, at his or her sole discretion, order that project activities be suspended until the corrective action plan is approved and implemented.

(i) Training Deliverables

Contractor shall be responsible for training identified State and County staff on all aspects of the VoteCal System as described in Section VI.B.2 – Training (requirement P9) and in Attachment 1, Exhibit 2 – Tasks and Deliverables (as specifically defined for Deliverable II.9 but as discussed as an explicit component of multiple other Deliverables). While constructing and developing the Deliverables, and during Acceptance Tests, Contractor shall demonstrate and provide information to staff designated by State about the functions and operations of the VoteCal System in accordance with the applicable Specifications and the PMP and IPS. The State's training Acceptance Tests shall not be considered concluded until all identified staff are successfully trained and the VoteCal System knowledge transfer and VoteCal System operations transition has occurred in accordance with the Specifications.

(j) PMP and IPS

1. The initial PMP and IPS shall be comprised of Contractor's IPS and PMP in the proposal submitted in response to the RFP. This initial IPS and PMP shall be revised by Contractor to reflect Project changes since Contractor's initial submission. Contractor shall deliver the revised PMP and IPS, which shall be a Deliverable, to the State Project Manager for State's review not later than 30 and 90 days after the Contract Award Date respectively. In the event of failure of the parties to agree upon this PMP and IPS and/or of State to give its Acceptance thereof within 45 calendar days of the date the Deliverable is due, State may invoke its right to immediately terminate this Contract.
2. Contractor shall provide updates to the PMP and IPS at least weekly and as otherwise necessary throughout the Project to accurately reflect the status of activities, tasks, events, Services, and projected completion dates for such activities, tasks, events and Services. Any such update changes must be agreed upon by State prior to their final incorporation into the IPS and PMP. However, unless otherwise specifically agreed to in writing, State's agreement on a change to the PMP and IPS shall not relieve Contractor of liability for liquidated damages and other damages arising from such failures to perform its obligations as required herein. Contractor shall maintain updated copies of the IPS and PMP in a common server drive accessible by State.
3. The PMP and IPS shall not change as a result of time required by Contractor to correct Deficiencies, unless otherwise agreed beforehand in writing by State. However, the schedule may, in State's discretion, be extended on a day-to-day basis to the extent that State's review of a Deliverable and review of corrections of Deficiencies in accordance with the Acceptance process is longer than described in the PMP and IPS. Contractor shall continue to perform its obligations that are not affected by State review and shall mitigate any impact on Contractor from such delays caused by State, e.g., redirecting its Staff to perform other tasks, to the extent reasonably possible. To the extent it cannot redirect Staff and mitigate such impacts, then an adjustment, if any, to the Schedule will be made, if appropriate, based upon the SOS VoteCal Project Director's reasonable consideration of all relevant circumstances, including but not limited to Contractor's opportunity and efforts to mitigate the effect of the impact and if State's failure to perform is not due to an event described in Attachment 2 – IT General Provisions Modified for the SOS VoteCal Project Only, Paragraph 24 (Force Majeure).

11. Warranty Period

The Warranty Period and initial year of Maintenance and Operations provided for in Phase VII - First Year Implementation and Close-out shall commence immediately upon satisfactory completion of Phase VI – Deployment and Cutover.

12. Software and Hardware Provisions

(a) Contractor Commercial Proprietary Software

1. Definition

These provisions apply to generally available Contractor Commercial Proprietary Software included in the completed VoteCal System. Contractor Commercial Proprietary Software shall mean proprietary operating system, application or other Software packages which are owned by Contractor or an affiliate and which are commercially or publicly available.

2. Inapplicability to VoteCal System Software; Applicability to Pre-Existing Materials

The provisions in this Section 12(a) do not apply to any portion of the VoteCal System Software (as described below) developed for the State under this Contract. However, the provisions in Section 12(a) shall also apply to Pre-Existing Materials as defined in Section 37(c) of Attachment 2 – IT General Provisions Modified for the SOS VoteCal Project Only; references to Section 12(a) shall include such Pre-Existing Materials in whole and in part, unless otherwise indicated.

3. License Grant

(a) Contractor hereby grants to the State, subject to the terms and conditions of this Contract, a non-exclusive unlimited, irrevocable, perpetual, royalty-free, right and license to use, modify, reproduce, publish, prepare derivative works based on, display, and distribute the Source Code and Object Code of the Contractor Commercial Proprietary Software in conjunction with the VoteCal System Software to State agencies, and counties in the United States of America for voter registration and other purposes.

(b) The State may exercise its license to the Contractor Commercial Proprietary Software in the conduct of its own business and make copies of this Software in the numbers required to fulfill the State's rights under this RFP and SOW. The license granted above authorizes the State to exercise its rights to the Contractor Commercial Proprietary Software in machine-readable form on the Commercial Computer System located at the site(s) specified in the SOW. Said Computer System and its associated units (collectively referred to as CPUs) are as designated in the Contract. If the designated CPUs are inoperative due to malfunction, the license herein granted shall be temporarily extended to authorize the State to exercise its rights to the Contractor Commercial Proprietary Software, in machine-readable form, on any other State CPUs until the designated CPUs are returned to operation. The license herein granted shall also be temporarily extended to authorize the State to exercise its rights to the Contractor Commercial Proprietary Software, in machine-readable form, on any other State CPUs to allow the state to test the ability to operate in the event that the designated CPUs are inoperative, and to facilitate system maintenance.

(c) The State may redesignate the CPUs in which the Software is to be used at no additional cost to the State. The redesignation will be effective upon the date specified in a notice of redesignation.

4. Encryption/CPU ID Authorization Codes

(a) When Encryption/CPU Identification (ID) authorization codes are required to operate the Contractor Commercial Proprietary Software, the Contractor will provide all codes to the State with delivery of the Contractor Commercial Proprietary Software.

(b) In case of inoperative CPUs as defined in Section 12(a)(3)(c) above, Contractor

will provide a temporary encryption/CPU ID authorization code to the State for use on a temporarily authorized CPUs until the designated CPUs are returned to operation, and to allow the State to test the alternate CPUs or perform maintenance on the designated CPUs, as described above.

- (c) When changes in designated CPUs occur, the State will notify the Contractor via telephone or e-mail of such change within eight (8) State business hours. Upon receipt of such notice, Contractor will issue via telephone or e-mail to the State within 24 hours, a temporary encryption ID authorization code for use on the newly designated CPUs until such time as a permanent code is assigned.
- (d) The Contractor shall not apply any encryption or CPU ID authorization code capability to the Contractor Commercial Proprietary Software that in any way restricts the ability of the State to install, use and otherwise exercise its rights in and to the VoteCal System on any Hardware or Operating System, nor shall the Contractor apply any mechanism that limits the period of usability of the Contractor Commercial Proprietary Software or the VoteCal System.

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5. Transfer of Title and Licenses

The Contractor will transfer all Contractor Commercial Proprietary Software licenses to SOS at the end of Phase VII - First Year Operations and Close-out at no additional cost. In the event that Contractor fails to perform on the contract, Contractor shall immediately transfer to SOS Software licenses for all Contractor Commercial Proprietary Software products for which SOS has paid the Contractor upon request by SOS. Contractor will be responsible for payment of any recurring license charges until the completion of the Warranty Period (which runs concurrent with the first year of maintenance and operation of the system) as established in this Attachment 1, Section 11.

6. Right to Contractor Commercial Proprietary Software Prior to Transfer of Licenses

SOS shall have a license to use, reproduce, modify, prepare derivative works based upon, display, publish, and distribute the Contractor Commercial Proprietary Software following its delivery and until transfer of applicable licenses as provided above for all the purposes allowed by this Contract.

7. Future Releases

Unless otherwise specifically provided in this Contract, or the SOW, if improved versions of the Contractor Commercial Proprietary Software, or of any of Contractor's Software products identified in the Contractor's Proposal as a basis or component of the Contractor Commercial Proprietary Software, are developed by Contractor, and are made available to other Contractor customers, they will be made available to the State at the State's option at a price no greater than the price offered to other government customers to upgrade from the version provided to the State to the same version of the product provided to another government licensee. Where modifications or enhancements are made by the Contractor to a different version of a product identified in the Contractor's Proposal as a basis or component of the Contractor Commercial Proprietary Software and are directly applicable to the Contractor Commercial Proprietary Software, those modifications or enhancements shall be made available to the State at no more than the lowest cost any other entity was charged to incorporate that modification or enhancement in the other version of that product.

8. Source code

The Contractor shall provide SOS with the originals, in machine readable format, of the most current version of the Contractor Commercial Proprietary Software Source Code, the Object Code, the complete Software release implementation directions, and any additional Software and information that is required to use, reproduce, prepare derivative

works based on, modify, display, publish, distribute, or operate the Contractor Commercial Proprietary Software as part of the following Deliverables (which are more fully defined in Attachment 1, Exhibit 2 – Tasks and Deliverables): (i) Deliverable III.6; (ii) Deliverable IV.3; (iii) Deliverable V.3; (iv) Deliverable VI.5; and, (v) Deliverable VII.2. Contractor shall also provide this Contractor Commercial Proprietary Software Source Code, Object Code and related materials listed immediately above within five (5) calendar days of any request of SOS. ~~Notwithstanding anything to the contrary herein, the Contractor shall not be required to provide the Source Code for Third Party Software unless the licensor for such Third Party Software provides Source Code to Contractor to provide to the SOS. However, Contractor shall make available such Source Code for Third Party Software in accordance with the terms of the Escrow Agreement which is included in the SOW.~~

#### 9. Encryption/CPU ID Authorization Codes

~~The Contractor shall not apply any encryption or CPU ID authorization code capability to the Contractor Commercial Proprietary Software that in any way restricts the ability of the State to install, use and otherwise exercise its rights in and to the VoteCal System on any Hardware or Operating System, nor shall the Contractor apply any mechanism that limits the period of usability of the Contractor Commercial Proprietary Software or the VoteCal System.~~

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#### (b) VoteCal System Software

1. The definition of VoteCal System Software includes any Application Software that is developed or modified by the Contractor to meet the requirements and other Specifications of this Contract for the VoteCal System. This provision does not apply to Contractor Commercial Proprietary Software, Pre-Existing Materials or Third Party Software. However, the provisions in Section 12(b) shall also apply to Work Products as defined in Section 37(e)(ii) of Attachment 2; references to VoteCal System Software in Section 12(b) shall include such Work Products in whole and in part, unless otherwise indicated.
2. Transfer of Ownership
  - a. At the end of Phase VII – First Year Operations and Close-out the Contractor shall assign and transfer to the State all right, title and interest, including without limitation U.S. Intellectual Property Rights as defined in Attachment 2 – IT General Provisions Modified for the SOS VoteCal Project Only in and to the VoteCal System Software which is described in this SOW, Section 12(b) – VoteCal System Software. In the event that Contractor fails to perform on the contract, Contractor shall immediately assign and transfer all right, title and interest in and to the VoteCal System Software which is described in this SOW to SOS upon request by SOS.
  - b. Contractor shall take all actions necessary to transfer ownership of all right, title and interest in and to the VoteCal System Software to the State in Source Code and Object Code formats, including without limitation U.S. Intellectual Property Rights as defined in Attachment 2 –IT General Provisions Modified for the SOS VoteCal Project Only at the end of Phase VII - First Year Operations and Close-out. As between the parties, the VoteCal System Software shall be deemed a work made for hire of the State for all purposes of copyright law, and copyright shall belong solely to the State. In the event that the VoteCal System Software is adjudged to be not a work made for hire, Contractor agrees to assign, and hereby assigns, all copyright in such work to the State. Contractor shall, at the expense of the State, assist the State or its nominees to obtain copyrights, trademarks, or patents for all such work in the United States and any other countries. Contractor agrees to execute all papers and to give all facts known to it necessary to secure United States or foreign country

copyrights and patents, and to transfer or cause to transfer to the State all the right, title and interest in and to such work. Contractor also agrees to waive and not assert any moral rights it may have in any such works.

3. Encryption/CPU ID Authorization Codes

The Contractor shall not apply any encryption or CPU ID authorization code capability to the VoteCal System Software that in any way restricts the ability of the State to install, use and otherwise exercise its rights in and to the VoteCal System on any Hardware or Operating System, nor shall the Contractor apply any mechanism that limits the period of usability of the VoteCal System Software or the VoteCal System.

4. Right to VoteCal System Software Prior to Transfer of Ownership

SOS shall have a license to use, reproduce, modify, prepare derivative works based upon, publish, display and distribute the VoteCal System Software following its delivery and until transfer of ownership as provided above for all the purposes allowed by this Contract.

5. Future Releases

Unless otherwise specifically provided in this Contract, or the SOW, if improved versions of the VoteCal System Software, or of any of Contractor's Software products identified in the Contractor's Proposal as a basis or component of the VoteCal System Software, are developed by Contractor, and are made available to other Contractor customers, they will be made available to the State at the State's option at a price no greater than the price offered to other government customers to upgrade from the version provided to the State to the same version of the product provided to another government licensee. Where modifications or enhancements are made by the Contractor to a different version of a product identified in the Contractor's Proposal as a basis or component of the VoteCal System Software and are directly applicable to the VoteCal System Software, those modifications or enhancements shall be made available to the State at no more than the lowest cost any other entity was charged to incorporate that modification or enhancement in the other version of that product.

6. Source code

Upon completion of the following phases (and conditions), the Contractor shall provide SOS with the originals, in machine readable format, of the most current version of the VoteCal System Software Source Code, the Object Code, the complete software release implementation directions, and any additional Software and information that is required to use, reproduce, prepare derivative works based on, modify, document, or operate the VoteCal System Software as part of the following Deliverables (which are more fully defined in Attachment 1, Exhibit 2 – Tasks and Deliverables): (i) Deliverable III.6; (ii) Deliverable IV.3; (iii) V.3; (iv) Deliverable VI.5; and, (v) Deliverable VII.2. Contractor shall also provide this VoteCal System Software Source Code, Object Code and related components listed immediately above within five (5) calendar days of any request of SOS. However, Contractor shall have the right to retain a copy thereof solely to perform its obligations under the Contract.

(c) Third Party Software

1. Any Third Party Software integrated into the VoteCal System must be purchased by and licensed to the Contractor by the Third Party Software licensor. All required Third Party Software licenses purchased by the Contractor shall include written acceptance by the Third Party Software provider of the Third Party COTS General Provisions dated July 15, 2008:

<http://www.documents.dgs.ca.gov/pd/TAS/SICOTSSWGPs071508.pdf>.

2. Contractor agrees to provide to the SOS this written acceptance and copies of the Third Party Software licensing agreement(s) at the end of Phase VII – First Year Operations and Close-out. Third Party Software licensing terms and conditions provided by Contractor which are not in conflict with the Third Party COTS General Provisions dated July 15, 2008, and/or California law will be accepted by the SOS, provided however that any licensing clause, term or condition representing that the Third Party Software license is superior to or takes precedence over other articles, attachments, specifications, provisions, contracts, terms or conditions in the Contract shall be stricken and shall have no legal effect.
3. Contractor shall hold all licenses for Third Party Software included in the VoteCal System until these are transferred to SOS at no additional cost. Contractor shall transfer licenses for Third Party Software at the end of Phase VII - First Year Operations and Close-out. Upon request by SOS and in the event that Contractor fails to perform on the contract, Contractor shall immediately transfer to SOS Software licenses for all Third Party Software products for which SOS has paid the Contractor as provided in Attachment 2 - IT General Provisions Modified for the SOS VoteCal Project Only, paragraph 23 (Termination for Default).

4. Notwithstanding anything to the contrary herein, the Contractor shall not be required to provide SOS the Source Code for Third Party Software unless the licensor for such Third Party Software provides Source Code to Contractor to provide to the SOS.

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4.5. SOS reserves the right to waive these requirements on a case-by-case basis, at the SOS's sole discretion.

(d) Hardware

6.1. Contractor shall hold all title for Hardware included in the VoteCal System until these are transferred to SOS at no additional cost. Contractor shall transfer title for Hardware at the end of Phase VII - First Year Operations and Close-out. Upon request by SOS and in the event that Contractor fails to perform on the contract, Contractor shall immediately transfer to SOS title for all Hardware products for which SOS has paid the Contractor.

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13. Invoicing and Payment

- (a) Contractor may only bill for the Acceptance of each Deliverable in accordance with Attachment 1, Exhibit 2 – Tasks and Deliverables (less the withhold of 20%).
- (b) Contractor cannot submit an invoice more frequently than once a month. All phases or Work Authorizations for all Deliverables which have received Acceptance in writing during the prior month must be grouped into a single monthly invoice submitted for approval by the SOS.
- (c) The State agrees to compensate the Contractor in accordance with the prices for Deliverables and rates for Services specified in the Contract.
- (d) Prior to submitting the invoices to the address below, a HAVA Activity Sheet will be submitted by Contractor for each of its employees and subcontractors to the SOS Contract Manager for approval and signature of the SOS VoteCal Project Director. The signed HAVA Activity Sheet must be submitted with the monthly invoice. Invoices shall include the Contract Number and shall be submitted in triplicate not more frequently than monthly in arrears to:

Secretary of State  
Attn: Accounts Payable  
P O Box 944260  
Sacramento, CA 94244-2600

(e) Twenty Percent 20% Withhold

In accordance with Public Contract Code, Section 12112, the State shall withhold, from the invoiced amount to the Contractor, an amount equal to twenty percent (20%) of the invoice. Such amount withheld shall be retained by the State and only released to the Contractor at the following two (2) Phase-related points during the VoteCal project:

1. Satisfactory completion of Phase VI – Deployment and Cutover, which is defined as SOS Acceptance of all Phase VI – Deployment and Cutover Deliverables (described in Attachment 1, Exhibit 2 – Tasks and Deliverables) and will result in SOS releasing to the Contractor all withhold amounts retained from Contractor's invoices from the beginning of the Contract through and including the invoice for the final Phase VI Deliverable (Deliverable VI.7 - Final Report for Phase VI); and,
2. Satisfactory completion of Phase VII - First Year Operations and Close-out, which is achieved upon the SOS VoteCal Project Director's determination that the Contractor has satisfactorily completed all of the required services and submitted all required Deliverables through and for Phase VII – First Year Operations and Close-out and will result in SOS releasing to the Contractor all withhold amounts retained from Contractor's invoices submitted after the invoice for the final Phase VI Deliverable through and including all invoices for Phase VII Deliverables and services (described in Attachment 1, Exhibit 2 – Tasks and Deliverables).

(f) Liquidated Damages

1. The Contractor agrees that in the event of failure to meet the requirements which follow, damage shall be sustained by the State and that it is and may be impractical and difficult to ascertain and determine the actual damages which the State will sustain in the event of and by reason of such failure; and it is therefore agreed that the Contractor shall pay the State the amounts set forth below for such failures at the sole discretion of the State according to the following subsection. The purpose of liquidated damages is to ensure adherence to the requirements in the Contract. No punitive intention is inherent.
2. Additionally, "time is of the essence" in the Contractor's performance of the Contract, where "time is of the essence" is defined to mean that the Contractor will perform the Services in accordance with the mutually agreed upon schedule as represented by the IPS stated in the current Contract and that the parties agree that rescission of the Contract will not be a remedy for any breach of this provision. It is the State's intent for the Contractor to meet the VoteCal Project Final Implementation Date as specified in the IPS stated in the Contract. To the extent the Contractor is delayed in meeting any of the Phase End Dates specified in the current Contract schedule due primarily to the fault or delay of the Contractor and subject to Attachment 2, Section 24 – Force Majeure, liquidated damages in the amount of two thousand five hundred dollars (\$2,500) shall be assessed against the Contractor for each State business day the Phase End Date does not occur by the date specified in the current Contract schedule and adjusted IPS. The State will recover the liquidated damages from future payments that would otherwise be made to Contractor. Liquidated damages can be exercised concurrently while the State is pursuing other remedies, including without limitation, the State's right to terminate this Contract, and the State shall be entitled in its discretion to recover actual damages caused by Contractor's failure to perform its obligations under this Contract. However, the State will reduce such actual damages by the amounts of liquidated damages received for the same events or delays causing the actual damages. Further, notwithstanding anything to the contrary herein, if the State has received liquidated damages for Contractor's failures to perform as required by the date(s) in the IPS for a specific number of days, the State shall not impose additional liquidated damages for the same number of days if

the Contractor has still not performed subsequent obligations by that same number of days. The State will notify the Contractor in writing when liquidated damages are being invoked. The State will provide the Contractor a complete accounting for all liquidated damages. In addition, the State will refund to Contractor liquidated damages that it has collected from Contractor on a business-day for business-day basis to the extent that Contractor has reduced or made up the number of total business days that the project has been delayed as measured by the date of approval of Deliverable VI.5 - VoteCal System Final Deployment Report including Delivery of Updated VoteCal System Source Code and System Documentation.

3. The State and Contractor agree that in no event shall Contractor's liability for liquidated damages exceed ten percent (10%) of the total value of this Contract, including any amendments thereto.

14. Contractor Claims Against the State

The Contractor will not be responsible for any delay, cost increase, or other consequence to the extent that it is caused by the State's failure to fulfill responsibilities set forth herein. If Contractor has exhausted all applicable processes, if any, for resolution of such a Contractor consideration (e.g., see Section 8 – Change Control Procedures), Contractor ~~must~~ may submit ~~a~~ claims against the SOS for schedule delays or other costs and expenses that Contractor alleges were caused by the SOS or by parties directly contracting with the SOS *other* than the Contractor. Contractor must submit any such claim within the earlier of 12 months of the date upon which Contractor knew of the existence of the claim or 12 months from expiration or termination of the Agreement. No claims shall be allowed unless Notice of such claim has been given within the above described time period. ~~Such Contractor must submit any such claims must be submitted~~ to the SOS VoteCal Project ~~Director-Sponsor~~ or his or her designee by Contractor in the form and with the certification prescribed by the SOS VoteCal Project ~~Director-Sponsor~~ or his or her designee. In the event of an SOS-approved claim for equitable adjustment to cost, schedule, or both, the parties will negotiate in good faith regarding execution of a Contract amendment, if appropriate. If the Contractor disagrees with an SOS decision not to approve a Contractor's claim, the Contractor shall follow the problem escalation process defined in Section 9 – Problem Escalation in Attachment 1 – Statement of Work (above). Upon failure of Contractor to submit its claim within the time allowed, all rights to seek amounts due on account of such claims shall be waived and forever barred.

## ATTACHMENT 1

### EXHIBIT 2 – TASKS AND DELIVERABLES

The numbering of these Deliverables does not indicate the order in which the Deliverables must be worked unless otherwise stated. They are numbered to segregate the Deliverables into groups.

Performance of tasks may overlap. ~~Cases where SOS Acceptance of a Deliverable requires prior SOS Acceptance of a predecessor Deliverable in the same Phase are noted in s~~Subsection 2.C - Payment Milestones of this Exhibit ~~cites all mandatory predecessor-successor relationships among Deliverables. This subsection notes all instances where SOS Acceptance of a Deliverable requires prior SOS Acceptance of a predecessor Deliverable or where SOS approval is required to initiate a Deliverable-related activity.~~ Additional ~~predecessor~~ information ~~and concerning~~ activities that ~~contribute to shall be completed prior to Deliverable completion and SOS Acceptance~~ of a Deliverable are cited as part of the description of each Deliverable ~~provided in Exhibit subsection 2.E – Tasks and Deliverables of this Exhibit. However, the description of predecessors in this Exhibit is not exhaustive;~~ Contractor shall specify all predecessor-successor relationships among activities and Deliverables in Deliverable I.2 – Integrated Project Schedule (IPS). The IPS for which SOS provides Acceptance shall also determine the exact date these Deliverables shall be due.

Deliverable Acceptance Criteria, standards, and detailed content shall be determined during Contractor's development of each Deliverable Expectation Document (DED), which is in and of itself a Deliverable, and is subject to SOS Acceptance. (See Attachment 1, Section 10 – Inspection, Acceptance and Rejection of Contractor Deliverables for description of preparation, submittal and Acceptance of Deliverables, including the DED; see Attachment 1, Exhibit 3 – Sample Deliverable Expectation Document for the DED template.)

For certain activities in Phase V – Pilot Deployment and Testing, Phase VI – Deployment and Cutover and Phase VII – First Year Operations and Close-out, Contractor's work shall commence upon SOS VoteCal Project Director's approval to proceed (go/no-go decision); these approval points are cited as part of the discussion of the relevant Phase Deliverable.

#### A. INTRODUCTION

SOS has identified seven Phases for the VoteCal Project to include the following:

- I. Project Initiation and Planning;
- II. Design;
- III. Development;
- IV. Testing;
- V. Pilot Deployment and Testing;
- VI. Deployment and Cutover; and
- VII. First Year Operations and Close-out.

Each of these Phases will require development of specific Deliverables along with ongoing activities the Contractor shall conduct or participate in.

In planning, scheduling and executing the VoteCal Project and its component Phases, Contractor shall assume and accommodate the following constraints and additional requirements:

- SOS policy requires all staff and contractors access environments in the SOS data center through the SOS network. SOS will permit remote access to servers only under the conditions described in Attachment 1 – Statement of Work, Section 4 – Contractor Personnel (4.b) and Section 6 – Responsibilities of SOS (6.j).

- County elections officials' staff will be unavailable and a freeze will be imposed on changes to and testing of EMS' during the period beginning 60 calendar days prior to and ending 30 calendar days following a statewide or Uniform District Election Law (UDEL) election.
- No changes may be made to the SOS network during the period beginning seventy-five (75) calendar days prior to and ending thirty-nine (39) calendar days after an election for statewide office.
- The SOS requires one hundred twenty (120) State calendar days, at a minimum, following SOS Acceptance of the production environment specifications (as described in Deliverable II.6 – VoteCal System Technical Architecture Documentation), to set up required production environment Hardware.
- SOS is responsible for maintaining and supporting any pre-existing SOS Hardware and Software, including any such Hardware and Software that the Contractor proposes integrating within the VoteCal solution. Once installed, **new** Hardware and Software included within the Contractor's VoteCal System solution is the VoteCal Contractor's responsibility to maintain and support for the duration of the Contract; however, changes to and maintenance of the SOS network is subject to SOS-prescribed division of roles and responsibilities (described immediately below).
- In addition to the division of responsibilities noted above, the SOS Contractor will monitor and modify the SOS network for VoteCal purposes according to a SOS-prescribed process and division of roles and responsibilities that specifies, at a high-level: the Contractor is permitted view access for the network management tools to evaluate and monitor SOS network components included within the Contractor's VoteCal System solution; the Contractor shall submit requests for SOS network changes required for VoteCal to designated SOS ITD representatives in advance of when the changes are required (SOS and the Contractor will agree to the "lead time" required for such requests); and, SOS ITD staff will collaborate with the Contractor to implement SOS-approved network changes requested by the Contractor.
- For interfaces with EMS', each EMS vendor shall be allowed six (6) calendar months for the design, development, and testing of an interface prior to integration testing with VoteCal. The time period begins when the specification is delivered to the EMS vendors by the SOS and the Contractor.
- Contractor should not expect participation of SOS or county elections officials' staff in Contractor's development or in Contractor-specific testing activities, where Contractor-specific testing activities include system/integration testing, testing of integration/upload of county data, load testing, backup and restoration/recovery testing, performance testing, and regression testing of all VoteCal Solution functions.
- The eight (8) SOS users of VoteCal reports and ad hoc reporting/querying capability will include three (3) that are designated as a "master user." Once VoteCal is deployed, these "master users" will develop ad hoc queries and reports, modify existing stored queries and reports, and save ("publish") new or modified reports/queries for execution by the five (5) other SOS users. SOS plans that the three (3) "master user" roles will be filled by the Elections Program Leads who are assigned to and will participate in all phases of the Project (as described in the opening paragraphs of Section VI.B – Project Management Activities and Plans) and whose project duties will include review of all reporting-related VoteCal Deliverables. These SOS "master users" will train the other five (5) SOS report/query users on the structure and content of the VoteCal database (including data definitions and relationships) as necessary and on the special steps for creating and publishing new queries/reports. SOS will be responsible for training those additional report/query users on database content/structure and report/query creation.
- All eight (8) report/query users will execute the pre-defined reports that will be developed by the Contractor (described in Exhibit VI.2 – VoteCal Standard Reports) and will require Contractor-provided training in processes for executing those pre-defined reports and queries, viewing report/query results, and saving and printing report/query output.

- SOS expects to create and execute a total of up to one hundred fifty (150) ad hoc reports or queries per calendar year. VoteCal will store up to two thousand (2,000) report/query statements within VoteCal, and save ("publish") up to 10 percent (10%) of these new reports/queries per year within the VoteCal Solution. VoteCal will not store outputs of any pre-defined or ad hoc report or query.
- No more than five percent (5%) of new ad hoc queries will entail creation of a formal report (i.e., formatting into formal report output); the majority of ad hoc ~~queries~~ query results will be saved as comma delimited or tab delimited output; all report/query output will be saved outside of VoteCal.

## B. STANDARDS

The Contractor shall comply with industry standards on the management of the VoteCal Project and in the development of all plans and Deliverables as specified in the DED for each individual Deliverable. Further, each Deliverable and plan shall reference the standards or methodology by which it was developed. If the standard or methodology was developed by the Contractor then it shall be supported by successful application of that methodology in previous projects completed by the Contractor, and at least two (2) of those projects shall have been completed by the Contractor within the past five (5) years. If the Contractor references a Contractor-developed standard, it shall specify that standard and cite the projects for which it was successfully employed, and it shall provide a reference contact name and current phone number for each project so that SOS' review of the DED can include a discussion of the standard with the client.

Standards to be followed, as appropriate, in completing Deliverables include but are not limited to:

- Project management industry standards (i.e. Project Management Institute's PMBOK);
- Institute of Electrical and Electronics Engineers (IEEE); and
- Other Contractor-developed standard(s), under the conditions described in the previous paragraph.

In addition to the SOS, both the independent verification and validation (IV&V) and independent project oversight contractor (IPOC) team members will use the above standards in their reviews of Contractor Deliverables. This review process is mandatory for the VoteCal Project and the Contractor shall ensure sufficient time in the IPS is provided for the review and feedback by the oversight contractors, for all Deliverables, regardless of whether IV&V or IPOC review is explicitly mentioned in the context of a specific Deliverable. IV&V and IPOC reviews will be conducted concurrently with the State's reviews, and within the same timeframes. The findings of these reviews shall be discussed with the SOS Project Manager, SOS VoteCal Project Director and the Contractor as necessary. The SOS VoteCal Project Director shall make the final determination as to which of these findings shall be corrected by the Contractor prior to Acceptance of the Deliverable by SOS.

## C. PAYMENT MILESTONES

### **VoteCal Hardware and Third-Party & Contractor Commercial Proprietary Software Delivery and Payments**

The Contractor will deliver, install, and configure the Hardware and Third-Party and Contractor Commercial Proprietary Software included in the VoteCal solution and will be eligible to invoice SOS for this Hardware and Software separately from the VoteCal Project Deliverables (described below) at two points in the course of the VoteCal Project. The Contractor shall deliver the Hardware and Third-Party and Contractor Proprietary Software required to support the VoteCal Development, Test, and Training activities and related environments by the time work begins on Deliverable III.1 - VoteCal System Development, Test & Training Environments Certification. The Contractor may invoice for that Hardware

and Software upon SOS Acceptance of that Deliverable (where the Hardware/Software and Deliverable III.1 are separately invoiced items).

The Contractor shall deliver the Hardware and Third-Party and Contractor Proprietary Software required to support the VoteCal Pilot and Production activities and related environments by the time work begins on Deliverable IV.4.4 - VoteCal System Pilot and Production Environments Certification Report. The Contractor may invoice for that Hardware and Software upon SOS Acceptance of that Deliverable.

Software that is custom-developed for VoteCal (see VoteCal System Software in Attachment 1 – Statement of Work, Section 12.b) is not eligible for delivery and invoicing in the manner described here nor is there any single Deliverable representing such Software. VoteCal custom-developed Software is considered an integrated component of one or more of the VoteCal Project Deliverables (listed in the VoteCal System – Schedule of Deliverable Payments tables and narrative that follow).

**VoteCal Project Deliverables**

Each VoteCal Deliverable shall be billable upon SOS Acceptance of the Deliverable. In cases where SOS Acceptance of a Deliverable requires concurrent or prior SOS Acceptance of one or more other Deliverables, the Deliverable shall be billable upon Acceptance by SOS of both that Deliverable and the concurrent or prior Deliverable(s). In no event shall payment be made for a Deliverable until all prior Phase Deliverables have received Acceptance from SOS. The SOS shall make payments to the Contractor only once a month, and only for those Deliverables for which Acceptance by SOS was provided during the previous month. Twenty percent (20%) of the cost shall be withheld from payment for each Deliverable that has received Acceptance from SOS. The withheld amounts shall be payable to the Contractor according to the terms specified in Attachment 1 - Statement of Work, provision 13(e) - Twenty Percent 20% Withhold.

Contractor shall be paid a percentage of the Total Cost delineated in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost, exclusive of cost adjustments associated with Contract amendments, for SOS Acceptance of Deliverables according to the schedule below.

VOTECAL SYSTEM – SCHEDULE OF DELIVERABLE PAYMENTS		
Deliv #	Deliverable Description	% of Total Cost in Table VII.4, Line A4
<b>PHASE 0 - ONGOING PROCESS TASKS AND DELIVERABLES</b>		
<i>These Phase 0 Deliverables are ongoing throughout the VoteCal System Project and are subject to payments from Phase I through Phase VII. Payment for these Phase 0 deliverables is reflected in each phase beyond Phase 0 in the chart below.</i>		
0.1	Project Control and Status Reporting	
0.2	Maintain and Update Project Management Plans (as appropriate)	
0.3	Weekly Project Management Reports and Attend Weekly Project Meetings	
0.4	Attend Project Meetings with Key Business Users, County Users, Election Management System (EMS) Vendors, Other State Agencies and SOS Management (as required)	
0.5	Ongoing Issues Management and Risk Tracking	

VOTECAL SYSTEM – SCHEDULE OF DELIVERABLE PAYMENTS		
Deliv #	Deliverable Description	% of Total Cost in Table VII.4, Line A4
0.6	Written Monthly Project Status Reports	
0.7	Change Control Processes	
0.8	Communications Processes	
<b>PHASE I - PROJECT INITIATION AND PLANNING</b>		
<p><i>Where indicated below, SOS Acceptance of a Deliverable in this Phase is contingent upon prior or concurrent Acceptance by SOS of one or more other Deliverables. Deliverables in this Phase are not separately payable. Payment shall be made upon successful completion of the entire Phase, including SOS Acceptance of all Phase I Deliverables. The total of all Deliverables in this Phase is worth 5.0% of the Total Project Deliverables Cost as specified in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost and exclusive of cost adjustments associated with Contract amendments.</i></p>		
I.1	VoteCal Project Management Plan	
I.2	Integrated Project Schedule	
I.3	Quality Management Plan	
I.4	VoteCal Software Version Control and System Configuration Management Plan	
I.5	VoteCal System Organizational Change Management Plan	
I.6	VoteCal Requirements Traceability Matrix Plan	
I.7	VoteCal System Project Kick-Off Meeting	
I.8	Phase 0 Ongoing Process Tasks and Deliverables <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable I.9)</i>	
I.9	Final Report for Phase I <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable I.8 plus prior SOS Acceptance of all other Phase I Deliverables)</i>	
Phase Completion		5.0%
<b>PHASE II – DESIGN</b>		
<p><i>SOS Acceptance of <del>some each</del> Deliverables in this Phase is contingent upon prior or concurrent Acceptance by SOS of <del>where as</del> one or more other Deliverables <del>where as</del> indicated below. The total of all Deliverables in this Phase is worth 17.1% of the Total Project Deliverables Cost as specified in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost and exclusive of cost adjustments associated with Contract amendments.</i></p>		
II.1	VoteCal System Requirements Specifications <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables I.1, I.2, I.6, and I.7)</i>	0.9%
II.2	VoteCal System Functional Specifications <i>(Acceptance Criteria shall include prior SOS Acceptance <del>by SOS</del> of Deliverables <del>I.1, I.2, I.6, and I.7</del>)</i>	1.8%

<b>VOTECAL SYSTEM – SCHEDULE OF DELIVERABLE PAYMENTS</b>		
Deliv #	Deliverable Description	% of Total Cost in Table VII.4, Line A4
II.3	VoteCal System Detailed System Design Specifications <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.2 and II.6 <u>and concurrent SOS Acceptance of Deliverable II.4</u>)</i>	3.6%
II.4	VoteCal System EMS Integration and Data Exchange Specifications Document <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverable II.6 and concurrent SOS Acceptance of Deliverable <u>II.3-7</u>)</i>	0.9%
II.5	VoteCal System Detailed Requirements Traceability Matrix <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables <u>I.6</u>, II.4 and II.7)</i>	2.7%
II.6	VoteCal System Technical Architecture Documentation <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverable <u>II.1-#2</u>)</i>	1.8%
II.7	VoteCal System Data Model and Data Dictionary <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.3 and II.6 <u>and concurrent SOS Acceptance of Deliverable II.4</u>)</i>	1.8%
II.8	VoteCal System Data Integration Plan <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.4 and II.7)</i>	2.7%
II.9	VoteCal System Training Plan <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.2 and II.4)</i>	0.5%
II.10	Phase 0 Ongoing Process Tasks and Deliverables <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable II.11)</i>	
II.11	Final Report for Phase II <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable II.10 plus prior SOS Acceptance of all other Phase II Deliverables)</i> Phase Completion	0.4%
<b>PHASE III – DEVELOPMENT</b>		
<i><b>SOS Acceptance of each Deliverable in this Phase is contingent upon prior or concurrent Acceptance by SOS of one or more other Deliverables as indicated below. The total of all Deliverables in this Phase is worth 22% of the Total Project Deliverables Cost as specified in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost and exclusive of cost adjustments associated with Contract amendments.</b></i>		
III.1	VoteCal System Development, Test & Training Environments Certification Report <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverable II.6)</i>	3.1%
III.2	VoteCal System Test Plan <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.3, II.4 and II.7)</i>	3.8%
III.3	Acceptance Test Plan for Certification of EMS Data Integration and Compliance <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.4 and II.8)</i>	1.9%
III.4	VoteCal System Organizational Change Management Plan Updated <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables I.5, II.8 and II.9)</i>	1.2%

<b>VOTECAL SYSTEM – SCHEDULE OF DELIVERABLE PAYMENTS</b>		
Deliv #	Deliverable Description	% of Total Cost in Table VII.4, Line A4
III.5	VoteCal System Implementation and Deployment Plan <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.2 and II.8)</i>	3.8%
III.6	VoteCal System Source Code and Documentation <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.3, II.4, II.6, II.7 and III.1)</i>	7.4%
III.7	Phase 0 Ongoing Process Tasks and Deliverables <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable III.8)</i>	0.8%
III.8	Final Report for Phase III <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable III.7 plus prior SOS Acceptance of all other Phase III Deliverables)</i> Phase Completion	
<b>PHASE IV – TESTING</b>		
<i>SOS Acceptance of each Deliverable in this Phase is contingent upon prior or concurrent Acceptance by SOS of one or more other Deliverables as indicated below. The total of all Deliverables in this Phase is worth 20.5% of the Total Project Deliverables Cost as specified in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost and exclusive of cost adjustments associated with Contract amendments.</i>		
IV.1	VoteCal System Pilot County Data Integration Completion and Report <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables III.5 and III.6)</i>	4.3%
IV.2	VoteCal System Acceptance Test Completion, Results and Defect Resolution Report <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables III.3, III.6, and IV.1)</i>	7.7%
IV.3	VoteCal System Documentation and Updated VoteCal System Source Code <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverable IV.4)</i>	4.7%
IV.4	VoteCal System Pilot and Production Environments Certification Report <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables II.6, III.1 and IV.2)</i>	3.2%
IV.5	Phase 0 Ongoing Process Tasks and Deliverables <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable IV.6)</i>	0.6%
IV.6	Final Report for Phase IV <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable IV.5 plus prior SOS Acceptance of all other Phase IV Deliverables)</i> Phase Completion	

VOTECAL SYSTEM – SCHEDULE OF DELIVERABLE PAYMENTS		
Deliv #	Deliverable Description	% of Total Cost in Table VII.4, Line A4
<p><b>PHASE V – PILOT DEPLOYMENT AND TESTING</b></p> <p><i>Contractor’s submittal and SOS’ review and Acceptance of Deliverables in this Phase shall occur in the order indicated below. <u>SOS Acceptance and/or approval to begin work for each Deliverable in this Phase is contingent upon prior or concurrent Acceptance by SOS of one or more other Deliverables as indicated below.</u> The total of all Deliverables in this Phase is worth 15.1% of the Total Project Deliverables Cost as specified in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost and exclusive of any Contract amendments.</i></p>		
V.1	Develop VoteCal System Training Materials and Complete Training Before the Pilot <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables III.2, III.4, IV.2 and IV.3)</i>	4.5%
V.2	Conduct Pilot Testing and Provide Pilot Results Report (SOS approval to <del>proceed to conduct</del> <i>initiate</i> pilot testing is dependent upon <u>SOS Acceptance of Deliverables III.2, III.5, IV.1, IV.2, IV.4, and V.1.)</u>	5.2%
V.3	Updated System, Documentation and Training Materials including VoteCal System Source Code <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables V.1 and V.2)</i>	3.8%
V.4	Revised/Updated System Deployment Plan <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables III.5, V.2 and V.3)</i>	1.1%
V.5	Phase 0 Ongoing Process Tasks and Deliverables <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable V.6)</i>	0.5%
V.6	Final Report for Phase V <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable V.5 plus prior SOS Acceptance of all other Phase V Deliverables)</i>  Phase Completion	
<p><b>PHASE VI – DEPLOYMENT AND CUTOVER</b></p> <p><i>SOS Acceptance <del>of and payment for some and/or approval to begin work for each</del> Deliverables in this Phase <del>are is</del> contingent upon prior <u>or concurrent</u> completion and SOS Acceptance of <u>one or more</u> other Deliverables <del>where as</del> indicated below. The total of all Deliverables in this Phase is worth 15.2% of the Total Project Deliverables Cost as specified in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost and exclusive of any Contract amendments.</i></p>		
VI.1	VoteCal System County Elections Staff Training Completed <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables V.3, V.4 and VI.2)</i>	3.8%
VI.2	Updated Training of SOS Staff <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables V.3 and V.4)</i>	1.0%
VI.3	VoteCal System Help Desk Implementation and Support <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables V.3, V.4, and VI.1)</i>	2.3%

VOTECAL SYSTEM – SCHEDULE OF DELIVERABLE PAYMENTS		
Deliv #	Deliverable Description	% of Total Cost in Table VII.4, Line A4
VI.4	VoteCal System Remaining County Data Integration Completed and Tested for Compliance and Successful Integration <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverables VI.1, VI.2, and VI.3; SOS approval to proceed is required for initiation of deployment to counties)</i>	6.5%
VI.5	VoteCal System Final Deployment Report including Delivery of Updated VoteCal System Source Code and System Documentation <i>(Acceptance Criteria shall include prior SOS Acceptance of Deliverable VI.4)</i>	1.1%
VI.6	Phase 0 Ongoing Process Tasks and Deliverables <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable VI.7)</i>	0.5%
VI.7	Final Report for Phase VI <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable VI.6 plus prior SOS Acceptance of all other Phase VI Deliverables)</i>  Phase Completion	

PHASE VII – FIRST YEAR OPERATIONS AND CLOSE-OUT		
<p><i>SOS Acceptance and/or approval to begin work for each Deliverable in this Phase is contingent upon prior or concurrent Acceptance by SOS of one or more other Deliverables as indicated below. The total of all Deliverables in this Phase is worth 5.1% of the Total Project Deliverables Cost as specified in Cost Table VII.4, Line A4 – VoteCal System Project Deliverables Cost and exclusive of any Contract amendments. This Phase shall begin upon SOS VoteCal Project Director's approval to proceed, which will be based on confirmation of VoteCal System Acceptance by SOS (as defined in Attachment 1 Section 10(e)).</i></p>		
VII.1	Monthly Operations Support and Performance Reports <i>(Billable monthly in Phase VII; Project Director approval required to initiate Phase VII as described in Attachment 1 Section 10(e))</i>	2.500%
VII.2	VoteCal System Final Documentation and Current VoteCal System Source Code <i>(Acceptance Criteria shall include concurrent SOS Acceptance of the twelfth (12<sup>th</sup>) Monthly Operations Support and Performance Report)</i>	1.8%
VII.3	Phase 0 Ongoing Process Tasks and Deliverables <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable VII.4)</i>	0.8%
VII.4	Complete Contract Implementation Close-out <i>(Acceptance Criteria shall include concurrent SOS Acceptance of Deliverable VII.3 plus prior SOS Acceptance of all other Phase VII Deliverables)</i>	

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## **D. DELIVERABLE DEVELOPMENT**

Contractor's work on each Deliverable shall commence after SOS Acceptance of the DED for that Deliverable. (See Attachment 1, Section 10.f – Deliverable Expectation Documents and Attachment 1, Section 10.g – DED Information and Formats for additional information about required DED content and acceptance process; see Attachment 1, Exhibit 3 – Sample Deliverable Expectation Document for the DED template.)

## **E. TASKS AND DELIVERABLES**

### **PHASE 0 - ONGOING PROCESS TASKS AND DELIVERABLES**

The Contractor shall perform all Phase 0 processes, tasks, and Deliverables throughout the VoteCal Project. For purposes of this Statement of Work, these are referred to in each Phase description as "Phase 0 Ongoing Process Tasks and Deliverables."

#### **Deliverable 0.1 – Project Control and Status Reporting**

Contractor's Project Executive and Contractor's Project Manager shall conduct monthly Project Management Reviews to present the current and cumulative project status information related to assigned open and ongoing Project issues and risks in accordance with Deliverable I.1 – VoteCal Project Management Plan (PMP). These reviews shall be held with the VoteCal Project Manager, Project Director, IPOC and IV&V Contractor, and no later than four (4) State business days after the last day of the previous month.

Contractor's Project Executive shall present monthly project status reports to the VoteCal Executive Steering Committee (ESC) meetings. At the monthly VoteCal ESC Meeting, the contractor's Project Manager shall provide for the reporting period: a summary of contractor activities; accomplishments to date; significant decisions; an explanation for any tasks that are delayed and how the schedule delays will be recouped; recommendations for issue resolution for all issues; and recommendations for mitigation of high-severity risks.

Additional meetings the Contractor shall attend include, but are not limited to:

- Daily informal meetings between SOS Project Manager, Contractor Project Manager, and/or their designees;
- Weekly Management meetings between SOS and Contractor Project Managers;
- Ad Hoc meetings on Contractor adherence to VoteCal project management processes and practices.

This Deliverable is required throughout all Phases of the VoteCal Project.

#### **Deliverable 0.2 – Maintain and Update Project Management Plans**

Contractor shall maintain and update all Project Management Plans that are defined as Deliverables for Phase I – Project Initiation and Planning, as well as the IPS (Deliverable I.2), as required by events or at prescribed intervals during the life of the VoteCal Project. The IPS shall be updated biweekly at a minimum, shall be submitted to SOS no later than two (2) State business days after the end of the immediately preceding two (2) calendar week period, and shall adhere to all standards defined in the SOS Schedule Management Plan and the Contractor's VoteCal Project Management Plan (PMP). All Project Management Plans must be updated at the end of each Phase, and at any other significant event in the Project lifecycle.

This Deliverable is required throughout all Phases of the VoteCal Project.

**Deliverable 0.3 – Weekly Project Management Reports and Attend Weekly Project Meetings**

Contractor's Project Manager shall provide to the VoteCal Project Manager a written weekly summary of activities for the reporting period including: significant activities initiated, significant activities completed, activities planned but not completed, activities planned for next reporting period, schedule status (including planned versus actual and reasons for variances) and significant action items, identified or assigned project risks and project issues (with a description of the action item, risk or issue, due date of resolution, and planned activities to address it), and significant decisions made. The Contractor's Project Manager shall attend weekly project status meetings in person to discuss the report, no later than three (3) State business days after the end of the reporting period. The reporting period is Monday through Friday. The report shall be presented to the SOS Project Manager at least one (1) full State business day prior to the weekly status meeting. To the degree the report is found to be incomplete or inaccurate, the Contractor's Project Manager shall revise the report and present as a final deliverable for Acceptance.

This Deliverable is required through all Phases of the VoteCal Project.

**Deliverable 0.4 – Attend Project Meetings with Key Business Users, County Users, Election Management System (EMS) Vendors, Other State Agencies, and SOS Management as Required**

Contractor's Project Manager or designated team member shall be available as required by the VoteCal Project Manager to attend Executive Steering Committee (ESC) Meetings, County User Meetings, SOS called meetings, and meetings with other State Agencies (e.g., DMV, CDPH, CDCR, and EDD) related to the project.

This Deliverable is required through all Phases of the VoteCal Project.

**Deliverable 0.5 – Ongoing Issues Management and Risk Tracking**

Contractor shall identify and submit issues and risks, and shall participate in the SOS' Risk Management and Issue Management processes, as described in the SOS' Risk Management Plan and Issue Management Plan. (Please see Bidder's Library for current Risk and Issue Management Plans.) Contractor shall track the current and cumulative project status information related to Contractor's open and ongoing issues and risks. Contractor's ongoing Issue and Risk Reports shall be part of the Weekly Status Meetings and written Monthly Project Status Reports. Contractor shall report on project management, business, and technical-assigned Project risks and issues to the VoteCal Project Manager, or designee. Contractor shall present this report at each status meeting using a format that includes:

- Identification of project issues and potential risks;
- Management of technical issues or risks;
- Analysis and mitigation strategies for issues and risks;
- Status of the issues and risks, (i.e., open, pending, under investigation or resolved);
- Appropriate tracking dates;
- Person and organization responsible for resolution;
- Contractor's recommendations for resolving issues or risks.

This Deliverable is required through all Phases of the VoteCal Project.

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### **Deliverable 0.6 – Written Monthly Project Status Reports**

Contractor's Project Manager shall prepare a written Monthly Project Status Report (MPSR) summarizing progress against SOS-approved performance metrics, milestones against baseline data, status to schedule and reasons for significant variances from the IPS. Contractor shall include information on the status of the collection of progress information from internal and external stakeholders and corrective action that was taken to confirm that overall project delivery is met. Contractor shall include specific information on issue and risk status and recommendations for mitigating risks/issues, for all issues and for high-severity risks. This report shall cover all project management areas including but not limited to Schedule, Change Control, Organizational Change Management and Quality Management activities. This report shall also include all activities for the preceding month including, when applicable, the system's performance against all Service Levels specified in the RFP. To the degree the report is found to be incomplete or inaccurate, the Contractor's Project Manager shall revise the report and present as a final deliverable for acceptance. Contractor's Project Manager shall be required to attend meetings on SOS premises to present the monthly reports to the VoteCal Project Manager and Project Director and separately to SOS management including the ESC. The monthly report shall be due to SOS's Project Manager (or designee) on the  ~~fifth (5<sup>th</sup>)~~ third (3<sup>rd</sup>) State business day of the month following the end of the previous month. Period of the report shall be the previous calendar month.

This Deliverable is required through all Phases of the VoteCal Project.

### **Deliverable 0.7 – Change Control Processes**

Contractor shall participate in the Project Change Control Meetings and Change Control processes in accordance with the SOS' Change Control Plan. (Please see Bidder's Library for the VoteCal Change Control Plan.)

This Deliverable is required through all Phases of the VoteCal Project.

### **Deliverable 0.8 – Communications Processes**

Contractor shall contribute content to all written communications, as needed throughout the VoteCal Project, per the SOS Communication Plan, unless otherwise specified by SOS. (Please see Bidder's Library for the VoteCal Communication Plan.)

This Deliverable is required through all Phases of the VoteCal Project.

## **PHASE I - PROJECT INITIATION AND PLANNING**

The following is a list of the plans the Contractor shall prepare in Phase I and shall use to guide its management of Project work. Each plan shall conform to relevant industry standards as defined below for the specific plan as well as in the plan's DED for which SOS has provided Acceptance.

### **Deliverable I.1 – VoteCal Project Management Plan**

The SOS has an approved SOS-specific Project Management Plan (PMP). The Contractor either (1) shall enhance and adopt the SOS PMP and make it its own PMP, and therefore accept all responsibility for employing it; or (2) shall develop its own VoteCal PMP. (Please see Bidder's Library for current approved versions of SOS VoteCal plans.) Contractor shall submit the updated PMP within thirty (30) calendar days of Contract Award Date. Content shall include, at a minimum, the following components:

- Project Overview;

- Project Work Breakdown Structure;
- Management Objectives and Priorities;
- Roles and Responsibilities;
- Project Assumptions, Dependencies, and Constraints;
- Procedures for Reviewing and Updating the PMP per SOS' Change Control Plan;
- Project Deliverables and Milestones;
- References, Definitions (VoteCal Glossary), and Acronyms;
- Integration of Contractor's risk and issue management procedures with SOS' VoteCal Project processes;
- Project Schedule Management Plan for the IPS including resource updates, tracking of resource activities, tracking of milestone progress and reporting, critical path monitoring, schedule issues resolution of schedule variances, status reporting based on work breakdown structure, and contingency activities.

The delivered PMP shall conform to Project Management Institute's PMBOK (v.4.0) or equivalent standards.

This PMP shall be implemented upon completion and shall be updated at the end of each Phase as required during the life of the VoteCal Project.

#### **Deliverable I.2 – Integrated Project Schedule**

In collaboration with the VoteCal Project Manager (or designees), the Contractor shall, within ninety (90) calendar days of Contract Award Date, update the IPS that Contractor submitted in its Final Proposal, identifying major activities the Contractor shall undertake to complete its Deliverables in a timely manner. The updated and submitted IPS shall also include identification of all activities that other contractors and SOS staff must perform in order for the Contractor to complete its required activities and Deliverables as described in this Exhibit. (For example, EMS vendors must complete remediation of systems before Contractor can test interfaces; SOS staff must provide Acceptance for the DED for a Deliverable before Contractor works on the Deliverable.) In addition, the IPS must accommodate time for the SOS VoteCal Project Director or designee, the IPOC and/or IV&V to inspect any of Contractor's work in progress as described in Attachment 1, Section 10(h) – Inspection of Work in Progress.

The IPS shall include a work decomposition that includes resource loading of all contractors (including the SI vendor/Contractor, election management system vendors, other state departments, independent verification and validation, quality assurance, etc.) as well as SOS staff, and shall have start and finish predecessors and successor dependencies identified for each task. In addition, the IPS shall clearly identify all Phases, payment and interim milestones.

The IPS shall be developed and maintained using MS Project 2007. Management and updating of the IPS shall conform to VoteCal Schedule Management standards, processes, and roles and responsibilities that will be defined and documented in the VoteCal Schedule Management Plan.

The Contractor shall maintain one IPS which captures all work for all of Contractor's Deliverables across the Project. The Contractor shall be responsible for defining and tracking all tasks and dependencies related to completion of its contracted Deliverables. The IPS shall be comprehensive and detailed for the current and upcoming Phase, but may be more high-level for later Phases. Twenty (20) State business days prior to the start of each Phase, the Contractor shall present a comprehensive and detailed IPS that includes full detail for that Phase for Acceptance by SOS.

Upon SOS Acceptance of the IPS, Contractor shall participate in the biweekly ongoing schedule maintenance and schedule update processes. Contractor shall follow the defined procedures and standards documented in the SOS Schedule Management Plan. Contractor shall (1) gather and

incorporate updates on schedule work products into MS Project 2007, (2) elaborate and develop detailed work breakdown and duration estimates required for rolling wave planning, and (3) conduct and complete schedule analysis and schedule quality assurance activities that are required to control performance.

The Contractor shall update its IPS, including progress on SOS staff work and other SOS contractor work that is relevant to Contractor Deliverables, at least biweekly and shall submit the updated IPS, incorporating progress as of the end of each two week period, to the VoteCal Project Manager or designee within two (2) State business days of the end of that two week period. This Contractor's IPS update process shall include work with the VoteCal Project Manager (or designee) to complete schedule quality assurance to verify that dates, resource allocations, percentages, etc. are correct, and thereby ensure that reporting against baseline data can be generated accurately according to the quality-related components outlined in the SOS Schedule Management Plan.

### **Deliverable I.3 – Quality Management Plan**

Contractor shall deliver, within ninety (90) calendar days of Contract Award Date, a Quality Management Plan in accordance with the PMP, the Contractor's IPS and the Quality Management Plan DED for which SOS has provided Acceptance. The Quality Management Plan shall include a complete description of Contractor's quality management process, methodology, and the specific standard(s) on which the details of the Plan are based. If multiple standards are used, the Plan shall specify which portions of these standards were used in the development of each portion of the plan. At a minimum, the Quality Management Plan shall conform to IEEE 730-2002 (Standard for Software Quality Assurance) or equivalent standards.

The Quality Management Plan shall include provisions for the SOS team (including IV&V and IPOC) to periodically review Contractor-specific plans, work in progress, etc., such reviews to be coordinated with the Contractor so as to minimize any disruption to ongoing work.

The Quality Management Plan shall be implemented, and shall be updated at the end of each Phase and as required during the life of the VoteCal Project.

### **Deliverable I.4 – VoteCal Software Version Control and System Configuration Management Plan**

The Contractor shall develop and implement a Software Version Control and System Configuration Management Plan in accordance with this Deliverable's DED for which SOS has provided Acceptance. As part of this plan the Contractor shall develop a Document Management Plan component addressing how project documents and Deliverables will be controlled and how Deliverables will be tracked with respect to versioning, including method and tools (if appropriate). Contractor shall also develop a Release Management component of the Software Version Control and System Configuration Management Plan for managing all releases of the entire VoteCal System, including methods of migration through the various environments of the VoteCal System, tools to be used, scheduling and timing of releases, etc.

The Software Version Control and System Configuration Management Plan shall conform to IEEE 828-2005 (Software Configuration Management Plans) or equivalent standards.

Contractor shall provide the Software Version Control and System Configuration Plan within ~~thirty-sixty~~ (360) calendar days of Contract Award Date for review and Acceptance by SOS.

The Software Version Control and System Configuration Management Plan shall be implemented and shall be updated as required during the life of the VoteCal Project.

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### **Deliverable I.5 – VoteCal System Organizational Change Management Plan**

Contractor shall develop a VoteCal System Organizational Change Management Plan (OCMP) within 90 calendar days of Contract Award Date, in accordance with the OCMP DED for which SOS has provided Acceptance. The OCMP shall address the anticipated business process changes necessitated by the implementation of the VoteCal system, both for SOS and for county elections officials' staff, as well as how users and stakeholders will be managed to maximize buy-in, minimize disruption in business processes and ensure Project success. The OCMP shall include a discussion of the change management strategy and shall address an assessment of workplace readiness for implementation of the solution. The OCMP shall also address the pilot implementation and how the lessons learned from that implementation will be incorporated into the Plan. Finally, the OCMP shall include a discussion of the impact on county elections officials' staff of implementing the VoteCal System and methods of mitigating the issues arising from that implementation.

The Contractor's OCMP shall conform to ISO 9001:2008 or equivalent industry standards.

There is an Organizational Change Management Plan in the Bidder's Library that was developed for this Project and formally accepted by the SOS. Contractor may incorporate any or all portion(s) of this existing VoteCal Organizational Change Management Plan into the Contractor's OCMP Deliverable. If the Contractor uses any of the content in the SOS-approved Organizational Change Management plan for its OCMP, Contractor accepts full responsibility for meeting all requirements associated with the adopted contents of SOS's accepted plan.

The OCMP shall be implemented and shall be updated in Phase III – Development. The Deliverable shall also be updated at other points in the VoteCal Project as required throughout the life of the Project.

### **Deliverable I.6 – VoteCal Requirements Traceability Matrix Plan**

Contractor shall ~~develop~~~~deliver~~, within ~~sixty (360)~~ calendar days from Contract Award Date and in accordance with the DED for which SOS has provided Acceptance, a VoteCal Requirements Traceability Matrix Plan that sets forth how the Requirements Traceability Matrix (Deliverable II.5) shall be developed, updated and used to track requirements, programming, and test scenarios during all Phases of the Project. This Plan shall describe how the Contractor will populate and manage the Requirements Traceability Matrix, and how the Matrix will allow for linking test scenarios during Phase IV – Testing, Phase V – Pilot Deployment and Testing, and Phase VI – Deployment and Cutover. This Plan shall also address the traceability approach to RFP requirements and how requirement changes will be managed. This Plan and data from the Requirements Traceability Matrix shall be evaluated by SOS' IV&V vendor as part of the Acceptance Tests for this Deliverable and throughout the Project.

The Contractor shall populate and manage the Requirements Traceability Matrix, and shall provide access to the Matrix data in its raw form and supporting information to the IV&V vendor upon request.

The Requirements Traceability Matrix Plan and the resultant Requirements Traceability Matrix shall conform to relevant industry standards (to be determined by Contractor and approved by SOS as part of SOS Acceptance of the DED for this Deliverable), including IEEE 1233-1998 (Guide for Developing System Requirements Specifications), IEEE 830-1998 (Recommended Practice for Software Requirements Specifications), Capability Maturity Model Integration for Development, Version 1.2 (CMMI 1.2) Requirements Development Process Area, or equivalent standards subject to approval by the SOS.

This Requirements Traceability Matrix Plan shall be implemented and shall be updated as required during the life of the VoteCal Project.

### **Deliverable I.7 – VoteCal System Project Kick-Off Meeting**

Contractor shall provide a draft agenda and materials to the VoteCal Project Manager and Project team for and participate in one or more Project Kick-Off meetings that review the goals and scope of the Project, present a summary of the key phases and activities (including key milestones in the IPS), discuss major activities or efforts that will be required of meeting participants, and provide other information of interest to the participants. This meeting or meetings shall be held with different stakeholders, which could include SOS Management and staff, County representatives, EMS vendors, and other State Agencies.

### **Deliverable I.8 – Phase 0 Ongoing Process Tasks and Deliverables**

Contractor shall perform all tasks, processes, and activities required in Phase 0 throughout the VoteCal Project.

### **Deliverable I.9 –Final Report for Phase I**

Contractor shall submit a report indicating that all Phase activity is complete, including the status of Deliverables and outstanding issues along with mitigation strategies for issues.

## **PHASE II – DESIGN**

The Deliverables in Phase II – Design, taken together, shall detail the Contractor's planning for, delivery of, and planned features of the entire VoteCal solution. Each Deliverable shall clearly articulate the Contractor's vision for the solution. All Deliverables that describe application components shall be at a level of detail sufficient to develop test cases and training materials. Additional Deliverable-specific Acceptance Criteria shall be specified in the DED for which SOS provides Acceptance.

### **Deliverable II.1 – VoteCal System Requirements Specifications**

Contractor shall develop a System Requirements Specifications document for the VoteCal System, database and interfaces with EMS' and external agencies. This Deliverable shall conform to the DED for which SOS has provided Acceptance, the PMP, and the IPS. At a minimum, the Deliverable shall include the following:

- Executive summary of the document's content;
- Specific standard on which the systems requirements specification document was based. If multiple standards are used, the plan shall specify in detail which portions of these standards were used in the development of the specification;
- Description of the general architectural design for the VoteCal System;
- General interface specifications for integration with DMV, CDCR, EDD, ~~and~~ CDPH, EMSs, and Calvoter;
- Description of the database;
- Description of processing functions;
- Description of how the VoteCal System is backed up and restored;
- How any Contractor Commercial Proprietary Software, Third Party Software and any Hardware/Software products included within the Platform Environment will be integrated into the VoteCal solution;
- Tools to be used (e.g. programs, reporting tools);
- Configuration and modification;
- Environment specifications;
- Tools to manage the entire VoteCal System;

- Detailed technical requirements to be met by the VoteCal solution, based on the requirements listed in Table VI.2 – VoteCal Technical Requirements and Response Form and elaborated and supplemented as necessary for purposes of preparing Phase II – Design Deliverables.

### **Deliverable II.2 – VoteCal System Functional Specifications**

Contractor shall develop a VoteCal System Functional Specifications document in accordance with the DED for which SOS has provided Acceptance, the PMP, ~~the System Requirements Specification (Deliverable II.1) for which SOS has provided Acceptance~~ and the IPS. Contractor shall document specifications for the user application interfaces, business processing logic, data flows, processes, reporting/querying capability and pre-defined reports and extracts as described in multiple business requirements in Section VI – Project Management, Business and Technical Requirements and elaborated and clarified as necessary for purposes of this Deliverable. The System Functional Specifications Document shall identify specific standards on which it is based. If multiple standards are used, the System Functional Specifications document shall specify in detail which portions of these standards were used in the development of each portion of the Deliverable document.

The VoteCal System Functional Specifications shall demonstrate that the documented specifications included in this Deliverable support all detailed business requirements that are to be met by the VoteCal solution, as initially described in Section VI – Project Management, Business and Technical Requirements and elaborated and supplemented as necessary for purposes of preparing this Deliverable.

The description of user interface standards must include description of:

- How required fields will be identified;
- How error messages will be displayed;
- How and when confirmation prompts (e.g., OK/Cancel, Yes/No) will be displayed;
- ~~How and when technologies like partial page post backs (AJAX) will be used;~~
- How and when any client side validation will be performed;
- The use of default buttons (e.g., pressing enter for submit);
- Use of Drop Down Lists including:
  - <Select One>
  - Standard for “not applicable” value (e.g., N/A, NONE, or blank)
  - Use of Type Ahead
- Usage of menus and navigation in general, including how security/permissions are handled;
- User access to help functions; and
- Use of real-time progress indicators (e.g., an hourglass).

### **Deliverable II.3 – VoteCal System Detailed System Design Specifications**

Contractor shall provide a VoteCal System Detailed System Design Specifications document in accordance with the DED for which SOS has provided Acceptance, the PMP, the VoteCal System Functional Specifications (Deliverable II.2) for which SOS has provided Acceptance, ~~the VoteCal System EMS Integration and Data Exchange Specifications Document (Deliverable II.4) which shall be reviewed and accepted by SOS concurrent with this deliverable,~~ the VoteCal System Technical Architecture Documentation (Deliverable II.6) for which SOS has provided Acceptance and the IPS. Deliverable II.3 shall provide a detailed description of the VoteCal System requirements. This Deliverable shall identify specific standards on which the detailed system design specifications were based. If multiple standards are used, the Deliverable shall specify in detail which portions of these standards were used in the development of the specifications. This Deliverable shall include references to other VoteCal System

Deliverables as necessary to avoid duplication of information. At a minimum, the Deliverable shall include the following:

- An executive summary of the document's content;
- Identification and description of each VoteCal System component to include:
  - Hardware platform, manufacturer and model
  - Software operating system
  - Commercial Software applications (including Third-party and Contractor Commercial Proprietary Software)
  - Software custom-developed by Contractor for VoteCal (VoteCal System Software)
  - Language or technology of custom Software
  - Interfaces to other VoteCal system components
- A description and specification of each external VoteCal System interface, including identification of the interfacing component and data transport technology;
- A description of how each data element defined in the VoteCal system requirement is stored and maintained, including relevant data characteristics and constraints;
- A general description of the Data Model and Data Dictionary, each to be addressed in more detail in Deliverable II.7;
- Programming standards and specifications;
- Detailed design specifications for all reports and extracts;
- A description of how each process or action and transaction defined in the VoteCal System technical and business requirements referenced in Section VI – Project Management, Business and Technical Requirements and included–elaborated in Deliverable II.1 – VoteCal System Requirements and Deliverable II.2 – VoteCal System Functional Specifications will be implemented, including the role of each component and identification of any constraints; and
- A description of how each business process defined in the VoteCal System requirements is implemented, including the sequence and timing of actions and transactions and logical outcomes.
- Screen mock-ups for the SOS user interface, including inputs, outputs, field specifications, field validations and other elements to document user interface functionality.

Contractor shall, as part of completion of this Deliverable, complete training and knowledge transfer to SOS IT and Elections staff on the database design, dictionary, and architecture, with sufficient lead time to enable SOS staff to complete test cases and preparations for SOS User Acceptance Testing (UAT) in accordance with the IPS. Acceptance Criteria for this Deliverable shall include SOS-acknowledged completion of this training and knowledge transfer which will be defined as part of the DED for this Deliverable.

#### **Deliverable II.4 – VoteCal System EMS Integration and Data Exchange Specifications Document**

Contractor shall develop the EMS interface and data exchange specifications, in accordance with the DED for which SOS has provided Acceptance and based on the detailed solution design as described in Deliverables II.3 - VoteCal System Detailed System Design Specifications and II.7 - VoteCal System Data Model and Data Dictionary. The Deliverable shall include system configuration and modification specifications and data standards, so that the EMS vendors can make the required modifications to their election management systems for integration with the VoteCal System. This document shall address, at a minimum, data validation and synchronization, data elements and standards, file and database names and descriptions, file structures, transaction timing, business processes, security and network connectivity. The Deliverable shall also include mechanisms and procedures (including Test Cases where appropriate) for the SOS to use on an ongoing basis to ensure continuing EMS compliance with VoteCal data requirements after deployment, as well as training for SOS staff in the use of those mechanisms and procedures.

As part of preparation of this Deliverable, Contractor shall gather and incorporate input and comments on draft Deliverable content from EMS vendor representatives.

### **Deliverable II.5 – VoteCal System Detailed Requirements Traceability Matrix**

Contractor shall provide a Requirements Traceability Matrix in accordance with the DED for which SOS has provided Acceptance, the VoteCal Requirements Traceability Matrix Plan (Deliverable I.6), the PMP and the IPS. Contractor shall organize and manage the itemized list of business and technical requirements for the VoteCal System, as defined in Section VI – Project Management, Business, and Technical Requirements.

Contractor shall analyze and map all detailed business and technical requirements, business rules, and detailed specifications for the proposed system that it is providing – in VoteCal System Deliverables II.1 – VoteCal System Requirements Specifications, II.2 – VoteCal System Functional Specifications, II.3 – VoteCal System Detailed System Design Specifications, II.4 – VoteCal System EMS Integration and Data Exchange Specifications Document, II.6 – VoteCal System Technical Architecture Documentation, and II.7 – VoteCal System Data Model and Data Dictionary – to satisfy the business and technical requirements contained in of the RFP, Section VI - Project Management, Business and Technical Requirements. All requirements shall be traceable throughout all Phases of the VoteCal Project. This Matrix shall be updated at the end of each Phase of the VoteCal Project to ensure traceability is maintained throughout the life of the Project. All raw data in this Matrix shall be made available to the IV&V and IPOC vendors at any time it is requested.

At a minimum, requirements in the Requirements Traceability Matrix shall:

- Have a unique, traceable identifier or identification code assigned to each requirement;
- Be grouped into highest level of business, technical, and administrative categories;
- Be associated with an implementation or development task in which Contractor will fulfill the requirement;
- Identify any successor requirements that are dependent upon fulfillment of the requirement; and,
- Identify any precursor requirements that must be fulfilled in order to meet the requirement.

### **Deliverable II.6– VoteCal System Technical Architecture Documentation**

Contractor shall provide Technical Architecture Documentation, in accordance with the DED for which SOS has provided Acceptance, which describes the logical, physical, and implementation details of the entire VoteCal System. The Technical Architecture Documentation Deliverable shall describe how the Hardware and Software, inclusive of custom-developed Software (VoteCal System Software), Third-Party and Contractor Commercial Proprietary Software will be integrated to support the proposed solution. The Deliverable shall provide a clear explanation of and distinction between logical and physical architectures, and include detailed explanation of diagrams, with meaning of all technical terms clearly defined. This Deliverable shall include updated versions of the inventories detailing the new Hardware and Third-Party and Contractor Commercial Proprietary Software products (initially submitted in the Contractor's Proposal using Exhibit VI.3 – VoteCal Third Party Software Products List, Exhibit VI.4 - VoteCal Contractor Commercial Proprietary Software Products List and Exhibit VI.5 - VoteCal System One-Time Hardware List) as well as identify the pre-existing SOS Hardware and Software included within the VoteCal solution. For each new Hardware product/component, the updated Hardware inventory must specify the electrical load and BTU requirements and, at a minimum, the information that was included in Exhibit VI.5 in the Contractor's proposal.

This Deliverable must also include updated and, as warranted, new visual diagrams and narrative that specify the attributes of and components included within each of the up to eight (8) racks that the Contractor has specified to support the VoteCal System solution operating within the SOS Data Center. This information must include specifying the BTU and electrical load requirements for each rack as well as the total BTU and electrical load requirements for the VoteCal System solution operating within the SOS Data Center (inclusive of all required Development, Testing, Training and Production environments). This information should reflect any required updates and elaboration on the information

initially submitted in Exhibit VI.6 - VoteCal System Rack Diagram and Description within the Contractor's proposal.

The Deliverable shall also explain data exchange interfaces, including those with the EMSs, DMV, EDD, CDPH and CDCR. Discussion of the database layer shall include description of the physical implementation of the database, including but not limited to database partitioning, replication and optimization strategies.

The Technical Architecture Documentation Deliverable shall include the following at a minimum:

- Executive Summary of the VoteCal System Technical Architecture;
- Description of technical environments;
- Logical Architecture;
- Physical Architecture;
- How the architecture addresses performance, availability, data/application/server/physical security, scalability, maintainability, accessibility, deploy ability, and extensibility;
- List of all new Hardware and Software products to be provided within the VoteCal System (and required information for each component);
- Visual and narrative description of each of up to eight (8) racks supporting the VoteCal System solution within the SOS Data Center (inclusive of components loaded in each)
- Delineation of the environments to be provisioned (e.g., Development, Test, Training, Pilot, Production, etc.), with a timeline --- for deployment and distribution of each environment which should take into consideration Deliverables III.1 and III.4 and is incorporated into the IPS --- and a map of refresh and migration paths across environments;
- Specification of remote access that SOS will enable between SOS VoteCal environment(s) by extending an MPLS node to an external Contractor location (for multiple VoteCal environment) and to each of the three (3) EMS vendors facilities (for the VoteCal Testing environment only);
- Specifying the configuration within the SOS Data Center to support VoteCal Backup/Recovery from Phase V forward (inclusive of required Hardware and Software) and the bandwidth required on the SOS network to/from the external Backup/Recovery facility/environment;
- Load balancing and/or other provisions to maximize performance;
- How the public website will be placed so as to protect the security of the VoteCal System's database and its applications;
- Minimum end user and administrator workstation requirements; and
- A glossary that defines all technical terms used in the document.

This Deliverable must identify all environmental requirements to support the proposed system within the SOS Data Center (e.g., electrical power requirements, HVAC, etc.). Contractor shall also specify within this Deliverable any changes that Contractor deems necessary to network Hardware or Software, and/or network configuration management components (as listed in response to the T6 series of requirements).

SOS will make such changes to SOS infrastructure, physical space and/or environmental capacities (e.g., electrical receptacles, UPS) that do not exceed SOS' stated capacities and constraints in compliance with appropriate State policies and procedures and within a timeframe that is mutually acceptable to SOS and the Contractor and which allows sufficient time for securing DGS approvals for such changes (if needed). The Contractor should be aware that the State must obtain approval of most changes to the SOS data center from the Department of General Services (DGS) and the California Technology Agency, and that this approval process can take four to six (4 to 6) calendar months. If the Contractor determines in working with SOS technical staff that any changes to identified in this Deliverable must be coordinated through DGS, the Contractor's plan and schedule (as reflected in the IPS) for implementation of such changes shall appropriately reflect the time required for this approval process as well as the availability of appropriate SOS staff.

The Deliverable shall reflect the fact that SOS treats all county traffic as potentially hostile and trusts only specific IP addresses to access resources.

In determining distribution of architecture elements, the Contractor shall adhere to SOS policy that prohibits storage of identifiable voter data at facilities that are not SOS-controlled.

The architecture description in this Deliverable shall be implemented, and the Deliverable shall be updated as required throughout the life of the VoteCal Project.

### **Deliverable II.7 – VoteCal System Data Model and Data Dictionary**

Contractor shall develop and update the VoteCal System Data Model and Data Dictionary based on information in the VoteCal System Functional Specification (Deliverable II.2), the VoteCal System Detailed Design Specifications (Deliverable II.3) and the VoteCal System Technical Architecture Documentation (Deliverable II.6). The Deliverable shall support and be consistent with Deliverable II.4 - VoteCal System EMS Integration and Data Exchange Specifications Document. The Deliverable shall conform to the Deliverable II.7 DED for which the SOS has provided Acceptance, the PMP, and the IPS.

The data model presented in this Deliverable shall define all the data elements and relationships among them and how the data will be represented and accessed. The Contractor shall propose an appropriate data modeling language as part of the submitted DED for this Deliverable. The VoteCal System data shall be modeled in a standard, consistent, and predictable manner, thus facilitating the data model as a major resource to the Project. The data model shall be dynamic and the Contractor shall keep the model up-to-date at all times as part of ongoing Software configuration management.

The data dictionary portion of this Deliverable shall catalog the organization, content, and conventions of the VoteCal System database, including the names and descriptions of all tables and fields, and additional details, such as the type and length of each data element, as well as any other information relevant to each data item. The data dictionary will be dynamic and the Contractor shall keep the data dictionary up-to-date at all times as part of ongoing Software configuration management.

Contractor shall, as part of completion of Deliverable II.7, complete training and knowledge transfer with sufficient lead time to enable SOS staff to complete test cases and preparations for SOS UAT. Accordingly, Acceptance Criteria for this Deliverable shall include SOS-acknowledged completion of this training and knowledge transfer which shall be defined by Contractor as part of the DED for this Deliverable.

### **Deliverable II.8 – VoteCal System Data Integration Plan**

Contractor shall develop the VoteCal System Data Integration Plan (DIP) in accordance with the DED for which SOS has provided Acceptance, the PMP and the IPS. The DIP shall describe the sequence of steps in data integration, including the integration of multiple records from different counties into a single record for each voter. Contractor's delivered DIP shall include the extent of data integration as well as a recommendation of the timing of and the method by which the county historic data (including all cancelled records) will be integrated and imported into the VoteCal system. The DIP shall address the Contractor conversion strategy of "cut-over", "phased", or "parallel processing" with Calvoter until the VoteCal System becomes the single database of record and the full VoteCal solution is implemented, with contingency provisions for rollback ("cut-back") in Phase V – Pilot Deployment and Testing and all subsequent Phases. Data integration for the pilot counties shall be addressed in addition to integration of the remaining counties. SOS expects that data integration for each county will be performed only once. The integrity of the existing Calvoter systems and data (which constitute the State's current official list of registered voters), shall be maintained through the end of Phase VI – Deployment and Cutover.

The DIP shall document the integration process for each of the EMSs currently in use. Additionally, the DIP shall cover the following aspects of voter record integration:

- Integration scope;
- Integration method, strategy, and environment;

- Integration controls;
- Integration testing and certification tasks and testing scenarios to be complete in preparation for the integration event;
- Integration Team, positions, functions for which team members are responsible;
- Integration process, schedules, tools, and interfaces that will be required to facilitate completion of the conversion effort;
- Integration reporting;
- Integration reconciliation;
- Integration reversal;
- Integration preparation;
- Data integration activities;
- Data “freeze” schedule;
- ~~File and database names and descriptions;~~
- ~~File structures; and~~
- Data integration rules and integration validation rules that address at least the following:
  - How will the data from each county be brought in and combined (e.g., one at a time, in groups, test runs)?
  - How will initial matching criteria be established and evaluated?
  - How will the data from matching records be evaluated and combined in the integrated record?
  - How much historic data will be included?
  - How will the VoteCal System handle matching records for counties already using the VoteCal System when a new county goes live when there are data discrepancies?;
- Accessing methods;
- Devices and types to be used for integration;
- Dependencies;
- SOS integration Acceptance Criteria;
- Step-by-step integration procedures;
- Record matching criteria, processes and validation for integration of voter registration data into a single record for each voter;
- Process for identification, review and resolution of false matches for voter data integration;
- Automated and manual procedures (e.g., conversion programs and data entry procedures);
- Integration verification procedures and activities required for system testing;
- Parallel file maintenance procedures and controls;
- Special integration training, such as data entry, file balancing and control;
- The number and type of support staff and required time frames;
- Testing and certification tasks and testing scenarios the Contractor will complete in preparation for the database integration event including unit testing, integration testing, and full integration and system testing;
- Integration timeline;
- Maintenance of ‘official database’ in Calvoter throughout the Project until the VoteCal System is deployed to 58 counties without requiring duplicate data entry by county elections officials’ staff; and
- Decommissioning of Calvoter and Calvalidator and transition to the new application.

Contractor shall use a test data set to run the complete data integration program suite. The testing of data integration shall be performed, and all data shall be validated by SOS as a necessary condition for the SOS VoteCal Project Director’s authorization to start data integration efforts in Phase V – Pilot Deployment and Testing.

Contractor shall prepare an environment for data integration in accordance with the IPS and the VoteCal System Technical Architecture Documentation (Deliverable II.6).

The DIP shall be finalized and submitted at a time that provides sufficient State business days for SOS to review and provide Acceptance (pursuant to Attachment 1 – Statement of Work, Sections 10(c)4 and 10(c)5) thirty (30) calendar days before starting data integration activities (to be initiated in Phase III – Development). A test of data integration shall be performed and all data validated by SOS prior to the full integration commencing in accordance with the PMP and IPS.

This Deliverable shall be implemented, and shall be updated as required during the life of the VoteCal Project.

### **Deliverable II.9 – VoteCal System Training Plan**

Contractor shall develop a VoteCal System Training Plan, in accordance with the DED for which SOS has provided Acceptance. The Training Plan shall be based on and consistent with information in Deliverables II. 1 – VoteCal System Requirements Specification, II.4 - VoteCal System EMS Integration and Data Exchange Specifications Document, II.6 - VoteCal System Technical Architecture Documentation, II.2 - VoteCal System Functional Specification, and I.5 - VoteCal System **Organizational Change Management Plan**. This Training Plan shall address the separate needs of SOS program staff, VoteCal System help desk staff, SOS technical system support staff, and county elections officials and their staff. The Training Plan shall describe Contractor's philosophy on user training, including method of training to be provided for each group, such as computer-based training Software, classroom lectures, and hands-on computer laboratory environment. Contractor shall distinguish training approach and materials between user and stakeholder roles (e.g., line level staff, supervisors, policy makers, SOS report/query capability users) as each has a different need for the level of information being provided. Contractor shall describe the maximum class size by functional area and define the differences in training for executives, management, business staff, county elections officials and their staff, and information technology staff. The Training Plan shall also address the "Train-the-Trainers" concept, which would allow SOS to conduct training for county elections officials' staff after Phase VI – Deployment and Cutover. The comprehensive Training Plan shall also include the following components:

- Training scope;
- Training environment set-up and refresh procedures;
- Training data development;
- Training courses and prerequisites;
- Training schedule;
- Training curriculum;
- Evaluation methodology of training effectiveness and appropriate modification of training curriculum based on the evaluation;
- Maintaining currency of curriculum and material as the VoteCal system and affected business processes is modified during development and after implementation;
- On-line training scenarios;
- Training the trainers; and
- Training procedures.

The SOS anticipates that training for county elections officials and their staff will focus on policy and business process changes – not system changes as county elections officials' staff will not input directly to the VoteCal System. Contractor shall develop curriculum for these policy and business changes and provide this training to county elections; officials staff. Contractor shall also train SOS staff in such a manner that they can then train county elections officials and their staff after Phase VI – Deployment and

Cutover. Content that shall be covered in Contractor's training includes but is not limited to issues such as:

- What to do and who to call if there is a problem with the system;
- The VoteCal System data standards;
- Business rule changes;
- Researching and resolving list maintenance issues (including timelines);
- Official list and when a voter is eligible to vote;
- Procedures for restoring the VoteCal system to operational status after a Hardware/equipment problem or a data loss;
- The auditing and testing mechanisms and procedures that SOS staff will use after VoteCal deployment and on an ongoing basis to evaluate and confirm continuing EMS compliance with VoteCal data requirements (which the Contractor developed as part of Deliverable II.4 – VoteCal System EMS Integration and Data Exchange Specifications Document);
- Testing synchronization between county database and the VoteCal System (and resolving discrepancies);
- Execution of predefined VoteCal reports;
- Creation of new VoteCal reports and queries and saving them for execution by other users; and
- New approach for compiling the Report of Registration (ROR).

Contractor shall provide a fully functional VoteCal System Training environment that is separate from the VoteCal System Development, Test and Production environments. (This Training environment shall have been described in Contractor's Deliverable II.6 – VoteCal System Technical Architecture Documentation.) Contractor must deliver a populated training database that contains fictitious voter information. Database refresh process and procedures must be included in the Training Plan.

This VoteCal System Training Plan shall be implemented, and shall be updated as required during the life of the VoteCal Project.

#### **Deliverable II.10 – Phase 0 Ongoing Process Tasks and Deliverables**

Contractor shall perform all tasks, processes, and activities required in Phase 0.

#### **Deliverable II.11 – Final Report for Phase II**

Contractor shall submit a report indicating that all Phase activity is complete including status of Deliverables and outstanding issues.

### **PHASE III – DEVELOPMENT**

#### **Overview of Development and Testing Requirements and Constraints**

This subsection describes general requirements and constraints related to development and testing activities that shall be conducted from Phase III through the end of the VoteCal Project. SOS and counties will not provide resources for performance of development/testing activities, except as explicitly noted in the context of discussion of this Phase and subsequent Phases of the VoteCal project.

If Contractor is implementing its own Commercial Off-the-Shelf (COTS) application or a Modified Off-the-Shelf (MOTS) application, or implementing other Pre-existing Materials as part of the VoteCal System, Contractor shall perform out-of-the-box testing to validate that the base product is functioning properly. Negative testing scenarios must be included in this testing. All other responsibilities and Deliverables as described in this Exhibit apply to COTS or MOTS applications and solution components that are Pre-existing Materials as well as custom-developed components.

In general, SOS VoteCal team members shall be responsible for:

- Communications and coordination with counties on county testing activities;
- Execution of contracts with EMS vendors to secure EMS remediation activities and EMS participation in testing, and communication to EMS' during the VoteCal Project;
- Planning and executing User Acceptance Testing (UAT) for the VoteCal system and interfaces, including end-to-end testing as necessary precondition for Acceptance of the system and decision to proceed with Phase V – Pilot Testing and Deployment;
- Coordinating submission of reports of testing results and identified Deficiencies in accordance with procedures documented in the Deliverable III.2 – Test Plan for which SOS has provided Acceptance;
- If SOS chooses, observation of testing performed by the Contractor; and
- Coordination of IV&V review of Contractor's development and testing Deliverables and artifacts.

In general, Contractor shall be responsible for:

- All development activities, including establishment of required technical environments and performance of unit testing;
- Planning and performing thorough testing – including system/integration testing, end-to-end testing, testing of integration/upload of county data, load testing, backup and restoration/recovery testing, performance testing, and regression testing – of all VoteCal Solution functions; (Note that the Contractor is responsible for performing all VoteCal-related backup and recovery activities until the start of Phase V – Pilot Deployment and Testing. Thereafter, the Contractor is responsible for assuring that VoteCal backup and restoration activities occur as described in Section VI – Project Management, Business, and Technical Requirements.)
- Testing and executing all backup, restoration and recovery of data, operating systems, application code and configuration of all VoteCal components in all environments from the start of Phase I – Project Initiation and Planning until the start of Phase V – Pilot Deployment and Testing;
- Testing and executing all restoration and recovery of data, operating systems, application code and configuration of all VoteCal system components in all environments beginning with the start of Phase V – Pilot Deployment and Testing and continuing through the end of the Contract, in accord with the requirements listed in Section VI, Table VI.2, T3: System Availability and Backup/Recovery;
- Training all EMS, county elections officials' staff, and SOS testers in use of the VoteCal system prior to commencement of these parties' testing activities;
- Planning and executing testing and certification of EMS data integration and compliance with VoteCal requirements, including definition and scheduling of required EMS vendor participation in this testing;
- Documenting results of all testing performed or coordinated by Contractor;
- Correcting Deficiencies that are identified during testing that is performed by Contractor, by SOS, and by county elections officials' staff and EMS vendor staff;
- Maintaining the Test Defect Log, and documenting corrections for Deficiencies;
- Conducting and documenting regression testing after Deficiency corrections are applied;
- Managing all technical environments and artifacts, including establishing and executing version control and migration/refresh paths and procedures for Software artifacts and system instances;
- Ensuring that environment changes, builds, refreshes and migrations are communicated to all Contractor team members, SOS VoteCal team members, EMS' and (where appropriate) counties;
- Maintaining backward and forward requirements traceability throughout the Project;
- Defining, planning and managing pilot testing as described in Phase V – Pilot Deployment and Testing;

- Documenting and providing to SOS the test cases/test scripts for all testing for which Contractor is responsible; and
- Recognizing and incorporating constraints identified below in planning and executing development and testing activities throughout the VoteCal Project.

Contractor shall accommodate the general constraints and requirements cited in Attachment 1, Exhibit 2.A – Introduction, In addition to those general constraints and requirements, Contractor shall incorporate the following constraints in planning and execution of development and testing:

- County and SOS resources will perform UAT, and shall be supported by Contractor as described in this Exhibit's description of roles and responsibilities, in this section and in the descriptions of Deliverables in Phase IV – Testing. Contractor shall incorporate time in the IPS for UAT.
- SOS shall conduct two (2) stages of UAT prior to Phase V – Pilot Deployment and Testing. The first will be performed on the VoteCal system plus external interfaces (e.g., California Department of Corrections and Rehabilitation, California Department of Public Health, Department of Motor Vehicles, California Employment Development Department, and Calvoterete). The second stage of UAT will be full end-to-end UAT, incorporating EMS functions along with scope of the first-stage UAT, conducted after Contractor's certification of EMS data integration and compliance.
- SOS shall not conduct UAT concurrent with Contractor's system/integration testing of same scope. For example, SOS first-stage UAT will be performed after, not in parallel with, Contractor's testing of the VoteCal system and external interfaces.
- If Deficiencies in EMS remediation are identified during testing to certify the EMS, regression testing after application of corrections shall include time for EMS vendors' regression testing of functions outside the scope of the EMS-VoteCal interface.
- SOS and counties will not provide testers for testing of peak concurrent user and concurrent transaction requirements defined in Section VI.E – Technical Requirements and Response Form, T4: Performance and Capacity.
- SOS expects county and SOS participation in final deployment ("cutover") testing and validation activities.
- Follow-on regression testing shall be conducted by Contractor and by SOS as errors are identified and corrected during UAT in Phase IV – Testing as well as throughout the rollout of the new system to all the counties during Phase V – Pilot Deployment and Testing, and Phase VI – Deployment and Cutover.

### **Deliverable III.1 – VoteCal System Development, Test & Training- Environments Certification Report**

Contractor shall install, configure and test all VoteCal System Hardware and Software (including any custom-developed (VoteCal System Software), Third-Party and Contractor Commercial Proprietary Software) specified for the VoteCal System by the Contractor and which is needed to support the VoteCal project's Development, Testing and Training activities and related environments.

Any equipment to be installed in the SOS Data Center to support Development, Test, and Training activities (and any other activities other than Pilot and Production) that requires special power, environmental considerations or augmentation / reconfiguration of SOS Data Center's technical infrastructure environment (e.g., required additional electrical circuits, fiber cable, or relay racks installed) should have been previously specified in the Contractor's proposal and Deliverable II.6 – VoteCal Technical Architecture. If any such equipment is required to support the VoteCal's Development, Testing and Training activities and related environments the Contractor shall provide site preparation specifications for this equipment within a reasonable time in advance of work commencing on this Deliverable upon request of the State.

The VoteCal System technical environments shall be implemented as specified in the VoteCal System Technical Architecture Documentation (Deliverable II.6). Contractor shall provide all environments required to support the VoteCal Project's Development, Testing and Training activities as part of this Deliverable. Upon installation the Contractor shall provide VoteCal System Environment Certification Reports that indicate that the Contractor:

- Has successfully installed, configured and tested the Hardware and Software products and the environments required to support the Development, Testing and Training activities for the VoteCal System (as specified in Deliverable II.6) and,
- Confirms that the environments are ready for use.

The VoteCal System environments required for this Deliverable shall include, at a minimum, those required to support Development, Testing and Training activities and must also include all other VoteCal environments specified in Deliverable II.6 – VoteCal System Technical Architecture except for those specified to support Pilot and Production activities (which are addressed in Deliverable IV.4 - VoteCal System Pilot and Production Environments Certification Report).

### **Deliverable III.2 – VoteCal System Test Plan**

Contractor shall develop and execute a detailed Test Plan, in accordance with the DED for which SOS has provided Acceptance, all testing-related requirements and constraints described in this Exhibit 2 – Tasks and Deliverables, the PMP and the IPS. This Test Plan shall address all levels of Hardware and Software testing, including methodology, test procedures, test script development, VoteCal System training required for SOS team members who perform UAT, test data development, Acceptance Criteria, roles and responsibilities for various testing activities, timing and logistics of testing activities, IT environment preparations, and other testing activities that are specific to the various tests. The Test Plan shall include discussion of and timing of training that Contractor shall provide for SOS and county elections officials' staff in preparation for UAT that SOS will conduct in addition to Contractor's testing in Phase IV – Testing.

The testing components shall include the following types of system tests:

- System component functional testing;
- Integration testing;
- Interface testing;
- Regression testing;
- End-to-end (county demarcation to the VoteCal System to DMV and vice versa) testing;
- Stress and load testing; and
- Performance testing; ~~and~~;
- Backup and recovery.

The Deliverable will incorporate constraints and requirements related to development and testing as described in subsections A – Introduction and E. Phase III – Overview of Development and Testing Requirements and Constraints. System/integration testing shall be conducted by the Contractor prior to UAT that is conducted in Phase IV – Testing. Follow-on regression testing shall be conducted as errors are identified and corrected during UAT in Phase IV – Testing as well as throughout the rollout of the new system to all the counties during Phase V – Pilot Deployment and Testing, and Phase VI – Deployment and Cutover.

A simulated load representing full usage by fifty-eight (58) counties may be used at the onset of system testing; however, as counties are transitioned to the new system during Phase V – Pilot Deployment and Testing and Phase VI – Deployment and Cutover, periodic testing shall be performed to validate that the VoteCal System meets all performance and capacity requirements.

The Test Plan shall include a Test Defect Log, and shall be finalized by Contractor and submitted to SOS with sufficient lead time to achieve SOS Acceptance of the Test Plan no later than fifteen (15) State business days prior to the commencement of testing activities in Phase IV - Testing.

The Test Plan shall accommodate the need to correct Deficiencies in the VoteCal System between Phase V - Pilot Deployment and Testing and Phase VI - Deployment and Cutover, and shall provide sufficient methodology and time to perform end-to-end testing after Deficiencies are corrected, before Phase VI - Deployment and Cutover commences, and at least twice during Phase VI – Deployment and Cutover at times mutually agreed upon by SOS and the Contractor.

In preparing the Test Plan and other testing-related Deliverables, Contractor shall assume a total of 1.5 million voter registration records and at least six (6) counties participating in the pilot in Phase V – Pilot Deployment and Testing.

This Test Plan shall be implemented, and shall be updated as required during the life of the VoteCal Project.

### **Deliverable III.3 – Acceptance Test Plan for Certification of EMS Data Integration and Compliance**

Contractor shall develop a detailed Acceptance Test Plan for Certification of EMS Data Integration and Compliance that describes Contractor's activities to test the integration of each EMS with the VoteCal System, in accordance with the DED for which SOS has provided Acceptance, the PMP, and the IPS, and as specified by the VoteCal System EMS Integration and Data Exchange Specifications Document (Deliverable II.4) and the VoteCal System Data Integration Plan (Deliverable II.8). This Deliverable shall include:

- Identification of what will be tested and the order of testing;
- Test scripts and description of test data to be used that shall validate within-county business functions and data as well as processes/data that involve multiple counties;
- Roles and responsibilities of the county elections officials and their staff, the EMS vendors, and Contractor staff;
- Test preparation and test timing;
- Validation of test results;
- How test results, errors, and corrections will be recorded;
- Process for regression testing;
- How version control will be managed so as to ensure corrections and regression testing apply to the appropriate instance of the application;
- How load balancing and stress testing will be incorporated; and
- How impacts of backup and restoration/recovery processes on EMS data will be tested.

Prior to any pilot testing with counties during Phase V – Pilot Deployment and Testing, the Contractor shall perform integration testing to simulate all business functions that occur in an election cycle.

The VoteCal IV&V contractor shall participate in execution of this testing, observe testing activities for this Deliverable and shall review and validate delivered reports.

This Deliverable shall be implemented, and shall be updated as required during the life of the VoteCal Project.

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#### **Deliverable III.4 – VoteCal System Organizational Change Management Plan (OCMP) Updated**

Contractor shall update the VoteCal System OCMP (Deliverable I.5), in accordance with the DED for which SOS has provided Acceptance, the PMP and the IPS, to address the specification, design and workflow elements identified during Phase II - Design and to provide detail on how the change in business processes will be managed with SOS and county users.

This Plan shall be implemented, and shall be updated as required throughout the life of the VoteCal Project.

#### **Deliverable III.5 – VoteCal System Implementation and Deployment Plan**

Contractor shall produce a VoteCal System Implementation and Deployment Plan in accordance with the DED for which SOS has provided Acceptance, the PMP and the IPS. This Deliverable shall detail SOS transition from the legacy Calvoter system to the new VoteCal System solution. This Deliverable shall address how the new solution will be deployed to SOS business users, county users, other stakeholders, and external users. This Plan shall include:

- How the business process transition will take place;
- How the new methods of doing business will be conveyed to the end user community, and the steps that will be taken to assess the county and SOS “workplace readiness” prior to the new solution going into production;
- Roles and responsibilities of the Contractor, SOS staff, county elections officials’ staff, EMS vendors, and other stakeholders for the transition;
- Detailed schedule work breakdown for Phases, activities, Deliverables, milestones, quality management checkpoints, and the critical path;
- Dates and timeframe for cutover including appropriate backup or contingency dates;
- Process for determining that the SOS, county, and the Contractor are ready for statewide cutover to the VoteCal system, including a Go/No-Go readiness checklist and success criteria for ~~preceding~~proceeding with the cutover;
- County preparation activities required;
- Contingency and fallback (“cut-back”) plan should the transition fail;
- Procedures and routines that will ensure that the integrity and completeness of the existing Calvoter system and its data are maintained through the end of Phase VI – Deployment and Cutover; and
- Approach and staffing (including but not limited to SOS Level 1 and Contractor Level 2 and above help desk staffing, and required county roles) for support of pilot counties during Phase V - Pilot Deployment and Testing and for statewide support during Phase VI - Deployment and Cutover.

This Plan shall be implemented and shall be updated as required throughout the life of the VoteCal Project.

#### **Deliverable III.6 – VoteCal System Source Code and Documentation**

In accordance with the IPS and upon completion of Contractor’s quality assurance/quality control reviews and unit testing of the VoteCal System code, Contractor shall conduct a code review walk-through of the VoteCal System Software and Contractor Commercial Proprietary Software with the SOS team. Upon completion of this walk-through and correction of Deficiencies identified by SOS, Contractor shall deliver to the SOS VoteCal Project Director or designee the current VoteCal System Source Code and Documentation, which shall include:

- A copy of the VoteCal System Software Source Code and of the Contractor Commercial Proprietary Software Source Code, each in machine-readable format;

- One copy each of the current VoteCal System Software Object Code or logical equivalent, Contractor Commercial Proprietary Software Object Code or logical equivalent, plus Object Code or logical equivalent for any Third-Party Software included within the VoteCal System; and
- VoteCal System Source Code Documentation, which shall include but not be limited to the types of documentation listed below, as appropriate for the Contractor's proposed VoteCal solution and current as of the version of the VoteCal System Source Code and Object Code (or logical equivalent) delivered to SOS at the end of Phase III - Development:
  1. Functional specifications (which describe the function of a Software module from a user point of view in detail) and designs for the Software, including but not limited to background and the database schema, entity relationship diagrams (where applicable), data objects, and user interface objects. This requirement may be satisfied by documentation that includes current versions of materials included in Deliverables II.2 - VoteCal System Functional Specifications, II.3 – VoteCal System Detailed System Design Specifications, II.6 - VoteCal System Technical Architecture Documentation, and II.7 – VoteCal System Data Model and Data Dictionary.
  2. Information describing how to compile and link the Source Code modules to obtain working Software, as well as data structures and resources outside of the modules which are required to configure or drive the modules.
  3. Source Code and documentation for database definition and database procedures (SQL definitions), graphical user interface modules, data interface modules and other Software modules, including but not limited to build procedures.
  4. Documentation describing installation and support policies and procedures.
  5. Detailed instructions for a programmer and programming notes.
  6. A description of how each interface will work on a technical level, the content and format of protocols streams, and other technical considerations. This requirement may be satisfied by documentation that includes current versions of materials included in Deliverables II.1 – VoteCal System Requirements Specifications, II.3 – VoteCal System Detailed System Design Specifications, II.4 – VoteCal System EMS Integration and Data Exchange Specifications Document, II.6 – VoteCal System Technical Architecture Documentation and II. 7 – VoteCal System Data Model and Data Dictionary.
  7. All relevant commentary, explanations, and other documentation for the Software.

Contractor shall provide Source Code, Source Code Documentation and Object Code as defined above for this Deliverable at no additional cost, via electronic download or on magnetic media (at Contractor's option) in a format that is approved by SOS as part of SOS Acceptance of the DED for this Deliverable. Delivered Source Code, Object Code and Source Code Documentation as defined above for this Deliverable shall be current as of completion of unit testing and code walk-throughs and correction of all identified Deficiencies in Phase III – Development.

Contractor shall also submit updated VoteCal System Source Code and Documentation, including all components defined above for this Deliverable III.6 – VoteCal System Source Code and Documentation, at the following times:

- In Phase IV – Testing, Phase V – Pilot Deployment and Testing, Phase VI – Deployment and Cutover, and Phase VII – First Year Operations and Close-out;
- Within five (5) State business days of any SOS request for updated version of VoteCal System Source Code and Documentation; and
- If SOS chooses to exercise the option for five (5) additional years of Software maintenance and operations support, whenever Contractor either delivers an Enhancement to the VoteCal System or makes changes to either the VoteCal System or VoteCal System Source Code Documentation (as described above) as a result of correcting a Deficiency.

In addition, the Contractor shall provide code walk-throughs on the VoteCal System Software and VoteCal System Contractor Commercial Proprietary Software upon request of SOS on an ongoing basis throughout the life of the Project.

**Deliverable III.7 – Phase 0 Ongoing Process Tasks and Deliverables**

Contractor shall perform all tasks, processes, and activities required in Phase 0.

**Deliverable III.8 – Final Report for Phase III**

Contractor shall submit a report indicating that all Phase activity is complete including status of Deliverables and outstanding issues.

**PHASE IV – TESTING**

**Deliverable IV.1 – VoteCal System Pilot County Data Integration Completion and Report**

Contractor shall perform data integration for those counties that have been chosen for the pilot activities in Phase V – Pilot Deployment and Testing. At the completion of data integration for pilot counties, Contractor shall provide a VoteCal System Pilot County Data Integration Report that documents the integration effort, all Deficiencies identified during integration, and correction of Deficiencies, in accordance with the DED for which SOS has provided Acceptance, Deliverable II.8 – VoteCal System Data Integration Plan, the PMP and the IPS. Contractor shall resolve all Deficiencies that require resolution (in accordance with Attachment 1 – Statement of Work, Section 10.c.8.v) and validate the integration. The Report shall be discussed with the SOS team and others that may be impacted by the system Deficiencies. SOS shall have final authority on the resolution and/or mitigation strategy for each reported problem. Contractor shall iterate integration testing until all Deficiencies that require resolution are corrected and all corrections are validated by SOS. Finally, the Deliverable shall identify “lessons learned” from the pilot county integration and how these shall be addressed in future county integrations. The Deliverable shall be finalized and submitted to SOS for review and Acceptance at the completion of data integration and correction of Deficiencies.

**Deliverable IV.2 – VoteCal Acceptance Test Completion, Results and Defect Resolution Report**

The scope of this Deliverable includes:

- Contractor’s support for SOS UAT that will be performed in two (2) stages as described in this Exhibit, Phase III – Development, Overview of Development and Testing Requirements and Constraints; and
- Contractor’s completion of acceptance testing and Certification of EMS compliance for pilot counties.

The Contractor shall develop and maintain the Acceptance Test Results Defect Resolution Report which shall document all Contractor and SOS executed test scripts, all test activities, the results of those activities, identified Hardware or Software issues, resolution actions taken, and the current status of all outstanding Deficiencies identified during Contractor’s acceptance testing of EMS remediation and both stages of SOS UAT. Contractor shall submit this Deliverable, including documentation of testing results and all corrections of identified Deficiencies, at the completion of the first stage of SOS UAT, and shall deliver two updated versions: one at the completion of Contractor’s acceptance testing of EMS remediation and Certification of EMS compliance for pilot counties and the other at completion of the second stage of SOS UAT.

Contractor shall fully support the SOS team's execution of each of the UAT stages, including maintaining the Test Defect Log, correcting identified Deficiencies, and managing test environments and development artifacts as described in Phase III – Development, Overview of Development and Testing Requirements and Constraints. Contractor's support for SOS UAT shall also include execution of load simulation based on SOS-defined parameters, timing measurements for transactions for performance testing, correcting identified Deficiencies and documenting corrections of Deficiencies in the Test Defect Log.

Contractor shall also conduct and coordinate testing to certify EMS compliance with VoteCal requirements based on Deliverable III.3 – Acceptance Test Plan for Certification of EMS Data Integration and Compliance, and shall correct identified Deficiencies.

SOS UAT and Contractor's testing for Certification of EMS compliance shall include but are not limited to the following areas:

- System component functional testing;
- Integration testing;
- Interface testing;
- Regression testing;
- End-to-end testing;
- Stress and load testing;
- Performance testing; and
- Backup and recovery.

#### **Deliverable IV.3 – VoteCal System Documentation and Updated VoteCal System Source Code**

Contractor shall deliver VoteCal System Documentation that describes and supports the entire VoteCal Solution including the following aspects: system design and architecture specifications; requirements; program design; programming and ancillary processing components; system Help, information messages and error messages; database schema, system Data Model and data dictionary; Hardware, equipment and Software configuration settings; data exchange, interface specifications and communication protocols; end-user usage and training materials; testing; VoteCal system operations; and, help desk and operations support of the VoteCal Solution.

The delivered VoteCal System Documentation shall include updated versions of VoteCal System Source Code Documentation as described for Deliverable III.6 - VoteCal System Source Code and Documentation, plus additional documentation to satisfy the documentation-related requirements described for this Deliverable IV.3. The VoteCal System Documentation shall also include but not be limited to the following types of documentation:

- System Operations;
- System Technical Documentation;
- System Operational Recovery Procedures;
- System End User's Documentation;
- Help Desk Documentation, including procedures for both SOS help desk (Level 1 Help Desk) and Contractor help desk (Level 2 Help Desk and above) – see additional information below;
- System Technical Schematics;
- Updated General and Detailed System Design Documents to reflect the applications as implemented;
- Database schema and Data Dictionary;
- Application program interfaces;
- As-Built Documentation of all Configuration, Modification, and/or Programming;

- System Back-up and Recovery procedures; and
- System Maintenance Documentation.

The portions of this deliverable that constitute updated versions of documentation that was previously provided in Deliverable III.6 – VoteCal System Source Code and Documentation shall include documentation of all changes made to code since submittal of Deliverable III.6, in a format approved by SOS.

The Contractor shall ensure that the SOS Level 1 Help Desk and Contractor Level 2 Help Desk are established and that training for help desk staff is provided before deployment of the VoteCal system in Phase V – Pilot Deployment and Testing. The Contractor shall develop, provide and maintain documented SOS Level 1 Help Desk and Contractor Level 2 Help Desk procedures and troubleshooting guidelines to enable help desk staff to support the VoteCal System (including VoteCal System Software, Contractor Commercial Proprietary Software, Third Party Software and all Hardware and environment components) as part of this Deliverable. These help desk procedures and trouble-shooting guidelines shall be consistent with the VoteCal solution as of the end of Phase IV – Testing, inclusive of all VoteCal System and business procedural changes implemented as a result of testing. These procedures and guidelines shall be included in training for help desk staff as part of Deliverable V.1 - Develop VoteCal System Training Materials and Complete Training before the Pilot and shall be pilot tested as part of completion of Deliverable V.2 – Conduct Pilot Testing and Provide Pilot Results Report.

Materials that Contractor submits to fulfill requirements of this Deliverable IV.3 – VoteCal System Documentation and Updated VoteCal System Source Code ~~may~~ shall include updated versions of Deliverables that were delivered in prior Phases if such updates are required to maintain consistency of plans and documentation.

Contractor shall also deliver current versions of:

- VoteCal System Software Source Code and Contractor Commercial Proprietary Software Source Code in machine-readable format; and
- VoteCal System Software Object Code or logical equivalent, Contractor Commercial Proprietary Software Object Code or logical equivalent, plus Object Code or logical equivalent for any Third-Party Software included within the VoteCal System.

All delivered Source Code, Object Code (or equivalent), Source Code Documentation and System Documentation described above for this Deliverable IV.3 – VoteCal System Documentation and Updated VoteCal system Source Code shall reflect the state of the VoteCal Solution as of the end of Phase IV - Testing, including all changes necessitated by changes to the VoteCal System, materials and procedures during Phase IV.

#### **Deliverable IV.4 – VoteCal System Pilot and Production Environments Certification Report**

Contractor shall install, configure and test all VoteCal System Hardware and Software including custom-developed (VoteCal System Software), Third-Party and Contractor Commercial Proprietary Software specified for the VoteCal System by the Contractor and which is needed to support the VoteCal project's Pilot and Production activities and related environments.

Any equipment to be installed in the SOS Data Center to support the Pilot and Production activities that requires special power, environmental considerations or augmentation / reconfiguration of SOS Data Center's technical infrastructure environment (e.g., required additional electrical circuits, fiber cable, or relay racks installed) should have been previously specified in the Contractor's proposal and Deliverable II.6 – VoteCal Technical Architecture. If any such equipment is required to support the VoteCal's Pilot and Production activities and environments the Contractor shall provide site preparation specifications for this

equipment within a reasonable time in advance of work commencing on this Deliverable upon request of the State.

The VoteCal System technical environments shall be implemented as specified in the VoteCal System Technical Architecture Documentation (Deliverable II.6) and consistent with related requirements and constraints described in the narrative for that Deliverable (above). Contractor shall provide all environments required to support the VoteCal Project's Pilot and Production activities as part of this Deliverable. Upon installation the Contractor shall provide VoteCal System Environment Certification Reports that indicate that the Contractor:

- Has successfully installed, configured and tested the Hardware and Software products and the environments required to support the Pilot and Production activities for the VoteCal System (as specified in Deliverable II.6) and,
- Confirms that the environments are ready for use.

The VoteCal System environments required for this Deliverable shall include, at a minimum, those required to support Pilot and Production activities as well as any other VoteCal environments specified in Deliverable II.6 – VoteCal System Technical Architecture and required but not previously addressed in Deliverable III.1 - VoteCal System Development, Testing and Training Environments Certification Report).

#### **Deliverable IV.5 – Phase 0 Ongoing Process Tasks and Deliverables**

Contractor shall perform all tasks, processes, and activities required in Phase 0.

#### **Deliverable IV.6 – Final Report for Phase IV**

Contractor shall submit a report indicating that all Phase activity is complete including status of Deliverables and outstanding issues.

### **PHASE V – PILOT DEPLOYMENT AND TESTING**

#### **Deliverable V.1 – Develop VoteCal System Training Materials and Complete Training before the Pilot**

Contractor shall develop the training materials and training curricula for the VoteCal System solution for SOS program staff (including investigators), SOS help desk staff, SOS technical system support staff and county elections officials' staff, in accordance with the current/updated Deliverable II.9 – VoteCal System Training Plan. Contractor shall conduct initial training for SOS staff and county elections officials' staff in pilot counties to prepare the SOS and counties for pilot testing. . Contractor shall provide detailed written desktop procedures, policies, and full documentation for the VoteCal System, and shall provide the SOS staff assigned to support the Level 1 help desk with full training to support the VoteCal system before initiation of county pilot activities in Phase V – Pilot Deployment and Testing.

All training shall be scheduled and conducted to occur with sufficient lead time to prepare SOS and pilot county users in advance of the counties' initiation of the pilot that is executed in Phase V – Pilot Deployment and Testing. Training and documentation for the SOS help desk must be provided in time to ensure the help desk is operational prior to counties' initiation of pilot activities.

The Contractor shall provide application training to all SOS Level 1 Help Desk personnel on the use of the VoteCal System and ~~any Contractor-provided-the~~ help desk Software as configured and deployed to support VoteCal.

Training aids, manuals, quick reference guides and other training materials shall be provided as part of the solution, and shall:

- Reflect the solution as implemented in Phase V – Pilot Deployment and Cutover;
- ~~Reflect usage of the iSupport problem tracking tool currently in use within SOS as configured and deployed for VoteCal;~~
- Be provided for each type of training needed;
- Be delivered to SOS in MS Office 2003 electronic format and on paper (one hard copy per SOS and county trainee) at the time that training is conducted.

### **Deliverable V.2 – Conduct Pilot Testing and Provide Pilot Results Report**

Upon SOS VoteCal Project Director's approval to initiate pilot deployment and cutover, Contractor shall conduct pilot testing for the selected pilot counties to appraise the data integration, training, help desk support (both SOS Level 1 Help Desk and Contractor Level 2 Help Desk), prepared system documentation, and deployment and operation processes and procedures. Contractor shall conduct the pilot through a live election cycle if it does not extend the Project go-live timeframe by more than three months. The integrity of the existing Calvoter system and its data, which is the current official list of registered voters, shall be maintained throughout the end of Phase VI – Deployment and Cutover. Contractor shall establish success criteria and targets in each area (e.g., data integration, training, Help Desk support, and deployment and operation processes and procedures) before the start of the pilot. Contractor shall complete a VoteCal System Pilot Results Report document that provides documentation on all findings, issues, recommendations for system and process improvements, and other results of the Pilot. Contractor shall discuss this report with the VoteCal Project Manager and Project Director and shall update Deliverable III.3 - Acceptance Test Plan for Certification of EMS Data Integration and Compliance as appropriate based on the contents of the Pilot Results Report submitted with Deliverable V.2.

The SOS VoteCal Project Director's approval to proceed with pilot county deployment shall be based on criteria that include SOS Acceptance of Deliverable IV.1 – VoteCal System Pilot County Data Integration Completion and Report; ~~and Deliverable IV.2 – VoteCal Acceptance Test Completion, Results and Defect Resolution Report, including Contractor's Certification of EMS compliance and completion of SOS end-to-end UAT as well as Contractor correction of identified deficiencies;~~ Deliverable IV.4 – VoteCal System Pilot and Production Environments Certification Report; and Deliverable V.1 - Develop VoteCal System Training Materials and Complete Training Before the Pilot.

Contractor's Help Desk and maintenance/operation-related plans, processes, procedures, training and related documentation for Phase V – Pilot Deployment and Testing shall reflect usage of the iSupport problem tracking tool (which is currently in use within SOS) ~~The Contractor shall provide appropriate Software~~ to log, manage, escalate, and resolve problems, requested changes, system issues, etc., that are reported during Phase V – Pilot Deployment and Testing. Contractor shall provide Level 2 Help Desk support for pilot counties during Phase V - Pilot Deployment and Testing and on an ongoing basis thereafter, in accordance with the current VoteCal System Implementation and Deployment Plan (Deliverable III.5, updated as Deliverable V.4 and as required throughout the Project) for which SOS has provided Acceptance, and documented help desk procedures for which SOS has provided Acceptance (included in Deliverable IV.3 - VoteCal System Documentation and Updated VoteCal System Source Code, and updated as part of Deliverable V.3 – Updated System, Documentation and Training Materials including VoteCal System Source Code and as required throughout the Project). Level 2 Help Desk support shall also be in accordance with the requirements identified in sections 1 through 4 of both Attachment 1, Exhibit 4 – Hardware, Maintenance and Operations Services and Help Desk Service Levels and Attachment 1, Exhibit 5 – Software Maintenance and Operations Services and Help Desk Service Levels for the VoteCal System which define Maintenance and Operations services (including definition of Deliverable Severity Levels and associated Service Level Objectives), ~~Help Desk~~ Help Desk services, Deficiency escalation and reporting, and SOS responsibilities related to VoteCal maintenance and support.

The Contractor shall provide help desk monthly status reports including Help Desk staffing, call volumes, call duration (average and peak), time taken to resolve a reported problem, outstanding calls and unresolved issues as of the date of the report, call times, peak usage, call types, quality issues, and recommendations. Contractor shall also develop and provide standard help desk reports to SOS, including monthly operational statistics reports and weekly incident reports to demonstrate that Contractor has met appropriate help desk requirements defined in sections 1 through 4 of both Attachment 1, Exhibit 4 – Hardware, Maintenance and Operations Services and Help Desk Service Levels and Attachment 1 Exhibit 5 – Software Maintenance and Operations Services and Help Desk Service Levels for the VoteCal System.

Although monthly reports and ongoing Level 2 Help Desk and Deficiency resolution support are required as part of this Deliverable, the payment amount for this support is the percentage of the Total Cost listed in Table VII.4, Line A4 – VoteCal System Project Deliverables Cost for Deliverable V.2, not a monthly amount, and payment is dependent on SOS Acceptance of the Deliverable.

### **Deliverable V.3 - Updated System, Documentation and Training Materials including VoteCal System Source Code**

Contractor shall implement updated VoteCal system components as required to correct Deficiencies and resolve problems identified during pilot deployment and testing. All Deficiencies uncovered during pilot testing and that require resolution shall be resolved and regression tested to validate resolution of Deficiencies shall be conducted on the VoteCal System before Phase VI – Deployment and Cutover begins.

Contractor shall deliver updated versions of:

- VoteCal System Software Source Code and Contractor Commercial Proprietary Software Source Code in machine-readable format;
- The current VoteCal System Software Object Code or logical equivalent, Contractor Commercial Proprietary Software Object Code or logical equivalent, plus Object Code or logical equivalent for any Third-Party Software included within the VoteCal System;
- VoteCal System Source Code Documentation as described in Deliverable III.6 – VoteCal System Source Code and Documentation and as appropriate for the Contractor's proposed VoteCal Solution; and
- Updated versions of training materials produced for Deliverable V.1 – Develop VoteCal System Training Materials and Complete Training Before the Pilot, as well as updated versions of all other VoteCal System Documentation that is described in Deliverable IV.3 – VoteCal System Documentation and Updated VoteCal System Source Code.

All components of this Deliverable V.3 – VoteCal System, Documentation and Training Materials including VoteCal System Source Code shall reflect the state of the VoteCal Solution as of the end of Phase V – Pilot Deployment and Testing, and shall reflect all changes to the VoteCal Solution that were made as a result of Deficiencies identified and lessons learned during Phase V – Pilot Deployment and Testing. The portions of this deliverable that constitute updated versions of documentation that was previously provided in Deliverable IV.3 – VoteCal System Documentation and Updated VoteCal System Source Code shall include documentation of all changes made to code since submittal of Deliverable IV.3, in a format approved by SOS.

### **Deliverable V.4 - Revised/Updated System Implementation and Deployment Plan**

Contractor shall update the VoteCal System Implementation and Deployment Plan (Deliverable III.5) to reflect required changes in the implementation and deployment tasks and procedures based on the findings and results of the pilot testing.

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**Deliverable V.5 – Phase 0 Ongoing Process Tasks and Deliverables**

Contractor shall perform all tasks, processes, and activities required in Phase 0.

**Deliverable V.6 – Final Report for Phase V**

Contractor shall submit a report indicating that all Phase activity is complete including status of Deliverables and outstanding issues.

**PHASE VI – DEPLOYMENT AND CUTOVER**

**Deliverable VI.1 – VoteCal System County Elections Staff Training Completed**

Contractor shall conduct training of the county elections officials' staff in accordance with Deliverable III.5 – VoteCal System Implementation and Deployment Plan, the current/updated Deliverable II.90 – Training Plan and the IPS. Contractor shall ensure that training materials reflect changes to the VoteCal System as of the end of Phase V – Pilot Deployment and Testing and are created sufficiently far in advance to train all remaining county elections officials' staff before deployment and cutover activities begin. Contractor shall, at the conclusion of the training, provide a list of the county staff trained in each county in preparation for deployment of the VoteCal System.

**Deliverable VI.2 – Updated Training of SOS Staff**

Contractor shall conduct any updated training necessary as a result of findings from pilot testing in Phase V – Pilot Deployment and Testing, to prepare the SOS staff - including technical, help desk, business staff, and trainers - for full deployment and production operation. Training shall cover the features, operation, and maintenance of the VoteCal system itself as well as Software tools (e.g., traceability management tools, monitoring tools, etc.) deployed to support operation and ongoing maintenance, and updates to system documentation (Deliverable V.3 – Updated System, Documentation and Training Materials including VoteCal System Source Code).

**Deliverable VI.3 – VoteCal System Help Desk Implementation and Support**

Contractor must provide detailed written desktop procedures, policies, and full documentation for the VoteCal System and provide the SOS staff assigned to support the Level 1 Help Desk with full training to support the VoteCal system. Contractor shall refresh help desk materials and training materials to incorporate changes necessitated as a result of lessons learned during Phase V – Pilot Deployment and Testing.

The ~~Contractor shall provide appropriate Software Contractor's Help Desk and maintenance/operation-related plans, processes, procedures, training and related documentation shall reflect usage of the iSupport problem tracking tool (which is currently in use within SOS)~~ to log, manage, escalate, and resolve problems, requested changes, system issues, etc., that are reported by VoteCal System users.

The Contractor shall be responsible for Level 2 and above Help Desk support. (SOS will be responsible for Level 1 Help Desk support of the application.) The Contractor Help Desk support shall be staffed to meet requirements described in sections 1 through 4 of both Attachment 1, Exhibit 4 – Hardware, Maintenance and Operations Services and Help Desk Service Levels and Attachment 1, Exhibit 5 –

Software Maintenance and Operations Services and Help Desk Service Levels for the VoteCal System, which define Maintenance and Operations services (including Deficiency Severity Levels and associated Service Level Objectives), Help Desk services, Deficiency escalation and report, and SOS responsibilities related to VoteCal maintenance and support.

The Contractor shall provide help desk monthly status reports including, but not limited to, Help Desk staffing, call volumes, call duration (average and peak), time taken to resolve a reported problem, outstanding calls and unresolved issues as of the date of the report, call times, peak usage, call types, quality issues, and recommendations. Contractor shall also develop and provide standard help desk reports to SOS, including monthly operational statistics reports and weekly incident reports to demonstrate that Contractor has met appropriate help desk requirements as defined in sections 1 through 4 of both Attachment 1, Exhibit 4 – Hardware, Maintenance and Operations Services and Help Desk Service Levels, and in Attachment 1 Exhibit 5 – Software Maintenance and Operations Services and Help Desk Service Levels for the VoteCal System.

The Contractor shall report initial problem receipt and problem resolution to the SOS Level 1 Help Desk. The information that Contractor shall supply to the SOS Level 1 Help Desk on problems or events shall include but not be limited to problem description, start and end dates/times, actual or potential cause(s), corrective action taken, and future action required.

Although monthly reports and ongoing Level 2 Help Desk and Deficiency resolution support are required as part of this Deliverable, the payment amount for this support is the percentage of the Total Cost listed in Table VII.4, Line A4 – VoteCal System Project Deliverables Cost for Deliverable VI.3, not a monthly amount, and payment is dependent on SOS Acceptance of this Deliverable V1.3.

**Deliverable VI.4 – VoteCal System Remaining County Data Integration Completed and Tested for Compliance and Successful Integration**

Upon SOS VoteCal Project Director's approval to proceed with deployment and cutover, Contractor shall initiate and complete data clean-up and uploading of all EMS data for counties that did not participate in the pilot (Phase V – Pilot Deployment and Testing), in accordance with the current VoteCal System Data Integration Plan (Deliverable II.8, updated as required during the Project). This clean-up and uploading shall include full integration of all county registration data into a single statewide record for each registered voter.

Contractor shall conduct integration testing of and resolve problems arising from VoteCal system Deficiencies, in accordance with the Acceptance Test Plan for Certification of EMS Data Integration and Compliance (Deliverable III.3). SOS team members and/or IV&V shall observe testing activities performed by Contractor and county elections officials' staff to verify documented results.

Upon Certification of EMS data integration and compliance, Contractor shall deliver an updated Deliverable IV.2 – VoteCal System Acceptance Test Completion, Results and Defect Resolution Report that documents results of the data integration and associated testing, including documented resolution of all Deficiencies that require resolution.

**Deliverable VI.5 – VoteCal System Final Deployment Report including Delivery of Updated VoteCal System Source Code and System Documentation**

Contractor shall conduct deployment of the VoteCal System in accordance with the updated VoteCal System Implementation and Deployment Plan (Deliverable V.4), the PMP and the IPS. Contractor shall, at the conclusion of the deployment when all counties have been implemented, submit a VoteCal System Final Deployment Report indicating that all deployment activities have been completed including description of status of all outstanding Deliverables, outstanding deployment issues, and the tasks that must be completed to resolve outstanding issues and complete any outstanding Deliverables.

Contractor shall also deliver updated versions of:

- VoteCal System Software Source Code and Contractor Commercial Proprietary Software Source Code in machine-readable format;
- The current VoteCal System Software Object Code or logical equivalent, Contractor Commercial Proprietary Software Object Code or logical equivalent, plus Object Code or logical equivalent for any Third-Party Software included within the VoteCal System;
- VoteCal System Source Code Documentation as described in Deliverable III.6 – VoteCal System Source Code and Documentation and as appropriate for the Contractor’s proposed VoteCal Solution; and
- Updated versions of all training materials produced for Deliverable V.1 – Develop VoteCal System Training Materials and Complete Training Before the Pilot, as well as updated versions of all other VoteCal System Documentation that is described in Deliverable IV.3 – VoteCal System Documentation and Updated VoteCal System Source Code.

All Source Code, Object Code and System Documentation submitted to fulfill requirements of this Deliverable VI.5 – VoteCal System final Deployment Report including Delivery of Updated VoteCal System Source Code and System Documentation shall reflect the state of the VoteCal Solution as of the end of Phase VI – Deployment and Cutover, and shall reflect all changes to the VoteCal Solution that were made as a result of Deficiencies identified and lessons learned during Phase VI – Deployment and Cutover. The portions of this Deliverable that constitute updated versions of documentation that was previously provided in Deliverable V.3 – Updated System, Documentation and Training Materials including VoteCal System Source Code shall include documentation of all changes made to code since submittal of Deliverable V,3, in a format approved by SOS.

#### **Deliverable VI.6 – Phase 0 Ongoing Process Tasks and Deliverables**

Contractor shall perform all tasks, processes, and activities required in Phase 0.

#### **Deliverable VI.7 – Final Report for Phase VI**

Contractor shall submit a report indicating that all Phase activity is complete including status of Deliverables and outstanding issues.

### **PHASE VII – FIRST YEAR OPERATIONS AND CLOSE-OUT**

Contractor shall provide SOS with complete VoteCal System warranty, maintenance and technical support services, commencing immediately after the VoteCal System is fully deployed to, implemented in, and certified in all counties, and SOS VoteCal Project Director gives approval to proceed based on confirmation of VoteCal System Acceptance by SOS (defined in Attachment 1 Section 10(e)).

Required service levels for Phase VII are defined in Attachment 1, Exhibit 4 – Hardware, Maintenance and Operations Services and Help Desk Service Levels, and in Attachment 1 and Exhibit 5 – Software Maintenance and Operations Services and Help Desk Service Levels for the VoteCal System. For this phase of the project, all sections of both Attachment 1, Exhibit 4 and Attachment 1, Exhibit 5 shall be in effect.

#### **Deliverable VII.1 – Monthly Operations and Performance Reports**

Contractor shall provide the following during Phase VII – First Year Operations and Close-out on a continuing basis:

- Support the VoteCal System help desk with Level 2 help desk services;

- Provide help desk reports (e.g. number of calls received, types of calls, time to resolution, outstanding calls/issues) as described in Deliverable VI.3 – VoteCal System Help Desk Implementation and Support;
- Monitor VoteCal system performance;
- Track reports of system errors, problems, and issues;
- Provide and manage an issue log;
- Provide a change log of all outstanding and resolved changes; and
- Provide an escalation process by which all reported problems can be managed until resolved.

Contractor shall provide Level 2 Help Desk support for problem resolution and troubleshooting for the duration of the maintenance period, per terms of (1) Attachment 1, Exhibit 4 – Hardware, Third Party Software and VoteCal System Maintenance and Operations Services and Help Desk Service Levels, (2) Attachment 1, Exhibit 5 – Software Maintenance and Operations Services and Help Desk Service Levels for the VoteCal System, (3) Help Desk Documentation for which SOS has provided Acceptance (as part of Deliverable V.3 – Updated System, Documentation and Training Materials including VoteCal System Source Code); and (4) required Level 2 Help Desk actions as delineated in the description of Deliverable VI.3 – VoteCal System Help Desk Implementation and Support in this Exhibit.

#### **Deliverable VII.2 – VoteCal System Final Documentation and Current VoteCal System Source Code**

At the conclusion of Phase VII – First Year Operations and Close-out, Contractor shall ensure that the most up-to-date versions of all VoteCal System components are implemented.

Contractor shall also deliver current and updated versions of:

- VoteCal System Software Source Code and Contractor Commercial Proprietary Software Source Code in machine-readable format;
- The current VoteCal System Software Object Code or logical equivalent, Contractor Commercial Proprietary Software Object Code or logical equivalent, plus Object Code or logical equivalent for any Third-Party Software included within the VoteCal System;
- VoteCal System Source Code Documentation as described in Deliverable III.6 – VoteCal System Source Code and Documentation and as appropriate for the Contractor’s proposed VoteCal Solution; and
- Updated versions of all training materials produced for Deliverable V.1 – Develop VoteCal System Training Materials and Complete Training Before the Pilot, as well as updated versions of all other VoteCal System Documentation that is described in Deliverable IV.3 – VoteCal System Documentation and Updated VoteCal System Source Code.

The portions of this Deliverable that constitute updated versions of documentation that was previously provided in Deliverable VI.5 – VoteCal System Final Deployment Report including Delivery of Updated VoteCal System Source Code and System Documentation shall include documentation of all changes made to code since submittal of Deliverable VI.5, in a format approved by SOS.

In addition, Deliverable VII.2 – VoteCal System Final Documentation and Current VoteCal System Source Code shall include:

- Complete system configuration and installation instructions so that all VoteCal System Hardware and Software components can be installed and maintained by an independent technician with appropriate skills;
- Complete records of all changes made to the VoteCal System during Phase VII – First Year Operations and Close-out which includes the Warranty Period, including the specific change made and the reason for the change;

- Complete records of all incidents and problems reported or encountered during Phase VII – First Year Operations and Close-out including the specific symptoms, the disposition of the problem, and reference to the specific documented changes that were made as a result of the problem;
- Complete records of the VoteCal System availability and all outages to any delivered system component or function during Phase VII – First Year Operations and Close-out, with specific reference to any incident or problem reports associated with each outage; and
- Complete and updated inventory of all VoteCal System Hardware and Software components – including manufacturer, model or version, and any options or customizations – reflecting the state of the VoteCal solution as of the end of Phase VII – First Year Operations and Close-out.

All components of this Deliverable VII.2- VoteCal System Final Documentation and Current VoteCal System Source Code shall reflect the state of the VoteCal System as of the end of Phase VII – First Year Operations and Close-out, and shall reflect all changes to the VoteCal Solution that were made as a result of Deficiencies identified and lessons learned during Phase VII – First Year Operations and Close-out.

NOTE: The SOS will not be able to exercise optional extensions for VoteCal Hardware and/or Software maintenance and operations support with the Contractor beyond the first year (after Phase VII) unless SOS has provided Acceptance for this Deliverable.

In the event that SOS chooses to exercise either its one (1) five-year option for Software Maintenance and Operations Support or one (1) or more of the five (5) one-year option(s) for extended Hardware support, an updated version of this Deliverable VII.2 shall be delivered to SOS at the end of each year of extended support.

### **Deliverable VII.3 – Phase 0 Ongoing Process Tasks and Deliverables**

Contractor shall perform all tasks, processes, and activities required in Phase 0.

### **Deliverable VII.4 – Complete Contract Implementation Close-Out**

Contractor shall submit a report indicating that all close-out tasks are complete including status of Deliverables and outstanding issues.

## ATTACHMENT 1, EXHIBIT 4

### HARDWARE MAINTENANCE AND OPERATIONS SERVICES AND HELP DESK SERVICE LEVELS

This Exhibit 4 describes the Hardware Maintenance and Operations (M&O) Services and Help Desk Services the Contractor must provide for the VoteCal System. Most of the requirements and Service Level Objectives (SLOs) specified in this Exhibit are independent of those specified for comparable Software M&O services for the VoteCal System (defined in Attachment 1 Exhibit 5 - Software Maintenance and Operations Services and Help Desk Service Levels for the VoteCal System). However, the Service Level Objective for VoteCal System "Up-time" is a joint objective defined in both Exhibits which specifies the VoteCal System is only considered "up" when the system's Hardware and Software are both functioning in a production operations mode (or a temporary workaround has been approved by SOS) and the system is available to end-users. See provisions 1.P and 5.E in this Exhibit and provisions 1.O and 5.E within Exhibit 5 for additional information about the VoteCal System Up-time Service Level Objective and related Down-time service credits.

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With the exception of the provisions in Section 5 – Monthly Support Service Charge and Credits, below, the requirements in this Exhibit apply from Phase V – Pilot through Phase VII – First Year Operations and Close-out. The requirements will also apply during any and all of the one-year option periods for Hardware M&O Services in the event that SOS chooses to exercise one (1) or more of the five (5) one-year option(s) for extended Hardware support.

#### 1. MAINTENANCE AND OPERATIONS

The following are Contractor's Hardware M&O Services obligations for the Hardware for the VoteCal System:

- A. Contractor shall maintain the Hardware to operate in accordance with its manufacturer Documentation and Specifications.
- B. Hardware M&O Services by Contractor shall include:
  - 1) Satisfying requirements described in the RFP, Section VI, Paragraph E. Technical Requirements;
  - 2) Firmware patch and version installation;
  - 3) Configuration changes recommended by manufacturer and testing of those changes;
  - 4) Coordination of the timing of any changes;
  - 5) Troubleshooting;
  - 6) Deficiency resolution and escalation;
  - 7) Routine cleaning and adjustment;
  - 8) Replacement of expendables;
  - 9) Upkeep of Maintenance and repair records; and
  - 10) Upkeep of inventory status, aging and System health statistics.
- C. Contractor shall ensure that commonly used Hardware parts, trained staff, and documentation are readily available so that Hardware Deficiencies can be corrected within the time frames specified in this Exhibit. Maintenance parts will be furnished by Contractor and will be new or

equivalent to new in performance when used in the Hardware maintained and supported by the Contractor.

- D. Contractor shall maintain VoteCal System Hardware connectivity with the SOS infrastructure.
- E. Contractor shall provide Hardware M&O Services for all Contractor-supplied components of the technical environments (including interfaces to VoteCal SOS Hardware, and networks, the interface with the Backup Restore and Disaster Recovery Vendor, and to the SOS interfaces with State and county technical environments).
- F. Contractor must diagnose and repair any failure of any of the aforementioned Hardware components in Section E (above) within timeframes necessary to meet service levels specified in this Exhibit, Section 1.K.
- G. If maintaining Hardware connectivity to the SOS infrastructure (this Exhibit, Section 1.D), providing Hardware M&O Services for Contractor-supplied Hardware (this Exhibit, Section 1.E) or diagnosing and repairing any failure of Contractor-supplied Hardware (this Exhibit, Section 1.F) requires modifications to the SOS network (WAN/LAN), the Contractor shall make such modifications according to the process defined in Section 4.G of this Exhibit.

~~H. Contractor must manually invoke failover processes to recover the VoteCal System from Hardware failures when automated processes are unavailable or did not function correctly, and restore the VoteCal System to normal operation in accordance with its specifications after correction of the failure condition.~~

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~~I.H.~~ Backup and Restore. Contractor must provide processes and systems to ensure that Data, Application Software, and configurations stored on the Hardware are backed up and can be restored in the event of a failure of that Hardware. At the beginning of Phase V - Pilot, the Contractor will use the designated Backup, Restore, and Disaster Recovery Vendor facilities for backup and retrieval for restoration. Further, Contractor must ensure these processes and systems are operating correctly by:

- 1) Monitoring logs and backup outputs to detect Deficiencies in the backup and restore to ensure that Deficiency conditions are corrected as required in Section 1.K below and,
- 2) Verifying backup and recovery processes are complete and correct following Hardware, Software or configuration changes.

~~J.I.~~ Correction of Deficiencies during Phase VII – First Year Operations and Close-out. The correction of any Deficiencies in any VoteCal System Hardware that may be discovered by Contractor or by the State during Phase VII – First Year Operations and Close-out will be considered Maintenance. Such Maintenance will be performed by Contractor without additional charge for the term of this Contract.

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~~K.J.~~ Responding to Deficiencies.

- 1) Notification Procedures. Suspected Deficiencies in the VoteCal System Hardware identified by either party will be handled by the following procedures and other procedures agreed to by the parties in writing:

~~(a) The State will provide Contractor with a description of the Deficiency.~~

~~(b)(a) The State will report the Deficiency will be reported by the party identifying the problem using the iSupport automated problem tracking tool specified in requirement T10.7 in Table VI.2 – VoteCal Technical Requirements and Response Form within Section VI - Project Management, Business and Technical Requirements trouble-reporting system provided by the Contractor. This report shall include a description of the Deficiency. When Contractor initially identifies and reports a Deficiency, SOS may~~

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supplement the Deficiency description with additional information on business or end-user impact.-

~~(e)(b)~~ -After correcting Deficiencies in the VoteCal System Hardware, Contractor shall provide a new or updated copy of appropriate Documentation.

- 2) Correction of Deficiencies. Contractor must correct all Hardware Deficiencies relating to all Severity Levels (as defined below) which are known to the Contractor or are reported by SOS to the Contractor. The SOS will specify the initial Severity Level at the time of reporting of for all reported the Deficiency Deficiencies, including those initially identified and reported by the Contractor. Contractor will have the opportunity to provide input on the Severity Level, and SOS will work collaboratively with Contractor to resolve any Severity Level disagreements.

Although SOS expects the Contractor to correct all Hardware Deficiencies, if SOS concludes that a particular Deficiency has minimal impact on the production VoteCal System's quality, accuracy, and timeliness and/or on VoteCal end-user ease-of-use, SOS may, on an exception basis and at its sole discretion, decide to extend the period of time allowed the Contractor to correct that Deficiency or wholly waive the Contractor's obligation to correct it. If SOS decides to extend or waive the Contractor's obligations for a particular Hardware Deficiency in this way, SOS shall communicate this decision to the Contractor in writing.

- 3) Problem/Deficiency Tracking. Contractor must continue to report problems and Deficiencies using the iSupport automated problem tracking tool (see additional detail provided in this Exhibit provision 1.J.1), provided in the Contract.
- 4) Election Impact on Severity Level. During the period from seventy-five (75) calendar days before an election to thirty-nine (39) calendar days after the election, SOS will have a heightened awareness of the impact created by certain Deficiencies. During this period, SOS will employ a stricter standard on determination of the Severity Levels and SOS may elevate some Severity Level 2 criteria to Severity 1 to ensure that the impact of Deficiencies does not adversely affect the conduct of an election.

The table below contains criteria for each Severity Level. Each Severity Level includes specifies the Service Level Objectives for the Contractor's Service Response Times-Time to Respond to SOS notification of a Deficiency and for the Contractor's time-Time to correct-Correct a Deficiencies Deficiency(Service Level Objectives).

**Table 1 – Severity Levels**

Severity Level	Definition	<u>Service-Response Times-Time to Respond Service Level Objective</u>	<u>Time to Correct Service Level Objectives</u>
<b>1 - Critical</b>	Critical incident, immediate response required. Business functionality completely unavailable or <del>prevents the business is unable to from</del> <u>accessing product (see also provision 1.J.4).</u> Work to address the Deficiency begins upon notification and continues until resolved. Correction is completed within timeframe required in	<ul style="list-style-type: none"> <li>• Contractor shall respond to SOS notification within 30 minutes via problem-tracking tool or telephone</li> </ul>	<ul style="list-style-type: none"> <li>• Contractor must correct all Severity Level 1 Hardware Deficiencies within 4 hours</li> </ul>

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Severity Level	Definition	<u>Service-Response Times</u> <u>Time to Respond</u> <u>Service Level Objective</u>	<u>Time to Correct</u> <u>Service Level Objectives</u>
	Service Level Objectives specified for Severity Level ultimately assigned the Deficiency.		
<b>2 – Serious</b>	Business functionality is partially unavailable. Correction is completed within the timeframe required for Service Level Objectives specified for Severity Level that is ultimately assigned the Deficiency.	<ul style="list-style-type: none"> <li>Contractor shall respond to SOS notification within 60 minutes via problem-tracking tool or telephone</li> </ul>	<ul style="list-style-type: none"> <li>Contractor must correct all Severity Level 2 Hardware Deficiencies within 24 hours</li> </ul>
<b>3 – Moderate</b>	A problem that impairs some functionality and an SOS-approved workaround may be available to be used until the Deficiency can be fully resolved within the timeframe required in Service Level Objectives specified for Severity Level ultimately assigned the Deficiency.	<ul style="list-style-type: none"> <li>Contractor shall respond to SOS notification within 24 hours via problem-tracking tool or telephone</li> </ul>	<ul style="list-style-type: none"> <li>Contractor must correct all Severity Level 3 Hardware Deficiencies within 7 calendar days</li> </ul>
<b>4 – Minimal</b>	A problem that does not affect any production functions of the Hardware and may be of minimal impact. A Hardware defect exists but does not impede any functionality. The business is fully operational. An SOS-approved workaround may be available to be used until the Deficiency can be fully resolved within the timeframe specified in Service Level Objectives for Severity Level ultimately assigned the Deficiency.	<ul style="list-style-type: none"> <li>Contractor shall respond to SOS notification within 24 hours via problem-tracking tool or telephone</li> </ul>	<ul style="list-style-type: none"> <li>Contractor must correct all Severity 4 Hardware Deficiencies within 30 calendar days; or, if the State agrees in writing to extend the resolution period, within the period specified by the State-approved extension.</li> </ul>

- 5) A workaround is a temporary fix to either a Hardware or Software failure such that core business functionality is restored and there are no significant impacts that prevent the business from operating as intended. All workarounds must be approved by the State, in writing, prior to implementation.

- 6) The State does not anticipate that suitable workarounds will be available for Severity Level 1 or Severity Level 2 Deficiencies. However, the State is willing to consider workarounds suggested by Contractor for Deficiencies assigned these Severity Levels on a case-by-case basis. A workaround for a Deficiency assigned a Severity Level 1, Severity Level 2, or Severity Level 3, if approved by the State, may result in a reduction of the Deficiency's Severity Level by at least one (1) level. The approval document provided by the State shall note the Severity Level(s) reduction. All workarounds approved by the State shall be identified, approved, and implemented within the Service Level Objectives of the initially-identified Severity Level. The ultimate resolution or correction of the Deficiency shall be implemented within the timeframe of the Service Level Objectives associated with the Severity Level that is specified at the time of the State's approval of the workaround (and consistent with this Exhibit, Section 1.K.2).

L-K Security. The Contractor must ensure that the VoteCal System operates securely by:

- 1) Scanning the VoteCal System, at least monthly, to ensure that security vulnerabilities are identified and addressed. The Contractor must (at a minimum) use the same vulnerabilities management tool(s) currently used by the SOS Information Technology Division (ITD). The minimum set of tools the VoteCal Contractor is required to use for vulnerabilities management purposes and the versions of these currently in use within SOS are:

- eEye Retina Network Security Scanner (v5.15.1)
- Qualys Vulnerability Management (v7.2 – part of the QualysGuard Enterprise Suite)
- Qualys Web Application Scanner (v2.0 – part of the QualysGuard Enterprise Suite)

~~1) Use a robust vulnerability scanning tool approved by SOS, (e.g. ISS Security Scanner, Retina from eEye, AppDetective by Application Security and Qualys or similarly capable tools).~~

- 1)2) Scanning the VoteCal System using the approved automated security vulnerabilities scanning tools following introduction of VoteCal System Software fixes or enhancements, Third Party Software patches or updates, modifications to Hardware components or firmware, to identify and address vulnerabilities.

- 2)3) Periodic testing of the security measures implemented under VoteCal to protect sensitive material entrusted to or developed by Contractor, including passwords, VoteCal System Documentation, network addresses and topology, and security-related procedures.

M-L Configuration Management and Documentation. Contractor must conform to the approved VoteCal processes and procedures specified in the VoteCal Software Version and System Configuration Plan (Deliverable I.4) including those aspects of Release Management components relating to Hardware.

N-M Change Control Plan Compliance. Contractor will adhere to the SOS VoteCal Change Control Plan in accordance with Contractor's compliance activities outlined in Change Control Processes (Deliverable 0.7).

O-N Performance Monitoring and System Log Review.

- 1) Contractor must establish measurement procedures to monitor System performance and operation, including verification that performance metrics are met. Such procedures shall be subject to SOS approval;
- 2) Contractor must monitor VoteCal System resource utilization to identify requirements for VoteCal System augmentation and/or file content Maintenance to prevent Deficiencies caused by resource limitations; and

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- 3) Contractor must review all error logs and reports as necessary to ensure the detection and correction of VoteCal System function and performance Deficiencies in a timely basis.

Q. VoteCal System Hardware Up-time and Maintenance Scheduling Standards and Requirements.

O.

~~R. SOS expects that Hardware will be available 99.0% of the time.~~

- 4) During the critical period of an election defined as seventy-five (75) days prior to and thirty-nine (39) days after the date of the actual election, ~~there will be the Contractor shall not perform no Maintenance or apply updates to the VoteCal System Hardware unless considered critical and coordinated with SOS prior to installation in advance.~~

1) \_

2) Existing Service Level Agreements (SLAs) established for the SOS technical infrastructure and for automated systems operating within SOS reserve up to twenty-four (24) hours per month for Scheduled Downtime, the period of time during which SOS and other contracted vendors are allowed to perform Hardware and Software Maintenance and update activities that may impact system availability. These SLAs specify that such Scheduled Downtime shall be limited to 6 a.m. through 6 p.m. on Sundays of the second and third weekends of each month, notwithstanding specified limitations during Election periods (see immediately preceding provision). The VoteCal Contractor shall perform all Maintenance and updates for VoteCal System Hardware (described in this Exhibit) and Software (described in Attachment 1 Exhibit 5 - Software Maintenance and Operations Services and Help Desk Service Levels for the VoteCal System) during these periods of time reserved for Scheduled Downtime. The Contractor and SOS shall coordinate and establish by mutual agreement the Scheduled Downtime for the VoteCal System sufficiently in advance to enable notification of SOS, county and public VoteCal System users beforehand. See the Site Maintenance Schedule link from the SOS public website's home page to review published information related to SOS Scheduled Downtime as it pertains to that website (available at <http://www.sos.ca.gov/maintenance-schedule.htm>).

3) In any given month, the actual hours required for VoteCal Scheduled Downtime (scheduled periods during which the VoteCal System may be unavailable to system users in whole or in part) may result from scheduled Maintenance and update activities required for: i) SOS' technical infrastructure and/or other automated systems operating within SOS (systems other than VoteCal); and/or, ii) VoteCal System Hardware and Software.

4) The number of actual VoteCal Scheduled Downtime hours required each month shall be deducted from the total number of hours in the calendar month to establish the Total Available Operational Hours for that month. The Total Available Operational Hours for each month shall be the basis against which the VoteCal System up-time requirements and SLO are evaluated (see below). For example, if the total actual VoteCal Scheduled Downtime hours required for a 30-day month is 12 hours, then the Total Available Operational Hours for that month would be 708 hours.

~~5) Scheduled downtime for Maintenance and updates is separately scheduled and not included within the downtime described for credits. Contractor is authorized twelve (12) hours per month for scheduled downtime for all updates and Maintenance for both Hardware and Software (see Attachment 1 Exhibit 5 - Software Maintenance and Operations Services and Help Desk Service Levels for the VoteCal System); which shall be performed on weekend periods only. The specific weekend periods for scheduled downtime will be established by mutual agreement between Contractor and SOS, sufficiently in advance for SOS to notify all SOS, county and public VoteCal users.~~

P. VoteCal System Up-time Service Level Objective. The VoteCal System, including system Hardware and Software, must be functioning in a production operations mode (allowing for

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implementation of an approved workaround) and available for end-user use for 99% (ninety-nine percent) of the Total Available Operational Hours for the month. Using the example of 708 Total Available Operational Hours for a given month (above), the VoteCal System would need to be "up" for 701 hours during that month for the Contractor to meet the Up-time Service Level Objective.

## 2. HELP DESK SUPPORT

- A. Technical Help Desk Support and Problem Escalation Service Levels. Contractor shall provide Level 2 Help Desk support to the VoteCal System from Phase V – Pilot Deployment and Testing through the end of the Contract term. As defined in the Glossary, SOS will provide Level 1 Help Desk support, that is, receiving and recording the Issue and providing basic assistance if needed.
- B. Help Desk Services include:
- 1) Intake of Deficiencies from SOS Level 1 Help Desk;
  - 2) Additional Deficiency diagnostics and analysis;
  - 3) Application of monitoring, probe and other technical investigatory techniques;
  - 4) Deficiency triage, intervention and/or resolution
  - 5) Coordination of Deficiency service response across expertise types (e.g., network, systems, database, VoteCal System Software, and other components of the VoteCal System); and,
  - 6) Deficiency referral/escalation; and Deficiency Documentation, tracking and reporting.
- C. Contractor must provide 24/7/365 Level 2 Help Desk support for Deficiencies related to the VoteCal operational and technical environments in accordance with the Severity Levels defined in this Exhibit. Contractor shall provide Level 2 Help Desk support from Contractor's help desk, and such support must ensure that the SOS can report system Deficiencies on a 24/7 basis, and that the required service levels which are described in Table 1 – Severity Levels, for Contractor support and Deficiency escalation and correction are met.
- D. Contractor must ensure that the SOS receives a callback or response via the problem tracking tool from a Contractor technician trained to perform support of the VoteCal System solution in accordance with the ~~Service Response Times~~Time to Respond Service Level Objective in Table 1 - Severity Levels above.

## 3. DEFICIENCY ESCALATION AND REPORTING

- A. If ~~the a~~ Deficiency involves a VoteCal problem or an outage that may be caused by Hardware, the Contractor must respond ~~within the Service Response Times~~ and correct the Deficiency according to the Service Level Objectives, ~~both within described in~~ this Exhibit, Table 1. The clock begins from the time that SOS reports the problem or outage.
- B. Contractor must provide SOS the ability to view the description, status, actions planned and taken and resolution for all Deficiencies reported to the Contractor.
- C. Contractor must provide summary reports for all Deficiencies reported, resolved and outstanding at the end of each month and year.

## 4. SOS RESPONSIBILITIES

- A. SOS will be responsible for providing reasonable facilities support of the SOS raised-floor server site, including:
- 1) Suitable utility electric power, including power distribution.
  - 2) Sufficient chilled air to cool all installed Equipment to within manufacturer's specifications.

- 3) Physical security, access control, and surveillance.
  - 4) Power outage, temperature exception, and water detection and alerting.
  - 5) Fire alarm and suppression systems.
- B. SOS will provide reasonable, suitable workspaces onsite in accordance with Attachment 1- Statement of Work, Section 6 (j) - Responsibilities of SOS or as otherwise subsequently mutually agreed to by the Contractor and SOS for the duties described herein.
- C. SOS will maintain a Multi-Protocol Label Switch (MPLS) network node (Verizon) to the Contractor's external environment to provide the Contractor remote access to the VoteCal environment.
- D. Escorted by SOS staff, the Contractor will be permitted 24/7/365 physical access to the SOS Data Center.
- E. SOS will provide Level 1 Help Desk Services.
- F. SOS will make every effort to report Deficiencies in a timely manner.
- G. SOS will provide M&O support for all aspects of the SOS controlled technical infrastructure utilized by the VoteCal System that was not provided by the Contractor under the terms of the VoteCal Contract inclusive of pre-existing SOS Hardware and Software. Changes previously made to the SOS network (WAN/LAN) based on the Contractor's specified and implemented VoteCal System solution and any additional network changes the Contractor may require during the period covered by this Contract (see this Exhibit, Section 1.G) shall be subject to the following SOS-prescribed process: the Contractor is permitted view access for the network management tools to evaluate and monitor SOS network components included within the Contractor's VoteCal System solution; the Contractor shall submit requests for SOS network changes required for VoteCal to designated SOS ITD representatives in advance of when the changes are required (SOS and the Contractor will agree to the "lead time" required for such requests); and, SOS ITD staff will collaborate with the Contractor to implement SOS-approved network changes requested or required by the Contractor.

5. MONTHLY SUPPORT ~~SERVICE~~ SERVICE CHARGE AND CREDITS

- A. Period of Applicability. The requirements and terms in this Section 5 – Monthly Support Service Charge and Credits apply during Phase VII – First Year Operations and Close-out. These requirements and terms shall also apply during any and all of the one-year options for Hardware Maintenance & Operations (M&O) Services in the event that the State chooses to exercise one (1) or more of the five (5) one-year option(s) for extended Hardware support.
- B. Monthly Hardware Support Service Charge. The monthly support service charge described here represents the total Contractor compensation for providing all maintenance and support services specified in this Exhibit in accordance with defined ~~service response times and service~~ Service level-Level objectivesObjectives. During Phase VII – First Year Operations and Close-out, the monthly support service charge shall be equivalent to one-twenty-fourth (1/24) of the total Contract amount for Deliverable VII.1 – Monthly Operations Support and Performance Reports (see Attachment 1 Exhibit 2 – Tasks and Deliverables). **Note:** See Attachment 1, Exhibit 5 - Software Maintenance and Operations Services and Help Desk Service Levels for the VoteCal System. The monthly support service charge for the Software M&O Services defined in that Exhibit during Phase VII – First Year Operations and Close-out shall also be equivalent to one-twenty-fourth (1/24) of the total Contract amount for Deliverable VII.1 – Monthly Operations Support and Performance Reports.

During any and all of the one-year options for Hardware M&O Services, in the event that SOS chooses to exercise one (1) or more of the five (5) one-year option(s) for extended Hardware support, the monthly support service charge shall be one-twelfth (1/12) of the total amount for the

applicable year in Cost Table VII.5 – VoteCal System 5-Year Hardware Maintenance and Operations Costs (see Section VII – Cost Tables). For such subsequent one-year option periods of Hardware M&O Services, the prorated monthly support service charge for fractions of a calendar month shall be computed at 1/30<sup>th</sup> of the monthly support service charge per calendar day.

- C. ~~Service Response Time~~Time to Respond Credits. If Contractor's Maintenance personnel fail to call back SOS within the time period required for the Time to Respond ~~service Service response Level Objective~~time specified in Table 1 (above), Contractor shall grant a credit to SOS in ~~the a specified amount of 1/30<sup>th</sup>~~ of the monthly Hardware support service charges ~~(–as defined above in 5.B – Monthly Hardware Support Service Charge)–~~ for each "late" hour that exceeds the Service Level Objective, beginning with the time of notification and ending with the time of return call or notification by problem resolution system. A "late" hour is charged whenever the portion of an hour exceeds thirty (30) minutes. The amount of the Time to Respond credit shall be based on the Severity Level assigned to the Deficiency and calculated according to the specifications included in Table 2 (below).
- D. ~~Service Level Objective~~Time to Correct Credits. If Contractor's Maintenance personnel fail to correct the Hardware Deficiency within the time period required for the Time to Correct Service Level Objectives ~~time periods specified in Table 1 (above)~~, Contractor shall grant a credit to SOS in ~~the a specified amount of 1/30<sup>th</sup>~~ of the monthly Hardware support service charges ~~(–as defined above in 5.B – Monthly Hardware Support Service Charge–Charge)–~~ for each "late" hour exceeding that exceeds the Service Level Objective. The time to correct the Deficiency begins accumulating when the Contractor returns the problem notification call or when the problem resolution system generates the acknowledging notification s and ending ends with verification by SOS that the Deficiency is corrected. A "late" hour is charged whenever the portion of an hour exceeds thirty (30) minutes. The amount of the Time to Correct credit shall be based on the Severity Level assigned to the Deficiency and calculated according to the specifications included in Table 2 (below).
- E. Downtime Credits. Contractor shall grant a Downtime credit (as described below) to SOS, # when the system VoteCal System fails to meet the Up-time Service Level Objective has more than 1.0% downtime (specified in this Exhibit's provision 1.P, above) during any month during within the term of the Contract or any amendment to the Contract. These Downtime credits shall apply whenever the VoteCal System Hardware, Software or both are not functioning in a production operations mode and/or the system is not available to end-users for the minimum percentage of time required in the Up-time Service Level Objective due to no fault of SOS. See provision 4.G for examples of SOS infrastructure Hardware and Software components that the Contractor is not responsible for maintaining or fixing should problems arise and which, if down, will not result in Downtime service credits for the Contractor.

When the Contractor is assessed Downtime credits, the Contractor shall not also be subject to Time to Correct Credits (described above) for the Deficiency or problem causing the VoteCal System to be down.

~~–Downtime is defined as the VoteCal System is not available to VoteCal users to operate through no fault of SOS. The Downtime credits specific to this Exhibit shall be equal to 1/60<sup>th</sup> 1/30<sup>th</sup> of the monthly Hardware service charges (–as defined above in 5.B – Monthly Hardware Support Service Charge) –for each hour during a month percentage that the VoteCal System is down or unavailable to end-users in excess of the number of hours the system could be down in that month (excluding Scheduled Downtime) and still meet falls below the Up-time Service Level Objective for the month (standards and requirements defined in see this Exhibit, Section 1.P - Hardware VoteCal System Up-time Service Level Objective), irrespective of whether the VoteCal System is down due to Hardware, Software or both and Maintenance Scheduling Standards and Requirements. Note: The Contractor shall also be liable for the Downtime credits specified in provision 5.E in Attachment 1 Exhibit 5 - Software Maintenance and Operations Services and~~

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Help Desk Service Levels for the VoteCal System when these same conditions are met; however, those credits are considered specific to that Exhibit only and shall contribute only to the credit limits specified in that Exhibit (see below for credit limits for this Exhibit).

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E-F. Credit Limits. The maximum total credits the Contractor will be assessed for a month for due to failing to meet any given set of missed Service Response Times, any of the Service Level Objectives specified in this Exhibit during the month or downtime within any month will shall be the total monthly Hardware support service charges (as defined above in 5.B – Monthly Support Service Charge) – for that month.

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F.G. Service Credits are a price adjustment and are not an estimate of the loss or damage that may be suffered by the State as a result of Contractor's failure to meet any Service Level. Payment of any Service Credit by Contractor under this Agreement is without prejudice to any entitlement that the State may have to damages at law or in equity from Contractor from, or otherwise arising in respect to, any such breach of the Agreement, or to any right of the State to terminate this Agreement pursuant to Attachment 2 - IT General Provisions Modified for the SOS VoteCal Project Only.

**Table 2 – Calculating Time to Respond & Time to Correct Credits**

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<b><u>Service Credit Calculation</u></b>	<b><u>Problem/Deficiency Severity Level and Applicable Fraction of Monthly Service Charge</u></b>			
	1	2	3	4
<u>Credit for each "late" hour calculated at fraction of monthly Hardware service charge (see 5.B) based on Severity Level of Problem/Deficiency</u>	<u>1/60</u>	<u>1/120</u>	<u>1/300</u>	<u>1/600</u>

## ATTACHMENT 1, EXHIBIT 5

### SOFTWARE MAINTENANCE AND OPERATIONS SERVICES AND HELP DESK SERVICE LEVELS FOR THE VOTECAL SYSTEM

This Exhibit 5 describes the Software Maintenance and Operations (M&O) Support and Help Desk Services the Contractor must provide for the VoteCal System. Most of the requirements and Service Level Objectives (SLOs) specified in this Exhibit are independent of those specified for comparable Hardware M&O services for the VoteCal System (defined in Attachment 1 Exhibit 4 - Hardware, Maintenance and Operations Services and Help Desk Service Levels). However, the Service Level Objective for VoteCal System "Up-time" is a joint objective defined in both Exhibits which specifies the VoteCal System is only considered "up" when the system's Hardware and Software are both functioning in a production operations mode (or a temporary workaround has been approved by SOS) and the system is available to end-users. See provisions 1.O and 5.E in this Exhibit and provisions 1.P and 5.E within Exhibit 4 for additional information about the VoteCal System Up-time Service Level Objective and related Down-time service credits.

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Software M&O Support for the VoteCal System includes providing the support specified in this exhibit for any of the following types of Software components included within the VoteCal System as defined in Attachment 1 – Statement of Work, Provision 12 – Software Provisions: Contractor Commercial Proprietary Software; VoteCal System Software (e.g., custom-developed Software); and, Third Party Software. Reference to "VoteCal System Software" throughout this exhibit is intended to include all types of Software included within the VoteCal System. With the exception of the provisions in Section 5 – Monthly Support Service Charge and Credits, below, the requirements in this Exhibit apply from Phase V – Pilot through Phase VII – First Year Operations and Close-out. The requirements will also apply should SOS choose to exercise its one (1) five-year option for Software M&O Support for the VoteCal System.

#### 1. MAINTENANCE AND OPERATIONS

Following are Contractor requirements for Software M&O Services for the VoteCal System:

- A. Contractor shall maintain the Software to operate in accordance with its developer/manufacturer Documentation and Specifications. When such Software maintenance involves the SOS network (WAN/LAN), the Contractor shall conduct those maintenance activities according to the process defined in Section 4.G of this Exhibit.
- B. Software M&O Services by Contractor shall include:
  - 1) Satisfying requirements described in the RFP, Section VI, Paragraph E. Technical Requirements;
  - 2) Software patch and version installation;
  - 3) Configuration changes recommended by manufacturer and testing of those changes,;
  - 4) Coordination of the timing of any changes;
  - 5) Troubleshooting;
  - 6) Deficiency resolution and escalation;
  - 7) Upkeep of Maintenance record; and,
  - 8) Upkeep of inventory status, aging and System health statistics.

- C. Contractor shall correct all Software Deficiencies identified by the State or Contractor in the Software comprising the VoteCal System. When such correction requires changes to the SOS network (WAN/LAN), the Contractor shall conduct those maintenance activities according to the process defined in Section 4.G of this Exhibit.
- D. The Contractor shall restore the VoteCal System Software to performance standards and functionality required in Section VI, Paragraph E, Technical Requirements following the installation of any manufacturer-provided or security-related updates for any other component of the VoteCal System.
- E. Contractor must ensure the continued integrity and performance of the VoteCal System Software in accordance with applicable requirements in RFP Section VI.E, Technical Requirements when changes are required within the SOS Platform Environment. Changes within the SOS Platform Environment include all patches, revisions, extensions, or configuration changes designated as mandatory or security-related by the licensors and manufacturers of the products in the Platform Environment.

~~F. Contractor must manually invoke failover processes to recover the VoteCal System from Software failures when automated processes are unavailable or do not function correctly, and restore the VoteCal System to normal operation in accordance with its Specifications after correction of the failure condition.~~

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~~G.F.~~ Backup and Restore. Contractor must provide processes and Systems to ensure that Data, Application Software, and configurations stored on the Hardware are backed up and can be restored in the event of failure of that Hardware. At the beginning of Phase V - Pilot, the Contractor will use the designated Backup, Restore, and Disaster Recovery Vendor facilities for backup and retrieval for restoration. Further, Contractor must ensure these processes and Systems are operating correctly by:

- 1) Monitoring logs and backup outputs to detect Deficiencies in the backup and restore to ensure that Deficiency conditions are corrected as required
- 2) Verifying backup and recovery processes are complete and correct following Hardware, Software or configuration changes.

~~H.G.~~ Correction of Deficiencies during Phase VII – First Year Operations and Close-out. The correction of any Deficiencies in any of the VoteCal System Software that may be discovered by Contractor or by the State during Phase VII - First Year Operations and Close-out will be considered Maintenance. Such Maintenance will be performed by Contractor without additional charge for the term of this Contract.

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~~I.H.~~ Responding to Deficiencies

- 1) Notification Procedures. Suspected Deficiencies ~~discovered by the State~~ in the VoteCal System Software identified by either party will be handled by the following procedures and other procedures agreed to by the parties in writing;

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~~a) The State will provide Contractor with a description of the Deficiency;~~

~~b) a) The State will report the Deficiency will be reported by the party identifying the problem using an the iSupport automated trouble problem tracking tool specified in requirement T10.7 in Table VI.2 – VoteCal Technical Requirements and Response Form within Section VI - Project Management, Business and Technical Requirements reporting System provided by the Contractor; This report shall include a description of the Deficiency. When Contractor initially identifies and reports a Deficiency, SOS may supplement the Deficiency description with additional information on business or end-user impact.~~

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- e)b) After correcting Deficiencies in the VoteCal System Software, Contractor shall install and provide a new copy of both Source Code and Object Code for the affected portions of the VoteCal System Software in machine-readable form, along with any updated Documentation within five (5) State business days.
- 2) Correction of Software Deficiencies. Contractor must correct all Software Deficiencies relating to all Severity Levels (as defined in Table 1 below) which are known to the Contractor or reported by SOS to the Contractor. SOS will specify the initial Severity Level for all reported Deficiencies, including those initially identified and reported by the Contractor, at the time of reporting the Deficiencies. Contractor will have the opportunity to provide input on the Severity Level, and SOS will work collaboratively with Contractor to resolve any Severity Level disagreements.
- Although SOS expects the Contractor to correct all Software Deficiencies, if SOS concludes that a particular Deficiency has minimal impact on the production VoteCal System's quality, accuracy, and timeliness and/or on VoteCal end-user ease-of-use, SOS may, on an exception basis and at its sole discretion, decide to extend the period of time allowed the Contractor to correct that Deficiency or wholly waive the Contractor's obligation to correct it. If SOS decides to extend or waive the Contractor's obligations for a particular Software Deficiency in this way, SOS shall communicate this decision to the Contractor in writing.
- 3) Problem/Deficiency Tracking. Contractor must continue to report problems and Deficiencies using the iSupport automated problem tracking tool (see additional detail provided in this Exhibit provision 1.H.1), provided in the Contract for Services.
- 4) Election Impact on Severity Level. During the period from seventy-five (75) calendar days before an election to thirty-nine (39) calendar days after the election, SOS will have a heightened awareness of the impact created by certain Deficiencies. During this period, SOS will employ a stricter standard on determination of the Severity Levels. SOS may elevate some Severity Level 2 criteria to Severity Level 1 to ensure that the impact of Deficiencies does not adversely affect the conduct of an election.

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The table below contains criteria for each Severity Level. Each Severity Level includes-specifies the service-Service Level Objectives for the Contractor's Time to Respond to SOS notification of a Deficiency response times and for the Contractor's time-Time to correct-Correct a Deficiencies-Deficiency(Service Level Objectives).

Table 1 – Severity Levels

Severity Level	Definition	<u>Time to Respond Service Level ObjectiveService Response Times</u>	<u>Time to Correct Service Level Objectives</u>
1 - Critical	Critical incident, immediate response required. Business functionality completely unavailable or <u>prevents-the business is unable to from accessing product (see also provision 1.H.4).</u> Work to address the Deficiency begins upon notification and	<ul style="list-style-type: none"> <li>Contractor shall respond to SOS notification within 30 minutes via problem-tracking tool or telephone</li> </ul>	<ul style="list-style-type: none"> <li>Contractor must correct all Severity Level 1 Software Deficiencies within 4 hours</li> </ul>

Severity Level	Definition	<u>Time to Respond</u> <u>Service Level</u> <u>Objective</u> <u>Service</u> <u>Response Times</u>	<u>Time to Correct</u> <u>Service Level</u> <u>Objectives</u>
	continues until resolved. Correction is completed within timeframe required for Service Level Objectives specified for Severity Level ultimately assigned the Deficiency.		
<b>2 – Serious</b>	Business functionality is partially unavailable Correction is completed within the timeframe required for Service Level Objectives specified for Severity Level ultimately assigned the Deficiency.	<ul style="list-style-type: none"> <li>Contractor shall respond to SOS notification within 60 minutes via problem-tracking tool or telephone</li> </ul>	<ul style="list-style-type: none"> <li>Contractor must correct all Severity Level 2 Software Deficiencies within 24 hours</li> </ul>
<b>3 – Moderate</b>	A problem that impairs some functionality and an SOS-approved workaround may be available to be used until the Deficiency can be fully resolved within the timeframe required for Service Level Objectives specified for the Severity Level ultimately assigned the Deficiency.	<ul style="list-style-type: none"> <li>Contractor shall respond to SOS notification within 24 hours via problem-tracking tool or telephone</li> </ul>	<ul style="list-style-type: none"> <li>Contractor must correct all Severity Level 3 Software Deficiencies within 7 calendar days</li> </ul>
<b>4 – Minimal</b>	A problem that does not affect any production functionality of the software and may be cosmetic in nature. A software defect exists but does not impede any functionality. The business is fully operational. An SOS-approved workaround may be available to be used until the Deficiency can be fully resolved within the timeframe required for Service Level Objectives specified for Severity Level ultimately assigned the Deficiency.	<ul style="list-style-type: none"> <li>Contractor shall respond to SOS notification within 24 hours via problem-tracking tool or telephone</li> </ul>	<ul style="list-style-type: none"> <li>Contractor must correct all Severity Level 4 Software Deficiencies within 30 calendar days; or, if the State agrees in writing to extend the resolution period, within the period specified by the State-approved extension.</li> </ul>

5) A workaround is a temporary fix to either a Hardware or Software failure such that core business functionality is restored and there are no significant impacts that prevent the

business from operating as intended. All workarounds must be approved by the State, in writing, prior to implementation.

- 6) The State does not anticipate that suitable workarounds will be available for Severity Level 1 or Severity Level 2 Deficiencies. However, the State is willing to consider workarounds suggested by Contractor for Deficiencies assigned these Severity Levels on a case-by-case basis. A workaround for a Severity Level 1, Severity Level 2 or Level 3 Deficiency, if approved by the State, may result in a reduction of the Deficiency's Severity Level by at least one (1) level. The approval document provided by the State shall note the Severity Level(s) reduction. All workarounds approved by the State shall be identified, approved, and implemented within the Service Level Objectives of the initially-identified Severity Level. The ultimate resolution or correction of the Deficiency shall be implemented within the timeframe of the Service Level Objectives associated with the Severity Level that is specified at the time of the State's approval of the workaround (and consistent with this Exhibit, Section I.2).

**J. Security.** Contractor must ensure that the VoteCal System Software operates securely by:

- 1) Scanning the VoteCal System, at least monthly, to ensure that security vulnerabilities are identified and addressed. The Contractor must (at a minimum) use the same vulnerabilities management tool(s) currently used by the SOS Information Technology Division (ITD). The minimum set of tools the VoteCal Contractor is required to use for vulnerabilities management purposes and the versions of these currently in use within SOS are:

- eEye Retina Network Security Scanner (v5.15.1)
- Qualys Vulnerability Management (v7.2 – part of the QualysGuard Enterprise Suite)
- Qualys Web Application Scanner (v2.0 – part of the QualysGuard Enterprise Suite)

Use a robust vulnerability scanning tool approved by SOS, (e.g. ISS Security Scanner, Retina from eEye, AppDetective by Application Security and Qualys or similarly capable tools).

- 4)2) Scanning the VoteCal System using the approved automated security vulnerabilities scanning tools following introduction of VoteCal System Software fixes or enhancements, Third Party Software patches or updates, modifications to Hardware components or firmware, to identify and address vulnerabilities.

- 2)3) Periodic testing of the security measures implemented under VoteCal to protect sensitive material entrusted to or developed by Contractor, including passwords, VoteCal System Documentation, network addresses and topology, and security-related procedures.

**K. Configuration Management and Documentation.** Contractor must conform to the approved VoteCal processes and procedures specified in the VoteCal Software Version and System Configuration Plan (Deliverable I.4) including those aspects of Release Management components relating to Software.

**L. Change Control Plan Compliance.** Contractor will adhere to the SOS VoteCal Change Control Plan in accordance with Contractor's compliance activities outlined in Change Control Processes (Deliverable 0.7).

**M. Performance Monitoring and System Log Review.**

- 1) Contractor must establish measurement procedures to monitor System performance and operation, including verification that performance metrics are met. Such procedures shall be subject to SOS approval;
- 2) Contractor must monitor VoteCal System resource utilization to identify requirements for VoteCal System augmentation and/or file content Maintenance to prevent Deficiencies caused by resource limitations; and

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- 3) Contractor must review all error logs and reports as necessary to ensure the detection and correction of VoteCal System function and performance Deficiencies in a timely basis.
- N. VoteCal Software Up-time and Maintenance Scheduling Standards and Requirements.

~~1) SOS expects that Software will be available 99.0% of the time.~~

~~2) 1) During the critical period of an election defined as seventy-five (75) days prior to and thirty-nine (39) days after the date of the actual election, there will be no Maintenance updates to the Software unless considered critical and coordinated with SOS prior to installation.~~

~~2) Existing Service Level Agreements (SLAs) established for the SOS technical infrastructure and for automated systems operating within SOS reserve up to twenty-four (24) hours per month for Scheduled Downtime, the period of time during which SOS and other contracted vendors are allowed to perform Hardware and Software Maintenance and update activities that may impact system availability. These SLAs specify that such Scheduled Downtime shall be limited to 6 a.m. through 6 p.m. on Sundays of the second and third weekends of each month, notwithstanding specified limitations during Election periods (see immediately preceding provision). The VoteCal Contractor shall perform all Maintenance and updates for VoteCal System Software (described in this Exhibit) and Hardware (defined in Attachment 1 Exhibit 4 - Hardware, Maintenance and Operations Services and Help Desk Service Levels) during these periods of time reserved for Scheduled Downtime. The Contractor and SOS shall coordinate and establish by mutual agreement the Scheduled Downtime for the VoteCal System sufficiently in advance to enable notification of SOS, county and public VoteCal System users beforehand. See the *Site Maintenance Schedule* link from the SOS public website's home page to review published information related to SOS Scheduled Downtime as it pertains to that website (available at <http://www.sos.ca.gov/maintenance-schedule.htm>).~~

~~3) In any given month, the actual hours required for VoteCal Scheduled Downtime (scheduled periods during which the VoteCal System may be unavailable to system users in whole or in part) may result from scheduled Maintenance and update activities required for: i) SOS' technical infrastructure and/or other automated systems operating within SOS (systems other than VoteCal); and/or, ii) VoteCal System Hardware and Software.~~

~~4) The number of actual VoteCal Scheduled Downtime hours required each month shall be deducted from the total number of hours in the calendar month to establish the Total Available Operational Hours for that month. The Total Available Operational Hours for each month shall be the basis against which the VoteCal System up-time requirements and SLQ are evaluated (see below). For example, if the total actual VoteCal Scheduled Downtime hours required for a 30-day month is 12 hours, then the Total Available Operational Hours for that month would be 708 hours.~~

~~O. VoteCal System Up-time Service Level Objective. The VoteCal System, including system Hardware and Software, must be functioning in a production operations mode (allowing for implementation of an approved workaround) and available for end-user use for 99% (ninety-nine percent) of the Total Available Operational Hours for the month. Using the example of 708 Total Available Operational Hours for a given month (above), the VoteCal System would need to be "up" for 701 hours during that month for the Contractor to meet the Up-time Service Level Objective.~~

~~3) Downtime for Maintenance and updates is separately scheduled and not included within the downtime described for credits. Contractor is authorized twelve (12) hours per month for scheduled downtime for all updates and Maintenance for both Software and Hardware (see Attachment 1 Exhibit 4 - Hardware Maintenance and Operations Services and Help Desk Service Levels for the VoteCal System), which is performed only on weekend periods. The specific weekend periods for scheduled downtime will be established by mutual agreement~~

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~~between Contractor and SOS, sufficiently in advance for SOS to notify all SOS, county and public VoteCal users.~~

## 2. VOTECAL SYSTEM SOFTWARE HELP DESK SUPPORT AND DEFICIENCY ESCALATION SERVICE LEVELS

- A. Technical Help Desk Support and Problem Escalation Service Levels. Contractor shall provide Level 2 Help Desk support to the VoteCal System from Phase V – Pilot Deployment and Testing through the end of the Contract term. As defined in the Glossary, SOS will provide Level 1 Help Desk support, that is, receiving and recording the Issue and providing basic assistance if needed.
- B. Help Desk Services include:
- 1) Intake of Deficiencies from SOS Level 1 Help Desk;
  - 2) Additional Deficiency diagnostics and analysis;
  - 3) Application of monitoring, probe, and other technical investigatory techniques;
  - 4) Deficiency triage, intervention and/or resolution;
  - 5) Coordination of Deficiency response across expertise types (e.g., network, Systems, database, VoteCal System Software, and other components of the VoteCal System); and,
  - 6) Deficiency referral/escalation; and Deficiency Documentation, tracking and reporting.
- C. Contractor must provide 24/7/365 Level 2 Help Desk support for Deficiencies related to the VoteCal operational and technical environments in accordance with the Severity Levels defined in this Table 1. Contractor shall provide Level 2 Help Desk support from Contractor's help desk, and such support must ensure that the SOS can report System Deficiencies on a 24/7 basis, and that the required service levels which are described in Table 1 – Severity Levels above for Contractor support and Deficiency escalation and correction are met.
- D. Contractor must ensure that the SOS receives a callback or response via the problem resolution tracking tool from a Contractor technician trained to perform support of the VoteCal System solution in accordance with the ~~Service Response Times~~ to Respond Service Level Objective in Table 1 – Severity Levels above.

## 3. DEFICIENCY ESCALATION AND REPORTING

- A. If ~~the a~~ Deficiency involves a VoteCal problem or failure-outage that may be caused by Software, the Contractor must respond ~~within the Service Response Times~~ and correct the Deficiency according to the Service Level Objectives, ~~both specified within this~~ described in this Exhibit, Table 1. The clock begins from the time that SOS reports the problem or outage.
- B. Contractor must provide SOS the ability to view the description, status, actions planned and taken and resolution for all Deficiencies reported to the Contractor.
- C. Contractor must provide summary reports for all Deficiencies reported, resolved, and outstanding at the end of each month and year.

## 4. SOS RESPONSIBILITIES

- A. SOS will be responsible for providing reasonable facilities support of the SOS raised-floor server site, including:
- 1) Suitable utility electric power, including power distribution;
  - 2) Sufficient chilled air to cool all installed Equipment to within manufacturer's Specifications;
  - 3) Physical security, access control and surveillance;

- 4) Power outage, temperature exception, and water detection and alerting;
- 5) Fire alarm and suppression Systems.
- B. SOS will provide reasonable, suitable workspaces onsite in accordance with Attachment 1- Statement of Work, Section 6 (j) - Responsibilities of SOS or as otherwise subsequently mutually agreed to by the Contractor and SOS for the duties described herein
- C. SOS will maintain a Multi-Protocol Label Switch (MPLS) network node (Verizon) to the Contractor's external environment to provide the Contractor remote access to the VoteCal environment.
- D. Escorted by SOS staff, the Contractor will be permitted 24/7/365 physical access to the SOS Data Center.
- E. SOS will provide Level 1 Help Desk Services.
- F. SOS will make every effort to report Deficiencies in a timely manner.
- G. SOS will provide M&O support for all aspects of the SOS controlled technical infrastructure utilized by the VoteCal System, inclusive of pre-existing SOS Hardware and Software. Changes previously made to the SOS network (WAN/LAN) based on the Contractor's specified and implemented VoteCal System solution and any additional network changes the Contractor may require during the period covered by this Contract (see this Exhibit, Sections 1.A and 1.C) shall be subject to the following SOS-prescribed process: the Contractor is permitted view access for the network management tools to evaluate and monitor SOS network components included within the Contractor's VoteCal System solution; the Contractor shall submit requests for SOS network changes required for VoteCal to designated SOS ITD representatives in advance of when the changes are required (SOS and the Contractor will agree to the "lead time" required for such requests); and, SOS ITD staff will collaborate with the Contractor to implement SOS-approved network changes requested or required by the Contractor.

##### 5. MONTHLY SUPPORT SERVICE CHARGE AND CREDITS

- A. Period of Applicability. The requirements and terms in this Section 5 – Monthly Support Service Charge and Credits apply during Phase VII – First Year Operations and Close-out. These requirements and terms shall also apply during the five-year option period for Software Maintenance & Operations (M&O) Support in the event that the State chooses to exercise its one (1) five -year option for extended Software support.
- B. Monthly Software Support Service Charge. The monthly support service charge described here represents the total Contractor compensation for providing all maintenance and support services specified in this Exhibit in accordance with defined service-level-objectives Service Level Objectives. During Phase VII – First Year Operations and Close-out, the monthly support service charge for the services and support specified in this Exhibit shall be equivalent to one-twenty-fourth (1/24) of the total Contract amount for Deliverable VII.1 – Monthly Operations Support and Performance reports (see Attachment 1 Exhibit 2 – Tasks and Deliverables). **Note:** See Attachment 1, Exhibit 4 - Hardware, Maintenance and Operations Services and Help Desk Service Levels. The monthly support service charge for the Hardware M&O Services defined in that Exhibit during Phase VII – First Year Operations and Close-out shall also be equivalent to one-twenty-fourth (1/24) of the total Contract amount for Deliverable VII.1 – Monthly Operations Support and Performance Reports.

During the one (1) five-year option for extended Software support, the monthly support service charges are one-twelfth (1/12) of the total amount for the applicable year in Cost Table VII.6 – VoteCal System 5-Year Software Maintenance and Operations Costs (see Section VII – Cost Tables). For such subsequent five-year option period of Software M&O Services, the prorated

monthly support service charge for fractions of a calendar month shall be computed at 1/30<sup>th</sup> of the monthly support service charge per calendar day.

- C. ~~Service Response Time~~Time to Respond Credits. If Contractor's Maintenance personnel fail to call back SOS within the time period required for the Time to Respond~~service response time~~Service Level Objective specified in Table 1 (above), Contractor shall grant a credit to SOS in a specified~~the amount of 1/30<sup>th</sup>~~ of the monthly Software support service charge ~~(—as defined above in 5.B – Monthly Support Service Charge)~~ —for each "late" hour that exceeds the Service Level Objective, beginning with the time of notification and ending with the time of return call or notification by problem resolution system. A "late" hour is charged whenever the portion of an hour exceeds thirty (30) minutes. The amount of the Time to Respond credit shall be based on the Severity Level assigned to the Deficiency and calculated according to the specifications included in Table 2 (below).
- D. ~~Service Level Objective~~Time to Correct Credits. If Contractor's Maintenance personnel fail to correct the Software Deficiency within the Service Level Objectives~~time period required for the Time to Correct Service Level Objective specified in Table 1 (above)~~, Contractor shall grant a credit to SOS in ~~the a specified amount of 1/30<sup>th</sup>~~ of the monthly Software support service charges ~~(—as defined above in 5.B – Monthly Support Service Charge)~~ — for each "late" hour exceeding that exceeds the Service Level Objectives-Objective. The time to correct the Deficiency begins accumulating when the Contractor returns the problem notification call or when the problem resolution system generates the acknowledging notification and ending ends with verification by SOS that the Deficiency is corrected. A "late" hour is charged whenever the portion of an hour exceeds thirty (30) minutes. The amount of the Time to Correct credit shall be based on the Severity Level assigned to the Deficiency and calculated according to the specifications included in Table 2 (below)
- E. Downtime Credits. Contractor shall grant a Downtime credit (as described below) to SOS, ~~if~~ when the VoteCal System fails to meet the Up-time Service Level Objective (specified in this Exhibit's provision 1.O, above) has more than 4.0% downtime during any month during the term of the Contract or any amendment to the Contract. These Downtime credits shall apply whenever the VoteCal System Hardware, Software or both are not functioning in a production operations mode and/or the system is not available to end-users for the minimum percentage of time required in the Up-time Service Level Objective due to no fault of SOS. See provision 4.G for examples of SOS infrastructure Hardware and Software components that the Contractor is not responsible for maintaining or fixing should problems arise and which, if down, will not result in Downtime service credits for the Contractor.
- ~~E.~~When the Contractor is assessed Downtime credits, the Contractor shall not also be subject to Time to Correct Credits (described above) for the Deficiency or problem causing the VoteCal System to be down. Downtime is defined as the VoteCal System is not available to VoteCal users to operate through no fault of SOS. The credits specific to this Exhibit shall be equal to 1/30<sup>th</sup> 60<sup>th</sup> of the monthly Software support service charges (—as defined above in 5.B – Monthly Support Service Charge) —for each each hour during a month percentage that the VoteCal System is down or unavailable to end-users in excess of the number of hours the system could be down in that month (excluding Scheduled Downtime) and still meet falls below the Up-time Service Level Objective for the month standards and requirements specified in (see this Exhibit, Section 1.N-Q — VoteCal Software Up-time aService Level Objective), irrespective of whether the VoteCal System is down due to Hardware, Software or both and Maintenance Scheduling Standards and Requirements within this Exhibit. Note: The Contractor shall also be liable for the Downtime credits specified in provision 5.E in Attachment 1 Exhibit 4 -Hardware, Maintenance and Operations Services and Help Desk Service Levels when these same conditions are met; however, those credits are considered specific to that Exhibit only and shall contribute only to the credit limits specified in that Exhibit (see below for credit limits for this Exhibit).

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E.F. Credit Limits. The maximum total credits ~~the Contractor will be assessed for a month due to failing to meet for any given set of missed Service Response Times, any of the~~ Service Level Objectives ~~or downtimes specified in this Exhibit during the month within any month~~ will be the total monthly Software support service charges ~~—~~ (as defined above in Section 5.B – Monthly Support Service Charge and ~~Credits-Credits~~) for that month.

F.G. Service Credits are a price adjustment and are not an estimate of the loss or damage that may be suffered by the State as a result of Contractor's failure to meet any Service Level. Payment of any Service Credit by Contractor under this Agreement is without prejudice to any entitlement that the State may have to damages at law or in equity from Contractor from, or otherwise arising in respect to, any such breach of the Agreement, or to any right of the State to terminate this Agreement pursuant to Attachment 2 - IT General Provisions Modified for the SOS VoteCal Project Only.

**Table 2 – Calculating Time to Respond & Time to Correct Credits**

<u>Service Credit Calculation</u>	<u>Problem/Deficiency Severity Level and Applicable Fraction of Monthly Service Charge</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
<u>Credit for each "late" hour calculated at fraction of monthly Hardware service charge (see 5.B) based on Severity Level of Problem/Deficiency</u>	<u>1/60</u>	<u>1/120</u>	<u>1/300</u>	<u>1/600</u>

## Glossary of Terms and Acronyms

TERM/ACRONYM	DEFINITION
§	Section as in California Elections Code Section (§) 1000.
Accept and Apply	In VoteCal, the process of receiving and validating data, and incorporating the data into the VoteCal database.
Acceptance	A written notice from State to Contractor that a Deliverable has conformed to its applicable Acceptance Criteria in accordance with the process described in Attachment 1, paragraph 10 - Inspection, Acceptance and Rejection of Contractor Deliverables.
Acceptance Criteria	The subset of Specifications against which each Deliverable shall be evaluated and which are described in DEDs.
Acceptance Tests	Those tests performed during the Performance Period which are intended to determine compliance of Equipment and Software with the specifications and all other Attachments incorporated herein by reference and to determine the reliability of the Equipment.
ADA	Americans with Disabilities Act – federal law that prescribes requirements for accessibility.
Address Library	The stored data for a county that (a) identifies all potential standard addresses and whether the address is eligible as a residence address for voter registration and (b) the associated home precinct for that residence. This data is used to assign all new registered voters and re-registered voters with an address change within that county to a home precinct.
AIIM	Association for Information and Image Management
ANSI	American National Standards Institute
Antivirus	Antivirus software is a type of application that will protect VoteCal from viruses, worms and other malicious code. The antivirus programs should monitor traffic while you surf the Web, scan incoming email and file attachments and periodically check all local files for the existence of any known malicious code.
API	Application Programming Interface
Application Program	A computer program which is intended to be executed for the purpose of performing useful work for the user of the information being processed. Application programs are developed or otherwise acquired by the user of the Hardware/Software system, but they may be supplied by the Contractor.

TERM/ACRONYM	DEFINITION
Application Software	Software that is developed to achieve a specific set of interrelated tasks and may be custom developed or commercially available. An application software product that is developed to support a general class of commonly occurring tasks --- such as common business functions (e.g., accounting software) or office automation functions (e.g., word processors) --- and is intended to be used by a diverse set of end-users in different settings is referred to as a commercial application software product. When an application software product is developed to perform a very specific set of tasks to meet the needs of a more limited number of end-users --- sometimes the needs of a single end-user organization or set of organizations --- this is often referred to as a custom application software product (see Custom Software).
Application System Support	Includes performance, capacity and throughput monitoring of individual application subsystems and major application performance; change management and coordination; development of functional enhancements or corrective application code; patch and version installation, configuration and testing; problem investigation, and resolution or escalation; upkeep of change records and performance statistics; and end user support.
Archive	The process of retaining the system records forever – No purging
ARCP	Alternate Residence Confirmation Postcard (Elections Code §2224)
Attachment	A mechanical, electrical, or electronic interconnection to the Contractor-supplied Machine or System of Equipment, manufactured by other than the original Equipment manufacturer, that is not connected by the Contractor.
Ballot Style	A unique combination of contests that define a particular ballot, making it unique from all other ballots within the jurisdiction. (A unique ballot style may be used by more than one precinct. Similarly, in a Primary Election there may be more than one ballot style associated with a particular precinct to accommodate the various partisan voters.)
BL	Business Lead –Subject matter expert in California elections law and practice.
Business Day	Reflects a routine work day according to the State of California, excluding State holidays (as specified in State of California Department of Personnel Administration website <a href="http://www.dpa.ca.gov/personnel-policies/holidays.htm">http://www.dpa.ca.gov/personnel-policies/holidays.htm</a> ) and any State-mandated furlough days.
Business Entity	Any individual, business, partnership, joint venture, corporation, S-corporation, limited liability corporation, limited liability partnership, sole proprietorship, joint stock company, consortium, or other private legal entity recognized by statute.
Buyer	The State’s authorized contracting official.
Calvoter	Calvoter Statewide Voter Registration and Election Management System, the current SOS system and application used to collect and compile voter registration data from all 58 counties.
CAN	Change of Address Notification – notice to voter confirming third party change of address provided to SOS

TERM/ACRONYM	DEFINITION
Canvass	The public process of processing and tallying all ballots received in an election, including, but not limited to, provisional ballots and vote-by-mail ballots. The canvass also includes the process of reconciling ballots, attempting to prohibit duplicate voting by vote-by-mail and provisional voters, and performance of random auditing to verify the integrity of the vote results.
CA-PMM	California Project Management Methodology – California Technology Agency’s adopted project management standard
CCR	California Code of Regulations
CDCR	California Department of Corrections and Rehabilitation
CDDI	Copper Distributed Data Interface
CDPH	California Department of Public Health
Certification	The State’s receipt of notice and, if requested by State, full supporting and written documentation (including without limitation test results) from Contractor that Contractor has, as applicable: completed a Deliverable in accordance with its Acceptance Criteria or pre-tested a system for compliance with the applicable Specifications; and confirmed that the Deliverable, including but not limited to the VoteCal System, is ready for applicable Acceptance Tests and/or implementation.
Close-Out	In this RFP, close-out refers to contract closure activities conducted and completed during Phase VII – First Year Operations and Close-out.
CMMI	Capability Maturity Model Integration for development
COA	Change of Address
Confidence Level of Match	A value assigned to matching criteria for a particular matching process to approximate the likelihood that the match is valid.
Confidential Voters	Those voters who register under the provisions of state law (e.g., EC §2166, 2166.5 & 2166.7), for whom parts of their voter registration data is confidential and may not be publicly released, and may only be displayed or printed for authorized VoteCal users with appropriate privileges.

TERM/ACRONYM	DEFINITION
Configurable	<p>Changeable by an authorized administrator. The term “configurable” is used for rules that are specified in a requirement in Section VI, Table VI.1 – Mandatory VoteCal System Requirements, Functionality Reference, and Requirement Response Form or Table VI.2 – VoteCal Technical Requirements and Response Form. These rules determine what action the VoteCal system will take based on a combination of data elements; they may apply to matching of records, validation of data, ranges of values for VoteCal fields, or grouping, sorting, or filtering of records. For each rule, an authorized administrator will be able to specify:</p> <ul style="list-style-type: none"> <li>• Particular data element(s) (e.g., first name, date of birth, address) and combinations of data elements that is/are evaluated in the rule;</li> <li>• One or more criteria against which data elements are evaluated (e.g., first four characters match, all characters match exactly, all characters match exactly with one pair of characters transposed, field is greater than a specified value, field is populated, field has a particular value or range of values, field value conforms to defined format standards for the field, etc.); and</li> <li>• Each possible outcome of the evaluation of specified data against the specified criteria. For example, for a rule for matching records, the administrator will specify the thresholds and/or calculations for determining whether two records represent a high-confidence match, a high-confidence non-match, or a potential match. For a data validation rule, the administrator will specify data conditions that VoteCal will return a result of accepted vs. deficiency vs. critical error.</li> </ul> <p>Configurable rules are also extensible: an authorized SOS administrator must be able to add new rules of either type, add or change data elements to be evaluated, add or change evaluation criteria against which data are evaluated, and add or change the nature of outcomes based on evaluation of criteria.</p>
Contract	Contract or agreement (including any purchase order), by whatever name known or in whatever format used.
Contract Award Date	The date the Department of General Services approves a Contract with the VoteCal Contractor.
Contractor	The Business Entity with whom the State enters into this Contract. Contractor shall be synonymous with “supplier”, “vendor” or other similar term.
COOP	Continuity of Operations
COTS	Commercial-off-the-Shelf
CPU	Central Processing Unit
CR	Change Request
CSS	Cascading Style Sheet
Custom Software	Software that does not meet the definition of Contractor Commercial Proprietary Software, including but not limited to Software And Modifications, as well as interfaces to other systems but excluding Third-Party Software.

TERM/ACRONYM	DEFINITION
CVRDB	The core database application for the Calvoter system. The CVRDB is a proprietary database application owned and licensed by Election Systems & Software (ES&S).
Data	The State's records, files, forms, data and other documents, including but not limited to converted Data that will be processed by the VoteCal System.
Data Processing Subsystem	A complement of Contractor-furnished individual Machines, including the necessary controlling elements (or the functional equivalent) and Operating Software, if any, which are acquired to operate as an integrated group, and which are interconnected entirely by Contractor-supplied power and/or signal cables; e.g., direct access controller and drives, a cluster of terminals with their controller, etc.
DBMS	Database Management System/Software (e.g. Oracle, Sybase)
DEC	Digital Equipment Corporation
Defense in-depth	Also called in-depth security, the principle of using a layered approach to network security to provide even better protection for your computer or network. In-depth security uses layers of different types of protection from different vendors to provide substantially better protection. (See <a href="http://www.nsa.gov/ia/files/support/defenseindepth.pdf">http://www.nsa.gov/ia/files/support/defenseindepth.pdf</a> for additional information)
Deliverable Expectation Document (DED)	A DED describes the Contractor's proposed approach to preparing a VoteCal Deliverable, including the methodology, format, content, level of detail, relevant standards, assumptions and constraints, and applicable Acceptance Criteria.
Deliverables	Contractor's products which result from the Services and which are provided by Contractor to the State (either independently or in concert with the State or third parties) during the course of Contractor's performance under this Contract, including without limitation Equipment, and other deliverables which are described in Exhibit 2 and in Change Requests and Work Authorizations.
<u>Deliverable Dependency</u>	<u>The specified reliance between two or more particular Deliverables.</u>
Development Environment	A separate technical environment for use by multiple developers to write and develop code.
DFM Associates	Vendor that developed, licenses and supports EIMS, a county election management and voter registration system.
DGS	Department of General Services
DIL	Data Integration Lead
DIMS	Vendor that developed licenses and supports DIMS-NeT, a county election management and voter registration system.
DIP	Data Integration Plan

TERM/ACRONYM	DEFINITION
Disaster Recovery	Disaster recovery is the process, policies and procedures related to preparing for recovery or continuation of technology infrastructure critical to an organization after a natural or human-induced disaster. Disaster recovery is a subset of business continuity. While business continuity involves planning for keeping all aspects of a business functioning in the midst of disruptive events, disaster recovery focuses on the IT or technology systems that support business functions. The California CIO defines all recovery planning under the definition of Operational Recovery Planning in SAM section 4843.
Diversity of design	Design Diversity is defined as the approach in which the hardware and software elements that constitute a system are not copied, but are independently designed to meet the system requirement. The ability of a system to continue the correct delivery of its service even in the case of error conditions or intrusions is of utmost importance for critical applications such as VoteCal.
DL	Development Lead
CDL/ID	California DMV-issued driver's license (CDL) number or Identification Card (ID) number.
DMV	Department of Motor Vehicles
DOB	Date of Birth
Documentation	Nonproprietary manuals and other printed materials necessary or useful to the State in its use or maintenance of the Equipment or Software provided hereunder. Manuals and other printed materials customized for the State hereunder constitute Documentation only to the extent that such materials are described in or required by the Statement of Work.
Domicile County	The county in which a voter resides and is legally entitled to vote based on the voter's legal residence address.
DVBE	Disabled Veterans Business Enterprise
E-60	60 <sup>th</sup> day prior to the scheduled election
EC	California Elections Code
EDD	Employment Development Department
EIMS	Election Information Management System – the proprietary county election management and voter registration system developed, licensed and supported by DFM Associates.
Election Certification	At the conclusion of the Official Canvass, each county certifies the vote results for that county's election and that the election was conducted in accordance with law. Once each county has certified its election, the Secretary of State certifies the election results for State and Federal offices.
Election Period	The time period that includes all calendar days that fall between 75 calendar days prior to an election for state or federal office and 40 calendar days after that same election, inclusive, unless otherwise stated in the Request for Proposals for a specific activity.
Electronic Notice	See entry for Notice.
EMS	Election Management System

TERM/ACRONYM	DEFINITION
Equipment	The computer Hardware on which the Software shall operate following its delivery, all operating software for use with the Equipment, and telecommunications facilities and services as listed in the Contract.
Equipment Failure	A malfunction in the Equipment, excluding all external factors, which prevents the accomplishment of the Equipment's intended function(s). If microcode or Operating Software residing in the Equipment is necessary for the proper operation of the Equipment, a failure of such microcode or Operating Software which prevents the accomplishment of the Equipment's intended functions shall be deemed to be an Equipment Failure.
ES&S	Election Systems and Software - Vendor that developed, licenses and supports LEMS, a county election management and voter registration system.
ETL	Extract, Transform and Load
Exact match	Matches where all data in each criteria field are identical between matching records.
Executive Steering Committee	The SOS governance organization that acts as the decision making body for VoteCal.
External Stakeholders	Legislature, judicial districts, other state and local governmental agencies interested in voter registration information
EZA	Enterprise Zone Act
Facility Readiness Date	The date specified in the Statement of Work by which the State must have the site prepared and available for Equipment delivery and installation.
F.O.B.	Free on Board
FTE	Full-Time-Equivalent
FTP	File Transfer Protocol
GCDC	Department of Technology Services Gold Camp Campus (formerly known as Teale Data Center)
Goods	All types of tangible personal property, including but not limited to materials, supplies, and Equipment (including computer and telecommunications Equipment).
GPA	Government Procurement Agreement
GUI	Graphical User Interface
Hardware	Usually refers to computer Equipment and is contrasted with Software. See also Equipment.
HAVA	Help America Vote Act of 2002
Home Precinct	The base precinct to which a voter is assigned such that all voters within that precinct are resident within the same political districts.
Implementation	The process for making the VoteCal System fully operational in accordance with its Specifications for processing the Data in State's normal business operations. Implementation shall be completed when Contractor has completed the Implementation Services according to the Work Plan.

TERM/ACRONYM	DEFINITION
Information Technology (IT)	Includes, but is not limited to, all electronic technology systems and services, automated information handling, System design and analysis, conversion of data, computer programming, information storage and retrieval, telecommunications which include voice, video, and data communications, requisite System controls, simulation, electronic commerce, and all related interactions between people and Machines.
Installation Date	The date specified in the Statement of Work by which the Contractor must have the ordered Equipment ready (certified) for use by the State.
IDV	Verification process used by DMV.
IFB	Invitation for Bid
Integrated Project Schedule (IPS)	An integrated project schedule provides a comprehensive view of what will occur, when, who is expected to do it, and how tasks relate to one another. It contains the tasks/activities of Contractor, SOS staff and other SOS contractors, county elections officials' staff, and EMS vendors that must occur in order to meet the requirements of this RFP. The IPS must contain a list of planned tasks, milestones, estimated completion dates, resource assignments, and dependencies between tasks. The IPS must also include tasks' dependencies on other VoteCal team members' (staff, other contractors) activities, including but not limited to deliverable planning (Deliverable Expectation Document development and approval and SOS review of submitted deliverables, each as described in Attachment 1 - Statement of Work), and Contractor correction of deficiencies.
Interactive	Allows user to view and modify data in the VoteCal database directly on a real time basis.
IEEE	Institute of Electrical and Electronics Engineers
IPOC	Independent Project Oversight Consultant
ISO	International Organization for Standardization
Issue	A situation, problem, or an activity that has happened or is happening at present which impacts upon the approved Project Plan.
ITD	Information Technology Division (of SOS)
ITPOF	Information Technology Project Oversight Framework
IV&V	Independent Verification and Validation
Jury Wheel	An extract of selected voters within a district, based on a specified selection formula that is provided to the courts for selection of potential jurors.
JWE	Jury Wheel Extract
LAMBRA	Local Agency Military Base Recovery Area
LAN	Local Area Network
LDAP	Lightweight directory access protocol
Level 1 Call	Initial problem report and intake. A solution problem of any severity reported to a Level 1 Help Desk, including those that may be immediately escalated to Level 2.

TERM/ACRONYM	DEFINITION
Level 1 Help Desk	Problem report intake; issue triage, initial analysis and intervention and/or escalation; solution navigation and customer care and end user support related to business functionality. May also include maintenance of ticket status, problem diagnostic information, reporting, and user change coordination.
Level 2 Help Desk	Advanced Application and Technical Support. Intake of problems escalated as irresolvable from Level 1; additional problem diagnostics and analysis; application of monitoring, probe and other technical investigatory techniques; problem triage, intervention and/or resolution; coordination of problem response across expertise types (e.g., network, systems, database, application); problem referral and escalation; and problem documentation, tracking and reporting. Includes the responsibility for Contractor to engage any specialized expertise necessary to solve the problem. Once a problem is escalated, Level 2 is responsible for problem coordination among all levels and for reporting status to Level 1, and operational management.
List Maintenance	In VoteCal, the process of verifying data for registered voters so that (a) address and other data is current and accurate and (b) the registration rolls are cleared of persons who are no longer eligible to vote.
Logical Architecture	Defines the processes (the activities and functions) that are required to provide the required services, which can be implemented via software, hardware, or firmware. The Logical Architecture is independent of technologies and implementations.
Machine	An individual unit of a Data Processing System or subsystem, separately identified by a type and/or model number, comprised of but not limited to mechanical, electro-mechanical, and electronic parts, microcode, and special features installed thereon and including any necessary Software, e.g., central processing unit, memory module, tape unit, card reader, etc.
Machine Alteration	Any change to a Contractor-supplied Machine which is not made by the Contractor, and which results in the Machine deviating from its physical, mechanical, electrical, or electronic (including microcode) design, whether or not additional devices or parts are employed in making such change.
Mail-ballot voters	Voters who reside in a precinct that has been designated "all mail ballot", for which there is no polling place to vote on Election Day and who must cast their ballot by mail.
Maintenance	The maintenance and support Services which shall be performed by Contractor and which are described as such in the RFP, Proposal and Attachment 1, Exhibits 4 and 5.
Maintenance and Operations (M&O)	Operational and technical support services required for information technology environments. Includes performance, capacity and throughput monitoring; firmware patch and version installation, configuration and testing; change control and coordination; troubleshooting; problem resolution and escalation; routine cleaning and adjustment; replacement of expendables; upkeep of maintenance and repair records; and upkeep of inventory status, aging and system health statistics.
Major Qualified Political Party	Democratic and Republican parties

TERM/ACRONYM	DEFINITION
Manufacturing Materials	Parts, tools, dies, jigs, fixtures, plans, drawings, and information produced or acquired, or rights acquired, specifically to fulfill obligations set forth herein.
Matching criteria	The designated set of fields and the designated rules for matching data within those fields to match and identify potential duplicate voter registration records and to match data from other sources (e.g., NCOA change of address data, DMV COA data, CDCR felon data, etc) against existing registration data.
Minor Qualified Political Party	Political parties that have qualified to participate in primary elections and appear on the ballot, in accordance with EC §5100.
MOTS	Modified-off-the-Shelf
MPLS	Multiprotocol Label Switching
MPSR	Monthly Project Status Report
MTBF	Mean Time Between Failure – The average expected or observed time between consecutive failures in a System or component.
MTTR	Mean Time to Repair – The average expected or observed time required to repair a System or component and return it to normal operation.
NCOA	National Change of Address
Notice	When used in this RFP to describe information sent from VoteCal to a county, the term “notice” refers to a communication sent electronically to the county EMS. The electronic notice must contain all data necessary and be in an appropriate format for automatic categorizing of the notice by the EMS. It must contain sufficient data for the county user to discern the actions that must be performed and the voter record(s) for which the actions must be performed. Email messages and printable reports in electronic format do not accomplish the functions of a “notice” as described in this definition.  A notice may simply provide information to the county that a voter registration record was changed, or it may require that the county take action regarding one or more voter registration data elements.
NVRA	National Voter Registration Act
OAH	Department of General Services, Office of Administrative Hearings
Object Code	The binary code version of a Software program loaded into a computer’s memory to enable it to perform a program function.
OCIO	The Office of the State Chief Information Officer. As of January 2011, this entity became the California Technology Agency.
OCMP	Organizational Change Management Plan
One-time Vote by Mail Address	A mailing PO Box or mailing street address to which a vote-by-mail ballot is to be sent, for a registered voter who has submitted an application for a vote-by-mail ballot.
Operational Recovery Planning	The management approved document that defines the resources, actions, tasks and data required to manage the technology recovery effort. Usually refers to the technology recovery effort. This is a component of the Business Continuity Management Program.

TERM/ACRONYM	DEFINITION
Operating Software	Those routines, whether or not identified as Program Products, that reside in the Equipment and are required for the Equipment to perform its intended function(s), and which interface the operator, other Contractor-supplied programs, and user programs to the Equipment.
Orphan Precinct	A precinct that is not assigned to the required political districts, including US Congressional, State Senate, State Assembly, Board of Equalization, county Supervisorial and municipality/unincorporated area districts.
OSDS	Office of Small Business and DVBE Services
OTech	Office of Technology Services – the State’s data center
Parallel Environment	A separately managed environment that replicates the production application for the pilot counties as they are run in parallel with the old system prior to acceptance.
Parties Attempting to Qualify	Parties that have declared their intention to become a qualified political party by getting the required number registered members by the E-135 day close prior to a statewide primary election in accordance with the provisions of EC §5100
Partner Agencies	DMV, CDPH, CDCR, EDD
PCC	Public Contract Code
PDT	Pacific Daylight Time
Pending	Voters with a pending status are ineligible to vote and can only vote provisionally. A voter is assigned a pending status when there is insufficient registration information.
Performance Testing Period	A period of time during which the State, by appropriate tests and production runs, evaluates the performance of newly installed Equipment and Software prior to its acceptance by the State.
Permanent Vote-by-Mail Address	A mailing PO Box or mailing street address to which a vote-by-mail ballot is to be sent, for a registered voter who has requested permanent vote-by-mail status.
Phase	When capitalized, refers to a VoteCal Project Phase as described in Attachment 1, Exhibit 2 – Tasks and Deliverables.
Platform Environment	The integrated environment which includes all Hardware, network and other technical components of the VoteCal System on which all operating system software, Contractor Commercial Proprietary Software, VoteCal System Software, and Third-Party Software included within the VoteCal System reside and operate to process data and effect the functionality specified for the VoteCal System Solution.
Pluggable interface	An interface that will enable the system to acquire new functionality by addition of new plug-ins without modification or re-compilation of system code.
Plug-in	Software module/s capable of being hosted or integrated into another system to extend functionality of that system.
PM	Project Manager

TERM/ACRONYM	DEFINITION
PMBOK	Project Management Institute Body of Knowledge
PMI	Project Management Institute
PMO	Project Management Office
PMP ®	Project Management Professional certification
PMP	As defined in the <i>PMBOK Guide Third Edition</i> , the Project Management Plan (PMP) is a formal, approved document that defines how the project is executed, monitored and controlled. It may be summary or detailed and may be composed of one or more subsidiary management plans and other planning documents. The objective of a project management plan is to define the approach to be used by the Project team to deliver the intended project management scope of the project. For the purposes of the VoteCal Project, the PMP shall define the technical and managerial Project functions, processes, activities, tasks, and schedules necessary to satisfy the Project requirements and produce required Contractor Deliverables.
PMR	Project Management Reviews
Political district	A specified geographical area, within which all residents are eligible to vote for elected offices and ballot measures for that political district
PRCP	Pre-election Residency Confirmation Postcard (EC §2220)
<u>Predecessor Deliverable</u>	<u>A Deliverable that must be developed and/or delivered before specific other Deliverable(s) based on the logical relationship between the Deliverables (e.g., Deliverable Dependencies).</u>
Pre-Existing Materials	Software in Source Code and Object Code formats (including without limitation Contractor Commercial Proprietary Software and excluding Third-Party Software) and other materials developed or otherwise obtained by or for Contractor or its affiliates independently of this Contract or applicable purchase order.
Production Environment	The final host environment for the Software.
Program Product	Programs, routines, subroutines, and related items which are proprietary to the Contractor and which are licensed to the State for its use, usually on the basis of separately stated charges and appropriate contractual provisions.
Program Team	Members of the SOS team and members of the county staff.
Programming Aids	Contractor-supplied programs and routines executable on the Contractor's Equipment which assists a programmer in the development of applications including language processors, sorts, communications modules, data base management systems, and utility routines, (tape-to-disk routines, disk-to-print routines, etc.).
Project	When capitalized, refers to the VoteCal Project. Also refers to the planned undertakings regarding the entire subject matter of this Contract.
Provisional Ballot	Ballot cast by a voter at the Polling Place when the voter does not appear on the Roster.
PT	Pacific Time
PVBMV	Permanent Vote-by-Mail Voter

TERM/ACRONYM	DEFINITION
PVRDR	Public Voter Registration Data Requests – Requests by legally qualified parties for voter registration data.
Qualified Political Party	Political parties that have qualified to appear on the ballot and who have qualified to participate in primary elections, in accordance with the provisions of EC §5100
RCP	Residence Confirmation Postcard (EC §2224)
Report of Registration	The statistical report of voter registration in California broken down by political party affiliation and political districts on specific dates in accordance with EC §2187.
Re-registration	As used in the RFP, refers to all entry and processing of a voter registration affidavit that is submitted by a voter that is currently or has previously been registered to vote and for whom there is an existing record in VoteCal.
RFP	Request for Proposal
Risk	From the Master Issues List: Something that may happen and if it does, will have a positive or negative impact on the project.
ROR	Report of Registration
SDD	Software Design Description
SEC	Securities & Exchange Commission
SEI	Software Engineering Institute
SSN and SSN4	Social Security Number and last four digits of Social Security Number as is required if California driver's license number does not exist.
Sequoia Pacific	Vendor that developed, licenses, and supports Integrity, a county election management and voter registration system.
Server Hardening	In a general sense, hardening is the process of securing a computer, system, network or application. More specifically, hardening is the removal or disabling of all components in a computer system that are not necessary to its principal function or functions. By reducing the purposes for which a system is used, the system is rendered less vulnerable to outside attack by hackers or other intruders. General hardening steps include limiting the number of users allowed to access a system tightening authentication and authorization and access control, and installing basic intrusion-detection/prevention software.
Service Level Objectives	The required timeframes within which the Contractor must correct reported Deficiencies. Service Level Objectives are key elements in a Service Level Agreement.
Service Response Time	The period specified within which the Contractor must respond to the request by the State for correction of a reported Deficiency, indicating that the Contractor understands and will begin work in correcting the Deficiency. Each Severity Level contains a specified Service Response Time (e.g. Severity Level 1 requires the Contractor to respond to State notification of a reported Deficiency within 30 minutes.)
Services	The tasks and services to be performed by Contractor on the Project, as described in the Contract, including without limitation the Statement of Work.

TERM/ACRONYM	DEFINITION
Severity Level	The degree of negative impact of a Deficiency, in either a Deliverable, Hardware or Software.
Signatures in Lieu	Petition signatures gathered and submitted in support of a candidate as a substitute for all or part of the filing fees required as a candidate for that office. (EC §8061 and 8062)
SIMM	State Information Management Manual – policy manual related to information technology in California as issued by the California Technology Agency (formerly Office of the Chief Information Officer)
Single exact match	An exact match of all fields in the matching criteria set to one and only one voter registration record.
Site License	For each product, the term “Site License” shall mean the license established upon acquisition of the applicable number of copies of such product and payment of the applicable license fees as set forth in the Statement of Work.
Smart Names	A matching criteria for voter first names that recognizes common variants on that first name – e.g., Robert=Bob, Rob, Robby, Bobby, etc.
SMP	Schedule Management Plan
Software	An all-inclusive term which refers to any computer programs, routines, or subroutines supplied by the Contractor, including Operating Software, Programming Aids, Application Programs, Program Products, the VoteCal System Software, Contractor Commercial Proprietary Software, Pre-Existing Materials that are software and that are included in the VoteCal System, Third-Party Software, and all upgrades and enhancements thereto all in Source Code and Object Code formats, unless otherwise mutually agreed in writing, except that Contractor is not required to provide Source Code for Third-Party Software unless the licensor provides such Source Code to its customers. Enhancements and upgrades provided by Contractor prior to completion of the Project and during Phase VII – First Year Operations and Close-out shall be included as part of the Software.
Software And Modifications	Software or modifications thereof and associated documentation designed or developed on this project.
SOS	California Office of the Secretary of State
SOSPROD	Secretary of State Production Environment
Soundex	A phonetic algorithm for matching names based on phonetic pronunciation in English.
Source Code	The series of instructions to the computer for carrying out the various tasks that are performed by a computer program, expressed in a programming language that is easily comprehensible to appropriately trained persons who translate such instructions into Object Code, which then directs the computer to perform its functions.

TERM/ACRONYM	DEFINITION
Source Code Documentation	Defined to include but not be limited to then-current versions of the following when the Source Code is provided by Contractor: <ol style="list-style-type: none"> <li>1. Functional specifications (which describe the function of a Software module from a user point of view in detail) and designs for the Software, including but not limited to background and the database schema, entity relationship diagrams (where applicable), data objects, and user interface objects.</li> <li>2. Information describing how to compile and link the source code modules to obtain working software, as well as data structures outside of the module which are required to configure or drive the module.</li> <li>3. Source code and documentation for database definition and database procedures (SQL definitions), graphical user interface modules, data interface modules and other Software modules, including but not limited to build procedures.</li> <li>4. Documentation describing installation and support policies and procedures.</li> <li>5. Detailed instructions for a programmer and programming notes.</li> <li>6. A description of how each interface will work on a technical level, the content and format of protocols streams, and other technical considerations.</li> <li>7. All relevant commentary, explanations, and other documentation for the Software.</li> </ol>
Specifications	The technical and other written specifications and objectives that define the requirements and/or Acceptance Criteria, as described in the RFP, Proposal, Documentation, DEDs, and subsequent Deliverables which have received Acceptance. Such Specifications shall include and be in compliance during the term with all performance standards, service level agreements, warranties, and applicable state and federal policies, laws, and regulations. The Specifications are, by this reference, made a part of this Contract, as though completely set forth herein.
SRS	Software Requirements Specifications (document)
SSA	Social Security Administration
SSL	Secure Socket Layer
SSN	Social Security Number
SSN4	Last 4 digits of a person's social security number
Staging Environment	A preproduction environment that replicates the production environment to stage new application releases prior to migration to the production environment.
State	The government of the State of California, its employees and authorized representatives, including without limitation any department, agency, or other unit of the government of the State of California.

TERM/ACRONYM	DEFINITION
Subcontractor	A person, partnership, or company that is not in the employment of or owned by Contractor and that is performing Services under this Contract under a separate contract with or on behalf of Contractor.
<u>Successor Deliverable</u>	<u>A Deliverable that must be developed and/or delivered before specific other Deliverable(s) based on the logical relationship between the Deliverables (e.g., Deliverable Dependencies).</u>
Supplemental Roster	Polling place indices or rosters printed subsequent to the initial polling place roster to include voters whose registration was accepted after the printing of the initial roster.
System	The complete collection of Hardware, Software and Data as described in this Contract, integrated and functioning together, and performing in accordance with this Contract. This is also referred to as the VoteCal System.
System Administrator	An elections program employee of the California Secretary of State with appropriate administrative permissions to the VoteCal system to add or remove system users; reset access passwords; update elections records data; define and schedule reports; change the text associated with standard notices; set configuration parameters; and other appropriate administrative activities for the daily business operations of the VoteCal system.
System Component	Any logical or physical part or feature of the system, such as a module, program, web service, table, menu, etc. A component may be composed of multiple other components; for example, a module may include multiple web services, an architecture may include multiple servers.
TACPA	Target Area Contract Preference Act
TCP/IP	Transmission Control Protocol/Internet Protocol
Telecommunications	The telecommunications and network lines, Equipment, Software, and Services for transmitting Data and other information for the State.
Temporary Mailing Address	A mailing PO Box or mailing street address that is used for a limited period of time.
Test Environment	A separately managed environment appropriate for unit, systems and stress testing of the developed solution and its interfaces.
TestL	Testing Lead
Tier	A group of counties whose numbers of registered voters falls into a specified range.
TL	Technical Lead
Training Development Environment	A technical environment for the development of training modules relevant to end user and system administrator experience with the developed solution and solution technical environments.
Training Environment	An independent technical environment established to facilitate instruction in solution features and navigation.

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TERM/ACRONYM	DEFINITION
Transactional Basis	As used in the RFP, is meant to indicate cases where the data processing interaction between VoteCal and an external system (e.g., an EMS, DMV system, etc.) is on a record-by-record basis, as opposed to a batch-based sharing of files.
UAT	User Acceptance Testing
UDEL	Uniform District Election Law – provides rules for the consolidating and conducting multiple local elections into a single election within a county. EC Division 10, Part 4)
UID	Unique Identifier
Unique Identifier	Unique number assigned by VoteCal to a registered voter as required by HAVA, based on the verified DL/ID, if available; or the verified SSN4 if available and the DL/ID is not verified; or a unique number assigned to the voter if neither a verified DL/ID nor SSN4 is available.
UOCAVA	Uniformed and Overseas Citizens Absentee Voting Act
USDOJ	United States Department of Justice
USPS	United States Postal Service
VIG	State Voter Information Guide (also known as the Statewide Ballot Pamphlet)
VNC	Voter notification card – sent to a registered voter upon acceptance of new or updated registration, in accordance with EC §2155.
VR	Voter registration

TERM/ACRONYM	DEFINITION
Voter Activity History	<p>Information that reflects actions with respect to a specific voter that are performed by an authorized VoteCal user or administrator, VoteCal automatic processes, or the voter himself or herself, as described in the following sets of requirements within Section VI, Table VI.1 – Mandatory VoteCal System Requirements, Functionality Reference, and Requirement Response Form in this RFP:</p> <ul style="list-style-type: none"> <li>• S2: Registration Data (current and historical information that describes characteristics of a voter; voter registration method and status; status related to requirements to show ID at the polls; the voter’s registration affidavit and signature; comments associated with a voter; list maintenance notices sent to a voter; confidential voter application, qualification basis and status; status relevant to Uniformed and Overseas Citizens Absentee Voting Act; vote-by-mail status; ID Verification status; and documents received from a voter)</li> <li>• S4: Registration Processing (new registrations and changes to existing registrations)</li> <li>• S5: ID Verification (ID Verification status as described in requirement S2.34 and the digitized signature received from DMV)</li> <li>• S6: DMV Change of Address (match-related determinations and address-related changes)</li> <li>• S7: Voter Notification Cards (inclusion in an extract for a mailing)</li> <li>• S9: Record Matching and Merging (modifications to a voter registration record that result from merge and unmerge processes)</li> <li>• S10: CDPH Death Records (match-related determinations and the bases for them, and voter registration status changes and the bases for them)</li> <li>• S11: CDCR Felon Data (match-related determinations and the bases for them, and voter registration status changes and the bases for them )</li> <li>• S12: Duplicate Identification (match-related determinations and the bases for them)</li> <li>• S13: NCOA (match-related determinations and bases for them, address-related changes, and registration status changes)</li> <li>• S21: State Voter Information Guide (changes in voter’s opt-in/opt-out status for mailings, and inclusion in an extract for a mailing)</li> <li>• S24: Public Access Website (new registrations and changes to existing registration-related data including opt-in/opt-out status for mailings of Voter Information Guides)</li> </ul>
Voter Participation History	<p>With respect to a specific voter, the data related to participation in elections and how the voter participated, as described in S17: Voter Election Data within Section VI, Table VI.1 – Mandatory VoteCal System Requirements, Functionality Reference, and Requirement Response Form in this RFP.</p>
Voter Registration Data	<p>Includes all data in the voter’s registration record, the voter’s activity history, the voter’s participation history, and all document and signature images associated with the voter.</p>

TERM/ACRONYM	DEFINITION
Voting Precinct	The geographical based area to which voters are assigned to vote for a specific election.
VoteCal Solution	<p>The term representing the most inclusive scope of the processes, hardware, and other activities required to address the HAVA voter registration requirements within the state of California and its 58 counties and to address requirements specified in the VoteCal RFP. The VoteCal Solution includes hardware, telecommunications, software and automated and procedural products and processes necessary to:</p> <ul style="list-style-type: none"> <li>• Develop, test, deploy and operate the VoteCal System, including the VoteCal System interface with the Employment Development Department (EDD), the California Department of Corrections and Rehabilitation (CDCR), the California Department of Public Health (CDPH), and Department of Motor Vehicles (DMV);</li> <li>• Remediate the EMS' to enable each to support data integration and interface with the VoteCal System;</li> <li>• Train and prepare County and SOS staff to operate the VoteCal system and/or its interface to the EMS; and,</li> <li>• Revise, develop, implement, and train on the business processes and procedures needed to support the California counties and the SOS in their ongoing performance of their respective voter registration-related activities and tasks required in order to comply with HAVA once VoteCal is implemented.</li> </ul>
VoteCal System	That subset of the VoteCal Solution that includes all hardware, telecommunications, and software and procedural products and processes primarily hosted (originating) at SOS and required to develop, test, deploy, maintain and operate the VoteCal automated processing and needed to develop, test, deploy and operate the VoteCal System.
VoteCal System Acceptance	SOS Acceptance of the VoteCal System at the end of Phase VI – Deployment and Cutover. Criteria for VoteCal System Acceptance shall include criteria and conditions cited in Attachment 1, Section 10 (e) – VoteCal System Acceptance.
VoteCal System Software	Includes any Application Software that is developed or modified by the Contractor to meet the requirements and other Specifications of this Contract for the VoteCal System.
VR	Voter Registration
VRA	Voter Registration Act
VRC	Voter Registration Card
VRDB	Voter Registration Database
W3C	World Wide Web Consortium
WAN	Wide Area Network
Warranty Period	The one year period following satisfactory completion of Phase VI and which will commence immediately after the VoteCal System is fully deployed to, implemented in, and certified in all counties, and the SOS Project Director gives approval to proceed based on decision criteria that include SOS Acceptance of Deliverable VI.5 – VoteCal System Final Deployment Report including Delivery of Updated VoteCal System Source Code and System Documentation.

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TERM/ACRONYM	DEFINITION
WCAG	Web Content Accessibility Guidelines
Work Plan	The overall plan of activities for the delivery of Services and Deliverables, and the delineation of tasks, activities and events to be performed and Deliverables to be produced with regard thereto, as provided in accordance with this Contract.
Work Product	Includes all products provided and services performed under this Contract, including without limitation the Deliverables, Source Code and Object Code for the Custom Software and the Software And Modifications, materials and Data; and excludes (1) Contractor's administrative communications and records relating to this Contract and (2) the ideas, concepts, or know-how identified in Attachment 2, Section 37(d), and (3) Contractor Commercial Proprietary Software and Third-Party Software.
WTO	World Trade Organization
XML/SOAP	Service Oriented Architecture principles