	al Data Package Review per Voluntary Voting	Corresponding VVSG	Location(s) where verified / Comments by Wyle	
DOI	MINION 4.0	requirement(s) reference	Location(s) where vertiled / Comments by wyle Because of the different numbering conventions found throughout the TDP and because numbering conventions that changed during testing all of the below references are denoted as "sections".	Compliance Object
Volume	VVSG Requirement		Relevant Disclaimers (2.02 Democracy Suite System Overview, Section 1.1)	
			 Please be advised that the EMS Enterprise configuration outlined in this document is not a component of the current federal certification campaign, and any references to this configuration should be disregarded. 	
			Please be advised that the Election Data Exchange Station, otherwise known as EDES, is not a component of the federal certification campaign. Any references to this component should be disregarded.	
			3. Please be advised that this document contains references to open primary, ranked choice voting, otherwise known as RCV and recall issues. These options are not components of the current federal certification campaign, and any references to them should be disregarded.	
			4. Please be advised that Modem functionality and Mode 2 and Mode 3 (asymmetric cryptography modes) outlined in this document are not part of the current federal certification campaign, and any references to this configuration should be disregarded.	
			5. This documentation contains references to landscape ballot orientation, otherwise known as the NYS General and Primary ballot template. This orientation is not a component of the current federal certification campaign, and any references to it should be disregarded.	
			Please be advised that this document may contain references to the Ballot Marking Device, otherwise known as the BMD. This option is not.	
VII, Sec.	2 Description of the Technical Data			
****	Package			
VII, 2.1	Scope This subsection contains a description of the vendor documentation relating to the voting system that shall be submitted with	also Vol. I, 2.1.7.2 Voting Variations; Vol. II, 2.8.4 Operational	April 20, 2010 Approval of Voting System Testing Application Package Letter from the EAC (DVS1001)	
	the system as a precondition of national certification testing. Any information relevant to the system evaluation shall be submitted to include source code, object code, and sample output report formats.	Features EAC VSTL Testing and Certification Program Manual Vol. 1.0 Sect. 4.3.1.6	The Democracy Suite platform consists of four main system components: -The Democracy Suite Election Management System (EMS) software platform -The Democracy Suite ImageCast Precinct optical ballot counter (ICP) -The Democracy Suite ImageCast Evolution optical ballot counter (ICE) -The Democracy Suite ImageCast Central optical ballot counter (ICC)	Letter
	Both formal documentation and notes of the vendor's development process shall be submitted for qualification tests. If the vendor's developmental test data are incomplete, the accredited test lab shall design and conduct the appropriate tests to cover all elements of the system and to ensure conformance with all system requirements.		April 20, 2010 Approval of Voting System Testing Application Package Letter from the EAC (DVS1001)	Letter
VII, 2.1.1				
	The vendor shall provide a list of all documents submitted controlling the design, construction, operation, and maintenance of the system. Documents shall be listed in order of precedence.		DVS - EAC TDP Revisions (TDP Document List)	Spreadsheet
VII, 2.1.1	1.1 Description of the Technical Data Package, Required Content for Initial Certification	Vol. I, 8.7 Quality Assurance Requirements, Documentation; Vol. II, 2.12.4 Quality		
	At a minimum, the TDP shall contain the	Assurance Program, Vol. I, 3.1.1 Usability		
	following documentation:	Testing; Vol. I, 3.2.2.1 Partial Vision; Vol. I, 3.2.2.2 Blindness;		
a.	System configuration overview	Vol. I, 3.2.3 Dexterity	2.02 - Democracy Suite System Overview Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 2.99 - Trace Listing	TDP
b.	System functionality description		2.03 - Democracy Suite ICP Functionality Description 2.03 - ICC Functionality Description 2.03 - ICE Functionality Description 2.03 - De Functionality Description 2.03 - Democracy Suite ICP Functionality Description	TDP
c.	System hardware specifications		2.04 - ICE System Hardware Specification 2.04 - ICP System Hardware Specification 2.04.1 - ICE System Hardware Characteristics 2.04.1 - ICP System Hardware Characteristics Advanced Printing Systems ICE Approved Parts List ImageCast Printing Specification EngineeringProductDevelopmentProcesses-HWEngineering ImageCastPrecinctApprovedPartsList ImageCastPrecinctApprovedPartsList ImageCast Evolution Machine Behavioural Settings LTPC Series Line Thermal Printer Mechanism Technical Reference	TDP

T D P D O C U M E N T S		Software design and specifications		2.05 - ICE Software Design And Specification 2.05 - ICP Software Design and Specification 2.05 - ICP Software Design And Specification 2.05 - ICP Software Design And Specification EMS4 0-Database Documentation Creating Repository database documentation.pdf Dominion VotingC_C++CodingStandard EMS_BuildEnvironment_InstallDocument_Windows2008R2_v1.4.0_2 ICE Software Installation Update and Verification Procedures ICE Software Installation Update and Verification Procedures - edits 3-21-12 ICP Firmware Build and Install ICP-Firmware-Update ICP-Firmware-Update ICP-Firmware-Update ICP-Firmware-Update ICP-Firmware-Update ICP-Firmware-Update ICP-Firmware-Update ICP-Firmware-Update ICP-Firmware-Update ImageCast Central - Software Build Procedure (Ver 1.0.9) ImageCast Central - Software Build Procedure (Ver 2.0.2) ImageCast Evolution Build Procedure ImageCast Evolution Build Procedure ImageCast Evolution Build Procedure ImageCast Foolution Firmware Installation Procedure - Wyle edits 3-8-12 ImageCast Foolution Firmware Installation Procedure - Wyle edits 3-8-12 ImageCast Foolution Firmware Installation Procedure - Wyle edits 3-8-12 ImageCast Foolution Firmware Installation Procedure - Wyle edits 3-8-12 ImageCast Foolution Firmware Installation Procedure - Wyle edits 3-8-12 ImageCast Foolution Firmware Installation Procedure - Wyle edits 3-8-12 ImageCast Foolution Firmware Installation Procedure - Wyle edits 3-8-12 ImageCast Foolution Firmware Installation Files ImageCast Foolution Firmware Foolution Files ImageCast Foolution Files	TDP	T D P D O C U M E N T S
	e.	System test and verification specifications	see Vol. I 3.1.1 Usability Testing: per EAC RFI 2007- 03 dated 9/507 - 2005 VVSG Vol. I Section 3.1.1: summative usability test report must be submitted.	2.07 - Democracy Suite System Test and Verification 2.07 - SystemTestAndVerificationTestSuites ICP_MillionBallotScanTest ImageCast Evolution Usability Study ImageCastUsabilityStudy PCOS_300B_ImageCAST_Precinct_Manufacturing_Test_Procedure ReadinessTestProcedures	TDP	
	f.	System security specifications		2.06 - Democracy Suite System Security Specification	TDP	
	g.	User/system operations procedures		2.08 - EMS System Operation Procedures 2.08 - ICE System Operation Procedures 2.08 - ICE System Operation Procedures 2.08 - ICP System Operation Procedures 2.08 - ICP System Operation Procedures Audio Studio User Manual Canon DRX10C User Manual Democracy Suite EMS EED Users Guide Democracy Suite EMS RTR User Manual Democracy Suite System ID Guide ICE Technical Guide ICE Technical Guide ICP Technical Guide	TDP	
	h.	System maintenance procedures		2.09 - ICE System Maintenance Manual 2.09 - ICP System Maintenance Manual 2.09 - EMSSystemMaintenanceManual	TDP	
	i.	Personnel deployment and training		2.10 - Democracy Suite Personnel Deployment And Training Requirements	TDP	
	j.	requirements Configuration management plan		2.11 - Configuration Management Process	TDP	-
	k.	Quality assurance program		2.12 - Democracy Suite Quality Assurance Program	TDP	-
	1.	System change notes		N/A - Not a Modification Submission		-
	VII, 2.1.1.2	Required Content for System Changes			TDP	
P	,	and Recertification For systems seeking re-certification, vendors shall submit System Change Notes as described in Subsection 2.13, as well as current versions of all documents that have been updated to reflect system changes.	see Vol. II, 2.13 System Change Notes; Vol. I, Sec. 8.7 Quality Assurance Requirements, Documentation; Vol. II, 2.12.4 Quality Assurance Program, Documentation	N/A - Not a Re-certification Submission	TDP	Р
REFACE	VII, 2.1.1.3	Format The TDP shall include a detailed table of contents for the required documents, an abstract of each document, and a listing of each of the informational sections and appendices presented.		Included in Core Documents	TDP	REFACE
	VIII A 1-2	A cross-index shall be provided indicating the portions of the documents that are responsive to documentation requirements for any item presented.		2.99 - Trace Listing In addition the core documents contain cross-references to the VVSG requirements throughout.	TDP	
	VII, 2.1.3	Protection of Proprietary Information The vendor shall identify all documents, or portions of documents, containing proprietary information not approved for public release.		Included in the Notice of Confidentiality and Nondisclosure page of the core documents	TDP	
	VII, 2.2	System Overview In the system overview, the vendor shall provide information that enables the accredited test lab to identify the functional and physical components of the system, how the components are structured, and the interfaces between them		2.02 - Democracy Suite System Overview	TDP	_
	VII, 2.2.1	The system Description The system description shall include written descriptions, drawings and diagrams that present:				

	a.	A description of the functional components (or subsystems) as defined by the vendor (e.g., environment, election management and control, vote recording, vote conversion, reporting, and their logical relationships).		2.02 - Democracy Suite System Overview, Section 2, System Overview	TDP
	b.	A description of the operational environment of the system that provides an overview of the hardware, software, and communications structure.		2.02 - Democracy Suite System Overview, Section 3, Operational Environment	TDP
	c.	A concept of operations that explains each system function, and how the function is achieved in the design.		2.02 - Democracy Suite System Overview, Section 3, Operational Environment	TDP
	d.	Descriptions of the functional and physical interfaces between subsystems and components.		2.02 - Democracy Suite System Overview, Section 4, External and Internal Interfaces	TDP
	e.	Identification of all COTS hardware and software products and communications services used in the development and/or operation of the voting system, identifying the name, vendor, and version used for each such component, including:			
		Operating systems	also Vol. I, 7.5.2 Telecomm., Prot. Against External Threats	2.02 - Democracy Suite System Overview, Section 3, Operational Environment	TDP
0 V		Database software	see Vol. II, 2.5.8 Sys. Database	2.02 - Democracy Suite System Overview, Section 4, External and Internal Interfaces	TDP
E R		Communications routers Madaga deligrant	see Vol. 1, 7.5.2 Prot. Against External Threats see Vol. 1, 7.5.2 Prot.	2.02 - Democracy Suite System Overview, Section 4, External and Internal Interfaces	TDP
V		Modem drivers Diel up petrophine coffusers	Against External Threats see Vol. 1, 7.5.2 Prot.	2.02 - Democracy Suite System Overview, Section 2, System Overview	TDP
E	f.	Dial-up networking software Interfaces among internal components, and	Against External Threats	2.02 - Democracy Suite System Overview, Section 3, Operational Environment	TDP
		interfaces with external systems. For components that interface with other components for which multiple products may be used, the TDP shall provide an identification of:			
		 File specifications, data objects, or other means used for information exchange. 		2.02 - Democracy Suite System Overview, Section 4, External and Internal Interfaces	TDP
		The public standard used for such file specifications, data objects, or other means.		2.02 - Democracy Suite System Overview, Section 4, External and Internal Interfaces	TDP
	g.	Benchmark directory listings for all software (including firmware elements) and associated documentation included in the vendor's release in the order in which each piece of software would normally be installed upon system setup and installation.		2.02 - Democracy Suite System Overview, Section 4.9, Benchmark Directory	TDP
	VII, 2.2.2	System Performance The vendor shall provide system			
	a.	performance information including: The performance characteristics of each	see Vol. I, 2.2.1.1c Ballot	2.02 - Democracy Suite System Overview, Section 5, System Performance	
		operating mode and function in terms of expected and maximum speed, throughput capacity, maximum volume (maximum number of voting positions and maximum number of ballot styles supported), and processing frequency.	Prep., Gen. Capabilities.; see Vol. I, 4.1.5.1a Ballot Handling		TDP
	b.	Quality attributes such as reliability, maintainability, availability, usability, and portability.	see Vol. 1, 4.3.5 Availability; Vol. 1, 7.9.3 VVPAT Requirements, Electronic and Paper Record Structure; Vol. 1, 7.9.4 Equipment Security and Reliability	2.02 - Democracy Suite System Overview, Section 5, System Performance	TDP
	c.	Provisions for safety, security, privacy, and continuity of operation.	ariny was Actionally	2.02 - Democracy Suite System Overview, Section 5.5, Quality Attributes	TDP
	d.	Design constraints, applicable standards, and compatibility requirements.		2.02 - Democracy Suite System Overview, Section 5.5, Quality Attributes	TDP
	VII, 2.3	System Functionality Description The vendor shall declare the scope of the system's functional capabilities, thereby establishing the performance, design, test, manufacture, and acceptance context for		2.03 - Democracy Suite EMS Functionality Description, Section 1, Purpose and Scope 2.03 - ICC Functionality Description, Section 1, Introduction 2.03 - ICE Functionality Description, Section 1.1, Purpose and Scope 2.03 - ICP Functionality Description, Section 1.2, Purpose	TDP
		the system. The vendor shall provide a listing of the system's functional processing capabilities, encompassing capabilities required by the Guidelines and any additional capabilities provided by the system. This listing shall provide a simple description of each capability. Detailed specifications shall be provided in other documentation required for the TTD.	per VVSG V2, 3.2.3. additional capabilities are those added to respond to the requirements of an individual State(s).	2.03 - Democracy Suite EMSFunctionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 2, Overall System Capabilities 2.03 - ICP Functionality Description, Section 2, Overall System Capabilities	TDP

The vendor shall organize the presenta of required capabilities in a manner the corresponds to the structure and sequet of functional capabilities indicated in Volume I, Section 2. The contents of Volume I, Section 2 may be used as the basis for a checklist to indicate the specific functions provided and those n provided by the system. [see below for functional capabilities as listed in Vol. Sec. 2.1-2.5]	t tece	2.03 - Democracy Suite EMS Functionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 2, Overall System Capabilities 2.03 - ICP Functionality Description, Section 2, Overall System Capabilities	TDP
[Vol. I, 2.1 Overall System Capabilities]: These functional capabilities apply throughout the electi	on		
process. They include: 2.1.1 Security		2.03 - Democracy Suite EMS Functionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 2.1, Security 2.03 - ICP Functionality Description, Section 2.1, Security	TDP
2.1.2 Accuracy		2.03 - Democracy Suite EMS Functionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 2.2, Accuracy 2.03 - ICP Functionality Description, Section 2.2, Design of System for Accuracy	TDP
2.1.3 Error Recovery		2.03 - Democracy Suite EMS Functionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 2.3, Error Recovery 2.03 - ICP Functionality Description, Section 2.3, Error Recovery	TDP
2.1.4 Integrity		2.03 - Democracy Suite EMS Functionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 2.4, Integrity 2.03 - ICP Functionality Description, Section 2.5, Integrity	TDP
2.1.5 System Auditability		2.03 - Democracy Suite EMS Functionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 2.5, System Audit 2.03 - ICP Functionality Description, Section 2.4, Audit Functionality	TDP
2.1.6 Election Management System		2.03 - Democracy Suite EMS Functionality Description 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 2.6, Election Management System 2.03 - ICP Functionality Description, Section 2.6, Election Management System	TDP
2.1.7 Vote Tabulation		2.03 - Democracy Suite EMS Functionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 2.7, Voter Tabulation Program 2.03 - ICP Functionality Description, Section 2.7, Vote Tabulation	TDP
2.1.8 Ballot Counters		2.03 - Democracy Suite EMS Functionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 2.8, Ballot Counter 2.03 - ICF Punctionality Description, Section 2.8, Ballot Counters	TDP
2.1.9 Telecommunications		2.03 - Democracy Suite EMS Functionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 2.9, Telecommunications 2.03 - ICP Functionality Description, Section 2.9, Telecommunications	TDP
2.1.10 Data Retention	see Vol. 1, 2.1.10 Data Retention; see Vol. 1, 4.1.3.2 Memory Stability; see Vol. 1, 4.1.6.1 b. Paper- Based System Processing Requirements; see Vol. 1, 4.1.6.2 c. DRE System Processing Requirements; see Vol. 1, 4.1.6.2 r. DRE Siven Processing Requirements; see Vol. 1, 4.1.7.1 Removable Storage Media; see Vol. 1, 5.3. a. Data and Document Retention	2.03 - Democracy Suite EMS Functionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 2.10, Data Retention 2.03 - ICP Functionality Description, Section 2.10, Data Retention	TDP
[Vo. I, 2.2 Pre-voting Capabilities]: These functional capabilities are used to prepare the voting system for voting. They include:			
2.2.1 Ballot Preparation; 2.2.1.1 Gene Capabilities; 2.2.1.2 Ballot Formatting 2.2.1.3 Ballot Production		2.03 - Democracy Suite EMS Functionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 3, Pre-Voting Capabilities 2.03 - ICP Functionality Description, Section 2.11, Pre-Voting Capabilities	TDP
2.2.2 Election Programming		2.03 - Democracy Suite EMS Functionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 3, Pre-Voting Capabilities 2.03 - ICP Functionality Description, Section 2.1.1, Software and Firmware Installation	TDP
2.2.3 Ballot and Program Installation a Control	ind	2.03 - Democracy Suite EMS Functionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 3, Pre-Voting Capabilities 2.03 - ICP Functionality Description, Section 2.1.1, Software and Firmware Installation	TDP
2.2.4 Readiness Testing		2.03 - Democracy Suite EMS Functionality Description, Section 2.6, System Capabilities 2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 4.1.1, Precinct Count Systems 2.03 - ICF Punctionality Description, Section 3.6.3.1, Diagnostic Test	TDP

2.3.1 Certain of the Central Learner 2.3.1 Verification in the Central Learner 2.3.2 Verification in the Central Learner 2.3.3 Verification in the Central Learner 2.3.4 Verification in the Central Learner 2.3.5 Verification in the Cent			i e e e e e e e e e e e e e e e e e e e		
13.1. Section containing Processing Containing Processing Containing Containi		2.2.5 Verification at the Polling Place		2.03 - ICE, Section 3.1. Verification at the Polling Place	TDP
2.3. Commany and William 2.1.1 Productions Country Systems 2.1.2 In Production Systems 2.1.2 They have been considered by the country of the		2.2.6 Verification at the Central Location		2.03 - ICC Functionality Description, Section 2.4, System Capabilities N/A for ICE	TDP
23.1 (Spening the Politic 2.3.1 Prepared Conference 2.3.2.1 Prepared Conference 2.3.2.2.1 Prepared Conference 2.3.2.2 Prepared Conference 2.3.2 Prepared Conference 2.3.3 Prep					
Care Systems 2.3.1.2 Page Security				2.02 Damagray Cuita EMC Emptionality Decariation Continue 2.6 Cyptom Constitution	
Sporms 20% Corp. Technology Recognition, Section 2.4, Sporms Capabilities 10% for		Count Systems; 2.3.1.2 Paper-based Systems; 2.3.1.3 DRE System Requirements		2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 4.1, Opening the Polls 2.03 - ICP Functionality Description, Section 3.6.3.3, Opening Poll	TDP
Requirements 2.3.3.2 Page should System Requirements 2.3.3.3 DBE Appearance 2.3.3 DBE Appearance 2.3 DBE Ap				2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 4.2.2, Paper-based System Requirements: Casting a Ballot	TDP
Insect panel The regulation and Deventions and Deve		Requirements; 2.3.3.2 Paper-based System Requirements; 2.3.3.3 DRE		2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 4.2, Casting a Ballot	TDP
2.4.1 Counting the pulss 2.4.2 Counting the pulss 2.4.3 Demicracy Shire BAS Functionality Description, Section 2.4, System Capabilities 2.4.3 The Functionality Description, Section 3.4, System Capabilities 2.4.4 Consolidating Visto Data 2.4.5 Consolidating Visto Data 2.4.5 Demicracy Shire BAS Functionality Description, Section 3.4, System Capabilities 2.4.5 The Functionality Description, Section 3.4, System Capabilities 2.4.5 The Functionality Description, Section 3.4, System Capabilities 2.4.5 The Functionality Description, Section 3.4, System Capabilities 2.4.5 Posterior Programment of the System Capabilities 2.4.5 The Functionality Description, Section 3.4, Additional Capabilities 2.4.5 The Functionality Description, Section 3.4, Additional Capabilities 2.4.5 The Functiona		These capabilities apply after all votes			
2.3.3 FCC Functionally Descriptions, Section 2.4, System Capabilities 2.0.3 FCF Functionally Descriptions, Section 2.1.3 F. Consolidating Vice Data 2.0.5 FCF Functionally Descriptions, Section 2.1.3 F. Consolidating Vice Data 2.0.5 FCF Functionally Descriptions, Section 2.1.3 F. Consolidating Vice Data 2.0.5 FCF Functionally Descriptions, Section 2.4, System Capabilities 2.0.5 FCF Functionally Descriptions, Section 2.4, System Capabilities 2.0.5 FCF Functionally Descriptions, Section 2.6, System Capabilities 2.0.5 FCF Functionally Descriptions, Section 3.1, ImageCast Pocion Tabulator Overview FOR System Capabilities Section System Capabilities 2.0.5 FCF Functionally Descriptions, Section 3.1, ImageCast Pocion Tabulator Overview FOR System Capabilities Section System Capabilities 2.0.5 FCF Functionally Descriptions, Section 3.1, ImageCast Pocion Tabulator Overview FOR System Capabilities Section System Capabilities 2.0.5 FCF Functionally Descriptions, Section 3.1, ImageCast Pocion Tabulator Chanals Functionally System Capabilities 2.0.5 FCF Functionally Descriptions, Section 3.1, ImageCast Pocion Tabulator Chanals Functionally System Capabilities 2.0.5 FCF Functionally Description, Section 3.1, ImageCast Pocion Tabulator Chanals Functionally System Capabilities 2.0.5 FCF Functionally Description, Section 3.1, ImageCast Pocion Tabulator Chanals Functionally System Capabilities 2.0.5 FCF Functionally Description, Section 3.1, ImageCast Pocion Tabulator Chanals Functionally System Capabilities 2.0.5 FCF Functionally Description, Section 3.1, ImageCast Pocion Tabulator Chanals Functionally System Capabilities 2.0.5 FCF Functionally Description, Section 3.1, ImageCast Co				2.03 - ICE Functionality Description, Section 5.1, Closing Poll 2.03 - ICC Functionality Description, Section 2.4, System Capabilities	TDP
2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 3.6, Keptors 2.14 A Branckasting Results 2.05 - ICC Functionality Description, Section 3.6, Keptors 2.05 - ICC Functionality Description, Section 3.6, Keptors 2.05 - ICC Functionality Description, Section 3.6, System Capabilities 2.05 - ICC Functionality Description, Section 3.6, System Capabilities 2.05 - ICC Functionality Description, Section 3.6, System Capabilities 2.05 - ICC Functionality Description, Section 3.1, ImageCast Precinct Tabulator Overview TDP 2.05 - Powners you've EAST Functionality Description, Section 3.1, ImageCast Precinct Tabulator Overview 2.05 - ICC Functionality Description, Section 3.1, ImageCast Precinct Tabulator Chaosis Functionality Description, Section 3.1, ImageCast Precinct Tabulator Chaosis Functionality Description, Section 3.1, ImageCast Precinct Tabulator Chaosis Functionality Description, Section 3.2, ImageCast Chaosis Chaosis Functionality Description, Section 3.2, ImageCast Chaosis C		2.4.2 Consolidating Vote Data		2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 5.2, Consolidating Vote Data	TDP
2.03 - I.CC Particionality Description, Section 2.4, System Capabilities 2.03 - I.CF Particionality Description, Section 3.1, ImageCast Precise Tabulator Overview Transportation and Storage Canabilities: 2.5 Maintenance, Transportation, and Storage Canabilities: 2.6 Additional capabilities shall be clearly indicated. They may be presented using the same structure as that used for required capabilities (e. o., overal system of capabilities, pre-vening functions, voting the same structure as that used for required capabilities, pre-vening functions, voting the same structure as that used for required capabilities, pre-vening functions, voting the same structure as that used for required capabilities, pre-vening functions, voting the same structure as that used for required capabilities, pre-vening functions, voting the same structure as that used for required capabilities, pre-vening functions, voting the same structure as that used for required capabilities, pre-vening functions, voting the same structure as that used for required capabilities, pre-vening functions, voting the same structure as the transportation of the vendor's choosing. Required capabilities that may be because the clearly indicated. Required capabilities that may be because the clearly indicated. Additional capabilities that must be began to the components of the ventor of the ve		2.4.3 Producing Reports		2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 5.3, Producing Reports	TDP
Transportation and Storage Canabilities: 2.5 Maintenance, Transportation, and Storage Additional capabilities shall be clearly indicated. They may be presented using the same structure as that used for required expabilities (i.e., overall system). Sortion (i.e., postall system) and apabilities (i.e., overall system) are presented in another format of the variety choosine. Required capabilities, pre-voting functions, or may be presented in another format of the variety choosine. Required capabilities, pre-voting functions, or may be presented in another format of the variety choosine. Required capabilities (i.e., overall system) and the clearly indicated. Additional capabilities that function of when the clearly indicated. Additional capabilities that function only when activated during installation or operation by the user shall be clearly indicated. Additional capabilities that function only when activated during installation or operation by the user shall be clearly undicated. Additional capabilities that function only when activated during installation or operation by the user shall be clearly undicated. Additional capabilities that function only when activated during installation or operation by the user shall be clearly undicated. Additional capabilities that function only when activated during installation or operation by the user shall be clearly undicated. Additional capabilities that normally are active but may be provided and the clearly undicated. Additional capabilities that normally are active but may be provided the clearly undicated. Additional capabilities that normally are active but may be provided the clearly undicated. Additional capabilities that normally are active but may be be provided that the clearly undicated that the clearly undicated the clearly undicated that the clearly undicated the clearly un		2.4.4 Broadcasting Results		2.03 - ICC Functionality Description, Section 2.4, System Capabilities 2.03 - ICE Functionality Description, Section 5.4, Broadcasting Results	TDP
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	a.	Performance characteristics: This discussion addresses basic system performance attributes and operational scenarios that describe the manner in		2.04.1 - ICE System Hardware Characteristics, Section 2, Performance Characteristics 2.04.1 - ICP System Hardware Characteristics, Section 2, Performance Characteristics Canon DRX10C User Manual, ff		
		which system functions are invoked, describe environmental capabilities, describe life expectancy, and describe any other essential aspects of system performance.			TDP	
	b.	Physical characteristics: This discussion addresses suitability for intended use, requirements for transportation and storage, health and safety criteria, security criteria, and vulnerability to adverse environmental factors.	also Vol. I, 4.2-4.2.2 Hdw. Physical Characteristics Vol. I, 4.2.3 b.ii Transport and Storage of Precinct Systems	2.04.1 - ICE System Hardware Characteristics, Section 3, Physical Characteristics 2.04.1 - ICP System Hardware Characteristics, Section 3, Physical Characteristics Canon DRX10C User Manual, ff	TDP	
S Y S T E	c.	Reliability: This discussion addresses system and component reliability stated in terms of the system's operating functions, and identification of items that require special handling or operation to sustain system reliability.	Vol. I, 4.3.3 Reliability	2.04.1 - ICE System Hardware Characteristics, Section 3.4.3, Reliability 2.04.1 - ICP System Hardware Characteristics, Section 3.4.3, Reliability Canon DRX10C User Manual, ff	TDP	S Y S T E
M HARDWARE C	d.	Maintainability: Maintainability represents the ease with which maintenance actions can be performed based on the design characteristics of equipment and software and the processes the vendor and election officials have in place for preventing failures and for reacting to failures. Maintainability includes the ability of equipment and software to self-diagnose problems and make non-technical election workers aware of a problem. Maintainability also addresses a range of scheduled and unscheduled events.	Vol. I, 4.3.4-4.3.4.2 Maintainability	2.04.1 - ICE System Hardware Characteristics, Section 3.5 Maintainability 2.04.1 - ICP System Hardware Characteristics, Section 3.5 Maintainability Canon DRX10C User Manual, ff	TDP	M HARDWARE C
HARACTERIS	e.	Environmental conditions: This discussion addresses the ability of the system to withstand natural environments, and operational constraints in normal and test environments, including all requirements and restrictions regarding electrical service, telecommunications services, environmental protection, and any additional facilities or resources required to install and operate the system.	Vol. I, 4.1.2-4.1.2.15 Environ. Requirements	2.04.1 - ICE System Hardware Characteristics, Section 2.2, Environmental Requirements 2.04.1 - ICP System Hardware Characteristics, Section 2.2, Environmental Requirements Canon DRX10C User Manual, ff	TDP	HARACTERIS
T C S	VII, 2.4.2	Design and Construction The vendor shall provide sufficient data, or references to data, to identify unequivocally the details of the system configuration submitted for testing.	also Vol. I, 4.3 Design, Construction, and Maintenance Characteristics	2.04.1 - ICE System Hardware Characteristics, Section 3.4, Design, Construction and Maintenance Characteristics 2.04.1 - ICP System Hardware Characteristics, Section 3.4, Design, Construction and Maintenance Characteristics Canon DRX10C User Manual, ff	TDP	T I C S
		The vendor shall provide a list of materials and components used in the system and a description of their assembly into major system components and the system as a whole. Paragraphs and diagrams shall be provided that describe:		2.04.1 - ICE System Hardware Characteristics, ff 2.04.1 - ICP System Hardware Characteristics, ff ICE Approved Parts List, ff ImageCastPrecinctApprovedPartsList, ff	TDP	
	a.	Materials, processes, and parts used in the system, their assembly, and the configuration control measures to ensure compliance with the system specification.		2.04.1 - ICE System Hardware Characteristics 2.04.1 - ICE System Hardware Characteristics ICE Approved Parts List ImageCastPrecinctApprovedPartsList	TDP	
	b.	The electromagnetic environment generated by the system.		2.04.1 - ICE System Hardware Characteristics, Section 2.2, Environmental Requirements 2.04.1 - ICP System Hardware Characteristics, Section 2.2, Environmental Requirements	TDP	
	c.	Operator and voter safety considerations, and any constraints on system operations or the use environment.		2.04.1 - ICE System Hardware Characteristics, Section 3.5.6, Safety 2.04.1 - ICP System Hardware Characteristics, Section 3.5.6, Safety	TDP	
	d.	Human factors considerations, including provisions for access by disabled voters.		2.04 - ICE System Hardware Specification, Section 2.4, Physical Control 2.04 - ICP System Hardware Specification Section 2.3, Physical Access Control	TDP	
	VII, 2.5	Software Design and Specification The vendor shall expand on the system overview by providing detailed specifications of the software components of the system, including software used to support the telecommunications capabilities of the system, if applicable.		2.05 - ICE Software Design And Specification 2.05 - ICE Software Design And Specification 2.05 - ICP Software Design And Specification 2.05 - ICP Software Design And Specification 2.05 - ICS Software Design And Specification EMS4.0-DatabaseDocumentation Creating Repository database, documentation.pdf DominionVotingC_C++CodingStandard EMS_BuildEnvironment_InstallDocument_Windows2008R2_v1.4.0_2 ICE Software Installation Update and Verification Procedures ICE Software Installation Update and Verification Procedures - edits 3-21-12 ICP FirmwareUpdate ICPFirmwareUpdate ICPFirmwareUpdate ICPFirmwareUpdate ICPFirmwareUpdate ICPFirmwareUpdate ImageCast Central - Application Installation ImageCast Central - Build Environment Setup (Ver 1.0.9) ImageCast Central - Software Build Procedure (Ver 2.0.2) ImageCast Evolution Build Procedure ImageCast Evolution Firmware Installation Procedure - Wyle edits 3-8-12 ImageCast Evolution Firmware Installation Procedure - Wyle edits 3-8-12 ImageCast SoftwareBuildAndInstall ImageCastPrecinctDeviceConfigurationFiles	TDP	

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VII, 2.5.1	Purpose and Scope The vendor shall describe the function or functions that are performed by the software programs that comprise the system, including software used to support	2.05 - EMS Software Design And Specification, Section 1.3, Purpose and Scope 2.05 - ICE Software Design and Specification, Section 1.2, Purpose 2.05 - ICP Software Design And Specification, Section 1.3, Purpose and Scope 2.05 - ICC SoftwareDesignAndSpecification, Section 1.2, Purpose	TDP
	the telecommunications capabilities of the system, if applicable		
VII, 2.5.2	Applicable Documents The vendor shall list all documents controlling the development of the software and its specifications. Documents shall be listed in order of precedence.	2.05 - EMS Software Design And Specification, Section 1.4, Applicable Documents 2.05 - ICE Software Design and Specification, Section 1.4, Applicable Documents 2.05 - ICP Software Design And Specification, Section 1.5, Applicable Documents 2.05 - ICC SoftwareDesignAndSpecification, Section 1.4, Applicable Documents	TDP
VII, 2.5.3	Software Overview The vendor shall provide an overview of the software that includes the following		
a.	items: A description of the software system concept, including specific software design objectives, and the logic structure and algorithms used to accomplish these objectives	2.05 - EMS Software Design And Specification, Section 2, Software Overview 2.05 - ICE Software Design and Specification, Section 2, Software Overview 2.05 - ICP Software Design And Specification, Section 2, Software Overview 2.05 - ICC SoftwareDesignAndSpecification, Section 2, Software Overview	TDP
b.	The general design, operational considerations, and constraints influencing the design of the software.	 2.05 - EMS Software Design And Specification, Section 4.2, General Design, Operational Considerations and 2.05 - ICE Software Design and Specification, Section 2.2, General Design, Operational Considerations and 2.05 - ICP Software Design And Specification, Section 2.0.2, General Design, Operational Considerations 2.05 - ICC SoftwareDesignAndSpecification, Section 2.0.2, General Design, Operational Considerations 	TDP
c.	Identification of all software items, indicating items that were:	2.05 - EMS Software Design And Specification, Section 4.3, Identification of All Software Items 2.05 - ICE Software Design and Specification, Section 2.3, Identification of All Software Items 2.05 - ICP Software Design And Specification, Section 2.0.3, Identification of All Software Items 2.05 - ICC SoftwareDesignAndSpecification, Section 2.0.3, Identification of All Software Items	TDP
	1) Written in-house	2.05 - EMS Software Design And Specification, Section 4.3, Identification of All Software Items 2.05 - ICE Software Design and Specification, Section 2.3.1, Software Items Written In-House 2.05 - ICP Software Design And Specification, Section 2.0.3.1, Software Items Written In-House 2.05 - ICC SoftwareDesignAndSpecification, Section 2.0.3.1, Software Items Written In-House	TDP
	2) Procured and not modified	2.05 - EMS Software Design And Specification, Section 4.3, Identification of All Software Items 2.05 - ICE Software Design and Specification, Section 2.3.2, Software Items Procured and Not Modified 2.05 - ICP Software Design And Specification, Section 2.0.3.2, Procured and Not Modifies 2.05 - ICC SoftwareDesignAndSpecification, Section 2.0.3.2, Procured and Not Modifies	TDP
	Procured and modified, including descriptions of the modifications to the software and to the default configuration options.	2.05 - EMS Software Design And Specification, Section 4.3, Identification of All Software Items 2.05 - ICE Software Design and Specification, Section 2.3.3, Software Items Procured and Modified 2.05 - ICP Software Design And Specification, Section 2.0.3.3, Software Items Procured and Modified 2.05 - ICC SoftwareDesignAndSpecification, Section 2.0.3.3, Software Items Procured and Modified	TDP
d.	Additional information for each item that		
	includes: 1) Item identification	2.05 - EMS Software Design And Specification, Section 4.3, Identification of All Software Items 2.05 - ICE Software Design and Specification, Section 2.3, Identification of All Software Items 2.05 - ICP Software Design And Specification, Section 2.0.3, Identification of All Software Items 2.05 - ICC SoftwareDesignAndSpecification, Section 2.0.3, Identification of All Software Items	TDP
	2) General description	2.05 - EMS Software Design And Specification, Section 4.3, Identification of All Software Items 2.05 - ICE Software Design and Specification, Section 2.3, Identification of All Software Items 2.05 - ICP Software Design And Specification, Section 2.0.3, Identification of All Software Items 2.05 - ICC SoftwareDesignAndSpecification, Section 2.0.3, Identification of All Software Items	TDP
	Software requirements performed by the item	2.05 - EMS Software Design And Specification, Section 4.3, Identification of All Software Items 2.05 - ICE Software Design and Specification, Section 2.3, Identification of All Software Items 2.05 - ICP Software Design And Specification, Section 2.0.3, Identification of All Software Items 2.05 - ICC SoftwareDesignAndSpecification, Section 2.0.3, Identification of All Software Items	TDP
	Identification of interfaces with other items that provide data to, or receive data from, the item	2.05 - EMS Software Design And Specification, Section 4.3, Identification of All Software Items 2.05 - ICE Software Design and Specification, Section 2.3, Identification of All Software Items 2.05 - ICP Software Design And Specification, Section 2.0.3, Identification of All Software Items 2.05 - ICC SoftwareDesignAndSpecification, Section 2.0.3, Identification of All Software Items	TDP
	5) Concept of execution for the item	2.05 - EMS Software Design And Specification, Section 4.3, Identification of All Software Items 2.05 - ICE Software Design and Specification, Section 2.3, Identification of All Software Items 2.05 - ICP Software Design And Specification, Section 2.0.3, Identification of All Software Items 2.05 - ICC SoftwareDesignAndSpecification, Section 2.0.3, Identification of All Software Items	TDP
	The vendor shall also include a certification that procured software items were obtained directly from the manufacturer or a licensed dealer or distributor	2.05 - EMS Software Design And Specification, Section 4.5, Certification of Third Party Software Components 2.05 - ICE Software Design and Specification, Section 2.3.4, Certification of Procured Software 2.05 - ICP Software Design And Specification, Section 2.0.3.4, Certification of Procured Software 2.05 - ICC SoftwareDesignAndSpecification, Section 2.0.3.4, Certification of Procured Software	TDP
VII, 2.5.4	Software Standards and Conventions		
	The vendor shall provide information that can be used by an accredited test lab or state certification board to support software analysis and test design. The information shall address standards and conventions developed internally by the vendor as well as published industry standards that have been applied by the vendor. The vendor shall provide information that addresses the following standards and conventions:		
a.	Software System development methodology.	2.05 - EMS Software Design And Specification, Section 5, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICP Software Design And Specification, Section 3.1, Software Standards and Conventions 2.05 - ICC SoftwareDesignAndSpecification, Section 3.1, Software Standards and Conventions	TDP
b.	Software design standards, including internal vendor procedures.	2.05 - EMS Software Design And Specification, Section 5, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICP Software Design And Specification, Section 3.1, Software Standards and Conventions 2.05 - ICC SoftwareDesignAndSpecification, Section 3.1, Software Standards and Conventions	TDP

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2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Standards and Conventions 2.05 - ICE Software Design and Specification, Section 3.1, Software Departing Environment 2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICE Software Design and Specification, Section 3.2, Italyaware Environment and Constraints 2.05 - ICE Software Design and Specification, Section 3.2, Italyaware Environment and Constraints 2.05 - ICE Software Design and Specification, Section 3.2, Italyaware Environment	
including internal vender procedures, that can assist in determining the program's correctness and ACCEPTREBIECT Conventions 2.05 : ICP Software Design and Specification, Section 3.1, Software Standards and Conventions Conventions and ACCEPTREBIECT Conventions 2.05 : ICP Software Design and Specification, Section 3.1, Software Standards and Conventions characteristics to the used to ceamine demonstrate that can be used to ceamine demonstrate that the used to ceamine control clarks, program documentation, and control clarks, program documentation, the planning, and test data acquisition and conventions to the planning, and test data acquisition and conventions and control clarks, program documentation, the planning and test data acquisition and conventions and control clarks, program documentation, the planning and test data acquisition and conventions and control clarks, program documentation, the planning and test data acquisition and conventions and control clarks, program documentation, and proceeding and procedure an	TDP
Comments that can be used to examine and test the software. These documents include standards for program flow and control charts, program flow and control charts, program documentation, test planning, and test the software. Design And Specification, Section 3.1, Software Standards and Conventions include standards for program flow and control charts, program documentation, test planning, and test data acquisition and control charts, program documentation, test planning, and test data acquisition and control charts, program documentation, test planning, and test data acquisition and control charts, program documentation, test planning, and test data acquisition and control charts, program documentation, test planning, and test data acquisition and control charts, program documentation, test planning, and test data acquisition and control charts, program documentation, test planning, and test the software design and specification, Section 3.1, Software Operating Environment and control charts, the software design. VII. 2.5.5.1 Hardware Environment and Constraints 2.05 - ICC Software Design And Specification, Section 3.2, Software Operating Environment 2.05 - ICC Software Design And Specification, Section 3.2, Software Operating Environment 2.05 - ICC Software Design And Specification, Section 3.2, Individual Environment and Constraints 2.05 - ICC Software Design And Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design And Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Co	TDP
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This section shall describe or make reference to all operating environment factors that influence the software design. 2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICC Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICC Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICC Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICC Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICE Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICE Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2, Hardware Environment and Constraints 2.05 - ICC Software Design and Specificati	
Constraints The vendor shall identify and describe the lardware characteristics that influence the design of the software, such as: a. The logic and arithmetic capability of the processor External memory read-write characteristics D. Hardware Environment and Constraints D. Hardware Environment and Constraint	TDP
The vendor shall identify and describe the hardware characteristics that influence the design of the software, such as: a. The logic and arithmetic capability of the processor The logic and arithmetic capability of the processor 2.05 - ICE Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICE Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICE Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICE Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC Software Design and Specification, Sect	
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2.05 - ICE Software Design and Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICP Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC SoftwareDesignAndSpecification, Section 3.2.1, Hardware Environment and Constraints f. Operator controls, indicators, and displays 2.05 - ICE Software Design And Specification, Section 6.2, Hardware Environment and Constraints 2.05 - ICE Software Design and Specification, Section 3.2.1, Hardware Environment and Constraints	TDP
2.05 - ICE Software Design and Specification, Section 3.2.1, Hardware Environment and Constraints	TDP
2.05 - ICP Software Design And Specification, Section 3.2.1, Hardware Environment and Constraints 2.05 - ICC SoftwareDesignAndSpecification, Section 3.2.1, Hardware Environment and Constraints	TDP
VII, 2.5.5.2 Software Environment	
The vendor shall identify the compilers or assemblers used in the generation of executable code, and describe the operating system or system monitor. 2.05 - ICMS Software Design And Specification, Section 6.1, Software Environment 2.05 - ICE Software Design and Specification, Section 3.2.2, Software Environment 2.05 - ICC Software Design And Specification, Section 3.2.2, Software Environment 2.05 - ICC Software Design And Specification, Section 3.2.2, Software Environment 2.05 - ICC Software Design And Specification, Section 3.2.2, Software Environment 2.05 - ICC Software Design And Specification, Section 3.2.2, Software Environment 2.05 - ICC Software Design And Specification, Section 3.2.2, Software Environment 2.05 - ICC Software Design And Specification, Section 3.2.2, Software Environment 2.05 - ICC Software Design And Specification, Section 3.2.2, Software Environment 2.05 - ICC Software Design And Specification, Section 3.2.2, Software Environment 2.05 - ICC Software Design And Specification, Section 3.2.2, Software Environment 2.05 - ICC Software Design And Specification, Section 3.2.2, Software Environment 2.05 - ICC Software Design And Specification, Section 3.2.2, Software Environment 2.05 - ICC Software Design And Specification, Section 3.2.2, Software Design And	TDP
VII, VII, Software Functional Specification 2.5.6	
The vendor shall provide a description of the operating modes of the system and of software Design and Specification, Section 7, Software Functional Specifications 2.05 - ICE Software Design and Specification, Section 3.3.2, Software Functions software capabilities to perform specific functions. 2.05 - ICP Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Design And Specification, Section 3.3.2, Software Functions 2.05 - ICC Software Design And Specification, Section 3.3.2, Software Design And Specification, Se	TDP
VII, 2.5.6.1 Configuration and Operating Modes The vendor shall describe all software configurations and operating modes of the system, such as ballot preparation, election programming, preparation for opening the polling place, recording votes and/or counting ballots, closing the polling place, and generating reports. For each software function or operating mode, the vendor shall provide: 2.05 - ICE Software Design And Specification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configura	TDP
a. A definition of the inputs to the function or mode (with characteristics, tolerances or acceptable ranges, as applicable). 2.05 - EMS Software Design And Specification, Section 7.1.1, Operating Modes and Functions - Inputs 2.05 - ICE Software Design and Specification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC Software Design And Specification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes	TDP
b. An explanation of how the inputs are processed. 2.05 - EMS Software Design And Specification, Section 7.1.1, Operating Modes and Functions - Inputs 2.05 - ICE Software Design and Specification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICP Software Design And Specification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes	TDP

C.				
	A definition of the outputs produced	1	2.05 - EMS Software Design And Specification, Section 7.1.3, Definition of Outputs	
	(again, with characteristics, tolerances, or		2.05 - ICE Software Design and Specification, Section 3.3.1, Configurations and Operating Modes	TDP
	acceptable ranges, as applicable).	1	2.05 - ICP Software Design And Specification, Section 3.3.1.1, Definition of the Outputs Produced 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1.1, Definition of the Outputs Produced	101
			2.05 - 100 SoftwareDesign and pecification, Section 5.5.1.1, Definition of the Outputs Froduced	
VII, 2.5.6.2	Software Functions			
	The vendor shall describe the software's			
	capabilities or methods for detecting or handling:			
a.	Exception conditions		2.05 - EMS Software Design And Specification, Section 8, Programming Specifications	
			2.05 - ICE Software Design and Specification, Section 3.3.2, Software Functions	
			2.05 - ICP Software Design And Specification, Section 3.3.2, Software Functions	TDP
			2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.2, Software Functions	
b.	System failures		2.05 - EMS Software Design And Specification, Section 8, Programming Specifications	
			2.05 - ICE Software Design and Specification, Section 3.3.2, Software Functions	
			2.05 - ICP Software Design And Specification, Section 3.3.2, Software Functions	TDP
			2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.2, Software Functions	
c.	Data input/output errors		2.05 - EMS Software Design And Specification, Section 8, Programming Specifications	
			2.05 - ICE Software Design and Specification, Section 3.3.2, Software Functions	
			2.05 - ICP Software Design And Specification, Section 3.3.2, Software Functions	TDP
			2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.2, Software Functions	
d.	Error logging for audit record generation		2.05 - EMS Software Design And Specification, Section 8, Programming Specifications	
			2.05 - ICE Software Design and Specification, Section 3.3.2, Software Functions	
			2.05 - ICP Software Design And Specification, Section 3.3.2, Software Functions	TDP
		1	2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.2, Software Functions	
e.	Production of statistical ballot data		2.05 - EMS Software Design And Specification, Section 8, Programming Specifications	
	1	1	2.05 - ICE Software Design and Specification, Section 3.3.2, Software Functions	
		1	2.05 - ICP Software Design And Specification, Section 3.3.2, Software Functions	TDP
		1	2.05 - ICCSoftwareDesignAndSpecification, Section 3.3.2, Software Functions	
f.	Data quality assessment		2.05 - EMS Software Design And Specification, Section 8, Programming Specifications	
	1	1	2.05 - ICE Software Design and Specification, Section 3.3.2, Software Functions	
		1	2.05 - ICP Software Design And Specification, Section 3.3.2, Software Functions	TDP
		1	2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.2, Software Functions	
g.	Security monitoring and control		2.05 - EMS Software Design And Specification, Section 8, Programming Specifications	
			2.05 - ICE Software Design and Specification, Section 3.3.2, Software Functions	
			2.05 - ICP Software Design And Specification, Section 3.3.2, Software Functions	TDP
			2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.2, Software Functions	
VII, 2.5.7	Programming Specifications			
	The vendor shall provide in this section an		2.05 - EMS Software Design And Specification, Section 8, Programming Specifications	
	overview of the software design, its		2.05 - ICE Software Design and Specification, Section 4, Programming Specifications	TDP
	structure, and implementation algorithms and detailed specifications for individual		2.05 - ICP Software Design And Specification, Section 3.4, Programming Specifications 2.05 - ICC SoftwareDesignAndSpecification, Section 3.4, Programming Specifications	IDP
	software modules.		2.05 100 bott utebenga maspeementon, section 3.1, 110g-amming specifications	
VII, 2.5.7.1	Programming Specifications Overview			
	This overview shall include such items as		2.05 - EMS Software Design And Specification, Section 8, Programming Specifications	
	flowcharts, data flow diagrams, and other graphical techniques that facilitate		2.05 - ICE Software Design and Specification, Section 4, Programming Specifications 2.05 - ICP Software Design And Specification, Section 3.4, Programming Specifications	
	understanding of the programming		2.05 - ICC SoftwareDesignAndSpecification, Section 3.4, Programming Specifications	
	specifications. This section shall be			
	prepared to facilitate understanding of the			TDP
	internal functioning of the individual software modules. Implementation of the			
	functions shall be described in terms of the			
	software architecture, algorithms, and data			
****	structures.	1		
VII, 2.5.7.2	Programming Specifications Details			
	The programming specifications shall			
	The programming specifications shall describe individual software modules and			
	describe individual software modules and their component units, if applicable. For			
	describe individual software modules and their component units, if applicable. For each module and unit, the vendor shall			
	describe individual software modules and their component units, if applicable. For each module and unit, the vendor shall provide the following information:			
a.	describe individual software modules and their component units, if applicable. For each module and unit, the vendor shall provide the following information: Module and unit design decisions, if any,		2.05 - EMS Software Design And Specification, Section 8, Programming Specifications 2.05 - ICF Software Design and Specification Section 4 Programming Specifications	
a.	describe individual software modules and their component units, if applicable. For each module and unit, the vendor shall provide the following information:		2.05 - EMS Software Design And Specification, Section 8, Programming Specifications 2.05 - ICE Software Design and Specification, Section 4, Programming Specifications 2.05 - ICP Software Design And Specification, Section 34, Programming Specifications	TDP
a.	describe individual software modules and their component units, if applicable. For each module and unit, the vendor shall provide the following information: Module and unit design decisions, if any,		2.05 - ICE Software Design and Specification, Section 4, Programming Specifications	TDP
a.	describe individual software modules and their component units, if applicable. For each module and unit, the vendor shall provide the following information: Module and unit design decisions, if any, such as algorithms used		2.05 - ICE Software Design and Specification, Section 4, Programming Specifications 2.05 - ICP Software Design And Specification, Section 3.4, Programming Specifications 2.05 - ICC SoftwareDesignAndSpecification, Section 3.4, Programming Specifications	TDP
a. b.	describe individual software modules and their component units, if applicable. For each module and unit, the vendor shall provide the following information: Module and unit design decisions, if any, such as algorithms used		2.05 - ICE Software Design and Specification, Section 4, Programming Specifications 2.05 - ICP Software Design And Specification, Section 3.4, Programming Specifications 2.05 - ICC SoftwareDesignAndSpecification, Section 3.4, Programming Specifications 2.05 - EMS Software Design And Specification, Section 8.2.5, Constraints, Limitations and Unusual Features	TDP
a. b.	describe individual software modules and their component units, if applicable. For each module and unit, the vendor shall provide the following information: Module and unit design decisions, if any, such as algorithms used		2.05 - ICE Software Design and Specification, Section 4, Programming Specifications 2.05 - ICP Software Design And Specification, Section 3.4, Programming Specifications 2.05 - ICC SoftwareDesignAndSpecification, Section 3.4, Programming Specifications	TDP
a. b.	describe individual software modules and their component units, if applicable. For each module and unit, the vendor shall provide the following information: Module and unit design decisions, if any, such as algorithms used		2.05 - ICE Software Design and Specification, Section 4. Programming Specifications 2.05 - ICP Software Design And Specification, Section 3.4, Programming Specifications 2.05 - ICC SoftwareDesignAndSpecification, Section 3.4, Programming Specifications 2.05 - EMS Software Design And Specification, Section 8.2.5, Constraints, Limitations and Unusual Features 2.05 - ICE Software Design and Specification, Section 4. Programming Specifications	
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a. b. c.	describe individual software modules and their component units, if applicable. For each module and unit, the vendor shall provide the following information: Module and unit design decisions, if any, such as algorithms used Any constraints, limitations, or unusual features in the design of the software module or unit The programming language used and		2.05 - ICE Software Design and Specification, Section 4, Programming Specifications 2.05 - ICP Software Design And Specification, Section 3.4, Programming Specifications 2.05 - ICC SoftwareDesignAndSpecification, Section 3.4, Programming Specifications 2.05 - EMS Software Design And Specification, Section 8.2.5, Constraints, Limitations and Unusual Features 2.05 - ICE Software Design and Specification, Section 8.2.5 Programming Specifications 2.05 - ICP Software Design And Specification, Section 3.4, Programming Specifications 2.05 - ICC SoftwareDesignAndSpecification, Section 3.4, Programming Specifications 2.05 - EMS Software Design And Specification, Section 8.2.6, Programming Language	
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	EAC RFI 2010-03, effective date June 14,	EAC Decision on Request for Interpretation 2010-03: 2005 VVSG [Vol. II Sec. 5.4 Source Code Review, Vol. II Sec. 5.4.2 a-v Assessment of	2.05 - EMS Software Design And Specification, ff 2.05 - ICE Software Design and Specification, ff 2.05 - ICP Software Design And Specification, ff 2.05 - ICC SoftwareDesignAndSpecification, ff 2.05 - ICC SoftwareDesignAndSpecification, ff	TDP	
s	2010	Coding Conventions]; Vol. II, Sec. 2.5.7.2 d Programming Specifications Details			s
OFTWARE DESIGN AND SPECIFIC		Per EAC RFI 2010-03: Question: Shall database definition files be reviewed as source code under the guidelines found in Volume II, Section 5.7 Per EAC: "volume II, Section 5.7.2.d states: "The vendor shall provide the following information: If the software module or unit consists of, or contains, procedural commands (such as menu selections in a database management system for defining forms and reports, online queries for database access and manipulation, input to a graphical user interface builder for automated code generation, commands to the operating system, or shell scripts), a list of the procedural commands and reference to user manuals sor other documents that explain them. In order to support the evaluation required in VVSG Volume II, Section 2.5.7.2.d, the manufacturer's documentation shall clearly specify: 1. If the DDL and DML presented for evaluation are using scripts, macros or other executable code. 2. If the DDL and DML could modify the results reported by modifying the database schema	2.05 - EMS Software Design And Specification, Section 9.4, Potential Points of Attack 2.05 - ICE Software Design and Specification, Section 3.4, Potential Points of Attack 2.05 - ICP Software Design And Specification, Section 3.7, Potential Points of Attack 2.05 - ICC Software Design And Specification, Section 3.7, Potential Points of Attack 2.05 - ICC Software Design And Specification, Section 3.7, Potential Points of Attack	TDP	OFTWARE DESIGN AND SPECIFIC
A T I O N	e.	If the software module or unit contains, receives, or outputs data, a description of its inputs, outputs, and other data elements as applicable. (Subsection 2.5.9 describes the requirements for documenting system interfaces.) Data local to the software module or unit shall be described separately from data input to, or output from, the software module or unit.	2.05 - EMS Software Design And Specification, Section 8.2.6, Programming Language 2.05 - ICE Software Design and Specification, Section 4, Programming Specifications 2.05 - ICP Software Design And Specification, Section 3.4, Programming Specifications 2.05 - ICC SoftwareDesignAndSpecification, Section 3.4, Programming Specifications	TDP	A T I O N
	f.	If the software module or unit contains logic, the logic to be used by the software unit, including, as applicable:			
		Conditions in effect within the software module or unit when its execution is initiated	2.05 - EMS Software Design And Specification, Section 7.1, Configuration and Operating Modes 2.05 - ICE Software Design and Specification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICP Software Design And Specification, Section 3.4.3.1 Conditions when execution is initiated and under 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes	TDP	
		Conditions under which control is passed to other software modules or units	2.05 - EMS Software Design And Specification, Section 7.1, Configuration and Operating Modes 2.05 - ICE Software Design and Specification, Section 3.3.1, Configurations and Operating Modes 2.05 - ICP Software Design And Specification, Section 3.4.3.1 Conditions when execution is initiated and under 2.05 - ICC SoftwareDesignAndSpecification, Section 3.3.1, Configurations and Operating Modes	TDP	
		Response and response time to each input, including data conversion, renaming, and data transfer operations	2.05 - EMS SoftwareDesignAndSpecification, Section 8.2.10, Module Response and Response Time N/A - ICE N/A - ICP N/A - ICC	TDP	
		Sequence of operations and dynamically controlled sequencing during the software module's or unit's operation, including:	2.05 - EMS SoftwareDesignAndSpecification, Section 8.2.11, Module Sequence of Operation 2.05 - ICE Software Design and Specification, Section 4, Programing Specifications 2.05 - ICP Software Design and Specification, Section 3.4.3.2, Sequence of Operations N/A - ICC	TDP	
		4.i) The method for sequence control	2.05 - EMS SoftwareDesignAndSpecification, Section 8.2.11, Module Sequence of Operation 2.05 - ICE Software Design and Specification, Section 4, Programing Specifications 2.05 - ICP Software Design and Specification, Section 3.4.3.2, Sequence of Operations N/A - ICC	TDP	
		4.ii) The logic and input conditions of that method, such as timing variations, priority assignments	2.05 - EMS SoftwareDesignAndSpecification, Section 8.2.11.2, Timing Variations and Priority Assignments 2.05 - ICE Software Design and Specification, Section 4, Programing Specifications 2.05 - ICP Software Design and Specification, Section 3.4.3.2, Sequence of Operations N/A - ICC	TDP	
		4.iii) Data transfer in and out of memory	2.05 - EMS SoftwareDesignAndSpecification, Section 8.2.11.3, Data Transfer In and Out of Memory 2.05 - ICE Software Design and Specification, Section 4, Programing Specifications 2.05 - ICP Software Design and Specification, Section 3.4.3.2, Sequence of Operations N/A - ICC	TDP	
		4. iv) The sensing of discrete input signals, and timing relationships between interrupt operations within the software module or unit	2.05 - EMS SoftwareDesignAndSpecification, Section 8.2.8, Module Inputs, Outputs, and Other Data Elements 2.05 - ICE Software Design and Specification, Section 4, Programing Specifications 2.05 - ICP Software Design and Specification, Section 3.4.3.2, Sequence of Operations N/A - ICC	TDP	
		5) Exception and error handling	2.05 - EMS SoftwareDesignAndSpecification, Appendix 3, Exception Handling 2.05 - ICE Software Design and Specification, Section 4, Programing Specifications 2.05 - ICP Software Design and Specification, Section 3.4.4, Exception and Error Handling N/A - ICC	TDP	
		If the software module is a database, provide the information described in Section 2.5.8 [System Database].	2.05 - EMS SoftwareDesignAndSpecification, Section 9, System Databases 2.05 - ICE Software Design and Specification, Section 4, Programing Specifications 2.05 - ICP Software Design and Specification, Section 3.5, System Database N/A - ICC	TDP	
	VII, 2.5.8	System Database			

	The vendor shall identify and provide a	also Vol. II, 2.2.1e. System		
	diagram and narrative description of the system's databases, and any external files	Description		
	used for data input or output. The information provided shall include for			
	each database or external file: The number of levels of design and the		2.05 - EMS SoftwareDesignAndSpecification, Section 9, System Databases	
d.	names of those levels (such as conceptual, internal, logical, and physical).		2.05 - ICE Software Design and Specification, Section 6, System Database 2.05 - ICP Software Design And Specification, Section 3.5, System Database 2.05 - ICC SoftwareDesignAndSpecification, Section 3.5, System Database	TDP
b.	Design conventions and standards (which may be incorporated by reference) needed to understand the design.		2.05 - EMS SoftwareDesignAndSpecification, Section 9, System Databases 2.05 - ICE Software Design and Specification, Section 6, System Database 2.05 - ICP Software Design And Specification, Section 3.5, System Database 2.05 - ICC SoftwareDesignAndSpecification, Section 3.5, System Database	TDP
c.	Identification and description of all database entities and how they are implemented physically (e.g., tables, files).		2.05 - EMS SoftwareDesignAndSpecification, Section 9, System Databases 2.05 - ICE Software Design and Specification, Section 6, System Database 2.05 - ICP Software Design And Specification, Section 3.5, System Database 2.05 - ICC SoftwareDesignAndSpecification, Section 3.5, System Database	TDP
d.	Entity relationship diagrams and description of relationships		2.05 - EMS SoftwareDesignAndSpecification, Section 9, System Databases N/A - ICE N/A - ICP N/A - ICC	TDP
e.	Details of table, record or file contents (as applicable) to include individual data elements and their specifications,			
	1) Names/identifiers		2.05 - EMS Software Design And Specification, Section 9.2, EMS Database Data Model EMS DATA-2011-03-29-11-34-23 Database Documentation N/A - ICE N/A - ICP N/A - ICC	TDP
	2) Data type (alphanumeric, integer, etc.)		2.05 - EMS Software Design And Specification, Section 9.2, EMS Database Data Model EMS DATA-2011-03-29-11-34-23 Database Documentation N/A - ICE N/A - ICP N/A - ICC	TDP
	Size and format (such as length and punctuation of a character string)		2.05 - EMS Software Design And Specification, Section 9.2, EMS Database Data Model EMS DATA-2011-03-29-11-34-23 Database Documentation N/A - ICE N/A - ICP N/A - ICC	TDP
	Units of measurement (such as meters, dollars, nanoseconds)		2.05 - EMS Software Design And Specification, Section 9.2, EMS Database Data Model EMS DATA-2011-03-29-11-34-23 Database Documentation N/A - ICE N/A - ICP N/A - ICC	TDP
	5) Range or enumeration of possible values (such as 0-99)		2.05 - EMS Software Design And Specification, Section 9.2, EMS Database Data Model EMS DATA-2011-03-29-11-34-23 Database Documentation N/A - ICE N/A - ICP N/A - ICC	TDP
	Accuracy (how correct) and precision (number of significant digits)		2.05 - EMS Software Design And Specification, Section 9.2, EMS Database Data Model EMS DATA-2011-03-29-11-34-23 Database Documentation N/A - ICE N/A - ICP N/A - ICC	TDP
	 Priority, timing, frequency, volume, sequencing, and other constraints, such as whether the data element may be updated and whether business rules apply 		2.05 - EMS Software Design And Specification, Section 10.2.1.2, Characteristics of Individual Data Elements N/A - ICE N/A - ICP N/A - ICC	TDP
	Security and privacy constraints		2.05 - EMS Software Design And Specification, Section 9.3, File Management and Security N/A - ICE N/A - ICP N/A - ICC	TDP
	Sources (setting/sending entities) and recipients (using/receiving entities)		2.05 - EMS Software Design And Specification, Section 10.2.1.2, Characteristics of Individual Data Elements N/A - ICE N/A - ICP N/A - ICC	TDP
f.	For external files, a description of the procedures for file maintenance, management of access privileges, and security.		2.05 - EMS Software Design And Specification, Section 9.3, File Management and Security N/A - ICE N/A - ICP N/A - ICC	TDP
VII, 2.5.9	Interfaces The vendor shall identify and provide a complete description of all internal and external interfaces, using a combination of text and diagrams.	also Vol. II, 2.2.1.f. System Description	2.05 - EMS Software Design And Specification, Section 10, Interfaces 2.05 - ICE Software Design and Specification, Section 7, Interfaces 2.05 - ICP Software Design And Specification, Section 3.6, Interfaces 2.05 - ICC SoftwareDesignAndSpecification, Section 3.6, Interfaces	TDP
VII, 2.5.9.1	Interface Identification For each interface identified in the system			
a.	overview, the vendor shall: Provide a unique identifier assigned to the interface.		2.05 - EMS Software Design And Specification, Section 10, Interfaces 2.05 - ICE Software Design and Specification, Section 7, Interfaces 2.05 - ICP Software Design And Specification, Section 3.6, Interfaces 2.05 - ICC SoftwareDesignAndSpecification, Section 3.6, Interfaces	TDP

	b.	Identify the interfacing entities (systems, configuration items, users, etc.) by name, number, version, and documentation references, as applicable.		2.05 - LEMS Software Design And Specification, Section 10, Interfaces 2.05 - ICE Software Design and Specification, Section 7, Interfaces 2.05 - ICP Software Design And Specification, Section 3.6, Interfaces 2.05 - ICC SoftwareDesignAndSpecification, Section 3.6, Interfaces	TDP
1	c.	Identify which entities have fixed interface characteristics (and therefore impose interface requirements on interfacing entities) and which are being developed or modified (thus having interface requirements imposed on them).		2.05 - EMS Software Design And Specification, Section 10, Interfaces 2.05 - ICE Software Design and Specification, Section 7, Interfaces 2.05 - ICP Software Design And Specification, Section 3.6, Interfaces 2.05 - ICC SoftwareDesignAndSpecification, Section 3.6, Interfaces	TDP
	VII, 2.5.9.2	Interface Description			
		For each interface identified in the system overview, the vendor shall provide information that describes:			
	a.	The type of interface (such as real-time data transfer, storage-and-retrieval of data) to be implemented		2.05 - EMS Software Design And Specification, Section 10, Interfaces 2.05 - ICE Software Design and Specification, Section 7, Interfaces 2.05 - ICP Software Design And Specification, Section 3.6, Interfaces 2.05 - ICC SoftwareDesignAndSpecification, Section 3.6, Interfaces	TDP
	ь.	Characteristics of individual data elements that the interfacing entity(ies) will provide, store, send, access, receive, etc., such as:			
		1) Names/identifiers		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods 2.05 - ICE Software Design And Specification, Section 7, Interfaces 2.05 - ICP Software Design And Specification, Section 3.6.2, Interface Description 2.05 - ICC SoftwareDesignAndSpecification, Section 3.6.2, Interface Description	TDP
		Data type (alphanumeric, integer, etc.)		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods 2.05 - ICE Software Design And Specification, Section 7, Interfaces 2.05 - ICP Software Design And Specification, Section 3.6.2, Interface Description 2.05 - ICC SoftwareDesignAndSpecification, Section 3.6.2, Interface Description	TDP
		Size and format (such as length and punctuation of a character string)		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods 2.05 - ICE Software Design And Specification, Section 7, Interfaces 2.05 - ICP Software Design And Specification, Section 3.6.2, Interface Description 2.05 - ICC SoftwareDesignAndSpecification, Section 3.6.2, Interface Description	TDP
		Units of measurement (such as meters, dollars, nanoseconds)		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods 2.05 - ICE Software Design And Specification, Section 7, Interfaces 2.05 - ICP Software Design And Specification, Section 3.6.2, Interface Description 2.05 - ICC SoftwareDesignAndSpecification, Section 3.6.2, Interface Description	TDP
		5) Range or enumeration of possible values (such as 0-99)		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods 2.05 - ICE Software Design And Specification, Section 7, Interfaces 2.05 - ICP Software Design And Specification, Section 3.6.2, Interface Description 2.05 - ICC SoftwareDesignAndSpecification, Section 3.6.2, Interface Description	TDP
		Accuracy (how correct) and precision (number of significant digits)		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods 2.05 - ICE Software Design And Specification, Section 7, Interfaces 2.05 - ICP Software Design And Specification, Section 3.6.2, Interface Description 2.05 - ICP Software Design And Specification, Section 3.6.2, Interface Description	TDP
		7) Priority, timing, frequency, volume, sequencing, and other constraints, such as whether the data element may be updated and whether business rules apply		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods 2.05 - ICE Software Design And Specification, Section 7, Interfaces 2.05 - ICP Software Design And Specification, Section 3.6.2, Interface Description 2.05 - ICC SoftwareDesignAndSpecification, Section 3.6.2, Interface Description	TDP
		8) Security and privacy constraints		2.05 - EMS Software Design And Specification, Section 9.4, Potential Points of Attack 2.05 - ICE Software Design and Specification, Section 3.4, Potential Points of Attack 2.05 - ICP Software Design And Specification, Section 3.7, Potential Points of Attack 2.05 - ICC Software Design And Specification, Section 3.7, Potential Points of Attack	TDP
		Sources (setting/sending entities) and recipients (using/receiving entities)		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods 2.05 - ICE Software Design And Specification, Section 7, Interfaces 2.05 - ICP Software Design And Specification, Section 3.6, Interfaces 2.05 - ICC Software Design And Specification, Section 3.6, Interfaces	TDP
	c.	Characteristics of communication methods that the interfacing entity(ies) will use for the interface, such as:			
		Communication links/bands/frequencies/media and their characteristics		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods . N/A for ICE N/A for ICC	TDP
		2) Message formatting		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods . N/A for ICE N/A for ICP N/A for ICC	TDP
		Flow control (such as sequence numbering and buffer allocation)		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods N/A for ICE N/A for ICP N/A for ICC	TDP
		Data transfer rate, whether periodic/aperiodic, and interval between transfers		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods N/A for ICE N/A for ICP N/A for ICC	TDP
		5) Routing, addressing, and naming conventions		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods N/A for ICE N/A for ICP N/A for ICC	TDP
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	Transmission services, including priority and grade		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods N/A for ICE N/A for ICP N/A for ICC	TDP
	7) Safety/security/privacy considerations, such as encryption, user authentication, compartmentalization, and auditing		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods N/A for ICE N/A for ICP N/A for ICC	TDP
d.	Characteristics of protocols the interfacing entity(ies) will use for the interface, such			
	as: 1) Priority/layer of the protocol		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods N/A for ICE N/A for ICP N/A for ICC	TDP
	Packeting, including fragmentation and reassembly, routing, and addressing		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods N/A for ICE N/A for ICP N/A for ICC	TDP
	Legality checks, error control, and recovery procedures		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods N/A for ICE N/A for ICP N/A for ICC	TDP
	Synchronization, including connection establishment, maintenance, termination		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods N/A for ICE N/A for ICP N/A for ICC	TDP
	5) Status, identification, and any other reporting features		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods N/A for ICE N/A for ICP N/A for ICC	TDP
e.	Other characteristics, such as physical compatibility of the interfacing entity(ies) (such as dimensions, tolerances, loads, voltages and plug compatibility)		2.05 - EMS Software Design And Specification, Section 10.2.2.3, Characteristics of Communication Methods N/A for ICE N/A for ICP N/A for ICC	TDP
VII, 2.5.10				
	The vendor may provide descriptive material and data supplementing the various sections of the body of the Software Specifications. The content and arrangement of appendices shall be at the discretion of the vendor. Topics recommended for amplification or			
a.	Glossary: A listing and brief definition of all software module names and variable names, with reference to their locations in the software structure. Abbreviations, acronyms, and terms should be included, if they are either uncommon in data processing and software development or are used in an unorthodox semantic.	,	2.05 - EMS Software Design And Specification, Appendix 1, Glossary 2.05 - ICE Software Design and Specification, Section 8, Glossary 2.05 - ICP Software Design And Specification, Appendix G, Glossary None - 2.05 - ICC SoftwareDesignAndSpecification	TDP
b.	References: A list of references to all related vendor documents, data, standards, and technical sources used in software development and testing.		2.05 - EMS Software Design And Specification, Appendix 2, Reference Documentation None - 2.05 - ICE Software Design and Specification None - 2.05 - ICP Software Design And Specification None - 2.05 - ICC SoftwareDesignAndSpecification	TDP
c.	Program Analysis: The results of software configuration analysis algorithm analysis and selection, timing studies, and hardware interface studies that are reflected in the final software design and codine		2.05 - EMS Software Design And Specification, Appendix 3, Exception Handling 2.05 - ICE Software Design and Specification, Appendixes None - 2.05 - ICP Software Design And Specification None - 2.05 - ICC SoftwareDesignAndSpecification	TDP
VII, 2.6	System Security Specification Vendors shall submit a system security specification that addresses the security requirements of Volume I, Section 7. This specification shall describe the level of security provided by the system in terms of the specific security risks addressed by the system, the means by which each risk is addressed, the process used to test and verify the effective operation of security capabilities and, for systems that use public telecommunications networks as defined in Volume I, Section 6, the means used to keep the security capabilities of the system current to respond to the evolving threats against these systems.	Vol. I, Sec. / Security	2.06 - Democracy Suite System Security Specification	TDP
	Information provided by the vendor in this section of the TDP may be duplicative of information required by other sections. Vendors may cross-reference to information provided in other sections provided that the means used provides a clear mapping to the requirements of this section.		2.06 - Democracy Suite System Security Specification	TDP
VII, 2.6.1	The Security Specification shall contain the sections identified below.			
v11, 4.0.1	Access Control Policy			

	VII. 2.6.2	The vendor shall specify the features and capabilities of the access control policy recommended to purchasing jurisdictions to provide effective voting system security. The access control policy shall address the general features and capabilities and individual access privileges indicated in Volume 1, Subsection 7.2. [Access Control Measures The vendor shall provide a detailed description of all system access control measures and mandatory procedures designed to permit access to system states in accordance with the access policy, and to prevent all other types of access to meet the specific requirements of Volume I, Subsection 7.2.	also Vol. 1, 7.2.1 Security Requirements, General Access Control Policy; also Vol. 1, 7.2.1.1 Individual Access Privileges also Vol. 1, 7.2.1.2 Access Control Measures	2.06 - Democracy Suite System Security Specification, Section 4, Access Control Policy and Measures 2.06 - Democracy Suite System Security Specification, Section 4, Access Control Policy and Measures	TDP	
		The vendor also shall define and provide a detailed description of the methods used to preclude unauthorized access to the access control capabilities of the system itself.	also Vol. I, 7.2.1.2 Access Control Measures	2.06 - Democracy Suite System Security Specification, Section 4, Access Control Policy and Measures	TDP	
	VII, 2.6.3	Equipment and Data Security The vendor shall provide a detailed description of system capabilities and mandatory procedures for purchasing jurisdictions to prevent disruption of the voting process and corruption of voting data to meet the specific requirements of Volume I, Subsection 7.3. [Physical Security Measures] This information shall address measures for polling place security and central count location	Vol. I, 7.3.1 Physical Security Requirements, Polling Place Security, also Vol. 1, 7.3-7.3.2 Physical Security Measures	2.06 - Democracy Suite System Security Specification, Section 5, Equipment and Data Security	TDP	
S Y S T E M	VII, 2.6.4	Software Installation The vendor shall provide a detailed description of the system capabilities and mandatory procedures for purchasing jurisdictions to ensure secure software (including firmware) installation to meet the specific requirements of Volume I, Subsection 7.4 [Software Security] This information shall address software installation for all system components.	also Vol. I, 7.4-7.4.6 Software Security	2.06 - Democracy Suite System Security Specification, Section 6, Software Installation	ТЪР	S Y S T E M
S	VII, 2.6.5	Telecommunications and Data Transmission Security				S
CURITY		The vendor shall provide a detailed description of the system capabilities and mandatory procedures for purchasing jurisdictions to ensure secure data transmission to meet the specific requirements of Volume I, Subsection 7.5: [Telecommunications and Data Transmission].	Vol. 1, 7.5.2 b. Security Requirements, Telecommunications and Data Transmission, Protection Against External Threats	2.06 - Democracy Suite System Security Specification, Section 7, Telecommunications, Data Transmission and Public Communication	TDP	CURITYS
PECIFI	a.	For all systems, this information shall address access control, and prevention of data interception.	also Vol. 1, 7.5.3 Security Requirements, Telecommunications and Data Transmission, Monitoring and Responding to External Threats	2.06 - Democracy Suite System Security Specification, Section 7, Telecommunications, Data Transmission and Public Communication	TDP	PECIFI
CATION	b.	For systems that use public communications networks as defined in Volume I, Section 6 [Telecommunications Requirements], this information shall also include:	Vol. 1, 7.6.2.1 Security Requirements, Use of Public Communications Networks, Documentation of Mandatory Security Activities: also Vol. 1, 7.5.2 Protection Against External Threats; also Vol. 1, 7.5.3 Monitoring and Monitoring to External Threats Wireless: Vol. 1, 7.7.1 Controlling Usage, 7.7.2 Identifying Usage			CATION
		 Capabilities used to provide protection against threats to third party products and services. 		2.06 - Democracy Suite System Security Specification, Section 7, Telecommunications, Data Transmission and Public Communication	TDP	1
		ii. Policies and processes used by the vendor to ensure that such protection is updated to remain effective over time.		2.06 - Democracy Suite System Security Specification, Section 7, Telecommunications, Data Transmission and Public Communication	TDP	
		iii. Policies and procedures used by the vendor to ensure that current versions of such capabilities are distributed to user jurisdictions and are installed effectively by the jurisdiction.		2.06 - Democracy Suite System Security Specification, Section 7, Telecommunications, Data Transmission and Public Communication	TDP	
		iv. A detailed description of the system capabilities and procedures to be employed by the jurisdiction to diagnose the occurrence of a denial of service attack, to use an alternate method of voting, to determine when it is appropriate to resume voting over the network, and to consolidate votes cast using the alternate method.		2.06 - Democracy Suite System Security Specification, Section 7, Telecommunications, Data Transmission and Public Communication	TDP	

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	 A detailed description of all activities to be performed in setting up the system for operation that are mandatory to ensur effective system security, including testin of security before an election. 		2.06 - Democracy Suite System Security Specification, Section 7, Telecommunications, Data Transmission and Public Communication	TDP
	vi. A detailed description of all activities that should be prohibited during system setup and during the timeframe for voting operations, including both the hours when polls are open and when polls are closed.		2.06 - Democracy Suite System Security Specification, Section 7, Telecommunications, Data Transmission and Public Communication	TDP
VII,	I, 2.6.6 Other Elements of an Effective			
 	Security Program The vendor shall provide a detailed			
	description of the following additional procedures required for use by the			
_	purchasing jurisdiction:		200 December 1 Control	
a.	Administrative and management controls for the voting system and election management, including access controls.		2.06 - Democracy Suite System Security Specification, Section 9, Other Elements of an Effective Security Program	TDP
b.	Internal security procedures, including operating procedures for maintaining the security of the software for each system function and operating mode.		2.06 - Democracy Suite System Security Specification, Section 9, Other Elements of an Effective Security Program	TDP
c.	Adherence to, and enforcement of, operational procedures (e.g., effective password management).		2.06 - Democracy Suite System Security Specification, Section 9, Other Elements of an Effective Security Program	TDP
d.	Physical facilities and arrangements.		2.06 - Democracy Suite System Security Specification, Section 9, Other Elements of an Effective Security Program	TDP
e.	Organizational responsibilities and	1	2.06 - Democracy Suite System Security Specification, Section 9, Other Elements of an Effective Security Program	TDP
	personnel screening. This documentation shall be prepared sue that these requirements can be integrated by the jurisdiction into local administrative and operating procedures.	h	2.06 - Democracy Suite System Security Specification, Section 9, Other Elements of an Effective Security Program	TDP
VII,	I, 2.7 System Test and Verification			
	Specification The vendor shall provide test ar	d		
	verification specifications for:		207 December Scite Courter Transpill Victories	
	Development test specifications		2.07 - Democracy Suite System Test and Verification 2.07 - SystemTestAndVerificationTestSuites ICP_MillionBallotScanTest ImageCast Evolution Usability Study ImageCastUsabilityStudy PCOS_300B_ImageCAST_Precinct_Manufacturing_Test_Procedure ReadinessTestProcedures	TDP
	National certification test specifications		2.07 - Democracy Suite System Test and Verification, Section 2.2, National Certification Test Specifications	TDP
VII,	I, 2.7.1 Development Test Specifications The vendor shall describe the plan procedures, and data used during softward development and system integration	re		
	verify system logic correctness, da quality, and security. This description shall include:			
a.	quality, and security. This description shall include: Test identification and design, including:			
a.	quality, and security. This description		2.07 - Democracy Suite System Test and Verification, Section 2.1.1.1, Test Structure	TDP S
a. S Y S	quality, and security. This description shall include: Test identification and design, including:		2.07 - Democracy Suite System Test and Verification, Section 2.1.1.1, Test Structure 2.07 - Democracy Suite System Test and Verification, Section 2.1.1.2, Test Sequence or Progression	TDP S Y
Т	quality, and security. This description shall include: Test identification and design, including: 1) Test structure			TDP S
a. S Y S T E M b.	quality, and security. This description shall include: Test identification and design, including: 1) Test structure 2) Test sequence or progression 3) Test conditions	n	2.07 - Democracy Suite System Test and Verification, Section 2.1.1.2, Test Sequence or Progression	TDP S TDP E
т Е М b.	quality, and security. This description shall include: Test identification and design, including: 1) Test structure 2) Test sequence or progression 3) Test conditions Standard test procedures, including an assumptions or constraints	n y	2.07 - Democracy Suite System Test and Verification, Section 2.1.1.2, Test Sequence or Progression 2.07 - Democracy Suite System Test and Verification, Section 2.1.1.3, Test Conditions 2.07 - Democracy Suite System Test and Verification, Section 2.1.2, Standard Test Procedures	TDP STDP E
T E b.	quality, and security. This description shall include: Test identification and design, including: 1) Test structure 2) Test sequence or progression 3) Test conditions Standard test procedures, including an assumptions or constraints Special purpose test procedures including any assumptions or constraints	n y	2.07 - Democracy Suite System Test and Verification, Section 2.1.1.2, Test Sequence or Progression 2.07 - Democracy Suite System Test and Verification, Section 2.1.1.3, Test Conditions 2.07 - Democracy Suite System Test and Verification, Section 2.1.2, Standard Test Procedures 2.07 - Democracy Suite System Test and Verification, Section 2.1, Development Test Specifications	TDP S TDP E TDP TDP E TDP S
T E b. T c. E S T	quality, and security. This description include: Test identification and design, including: 1) Test structure 2) Test sequence or progression 3) Test conditions Standard test procedures, including an assumptions or constraints Special purpose test procedures including any assumptions or constraints Test data; including the data source, whether it is real or simulated, and how test data are controlled	n y	2.07 - Democracy Suite System Test and Verification, Section 2.1.1.2, Test Sequence or Progression 2.07 - Democracy Suite System Test and Verification, Section 2.1.1.3, Test Conditions 2.07 - Democracy Suite System Test and Verification, Section 2.1.2, Standard Test Procedures 2.07 - Democracy Suite System Test and Verification, Section 2.1, Development Test Specifications 2.07 - Democracy Suite System Test and Verification, Section 2.1.4, Test Data	TDP S TDP E TDP TDP TDP TDP TDP TDP TDP TDP TDP
T E b.	quality, and security. This description shall include: Test identification and design, including: 1) Test structure 2) Test sequence or progression 3) Test conditions Standard test procedures, including an assumptions or constraints Special purpose test procedures including any assumptions or constraints Test data; including the data source, whether it is real or simulated, and how	n y	2.07 - Democracy Suite System Test and Verification, Section 2.1.1.2, Test Sequence or Progression 2.07 - Democracy Suite System Test and Verification, Section 2.1.1.3, Test Conditions 2.07 - Democracy Suite System Test and Verification, Section 2.1.2, Standard Test Procedures 2.07 - Democracy Suite System Test and Verification, Section 2.1, Development Test Specifications	TDP S TDP E TDP TDP TDP S
T E b. T c. E S T d. A e.	quality, and security. This description shall include: Test identification and design, including: 1) Test structure 2) Test sequence or progression 3) Test conditions Standard test procedures, including an assumptions or constraints Special purpose test procedures including any assumptions or constraints Test data; including the data source, whether it is real or simulated, and how test data are controlled Expected test results Criteria for evaluating test results	n y	2.07 - Democracy Suite System Test and Verification, Section 2.1.1.2, Test Sequence or Progression 2.07 - Democracy Suite System Test and Verification, Section 2.1.1.3, Test Conditions 2.07 - Democracy Suite System Test and Verification, Section 2.1.2, Standard Test Procedures 2.07 - Democracy Suite System Test and Verification, Section 2.1, Development Test Specifications 2.07 - Democracy Suite System Test and Verification, Section 2.1.4, Test Data	TDP S TDP S TDP TDP E TDP
T E b. T c. d. A e. D f. V E R I F I C	quality, and security. This description shall include: Test identification and design, including: 1) Test structure 2) Test sequence or progression 3) Test conditions Standard test procedures, including an assumptions or constraints Special purpose test procedures including any assumptions or constraints Test data; including the data source, whether it is real or simulated, and how test data are controlled Expected test results	y	2.07 - Democracy Suite System Test and Verification, Section 2.1.1.2, Test Sequence or Progression 2.07 - Democracy Suite System Test and Verification, Section 2.1.1.3, Test Conditions 2.07 - Democracy Suite System Test and Verification, Section 2.1.2, Standard Test Procedures 2.07 - Democracy Suite System Test and Verification, Section 2.1, Development Test Specifications 2.07 - Democracy Suite System Test and Verification, Section 2.1.4, Test Data 2.07 - Democracy Suite System Test and Verification, Section 2.1.5, Expected Test Results	TDP S TDP E TDP TDP T
T E M b. T c. S d. A e. N D f. V E R I F I C A VII.	quality, and security. This description shall include. Test identification and design, including: 1) Test structure 2) Test sequence or progression 3) Test conditions Standard test procedures, including an assumptions or constraints Special purpose test procedures including any assumptions or constraints Test data; including the data source, whether it is real or simulated, and how test data are controlled Expected test results Criteria for evaluating test results Additional details for these requirements are provided by MIL-STD-498, Software Test Plan and Software Test Description. In the event that test data are not available, the accredited test lab shall design test cases and procedures equivalent to those ordinarily used during product verification. 1, 2.7.2 National Certification Test	y	2.07 - Democracy Suite System Test and Verification, Section 2.1.1.2, Test Sequence or Progression 2.07 - Democracy Suite System Test and Verification, Section 2.1.1.3, Test Conditions 2.07 - Democracy Suite System Test and Verification, Section 2.1.2, Standard Test Procedures 2.07 - Democracy Suite System Test and Verification, Section 2.1, Development Test Specifications 2.07 - Democracy Suite System Test and Verification, Section 2.1.4, Test Data 2.07 - Democracy Suite System Test and Verification, Section 2.1.5, Expected Test Results	TDP ST TDP ST TDP M M TDP ST T
T E S d. T C. E S T V E R I F I C C	quality, and security. This description shall include. Test identification and design, including: 1) Test structure 2) Test sequence or progression 3) Test conditions Standard test procedures, including an assumptions or constraints Special purpose test procedures including any assumptions or constraints Test data; including the data source, whether it is real or simulated, and how test data are controlled Expected test results Criteria for evaluating test results Additional details for these requirements are provided by MIL-STD-498, Software Test Plan and Software Test Description. In the event that test data are not available, the accredited test lab shall design test cases and procedures equivalent to those ordinarily used during product verification.	y y	2.07 - Democracy Suite System Test and Verification, Section 2.1.1.2, Test Sequence or Progression 2.07 - Democracy Suite System Test and Verification, Section 2.1.1.3, Test Conditions 2.07 - Democracy Suite System Test and Verification, Section 2.1.2, Standard Test Procedures 2.07 - Democracy Suite System Test and Verification, Section 2.1, Development Test Specifications 2.07 - Democracy Suite System Test and Verification, Section 2.1.4, Test Data 2.07 - Democracy Suite System Test and Verification, Section 2.1.5, Expected Test Results	TDP S TDP E TDP TDP T
T E	quality, and security. This description in the control of the cont	y y	2.07 - Democracy Suite System Test and Verification, Section 2.1.1.2, Test Sequence or Progression 2.07 - Democracy Suite System Test and Verification, Section 2.1.1.3, Test Conditions 2.07 - Democracy Suite System Test and Verification, Section 2.1.2, Standard Test Procedures 2.07 - Democracy Suite System Test and Verification, Section 2.1, Development Test Specifications 2.07 - Democracy Suite System Test and Verification, Section 2.1.4, Test Data 2.07 - Democracy Suite System Test and Verification, Section 2.1.5, Expected Test Results	TDP S TDP S TDP S TDP S TDP S TDP M TDP E E S TDP T TDP S TDP T TDP I TD
T E D D D D D D D D D D D D D D D D D D	quality, and security. This description shall include: Test identification and design, including: 1) Test structure 2) Test sequence or progression 3) Test conditions Standard test procedures, including an assumptions or constraints Special purpose test procedures including any assumptions or constraints Test data; including the data source, whether it is real or simulated, and how test data are controlled Expected test results Criteria for evaluating test results Additional details for these requirements are provided by MIL-STD-498, Software Test Plan and Software Test Description. In the event that test data are not available, the accredited test lab shall design test cases and procedures equivalent to those ordinarily used during product verification. I, 2.7.2 National Certification Test Specifications The vendor shall provide specifications feverification and validation of overall software performance. These specifications shall cover:	y y	2.07 - Democracy Suite System Test and Verification, Section 2.1.1.2, Test Sequence or Progression 2.07 - Democracy Suite System Test and Verification, Section 2.1.1.3, Test Conditions 2.07 - Democracy Suite System Test and Verification, Section 2.1.2, Standard Test Procedures 2.07 - Democracy Suite System Test and Verification, Section 2.1, Development Test Specifications 2.07 - Democracy Suite System Test and Verification, Section 2.1.4, Test Data 2.07 - Democracy Suite System Test and Verification, Section 2.1.5, Expected Test Results 2.07 - Democracy Suite System Test and Verification, Section 2.1.6, Criteria for Evaluating Test Results	TDP
T E C. E S d. A e. N D f. V E R I I F I C C A T I I O N a.	quality, and security. This description includes that lincludes. Test identification and design, including: 1) Test structure 2) Test sequence or progression 3) Test conditions Standard test procedures, including an assumptions or constraints. Special purpose test procedures including any assumptions or constraints. Test data; including the data source, whether it is real or simulated, and how test data are controlled. Expected test results. Criteria for evaluating test results. Additional details for these requirements are provided by MIL-STD-498, Software Test Plan and Software Test Description. In the event that test data are not available, the accredited test lab shall design test cases and procedures equivalent to those ordinarily used during product verification. It, 2.7.2. National Certification Test Snecifications. The vendor shall provide specifications for verification and validation of overall software performance. These specifications shall cover: Control and data input/output	y y	2.07 - Democracy Suite System Test and Verification, Section 2.1.1.2, Test Sequence or Progression 2.07 - Democracy Suite System Test and Verification, Section 2.1.1.3, Test Conditions 2.07 - Democracy Suite System Test and Verification, Section 2.1.2, Standard Test Procedures 2.07 - Democracy Suite System Test and Verification, Section 2.1, Development Test Specifications 2.07 - Democracy Suite System Test and Verification, Section 2.1.4, Test Data 2.07 - Democracy Suite System Test and Verification, Section 2.1.5, Expected Test Results 2.07 - Democracy Suite System Test and Verification, Section 2.1.6, Criteria for Evaluating Test Results 2.07 - Democracy Suite System Test and Verification, Section 2.1.6, Criteria for Evaluating Test Results	TDP S TDP S TDP S TDP S TDP S TDP M TDP E E S TDP T TDP S TDP T TDP I TD

e. f. g. h.	Data quality assessment and maintenance Ballot interpretation logic Exception handling Security	Vol. 1, 7.9.3 e, VVPAT Requirements, Electronic and Paper Record Storage	2.07 - Democracy Suite System Test and Verification, Section 2.2.4, Data Quality Assessment and Maintenance 2.07 - Democracy Suite System Test and Verification, Section 2.2.5, Ballot Interpretation Logic	TDP
f. g. h.	Exception handling	Requirements, Electronic	2.07 - Democracy Suite System Test and Vertication, Section 2.2.3, Bailot interpretation Logic	TDP
g. h.				
h.	Security		2.07 - Democracy Suite System Test and Verification, Section 2.2.6, Exception Handling	TDP
			2.07 - Democracy Suite System Test and Verification, Section 2.2.7, Security	TDP
	Production of audit trails and statistical		2.07 - Democracy Suite System Test and Verification, Section 2.2.8, Production of Audit Trails and Statistical Data, ff	TDP
	data The specifications shall identify		2.07 - SystemTestAndVerificationTestSuites	IDF
	procedures for assessing and demonstrating the suitability of the		2.07 - systemi estanu verincationi resistutes	TDP
VII, 2.8	System Operations Procedures			
	This documentation shall provide all information necessary for system use by all personnel who support pre-election and election preparation, polling place activities and central counting activities, as applicable, with regard to all system functions and operations identified in Subsection 2.3 above [Ballot Prep. Prep. of Elecspecific software/firmware; ballot installation and ballot counting software; system and equip. tests; all polling place operations by voters and officials including status message generation; closing the polling place; reports by voting machine, polling place, precinct; consolidated reports; reports of audit trails]. The nature of the instructions for operating personnel will depend upon the overall system design and required skill level of system operations support personnel.		2.08 - ICE System Operation Procedures 2.08 - ICE System Operation Procedures 2.08 - ICE System Operation Procedures 2.08 - ICP System Operation Procedures Audio Studio User Manual Canon DRX10C User Manual Democracy Suite EMS EED Users Guide Democracy Suite EMS ETR User Manual Democracy Suite EMS ETR User Manual Democracy Suite EMS ETR User Manual Democracy Suite System ID Guide ICE Technical Guide ICE Technical Guide List of Permission Errors within EMS EED and RTR RTR User Manual	TDP
	The system operations procedures shall contain all information that is required for the preparation of detailed system operating procedures, and for operator training, as described below.		2.08 - EMS System Operation Procedures 2.08 - ICE System Operation Procedures 2.08 - ICE System Operation Procedures 2.08 - ICF System Operation Procedures 2.08 - ICF System Operation Procedures Audio Studio User Manual Canon DRX10C User Manual Democracy Suite EMS EED Users Guide Democracy Suite EMS RTR User Manual Democracy Suite System ID Guide ICE Technical Guide ICF Technical Guide	TDP
/II, 2.8.1	Introduction			
	The vendor shall provide a summary of system operating functions and modes, in sufficient detail to permit understanding of the system's capabilities and constraints.	Vol. I, 2.5.1 System Audit	2.08 - EMS System Operation Procedures, Section 2.1, The Democracy Suite EMS Operational Environment 2.08 - ICE System Operation Procedures, Section 2.3, ImageCastTM Evolution System Operating Functions 2.08 - ICC System Operation Procedures, Section 2, Operational Environment 2.08 - ICP System Operation Procedures, Section 2.3, ImageCastTM Precinct System Operating Functions	TDP
	The roles of operating personnel shall be identified and related to the operating modes of the system.		2.08 - EMS System Operation Procedures, Section 1.2, Purpose and Scope 2.08 - ICE System Operation Procedures, Section 2.5, Roles of Operating Personnel 2.08 - ICC System Operation Procedures, Section 1.2, Purpose and Scope 2.08 - ICP System Operation Procedures, Section 1.2, Purpose and Scope	TDP
	Decision criteria and conditional operator functions (such as error and failure recovery actions) shall be described.		2.08 - EMS System Operation Procedures, Section 2.4.2, Failure Recovery 2.08 - ICE System Operation Procedures, Section 2.5.5, Decision Criterion and Conditional Operator Functions 2.08 - EMS System Operation Procedures, if 2.08 - ICP System Operation Procedures, Section 2.5.5, Decision Criterion and Conditional Operator Functions	TDP
	The vendor shall also list all reference and supporting documents pertaining to the use of the system during election operations.		2.08 - EMS System Operation Procedures, Appendix B, References 2.08 - ICC System Operation Procedures, Appendix B, References 2.08 - ICC System Operation Procedures, Section 2, Operational Environment 2.08 - ICP System Operation Procedures, Section 2, Introduction	TDP
	Operational Environment The vendor shall describe the system environment, and the interface between the user or operator and the system. The vendor shall identify all facilities, firmishings, fixtures, and utilities that will be required for equipment operations, including equipment that operates at the:			
	Polling place		N/A - EMS 2.08 - ICE System Operation Procedures, Section 3.2 Requirements at Polling Place N/A - ICC 2.08 - ICP System Operation Procedures, Section 3.2, Requirements at Polling Place	TDP
).	Central count facility		2.08 - EMS System Operation Procedures, Section 1.2, Purpose and Scope N/A - ICE 2.08 - ICC System Operation Procedures, Section 2.1, Requirements at Central Counting Place for Central Counters N/A - ICP	TDP
).	Other locations		2.08 - EMS System Operation Procedures, Section 3, Operational Environment 2.08 - ICE System Operation Procedures, Section 3, Operational Environment 2.08 - ICC System Operation Procedures, Section 2, Operational Environment 2.08 - ICP System Operation Procedures, Section 3, Operational Environment	TDP

	The vendor shall provide specifications for	also Vol. 1, 5, 1, 1 Software		
	validation of system installation,	Requirements, Software Sources		
	acceptance, and readiness. These specifications shall address all	Sources		
	components of the system and all locations			
	of installation (e.g., polling place, central count facility), and shall address all			
	elements of system functionality and			
	operations identified in Subsection 2.3			
a.	Pre-voting functions	Vol. I, 2.2.3 Ballot and	2.08 - EMS System Operation Procedures, Section 2, EMS System Overview, ff	
		Program Installation and Control	2.08 - ICE System Operation Procedures, Section 4.1, Pre-Voting Functions 2.08 - ICC System Operation Procedures, Section 3, System Installation and Test Specification 2.08 - ICP System Operation Procedures, Section 4.1, Pre-Voting Functions	TDP
b.	Voting functions		N/A - EMS	
			2.08 - ICE System Operation Procedures, Section 4.2, Voting Functions 2.08 - ICC System Operation Procedures, Section 3, System Installation and Test Specification 2.08 - ICP System Operation Procedures, Section 4.2, Voting Functions	TDP
c.	Post-voting functions		2.08 - EMS System Operation Procedures, Section 2, EMS System Overview, ff	
			2.08 - ICE System Operation Procedures, Section 4.3 Post-Voting Functions 2.08 - ICC System Operation Procedures, Section, Section 3, System Installation and Test Specification 2.08 - ICP System Operation Procedures, Section 4.3 Post-Voting Functions	TDP
d.	General capabilities		2.08 - EMS System Operation Procedures, Section 2, EMS System Overview, ff	
			2.08 - ICE System Operation Procedures, Section 4.4, General Functions 2.08 - ICC System Operation Procedures, Section, Section 3.3, General Functions 2.08 - ICP System Operation Procedures, Section 4.4, General Functions	TDP
VII, 2.8.4	Operational Features			
	The vendor shall provide documentation			
	of system operating features that meets the following requirements:			
a.	A detailed description of all input, output,		2.08 - EMS System Operation Procedures, Section 5, Operational Features	
	control, and display features accessible to the operator or voter		2.08 - ICE System Operation Procedures, Section 5, Operational Features 2.08 - ICC System Operation Procedures, Section, Section 5, Operating Features and Procedures 2.08 - ICP System Operation Procedures, Section 5, Operational Features	TDP
b.	Examples of simulated interactions to facilitate understanding of the system and		2.08 - EMS System Operation Procedures, Section 5, Operational Features 2.08 - ICE System Operation Procedures, Section 5, Operational Features	TDP
	its capabilities		2.08 - ICC System Operation Procedures, Section, Section 5, Operating Features and Procedures 2.08 - ICP System Operation Procedures, Section 5, Operational Features	IDF
c.	Sample data formats and output reports	Vol. II, 2.1 Desc. Of the TDP, Scope	2.08 - EMS System Operation Procedures, Section 5, Operational Features 2.08 - ICE System Operation Procedures, Section 5, Operational Features	
		Vol. I, 2.1.6 g. Election Management System	2.08 - ICC System Operation Procedures, Section, Section 5, Operating Features and Procedures 2.08 - ICP System Operation Procedures, Section 5, Operational Features	TDP
d.	Illustrate and describe all status indicators and information messages		2.08 - ICE System Operation Procedures, Section 5, Operational Features 2.08 - ICE System Operation Procedures, Section 5, Operational Features 2.08 - ICC System Operation Procedures, Section, Section 5, Operating Features and Procedures 2.08 - ICP System Operation Procedures, Section 5, Operational Features	TDP
VII, 2.8.5	Operating Procedures			
	The vendor shall provide documentation of system operating procedures that meets the following requirements:	also Vol. I, 5.1.1 Software Requirements, Software Sources		
a.	Provides a detailed description of procedures required to initiate, control, and verify proper system operation.		2.08 - ICE System Operation Procedures, ff 2.08 - ICE System Operation Procedures, Section 6.1, System Start-up 2.08 - ICC System Operation Procedures, Section 5.1, System Setup and Configuration 2.08 - ICP System Operation Procedures, Section 6.1, System Start-up	TDP
b.	Provides procedures that clearly enable the operator to assess the correct flow of system functions (as evidenced by system- generated status and information		2.08 - EMS System Operation Procedures, ff 2.08 - ICE System Operation Procedures, Section 6.2, System Operation 2.08 - ICC System Operation Procedures, Section 2, Operational Environment 2.08 - ICP System Operation Procedures, Section 6.2, System Operation	TDP
c.	messages). Provides procedures that clearly enable the operator to intervene in system operations to recover from an abnormal system state.		2.08 - EMS System Operation Procedures, ff 2.08 - ICE System Operation Procedures, Section 6.2, System Operation 2.08 - ICC System Operation Procedures, Section 2, Operational Environment 2.08 - ICP System Operation Procedures, Section 6.2, System Operation	TDP
d.	Defines and illustrates the procedures and system prompts for situations where operator intervention is required to load, initialize, and start the system.		2.08 - EMS System Operation Procedures, ff 2.08 - ICE System Operation Procedures, Section 6.2, System Operation 2.08 - ICC System Operation Procedures, Section 2, Operational Environment 2.08 - ICP System Operation Procedures, Section 6.2, System Operation	TDP
e.	Defines and illustrates procedures to enable and control the external interface to the system operating environment if supporting hardware and software are involved. Such information also shall be provided for the interaction of the system with other data processing systems or data interchange protocols.		2.08 - EMS System Operation Procedures, ff 2.08 - ICE System Operation Procedures, Section 6.3, External Interface Controls 2.08 - ICC System Operation Procedures, Section 2.2, External Interface Controls 2.08 - ICP System Operation Procedures Section 6.3, External Interface Controls	TDP
f.	Provides administrative procedures and off line operator duties (if any) if they relate to the initiation or termination of system operations, to the assessment of system status, or to the development of an audit trail		2.08 - EMS System Operation Procedures, ff 2.08 - ICE System Operation Procedures, Section 6.5, Administrative Procedures and Off-line Duties 2.08 - ICC System Operation Procedures, Section 5.2, Administration Mode 2.08 - ICP System Operation Procedures, Section 6.5, Administrative Procedures and Off-line Duties	TDP
ej.	Supports successful ballot and program installation and control by election officials, provides a detailed work plan or other form of documentation providing a schedule and steps for the software and ballot installation, which includes a table outlining the key dates, events and deliverables.	also Vol. I, 2.2.3 a. Pre- Voting Capabilities, Ballot and Program Installation and Control	2.08 - EMS System Operation Procedures, ff 2.08 - ICE System Operation Procedures, Section 6.6, Ballot and Program Installation & System Configuration 2.08 - ICC System Operation Procedures, Section 3.1, System Setup and Configuration 2.08 - ICP System Operation Procedures, Section 6.6, Ballot and Program Installation & System Configuration	TDP

h. VII, 2.8.6	Supports diagnostic testing, specifies diagnostic tests that may be employed to identify problems in the system, verifies the correction of maintenance problems; and isolates and diagnoses faults from various system states. Operations Support	2.08 - EMS System Operation Procedures, ff 2.08 - ICE System Operation Procedures, Section 6.7, Diagnostic Testing 2.08 - ICC System Operation Procedures, Section 3.2, Logic and Accuracy Testing 2.08 - ICP System Operation Procedures, Section 6.7, Diagnostic Testing	TDP
V11, 21010	The vendor shall provide documentation of system operating procedures that meets the following requirements:		
a.	Defines the procedures required to support system acquisition, installation, and readiness testing. These procedures may be provided by reference, if they are contained either in the system hardware specifications, or in other vendor documentation	2.08 - EMS System Operation Procedures, Section 7, Operations Support 2.08 - ICE System Operation Procedures, Section 7, Operations Support 2.08 - ICC System Operation Procedures, Section 6, Operations Support 2.08 - ICP System Operation Procedures, Section 7, Operations Support	TDP
b.	Describes procedures for providing technical support, system maintenance and correction of defects, and for incorporating hardware upgrades and new software releases.	2.08 - EMS System Operation Procedures, Section 7, Operations Support 2.08 - ICE System Operation Procedures, Section 7, Operations Support 2.08 - ICC System Operation Procedures, Section 6, Operations Support 2.08 - ICP System Operation Procedures, Section 7, Operations Support	TDP
VII, 2.8.7	Appendices The vendor may provide descriptive material and data supplementing the various sections of the body of the System Operations Manual. The content and arrangement of appendices shall be at the discretion of the vendor. Topics recommended for discussion include:		
a.	Glossary: A listing and brief definition of all terms that may be unfamiliar to persons not trained in either voting systems or computer operations.	2.08 - EMS System Operation Procedures, Appendix A, Glossary None - 2.08 - ICE System Operation Procedures None - 2.08 - ICC System Operation Procedures None 2.08 - ICP System Operation Procedures	TDP
b.	References: A list of references to all vendor documents and to other sources related to operation of the system.	2.08 - EMS System Operation Procedures, Appendix B, References None -ICE System Operation Procedures None - 2.08 - ICC System Operation Procedures None 2.08 - ICP System Operation Procedures	TDP
c.	Detailed Examples: Detailed scenarios that outline correct system responses to faulty operator input; Alternative procedures may be specified depending on the system state.	None - 2.08 - EMS System Operation Procedures 2.08 - ICE System Operation Procedures, Appendix A, ImageCast Evolution Use Cases, ff None - 2.08 - ICC System Operation Procedures 2.08 - ICP System Operation Procedures, Appendix C, ff	TDP
d.	Manufacturer's Recommended Security Procedures: This appendix shall contain the security procedures that are to be executed by the system operator.	None - 2.08 - EMS System Operation Procedures 2.08 - ICE System Operation Procedures, Appendix C, Instructions on How and Where to Apply Security Seals None - 2.08 - ICC System Operation Procedures 2.08 - ICP System Operation Procedures, Appendix J, Instructions on How and Where to Apply Security Seals	TDP
VII, 2.9	System Maintenance Manual The system maintenance procedures shall provide information in sufficient detail to support election workers, information systems personnel, or maintenance personnel in the adjustment or removal and replacement of components or modules in the field. Technical documentation needed solely to support the repair of defective components or modules ordinarily done by the manufacturer or software developer is not	2.09 - ICE System Maintenance Manual 2.09 - ICP System Maintenance Manual 2.09-EMSSystemMaintenanceManual ICC - Canon DRX10C User Manual	TDP
	required. Recommended service actions to correct malfunctions or problems shall be discussed, along with personnel and expertise required to repair and maintain the system; and equipment, materials, and facilities needed for proper maintenance. This manual shall include the sections listed below.	2.09 - ICE System Maintenance Manual, Section 3, Maintenance Procedures 2.09 - ICP System Maintenance Manual, Section 3, Maintenance Procedures 2.09 - EMSSystemMaintenanceManual, Section 2, Maintenance Procedures ICC - Canon DRX10C User Manual	TDP
VII, 2.9.1	Introduction The vendor shall describe the structure and function of the equipment (and related software) for election preparation, programming, vote recording, tabulation, and reporting in sufficient detail to provide an overview of the system for maintenance, and for identification of faulty hardware or software. The description shall include a concept of operations that fully describes such items		
		2.09 - ICE System Maintenance Manual, Section 2.1, Electrical and Mechanical Functions	
a.	The electrical and mechanical functions of the equipment.	2.09 - ICP System Maintenance Manual, Section 2.1, Electrical and Mechanical Functions 2.09 - EMSSystemMaintenanceManual, ff	TDP
a. b.			TDP
b. c.	the equipment. How the processes of ballot handling and reading are performed (paper-based systems). How vote selection and casting of the ballot are performed (DRE systems).	2.09 - ICE System Maintenance Manual, Section 2.2, Ballot Handling and Reading 2.09 - ICE System Maintenance Manual, Section 2.2, Ballot Handling and Reading 2.09 - ICE System Maintenance Manual, Section 2.3, Vote Selection and Casting of the Ballot 2.09 - ICE System Maintenance Manual, Section 2.3, Vote Selection and Casting of the Ballot	
b.	the equipment. How the processes of ballot handling and reading are performed (paper-based systems). How vote selection and casting of the	2.09 - EMSSystemMaintenanceManual, ff 2.09 - ICE System Maintenance Manual, Section 2.2, Ballot Handling and Reading 2.09 - ICP System Maintenance Manual, Section 2.2, Ballot Handling and Reading 2.09 - ICE System Maintenance Manual, Section 2.3, Vote Selection and Casting of the Ballot	TDP

	f.	How data output is initiated and		2.09 - ICE System Maintenance Manual, Section 2.6, Data Output Initiation and Control	
		controlled.		2.09 - ICP System Maintenance Manual, Section 2.6, Data Output Initiation and Control	TDP
	g.	How power is converted or conditioned.		2.09 - ICE System Maintenance Manual, Section 2.7, Power Conversion/Conditioning 2.09 - ICP System Maintenance Manual, Section 2.7, Power Conversion/Conditioning	TDP
	h.	How test and diagnostic information is acquired and used.		2.09 - ICE System Maintenance Manual, Section 2.8, Acquiring Test and Diagnostic Information 2.09 - ICP System Maintenance Manual, Section 2.8, Acquiring Test and Diagnostic Information	TDP
_	VII, 2.9.2	Maintenance Procedures The vendor shall describe preventive and		2.09 - ICE System Maintenance Manual, ff	
		corrective maintenance procedures for hardware and software.		2.09 - ICP System Maintenance Manual, ff 2.09 - EMSSystemMaintenanceManual, ff	TDP
	VII, 2.9.2.1	Preventive Maintenance Procedures			
-	a.	The vendor shall identify and describe: All required and recommended preventive		2.09 - ICE System Maintenance Manual, ff	
		maintenance tasks, including software tasks such as software backup, database performance analysis, and database tuning.		2.09 - ICP System Maintenance Manual, ff 2.09 - EMSSystemMaintenanceManual, ff	TDP
	b.	Number and skill levels of personnel required for each task.		2.09 - ICE System Maintenance Manual, Section 3, Maintenance Procedures 2.09 - ICP System Maintenance Manual, Section 3.1.4, Corrective Maintenance Procedures 2.09 - EMSSystemMaintenanceManual, Section 2.1.5, Personnel Requirements	TDP
	c.	Parts, supplies, special maintenance equipment, software tools, or other resources needed for maintenance.		2.09 - ICF System Maintenance Manual, Section 4.1, Parts and Materials 2.09 - ICP System Maintenance Manual, Section 4.1, 2, Parts and Materials 2.09 - EMSSystemMaintenanceManual, Section 2.5, Parts and Materials	TDP
	d.	Any maintenance tasks that must be coordinated with the vendor or a third party (such as coordination that may be needed for off-the-shelf items used in the system).		2.09 - ICE System Maintenance Manual, Section 6, Maintenance Facilities and Support 2.09 - ICP System Maintenance Manual, Section 6, Maintenance Facilities and Support 2.09 - EMSSystemMaintenanceManual, Section 2.6, Maintenance Facilities and Support	TDP
	VII, 2.9.2.2	Corrective Maintenance Procedures The vendor shall provide fault detection,		2.09 - ICE System Maintenance Manual, Section 3.2, Corrective Maintenance Procedures	
		fault isolation, correction procedures, and logic diagrams for all operational abnormalities identified by design analysis and operating experience.		2.09 - ICP System Maintenance Manual, Section 3.1.4, Corrective Maintenance Procedures 2.09 - EMSSystemMaintenanceManual, Section 2.3, Corrective Maintenance Procedures	TDP
		The vendor shall identify specific procedures to be used in diagnosing and correcting problems in the system hardware (or user-controlled software). Descriptions shall include:			
	a.	Steps to replace failed or deficient equipment.		2.09 - ICE System Maintenance Manual, Section 3.2.1, Replacement of Failed or Deficient Equipment 2.09 - ICP System Maintenance Manual, Section 3.1.4.1, Replacement of Failed or Deficient Equipment 2.09 - EMSSystemMaintenanceManual, Section 2.2, Direct Server Maintenance "Manufactures Manuals"	TDP
S Y S T	b.	Steps to correct deficiencies or faulty operations in software.		2.09 - ICE System Maintenance Manual, Section 3.2.2, Correction or Deficiencies of Faulty Operation in Software 2.09 - ICP System Maintenance Manual, Section 3.1.4.2, Correction of Deficiencies of Faulty Operation in Software 2.09 - EMSSystemMaintenanceManual, Section 2.2, Direct Server Maintenance "Manufactures Manuals"	TDP S
T E M	c.	Modifications that are necessary to coordinate any modified or upgraded software with other software modules.		2.09 - ICE System Maintenance Manual, Section, 3.2.3, Coordination of Software Upgrades and Mods 2.09 - ICP System Maintenance Manual, Section 3.1.4.3, Coordination of Software Upgrades and Mods 2.09 - EMSSystemMaintenanceManual, Section 2.2, Direct Server Maintenance "Manufactures Manuals"	TDP M
M A I N	d.	The number and skill levels of personnel needed to accomplish each procedure.		2.09 - ICE System Maintenance Manual, Section 3, Maintenance Procedures 2.09 - ICP System Maintenance Manual, Section 3.1.4, Corrective Maintenance Procedures 2.09 - EMSSystemMaintenanceManual, Section 2.1.5, Personnel Requirements	TDP A
T E N	e.	Special maintenance equipment, parts, supplies, or other resources needed to accomplish each procedure.		2.09 - ICE System Maintenance Manual, Section 3.2.5, Special Maintenance Equipment 2.09 - ICP System Maintenance Manual, Section 3.1.4.2, Correction of Deficiencies of Faulty Operation in Software 2.09 - EMSSystemMaintenanceManual, Section, ff	TDP E
A N C E	f.	Any coordination required with the vendor, or other party, for off the shelf items.		2.09 - ICE System Maintenance Manual, Section 3.2.6, Corrective Maintenance Procedures Coordination 2.09 - ICP System Maintenance Manual, Section 3.1.4.4, Off the Shelf Items 2.09 - EMSSystemMaintenanceManual, Section 2.2, Direct Server Maintenance "Manufactures Manuals"	TDP C
M A N U	VII, 2.9.3	Maintenance Equipment The vendor shall identify and describe any special purpose test or maintenance equipment recommended for fault isolation and diagnostic purposes.		2.09 - ICE System Maintenance Manual, Section 3.2.2, Correction or Deficiencies of Faulty Operation in Software 2.09 - ICP System Maintenance Manual, Section 3.1.3.4, Correction of Deficiencies of Faulty Operation in Software 2.09 - EMSSystemMaintenanceManual, Section 2.2, Direct Server Maintenance "Manufactures Manuals"	TDP A
U A	VII, 2.9.4	Parts and Materials			U A
L S		Vendors shall provide detailed documentation of parts and materials needed to operate and maintain the system. Additional requirements apply for paper-			L
	VII, 2.9.4.1	Parts and Materials, Common			
		Standards The vendor shall provide a complete list	Vol. I, 4.3.1 b-c. Hardware		
		of approved parts and materials needed for maintenance. This list shall contain sufficient descriptive information to identify all parts by:	Requirements, Design, Construction, and Maintenance Characteristics, Materials,		
	a.	Туре	Processes, and Parts	2.09 - ICE System Maintenance Manual, Section, 4.2, Parts and Materials 2.09 - ICP System Maintenance Manual, Section 5, Parts and Materials 2.09 - EMSSystemMaintenanceManual, Section 2.5, Parts and Materials	TDP
	b.	Size		2.09 - ICE System Maintenance Manual, Section, 4.2, Parts and Materials 2.09 - ICP System Maintenance Manual, Section 5, Parts and Materials 2.09 - EMSSystemMaintenanceManual, Section 2.5, Parts and Materials	TDP
	c.	Value or range		2.09 - ICE System Maintenance Manual, Section, 4.2, Parts and Materials 2.09 - ICP System Maintenance Manual, Section 5, Parts and Materials 2.09 - EMSSystemMaintenanceManual, Section 2.5, Parts and Materials	TDP

	d.	Manufacturer's designation		2.09 - ICE System Maintenance Manual, Section, 4.2, Parts and Materials 2.09 - ICP System Maintenance Manual, Section 5, Parts and Materials 2.09 - EMSSystemMaintenanceManual, Section 2.5, Parts and Materials	TDP
	e.	Individual quantities needed		2.09 - ICE System Maintenance Manual, Section, 4.2, Parts and Materials 2.09 - ICP System Maintenance Manual, Section 5, Parts and Materials 2.09 - EMSSystemMaintenanceManual, Section 2.5, Parts and Materials	TDP
	f.	Sources from which they may be obtained		2.09 - ICE System Maintenance Manual, Section, 4.2, Parts and Materials 2.09 - ICP System Maintenance Manual, Section 5, Parts and Materials 2.09 - EMSSystemMaintenanceManual, Section 2.5, Parts and Materials	TDP
	VII, 2.9.4.2	Paper-Based Systems			
		For marking devices manufactured by		2.09 - ICE System Maintenance Manual, Section 5.2, Paper-Based Systems	
		multiple external sources, the vendor shall provide a listing of sources and model numbers that are compatible with the		2.09 - ICP System Maintenance Manual, Section 5.2, Paper-Based Systems	TDP
	VIII 205	system. The TDP shall specify the required paper stock, size, shape, opacity, color, watermarks, field layout, orientation, size and style of printing, size and location of punch or (sic) mark fields used for vote response fields and to identify unique ballot formats, placement of alignment marks, ink for printing, and folding and bleed-through limitations for preparation of ballots that are compatible with the system.	also Vol. I. 2.2.1.3 c. and following paragraph Functional Requirements, Pre-voting Capabilities, Ballot Production; Vol. I. 4.1.4.2 a-b. Hardware Requirements, Vote Recording Requirements, Paper Based Recording Requirements	2.09 - ICE System Maintenance Manual, Section 5.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 5.2, Paper-Based Systems	TDP
	VII, 2.9.5	Maintenance Facilities and Support			
		The vendor shall identify all facilities, furnishings, fixtures, and utilities that will be required for equipment maintenance. In addition, vendors shall specify the assumptions made with regard to any parameters that impact the mean time to repair. These factors shall include at a minimum.	see Vol. I, 4.3.5 e-g. Hardware Requirements, Design, Construction, and Maintenance, Availability		
	a.	Recommended number and locations of spare devices or components to be kept on hand for repair purposes during periods of system operation.		2.09 - ICE System Maintenance Manual, Section, 6, Maintenance Facilities and Support 2.09 - ICP System Maintenance Manual, Section 6, Maintenance Facilities and Support 2.09 - EMSSystemMaintenanceManual, Section 2.6, Maintenance Facilities and Support	TDP
	b.	Recommended number and locations of qualified maintenance personnel who need to be available to support repair calls during system operation.		2.09 - ICE System Maintenance Manual, Section, 6, Maintenance Facilities and Support 2.09 - ICP System Maintenance Manual, Section 6, Maintenance Facilities and Support 2.09 - EMSSystemMaintenanceManual, Section 2.1.5, Personnel Requirements	TDP
	c.	Organizational affiliation (i.e., jurisdiction, vendor) of qualified maintenance personnel.		2.09 - ICE System Maintenance Manual, Section 3, Maintenance Procedures 2.09 - ICP System Maintenance Manual, Section 34, Maintenance Facilities and Support 2.09 - EMSSystemMaintenanceManual, Section 2.1.5, Personnel Requirements	TDP
	VII, 2.9.6	Appendices			
	VII, 2.9.6	The vendor may provide descriptive material and data supplementing the various sections of the body of the System Maintenance Manual. The content and arrangement of appendices shall be at the discretion of the vendor. Topics recommended for amplification or treatment in appendices include:			
	a.	The vendor may provide descriptive material and data supplementing the various sections of the body of the System Maintenance Manual. The content and arrangement of appendices shall be at the discretion of the vendor. Topics recommended for amplification or treatment in appendices include: Glossary: A listing and brief definition of all terms that may be unfamiliar to persons not trained in either voting systems or		No glossaries appendices were noted in the core documents	TDP
	a.	The vendor may provide descriptive material and data supplementing the various sections of the body of the System Maintenance Manual. The content and arrangement of appendices shall be at the discretion of the vendor. Topics recommended for amplification or treatment in appendices include: Glossary: A listing and brief definition of all terms that may be unfamiliar to persons not trained in either voting systems or computer maintenance. References: A list of references to all vendor documents and other sources related to maintenance of the system.		No references appendices were noted in the core documents	TDP TDP
	a. b.	The vendor may provide descriptive material and data supplementing the various sections of the body of the System Maintenance Manual. The content and arrangement of appendices shall be at the discretion of the vendor. Topics recommended for amplification or treatment in appendices include: Glossary: A listing and brief definition of all terms that may be unfamiliar to persons not trained in either voting systems or computer maintenance. References: A list of references to all vendor documents and other sources related to maintenance of the system. Detailed Examples: Detailed scenarios that outline correct system responses to every conceivable faulty operator input; alternative procedures may be specified depending on the system state.		No references appendices were noted in the core documents No detailed example appendices were noted in the core documents	
	a. b. c.	The vendor may provide descriptive material and data supplementing the various sections of the body of the System Maintenance Manual. The content and arrangement of appendices shall be at the discretion of the vendor. Topics recommended for amplification or treatment in appendices include: Glossary: A listing and brief definition of all terms that may be unfamiliar to persons not trained in either voting systems or computer maintenance. References: A list of references to all vendor documents and other sources related to maintenance of the system. Detailed Examples: Detailed scenarios that outline correct system responses to every conceivable faulty operator input; alternative procedures may be specified depending on the system state. Maintenance and Security Procedures: This appendix shall contain technical illustrations and schematic representations of electronic circuits unique to the system.		No references appendices were noted in the core documents	TDP
	a. b.	The vendor may provide descriptive material and data supplementing the various sections of the body of the System Maintenance Manual. The content and arrangement of appendices shall be at the discretion of the vendor. Topics recommended for amplification or treatment in appendices include: Glossary: A listing and brief definition of all terms that may be unfamiliar to persons not trained in either voting systems or computer maintenance. References: A list of references to all vendor documents and other sources related to maintenance of the system. Detailed Examples: Detailed scenarios that outline correct system responses to every conceivable faulty operator input; alternative procedures may be specified depending on the systems state. Maintenance and Security Procedures: This appendix shall contain technical illustrations and schematic representations of electronic circuits unique to the system.		No references appendices were noted in the core documents No detailed example appendices were noted in the core documents	TDP
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P	a. b. c. vII, 2.10	The vendor may provide descriptive material and data supplementing the various sections of the body of the System Maintenance Manual. The content and arrangement of appendices shall be at the discretion of the vendor. Topics recommended for amplification or treatment in appendices include: Glossary: A listing and brief definition of all terms that may be unfamiliar to persons not trained in either voting systems or computer maintenance. References: A list of references to all vendor documents and other sources related to maintenance of the system. Detailed Examples: Detailed scenarios that outline correct system responses to every conceivable faulty operator input; alternative procedures may be specified depending on the system state. Maintenance and Security Procedures: This appendix shall contain technical illustrations and schematic representations of electronic circuits unique to the system. Personnel Deployment and Training Requirements The vendor shall describe the personnel resources and training required for a jurisdiction to operate and maintain the system. Personnel The vendor shall specify the number of personnel and skill levels required to perform each of the following functions:		No references appendices were noted in the core documents No detailed example appendices were noted in the core documents No maintenance and security procedure appendices were noted in the core documents 2.10 - Democracy Suite Personnel Deployment And Training Requirements	TDP TDP
E R S O	a. b. c.	The vendor may provide descriptive material and data supplementing the various sections of the body of the System Maintenance Manual. The content and arrangement of appendices shall be at the discretion of the vendor. Topics recommended for amplification or treatment in appendices include: Glossary: A listing and brief definition of all terms that may be unfamiliar to persons not trained in either voting systems or computer maintenance. References: A list of references to all vendor documents and other sources related to maintenance of the system. Detailed Examples: Detailed scenarios that outline correct system responses to every conceivable faulty operator input; alternative procedures may be specified depending on the system state. Maintenance and Security Procedures: This appendix shall contain technical illustrations and schematic representations of electronic circuits unique to the system. Personnel Deployment and Training Requirements The vendor shall describe the personnel resources and training required for a jurisdiction to operate and maintain the system.		No references appendices were noted in the core documents No detailed example appendices were noted in the core documents No maintenance and security procedure appendices were noted in the core documents	TDP TDP TDP
E R S	a. b. c. v.i., 2.10	The vendor may provide descriptive material and data supplementing the various sections of the body of the System Maintenance Manual. The content and arrangement of appendices shall be at the discretion of the vendor. Topics recommended for amplification or treatment in appendices include: Glossary: A listing and brief definition of all terms that may be unfamiliar to persons not trained in either voting systems or computer maintenance. References: A list of references to all vendor documents and other sources related to maintenance of the system. Detailed Examples: Detailed scenarios that outline correct system responses to every conceivable faulty operator input; auternative procedures may be specified depending on the system state. Maintenance and Security Procedures: This appendix shall contain technical illustrations and schematic representations of electronic circuits unique to the system. Personnel Deployment and Training Requirements The vendor shall specify the number of personnel and skill levels required to a jurisdiction to operate and maintain the system. Personnel The vendor shall specify the number of personnel and skill levels required to perform each of the following functions: Pre-election or election preparation functions (e.g., entering an election, contest and candidate information; designing a ballot; generating pre-election reports). System operations for voting system		No references appendices were noted in the core documents No detailed example appendices were noted in the core documents No maintenance and security procedure appendices were noted in the core documents 2.10 - Democracy Suite Personnel Deployment And Training Requirements 2.10 - Democracy Suite Personnel Deployment And Training Requirements, Section 2, Personnel Deployment and Training Requirements	TDP TDP TDP
E R S O N	a. b. c. v.i., 2.10	The vendor may provide descriptive material and data supplementing the various sections of the body of the System Maintenance Manual. The content and arrangement of appendices shall be at the discretion of the vendor. Topics recommended for amplification or treatment in appendices include: Glossary: A listing and brief definition of all terms that may be unfamiliar to persons not trained in either voting systems or computer maintenance. References: A list of references to all vendor documents and other sources related to maintenance of the system. Detailed Examples: Detailed scenarios that outline correct system responses to every conceivable faulty operator input; alternative procedures may be specified depending on the system state. Maintenance and Security Procedures: This appendix shall contain technical illustrations and schematic representations of electronic circuits unique to the system. Personnel Deployment and Training Requirements The vendor shall describe the personnel resources and training required for a jurisdiction to operate and maintain the system. Personnel Maintenance and Security Presented The vendor shall specify the number of personnel and skill levels required to perform each of the following functions: Pre-election or election preparation functions (e.g., entering an election, contest and candidate information; designing a ballot; generating pre-election reports).		No references appendices were noted in the core documents No detailed example appendices were noted in the core documents No maintenance and security procedure appendices were noted in the core documents 2.10 - Democracy Suite Personnel Deployment And Training Requirements 2.10 - Democracy Suite Personnel Deployment And Training Requirements 2.10 - Democracy Suite Personnel Deployment And Training Requirements, Section 2, Personnel Deployment and Training Requirements	TDP TDP TDP TDP TDP

-	e.	Diagnosis of faulty hardware or software.		2.10 - Democracy Suite Personnel Deployment And Training Requirements, Section 2.1.1.2, System Operation for Voting	
0				System	TDP
P M E	f.	Corrective maintenance tasks.		2.10 - Democracy Suite Personnel Deployment And Training Requirements, Section 2.1.1.2, System Operation for Voting System	TDP
N T	g.	Testing to verify the correction of problems.		2.10 - Democracy Suite Personnel Deployment And Training Requirements, Section 2.1.1.2, System Operation for Voting System	TDP
A N D	VII. 2.10.2	A description shall be presented of which functions may be carried out by user personnel, and those that must be performed by vendor personnel.		2.10 - Democracy Suite Personnel Deployment And Training Requirements, Section 2.1.2, Vendor Personnel Tasks	TDP
T R	V11, 2.10.2	Training The vendor shall specify requirements for the orientation and training of the following personnel:			
A N	a.	Poll workers supporting polling place operations		2.10 - Democracy Suite Personnel Deployment And Training Requirements, Section 2.3.1, Poll Workers Supporting	TDP
1	b.	System support personnel involved in		2.10 - Democracy Suite Personnel Deployment And Training Requirements, Section 2.3.2, System Support Personnel	TDP
N G	c.	election programming User system maintenance technicians		[Involved in 2.10 - Democracy Suite Personnel Deployment And Training Requirements, Section 2.3.3, User System Maintenance Technicians	TDP
	d.	Network/system administration personnel		2.10 - Democracy Suite Personnel Deployment And Training Requirements, Section 2.3.4, Network/System	TDP
	e.	(if a network is used) Information systems personnel		Administration Personnel 2.10 - Democracy Suite Personnel Deployment And Training Requirements, Section 2.3.5, Information Systems Personnel	TDP
	f.	Vendor personnel		2.10 - Democracy Suite Personnel Deployment And Training Requirements, Section 2.3.6, Vendor Personnel Training	TDP
	VII, 2.11	Configuration Management Plan	Vol. I, Sec. 9		
		Vendors shall submit a Configuration	Configuration see Vol. I, 9.1.1	2.11 - Configuration Management Process	
		Management Plan that addresses the configuration management requirements of	Configuration Management		
		Volume I, Section 9 [Configuration	Requirements; see Vol. I, 9.1.3		
		Management Requirements]. This plan shall describe all policies, processes, and	Application of Configuration		TDP
		procedures employed by the vendor to carry out these requirements. The	Management		
		Configuration Management Plan shall	Requirements; Vol. II, 7.4 Examination of		
	VII, 2.11.1	contain the sections identified below. Configuration Management Policy	Configuration		
	V11, 2.11.1	The vendor shall provide a description of	see Vol. I 9.2		
		its organizational policies for configuration management, addressing the	Configuration Management Policy;		
		specific requirements of Volume I,	see Vol. II, 7.4.1 Configuration		
		Subsection 9.2. These requirements pertain to:	Management Policy		
	a.	Scope and nature of configuration management program activities		2.11 - Configuration Management Process, Section 1, Introduction	TDP
	b.	Breadth of application of vendor's policy		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	mp.p
		and practices to the voting system			TDP
	VII, 2.11.2	Configuration Identification The vendor shall provide a description of	see Vol. I, 9.3.1 Config.		
		the procedures and naming conventions	Identification Class. and Naming Config. Items; Vol.		
		used to address the specific requirements of Volume I, Subsection 9.3. These	I, 9.3.2 a-c. Configuration		
		requirements pertain to:	Identification, Version Conventions; Vol. II 7.4.2		
			Configuration Identification		
	a.	Classifying configuration items into		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	
	h	categories and subcategories Uniquely numbering or otherwise			TDP
	υ.	identifying configuration items		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	TDP
	c.	Naming configuration items		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	TDP
	VII, 2.11.3	Baseline and Promotion The vendor shall provide a description of	Vol. I, 9.4 a-c. Baseline		
		the procedures and naming conventions	and Promotion		
		used to address the specific requirements of Volume I, Subsection 9.4. These	Procedures; Vol. II, 7.4.3 Baseline,		
		requirements pertain to:	Promotion, and Demotion Procedures		
	a.	Establishing a particular instance of a		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	
		system component as the starting baseline.			TDP
С	b.	Promoting subsequent instances of a component to baseline throughout the		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	
O N		system development process for the first			TDP
F		complete version of the system submitted for testing.			
I	c.	Promoting subsequent instances of a	EAC Testing and Certification Program	2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	
G U		component to baseline status as the component is maintained throughout its	Manual, Ver. 1.0, Sec. 1.13		TDP
R		life cycle until system retirement (i.e., the system is no longer sold or maintained).	Records Retention- Manufacturers		
A T	VII, 2.11.4	Configuration Control Procedures			
1		The vendor shall provide a description of the procedures used by the vendor to	Vol. I, 9.5 a-d. Configuration Control		
O N		approve and implement changes to a	Procedures;		
14		configuration item to prevent unauthorized additions, changes, or deletions to address	Vol. II, 7.4.4 Configuration Control Procedures		
M		the specific requirements of Volume I,			
A N		Subsection 9.5. These requirements			ľ

Α	a.	Developing and maintaining internally		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	mp.p.
G	b.	developed items Developing and maintaining third party		2.11 - Configuration Management Process, Section 2.5, Description of the Configuration Control Process for Third Party	TDP
E VI		items		Items	TDP
E N	c.	Resolving internally identified defects		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	TDP
Т	d.	Resolving externally identified and reported defects		2.11 - Configuration Management Process, Section 2.5, Description of the Configuration Control Process for Third Party Items	TDP
•	VII, 2.11.5	Release Process	see Vol. I, 9.6 Release		
L A		The vendor shall provide a description of the contents of a system release, and the	Process;		
N		procedures and related conventions by which the vendor installs, transfers, or	Vol. II, 7.4.5 Release Process		
		migrates the system to accredited voting			
ı		system testing laboratories and customers to address the specific requirements of			
		Volume I, Subsection 9.6. These requirements pertain to:			
ı	a.	A first release of the system to an accredited test lab.		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	TDP
ı	b.	A subsequent maintenance or upgrade		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	
ı		release of a system, or particular components, to an accredited test lab.			TDP
ı	c.	The initial delivery and installation of the system to a customer.		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	TDP
ı	d.	A subsequent maintenance or upgrade		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	mp.p.
		release of a system, or particular components, to a customer.			TDP
	VII, 2.11.6	Configuration Audits The vendor shall provide a description of			
		the procedures and related conventions for the two audits required by Volume I,			
		Subsection 9.7. These requirements			
	a.	Physical configuration audit that verifies	see Vol. I, 9.7.1 a–h.	2.11 - Configuration Management Process, Section 2.6.1, Physical Configuration	
		the voting system components submitted for certification testing to the vendor's	Configuration Audits, Physical Configuration		
ı		technical documentation.	Audit; Vol. II, 6.6 Physical Configuration		TDP
ı			Audit; Vol. II, 7.4.6 Configuration Audits		
ı	b.	Functional configuration audit that verifies	see Vol. I, 9.7.2 a-b.	2.11 - Configuration Management Process, Section 2.6.2, Functional Configuration	
		the system performs all the functions described in the system documentation.	Configuration Audits, Functional Configuration		
ı			Audit; Vol. II, 6.7 Functional Configuration		TDP
ı			Audit; Vol. II, 7.4.6 Configuration Audits		
ı	VII, 2.11.7	Configuration Management Resources			
ı		The vendor shall provide a description of the procedures and related conventions for	Vol. I, 9.8 Configuration Management Resources;		
ı		maintaining information about configuration management tools required	Vol. II, 7.4.7 Configuration Management Resources		
ı		by Volume I, Subsection 9.8. These			
		requirements pertain to information			
Į	a.	Specific tools used, current version, and operating environment		2.11 - Configuration Management Process, Section 2.7, Configuration Management Resources	TDP
ı	b.	Physical location of the tools, including designation of computer directories and		2.11 - Configuration Management Process, Section 2.7, Configuration Management Resources	TDP
ı	c.	files Procedures and training materials for		2.11 - Configuration Management Process, Section 2.7, Configuration Management Resources	TDP
	VII, 2.12	using the tools Quality Assurance			
		Vendors shall submit a Quality Assurance Program that addresses the quality	also Vol. I, 8.2 a-e. Quality Assurance Requirements,	2.12 - Democracy Suite Quality Assurance Program	
		assurance requirements of Volume I,	General Requirements; Vol. II, 7.5 Examination of		
		Section 8. This plan shall describe all policies, processes, and procedures	Quality Assurance Practices;		
		employed by the vendor to ensure the overall quality of the system for its initial	Vol. I, 4.3.7 Workmanship; Vol. I, 8.3 Components		TDP
		development and release and for subsequent modifications and releases.	Vol. 1, 8.3 Components from Third Parties		
	l				
		The Quality Assurance Program shall, at a			
		minimum, address the topics indicated below.			
	VII, 2.12.1	minimum, address the topics indicated below. Quality Assurance Policy	specific requirements listed		
	VII, 2.12.1	minimum, address the topics indicated below. Quality Assurance Policy The vendor shall provide a description of its organizational policies for quality	in Vol. II, 7.5.1 Quality		
	VII, 2.12.1 a.	minimum, address the topics indicated below. Quality Assurance Policy The vendor shall provide a description of its organizational policies for quality assurance, including: Scope and nature of Quality Assurance		2.12 - Democracy Suite Quality Assurance Program, Section 2.1.1, The Scope and Nature of Quality Policy Activities	TDP
	VII, 2.12.1 a. b.	minimum, address the topics indicated below. Quality Assurance Policy The vendor shall provide a description of its organizational policies for quality assurance, including: Scope and nature of Quality Assurance activities Breadth of application of vendor's policy	in Vol. II, 7.5.1 Quality	2.12 - Democracy Suite Quality Assurance Program, Section 2.1.2, Application of Policy and Practices to the Voting	
U	VII, 2.12.1 a. b.	minimum, address the topics indicated below. Quality Assurance Policy The vendor shall provide a description of its organizational policies for quality assurance, including: Scope and nature of Quality Assurance activities	in Vol. II, 7.5.1 Quality		TDP TDP
U	VII, 2.12.1 a. b. VII, 2,12.2	minimum, address the topics indicated below. Quality Assurance Policy The vendor shall provide a description of its organizational policies for quality assurance, including: Scope and nature of Quality Assurance activities Breadth of application of vendor's policy and practices to the voting system Parts and Materials Test	in Vol. II, 7.5.1 Quality Assurance Policy	2.12 - Democracy Suite Quality Assurance Program, Section 2.1.2, Application of Policy and Practices to the Voting System contains information.	
J A L	a. b.	minimum, address the topics indicated below. Quality Assurance Policy The vendor shall provide a description of its organizational policies for quality assurance, including: Scope and nature of Quality Assurance activities Breadth of application of vendor's policy and practices to the voting system Parts and Materials Test The vendor shall provide a description of its practices for parts and materials tests	in Vol. II, 7.5.1 Quality Assurance Policy see Vol. 1, 8.5 c. Parts and Materials Special Tests	2.12 - Democracy Suite Quality Assurance Program, Section 2.1.2, Application of Policy and Practices to the Voting	TDP
J L I	a. b.	minimum, address the topics indicated below. Quality Assurance Policy The vendor shall provide a description of its organizational policies for quality assurance, including: Scope and nature of Quality Assurance activities Breadth of application of vendor's policy and practices to the voting system Parts and Materials Test The vendor shall provide a description of its practices for parts and materials tests and examinations that meet the	in Vol. II, 7.5.1 Quality Assurance Policy see Vol. I, 8.5 c. Parts and Materials Special Tests and Examinations; Vol. II, 7.5.2 Parts and	2.12 - Democracy Suite Quality Assurance Program, Section 2.1.2, Application of Policy and Practices to the Voting System contains information.	
J L I	a. b. VII, 2.12.2	minimum, address the topics indicated below. Quality Assurance Policy The vendor shall provide a description of its organizational policies for quality assurance, including: Scope and nature of Quality Assurance activities Breadth of application of vendor's policy and practices to the voting system Parts and Materials Test The vendor shall provide a description of its practices for parts and materials tests and examinations that meet the requirements of Volume I, Subsection 8.5.	in Vol. II, 7.5.1 Quality Assurance Policy see Vol. I, 8.5 c. Parts and Materials Special Tests and Examinations;	2.12 - Democracy Suite Quality Assurance Program, Section 2.1.2, Application of Policy and Practices to the Voting System contains information.	TDP
U A L I T Y A S	a. b.	minimum, address the topics indicated below. Quality Assurance Policy The vendor shall provide a description of its organizational policies for quality assurance, including: Scope and nature of Quality Assurance activities Breadth of application of vendor's policy and practices to the voting system Parts and Materials Test The vendor shall provide a description of its practices for parts and materials tests and examinations that meet the requirements of Volume I, Subsection 8.5. Quality Conformance Inspections The vendor shall provide a description of	in Vol. II, 7.5.1 Quality Assurance Policy see Vol. I, 8.5 c. Parts and Materials Special Tests and Examinations; Vol. II, 7.5.2 Parts and Materials Tests see also Vol. I 8.6 Quality	2.12 - Democracy Suite Quality Assurance Program, Section 2.1.2, Application of Policy and Practices to the Voting System contains information.	TDP
U A L I T Y A S S	a. b. VII, 2.12.2	minimum, address the topics indicated below. Quality Assurance Policy The vendor shall provide a description of its organizational policies for quality assurance, including: Scope and nature of Quality Assurance activities Breadth of application of vendor's policy and practices to the voting system Parts and Materials Test The vendor shall provide a description of its practices for parts and materials tests and examinations that mee the requirements of Volume I, Subsection 8.5. Quality Conformance Inspections	in Vol. II, 7.5.1 Quality Assurance Policy see Vol. 1, 8.5 c. Parts and Materials Special Tests and Examinations; Vol. II, 7.5.2 Parts and Materials Tests see also Vol. 1 8.6 Quality Conformance Inspections; Vol. II, 7.5.3 Quality Vol. II, 7.5.3 Quality	2.12 - Democracy Suite Quality Assurance Program, Section 2.1.2, Application of Policy and Practices to the Voting System contains information.	TDP
QUALITY ASSUR	a. b. VII, 2.12.2	minimum, address the topics indicated below. Quality Assurance Policy The vendor shall provide a description of its organizational policies for quality assurance, including: Scope and nature of Quality Assurance activities Breadth of application of vendor's policy and practices to the voting system Parts and Materials Test The vendor shall provide a description of its practices for parts and materials tests and examinations that meet the requirements of Volume 1, Subsection 8.5. Quality Conformance Inspections The vendor shall provide a description of its practices for quality conformance inspections that meet the requirements of Volume 1, Subsection 8.6. For each test	in Vol. II. 7.5.1 Quality Assurance Policy see Vol. I, 8.5 c. Parts and Materials Special Tests and Examinations; Vol. II. 7.5.2 Parts and Materials Tests see also Vol. 1.8.6 Quality Conformance Inspections;	2.12 - Democracy Suite Quality Assurance Program, Section 2.1.2, Application of Policy and Practices to the Voting System contains information.	TDP
U A L I T Y A S S U	a. b. VII, 2.12.2	minimum, address the topics indicated below. Quality Assurance Policy The vendor shall provide a description of its organizational policies for quality assurance, including: Scope and nature of Quality Assurance activities Breadth of application of vendor's policy and practices to the voting system Parts and Materials Test The vendor shall provide a description of its practices for parts and materials tests and examinations that meet the requirements of Volume I, Subsection 8.5. Quality Conformance Inspections The vendor shall provide a description of its practices for quality conformance inspections	in Vol. II, 7.5.1 Quality Assurance Policy see Vol. 1, 8.5 c. Parts and Materials Special Tests and Examinations; Vol. II, 7.5.2 Parts and Materials Tests see also Vol. 1 8.6 Quality Conformance Inspections; Vol. II, 7.5.3 Quality Vol. II, 7.5.3 Quality	2.12 - Democracy Suite Quality Assurance Program, Section 2.1.2, Application of Policy and Practices to the Voting System contains information.	TDP

Е	b.	Test date		2.12 - Democracy Suite Quality Assurance Program, Section 2.6.1.5, Test Deliverables	TDP
	c	Individual who conducted the test		2.12 - Democracy Suite Quality Assurance Program, Section 2.6.1.5, Test Deliverables	
					TDP
	d.	Test outcomes		2.12 - Democracy Suite Quality Assurance Program, Section 2.6.1.5, Test Deliverables	TDP
	VII, 2.12.4	Documentation The vendor shall provide a description of its practices for documentation of the system and system development process that meet the requirements of Volume I, Subsection 8.7.	see Vol. 1, 8.7 Quality Assurance Requirements, Documentation; Vol. 1, 2.1.1 Description of TDP, Required Content for Initial Certification; Vol. 1, 2.1.1.2 Required Content for System Changes and Recertification; Vol. II, 7.5.4 Quality Assurance, Documentation	2.12 - Democracy Suite Quality Assurance Program, Section 2.7, Quality Documentation	TDP
	VII, 2.13	System Change Notes			
S Y S T E M		Vendors submitting modifications for a system that has been tested previously and received national certification shall submit system change notes. These will be used by the accredited test lab to assist in developing and executing the test plan for the modified system. The system change notes shall include the following information:	Vol. II, 2.1.1.2 Required Content for System Changes and Recertification		
С	a.	Summary description of the nature and scope of the changes, and reasons for each change.		N/A - Tested system is not a modification	TDP
ANGE	b.	A listing of the specific changes made, citing the specific system configuration items changed and providing detailed references to the documentation sections changed.		N/A - Tested system is not a modification	TDP
N O T E	с.	The specific sections of the documentation that are changed (or completely revised documents, if more suitable to address a large number of changes).		N/A - Tested system is not a modification	TDP
S	d.	Documentation of the test plan and procedures executed by the vendor for testing the individual changes and the system as a whole, and records of test results.		N/A - Tested system is not a modification	TDP
	VI Sec. 2	Functional Requirements			
	VI, 2.1	Overall System Capabilities			
	VI, 2.1.1	Security To ensure security, all systems shall:			
	g.	Provide documentation of mandatory administrative procedures for effective system security.	see Vol. I, Sec. 7 Security Requirements see Vol. II, 2.6 Software Security Specification	2.06 - Democracy Suite System Security Specification 2.08 - ICE System Operation Procedures, Appendix C, Instructions on How and Where to Apply Security Seals 2.08 - ICP System Operation Procedures, Appendix J, Instructions on How and Where to Apply Security Seals 2.03 - ICC Functionality Description, Section 8.11, Hardware and Software Security of Counting Equipment 2.03 - EMS Functional Description, Section 4.3, System Level Security 2.03 - ICE Functionality Description, Section 2.1, Security, ff 2.03 - ICP Functional Description, Section 2.1, Security, ff 2.03 - ICP Functional Description, Section 2.1, Security, ff	TDP
	VI Sec. 2.1.5	System Audit			
		Because the actual implementation of [system's] specific characteristics may vary from system to system, it is the responsibility of the vendor to describe each system's characteristics in sufficient detail so that test labs and system users can evaluate the adequacy of the system's audit trail. This description shall be incorporated in the System Operations Manual, which is part of the Technical Data Package.	see Vol. II, 2.8.1 TDP, System Operations Procedures, Introduction	2.08 - ICE System Operation Procedures, ff 2.08 - ICE System Operation Procedures, ff 2.08 - ICE System Operation Procedures, ff 2.08 - ICP System Operation Procedures, ff	TDP
	VI, 2.1.6	Election Management System			
		The Election Management System (EMS) shall generate and maintain a database, or one or more interactive databases, that enables election officials or their designees to perform the following functions:			
	g.	Accumulate vote totals at multiple reporting levels as indicated in the system documentation.	Vol. II, 2.8.4 System Operations Procedures, Operational Features	2.08 EMS Systems Operations Procedures, ff	TDP
	VI, 2.1.7	Vote Tabulating Program			
	VI, 2.1.7.1 VI, 2.1.7.2	Vote Tabulating Program, Functions Voting Variations			
	1, 2,1,1,2	young variations The Technical Data Package accompanying the system shall specifically identify which of the following items can and cannot be supported by the voting system, as well as how the voting system can implement the items supported:	Vol. II, 2.1 Description of the Tech. Data Package, Scope		
		Closed primaries		Democracy, Suite_4_0_Supported, Functionality_Declaration_20110822_rev20111005_rev20120321 (Supported) 2.03 - ICE Functionality Description, Section 2.7.2, Voting Variations (Supported) 2.03 - ICC Functionality Description, Section 2.3.1, Voting Variations (Supported) 2.03 - ICP Functionality Description, Section 2.3.1, Voting Variations (Supported) Democracy Suite EMS EED User Guide, Section 3.6, Creating Closed Primaries	TDP

	Open primaries		Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 (NOT Supported)	TDP
	Partisan offices		Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 (Supported) 2.03 - ICE Functionality Description, Section 2.7.2, Voting Variations (Supported) 2.03 - ICC Functionality Description, Section 2.3.1, Voting Variations (Supported) 2.05 - ICP Functionality Description, Section 2.3.1, Voting Variations (Supported) Democracy Suite EMS EED User Guide, Section 4.2.3.7, Divisioning	TDP
	Non-partisan offices		Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 (Supported) 2.03 - ICE Functionality Description, Section 2.7.2, Voting Variations (Supported) 2.03 - ICC Functionality Description, Section 2.3.1, Voting Variations (Supported) 2.03 - ICP Functionality Description, Section 2.3.1, Voting Variations (Supported) Democracy Suite EMS EED User Guide, Section 4.2.3.7, Divisioning	TDP
	Write-in voting		Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 (Supported) 2.03 - ICE Functionality Description, Section 2.7.2, Voting Variations (Supported) 2.03 - ICC Functionality Description, Section 2.3.1, Voting Variations (Supported) 2.03 - ICP Functionality Description, Section 2.3.1, Voting Variations (Supported) Democracy Suite EMS EED User Guide, Section 4.3.2.2.1, Contest Properties	TDP
	Primary presidential delegation nominations		Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 (Supported) 2.03 - ICE Functionality Description, Section 2.7.2, Voting Variations (Supported) 2.03 - ICC Functionality Description, Section 2.3.1, Voting Variations (Supported) 2.05 - ICP Functionality Description, Section 2.3.1, Voting Variations (Supported) Democracy Suite EMS EED User Guide, Section 4.3.2.3.2, Choice Units	TDP
	Ballot rotation		Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 (Supported) 2.03 - ICE Functionality Description, Section 2.7.2, Voting Variations (Supported) 2.03 - ICC Functionality Description, Section 2.3.1, Voting Variations (Supported) 2.03 - ICP Functionality Description, Section 2.3.1, Voting Variations (Supported) 2.03 - Democracy Suite ICP Functionality Description, Section 3.4.4.9, District Rotation Democracy Suite EMS EED User Guide, Section 4.3.1.7, District Rotation	TDP
	Straight party voting		Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 (Supported) 2.03 - ICE Functionality Description, Section 2.7.2, Voting Variations (Supported) 2.03 - ICC Functionality Description, Section 2.3.1, Voting Variations (Supported) 2.03 - ICP Functionality Description, Section 2.3.1, Voting Variations (Supported) Democracy Suite EMS EED User Guide, Section 4.2.3.3, Set Project Parameters	TDP
	Cross-party endorsement		Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 (Supported) 2.03 - ICE Functionality Description, Section 2.7.2, Voting Variations (Supported) 2.03 - ICC Functionality Description, Section 2.3.1, Voting Variations (Supported) 2.03 - ICP Functionality Description, Section 2.3.1, Voting Variations (Supported) Democracy Suite EMS EED User Guide, Section 4.3.2.3.1, Choice Properties	TDP
	Split precincts		Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 (Supported) 2.03 - ICE Functionality Description, Section 2.7.2, Voting Variations (Supported) 2.03 - ICC Functionality Description, Section 2.3.1, Voting Variations (Supported) 2.03 - ICP Functionality Description, Section 2.3.1, Voting Variations (Supported) Democracy Suite EMS EED User Guide, Section 4.3.1.7, District Rotation	TDP
	Vote for N of M		Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 (Supported) 2.03 - ICE Functionality Description, Section 2.7.2, Voting Variations (Supported) 2.03 - ICC Functionality Description, Section 2.3.1, Voting Variations (Supported) 2.03 - ICP Functionality Description, Section 2.3.1, Voting Variations (Supported) Democracy Suite EMS EED User Guide, Section 4.3.4.3.5, Contest Header Template	TDP
	Recall issues with options		Democracy Suite EMS EED User Guide, Section 4.3.1.6.1, Office Properties (NOT Supported)	TDP
	Cumulative voting		Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 (NOT Supported)	TDP
	Support of ranked order voting		Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 (NOT Supported)	TDP
	Provisional or challenged ballots		Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 (Supported) 2.03 - ICE Functionality Description, Section 2.7.2, Voting Variations (Supported) 2.03 - ICC Functionality Description, Section 2.3.1, Voting Variations (Supported) 2.03 - ICP Functionality Description, Section 2.3.1, Voting Variations (Supported) Democracy Suite EMS EED User Guide, Section, Section 4.3.1.5.1, Elector Group Combinations Properties	TDP
VI, 2.1.10	Data Retention			
17.4	All systems shall maintain integrity of voting and audit data during an election and for at least 22 months thereafter.	Vol. II, Sec. 2.3 System Functionality Description	2.03 - Democracy Suite ICP Functionality Description, Section 4.1.4 Data Retention 2.03 - ICE Functionality Description, Section 2.10, Data Retention 2.03 - ICC Functionality Description, Section 9.1, Transparency and Accuracy 2.03 - ICP Functionality Description, Section 2.10, Data Retention	TDP
VI, 2.2 VI, 2.2.1	Pre-Voting Capabilities Ballot Preparation			
VI, 2.2.1 VI, 2.2.1.1	General Capabilities			
	All systems shall provide the general capabilities for ballot preparation. All systems shall be capable of:			
c.	Supporting the maximum number of potentially active voting positions as indicated in the system documentation.	Vol. II, 2.2.2a, System Performance	2.03 - Democracy Suite ICP Functionality Description, Section 3.4.5.11, Ballot Production	TDP
VI, 2.2.1.3	Ballot Production Vendor documentation for mark sense systems shall include specifications for ballot materials to ensure that vote selections are read from only a single ballot at a time, without detection of marks from multiple ballots concurrently (e.g., reading of bleed-through from other ballots) Ballot and Program Installation and	see also Vol. II, 2.9.4.2 TDP, System Maintenance Manual, Parts and Materials, Paper-based Systems Vol. I, 4.1.4.2 a-b, Vote Recording Requirements, Paper-based Systems	2.09 - ICE System Maintenance Manual, Section 5.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based System 2.03 - ICP Functionality Description, Section 5, Ballot Functionality 2.03 - ICP Functionality Description, Section 3.5, Ballot Functionality 2.03 - Democracy Suite ICP Functionality Description, Section 3.4.5.11, Ballot Production 2.03 - ICE Functionality Description, Section 3, Pre-voting Capabilities	TDP
11, 4.4.3	Control			

	T			
	All systems provide a means of installing ballots and programs on each piece of polling place or central count equipment according to the ballot requirements of the election and the jurisdiction. All systems shall include the following at the time of ballot and program installation:			
a.	A detailed work plan or other documentation providing a schedule and steps for the software and ballot installation, including a table outlining the key dates, events, and deliverables.	see also Vol II, 2.8.5g. TDP, System Operation Procedures, Operating Procedures	2.08 - EMS System Operations Procedures, Section 6.1, Detailed Work Plan for Successful Ballot and Software	TDP
VI, Sec. 3	Usability and Accessibility Requirements			
3.1 VI, 3.1.1	Usability Requirements Usability Testing			
VI, 3.1.1	Cosmity Testing. The vendor shall conduct summative usability tests on the voting system using individuals representative of the general population. The vendor shall document the testing performed and report the test results using the Common Industry Format. This documentation shall be included in the Technical Data Package submitted to the EAC for national certification.	Vol. II, 2.1.1 Description of the TDP, Required Content	2.07 - Democracy Suite System Test and Verification 2.07 - SystemTestAndVerificationTestSuites ICP_MillionBallotScanTest ImageCast Evolution Usability Study ImageCast Evolution Usability Study PCOS_300B_ImageCAST_Precinct_Manufacturing_Test_Procedure ReadinessTestProcedures	TDP
	Discussion: Voting system vendors are required to conduct realistic usability tests on the final product. For the present, vendors can define their own testing protocols.	EAC RFI 2007-03 dated 9/5/07: 2005 VVSG Vol. I Sec. 3.1.1	2.07 - Democracy Suite System Test and Verification 2.07 - SystemTestAnd Verification TestSuites ICP_MillionBallotScanTest ImageCast Evolution Usability Study ImageCast Evolution Usability Study ImageCastOsabilityStudy PCOS_300B_ImageCAST_Precinct_Manufacturing_Test_Procedure ReadinessTestProcedures	TDP
EAC RFI 2007-03 dated Sept. 5, 2007	EAC Decision on Request for Interpretation 2007-03, 2005 VVSG Vol. I Section 3.1.1			
	Per EAC RFI 2007-03, the question was asked whether the manufacturer is required to submit the summative usability testing report to the VSTL conducting the testing of the voting system, or to the EAC. The EAC conclusion: "The EAC concludes that manufacturers must submit the summative usability test report required by Section 3.1.1 of the 2005 VVSG Vol. 1 to the VSTL for review. In addition, the usability test report shall be submitted to the EAC as part of the documentation manufacturers are required to file with the application to test a voting system. (continued below)		2.07 - SystemTestAndVerificationTestSuites [CP_MillonBallotScanTest ImageCast Evolution Usability Study ImageCastUsabilityStudy PCOS_300B_ImageCAST_Precinct_Manufacturing_Test_Procedure ReadinessTestProcedures	TDP
	(continued from above) This interpretation is consistent with the intent of the requirement which was to ensure that the voting system meets the usability requirements of the 2005 VVSG. Consistent with the 2005 VVSG the manufacturer must submit the usability test report to the VSTL as part of the technical data package submitted to the laboratory. The VSTL will then check the technical data package is ensure that the report is present and reported in the report is present and reported in the right is present and reported in the from industry format. If the VSTL finds the usability test report to be inconsistent with the common industry format the VSTL shall note the discrepancy in its final report to the		2.07 - Democracy Suite System Test and Verification 2.07 - SystemTestAndVerificationTestSuites [CP_MillonBallotScanTest ImageCast Evolution Usability Study ImageCastUsabilityStudy PCOS_300B_ImageCAST_Precinct_Manufacturing_Test_Procedure ReadinessTestProcedures	TDP
VI, 3.2.2.1 a.	Partial Vision The vendor shall conduct summative usability tests on the voting system using partially sighted individuals. The vendor shall document the testing performed and report the test results using the Common Industry Format. This documentation shall be included in the Technical Data Package submitted to the EAC for national certification.	Vol. II, 2.1.1 Description of the TDP, Required Content	ImageCastUsabilityStudy	TDP
	Discussion: Voting system vendors are required to conduct realistic usability tests on the final product. For the present, vendors can define their own testing protocols.		ImageCastUsabilityStudy	TDP
VI, 3.2.2.2	Blindness The vendor shall conduct summative usability tests on the voting system using individuals who are blind. The vendor shall document the testing performed and report the test results using the Common Industry Format. This documentation shall be included in the Technical Data Package submitted to the EAC for national certification.	Vol. II, 2.1.1 Description of the TDP, Required Content	ImageCastUsabilityStudy	TDP

	Te	ı		
	Discussion: Voting system vendors are required to conduct realistic usability tests on the final product. For the present, vendors can define their own testing protocols.		ImageCastUsabilityStudy	TDP
c.	All voting stations that provide audio presentation of the ballot shall conform to the following requirements:			
c. iv.	A sanitized headphone or handset shall be made available to each voter.		ImageCast Evolution Usability Study, Section 3.2.3.2, Audio Devices	TDP
	Discussion: this requirement can be achieved in various ways, including the use of "throwaway" headphones, or of sanitary coverings.		ImageCast Evolution Usability Study, Section 3.2.3.2, Audio Devices	TDP
VI, 3.2.3	Dexterity	W. I. W. O. I. D	AND TOPE OF THE PARTY OF A STANDARD AND A STANDARD	
a.	The vendor shall conduct summative usability tests on the voting system using individuals lacking fine motor control. The vendor shall document the testing performed and report the test results using the Common Industry Format. This documentation shall be included in the Technical Data Package submitted to the EAC for national certification.	Vol. II, 2.1.1 Description of the TDP, Required Content	2.03 - ICP Functionality Description, Section 2.13, Relevant Requirement References 2.03 - ICE Functionality Description, Section 7, Relevant Requirement References	TDP
	Discussion: Voting system vendors are required to conduct realistic usability tests on the final product. For the present, vendors can define their own testing		2.03 - ICP Functionality Description, Section 3.9, Relevant Requirement References 2.03 - ICE Functionality Description, Section 7, Relevant Requirement References	TDP
VI, 4	protocols. Hardware Requirements			
VI, 4.1.2	Environmental Requirements The Technical Data Package supplied by the vendor shall include a statement of all requirements and restrictions regarding environmental protection, electrical service, recommended auxiliary power, telecommunications service, and any other facility or resource required for the proper installation and operation of the system.	also Vol. II, 2.4.1 TDP, System Hardware Characteristics	2.08 - ICE System Operations Procedures, Section 2.3.1.5, Battery Types and Purpose of Environmental Regulations 2.08 - ICP System Operations Procedures, Section 2.3.1.6, Battery Types and Purpose of Environmental Regulations 2.09 - EMSSystemMaintenanceManual, Section 2.2, Direct Server Maintenance "Manufactures Manuals" 2.04.1 - ICE System Hardware Characteristics, Section 2.2, Environmental Requirements 2.04.1 - ICP System Hardware Characteristics, Section 2.2, Environmental Requirements	TDP
VI, 4.1.3.2	Memory Stability			
	Memory devices used to retain election management data shall have demonstrated error-free data retention for a period of 22 months.	Vol. II, 2.3 System Functionality Description	2.03 - Democracy Suite ICP Functionality Description, Section 4.1.4 Data Retention 2.03 - ICE Functionality Description, Section 2.10, Data Retention 2.03 - ICC Functionality Description, Section 9.1, Transparency and Accuracy 2.03 - ICP Functionality Description, Section 2.10, Data Retention	TDP
VI, 4.1.4 VI, 4.1.4.2	Vote Recording Requirements Paper Based Recording Requirements			
VI, 4.1.4 VI, 4.1.4.2 a.iii.	Vote Recording Requirements Paper Based Recording Requirements The Technical Data Package shall specify the required paper stock, size, shape, opacity, color, watermarks, field layout, orientation, size and style of printing, size and location of mark fields used for vote response fields and to identify unique ballot formats, placement of alignment marks, ink for printing, and folding and bleed-through limitations for preparation of ballots that are compatible with the system.	Vol. II, 2.9.4.2 TDP, System Maintenance Manual, Parts and Materials, Paper-based Systems also Vol. 1, 2.2.1.3 Ballot Production	2.09 - ICE System Maintenance Manual, Section 5.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based System ImageCast Printing Specification	TDP
VI, 4.1.4.2	Paper Based Recording Requirements The Technical Data Package shall specify the required paper stock, size, shape, opacity, color, watermarks, field layout, orientation, size and style of printing, size and location of mark fields used for vote response fields and to identify unique ballot formats, placement of alignment marks, ink for printing, and folding and bleed-through limitations for preparation of ballots that are compatible with the	System Maintenance Manual, Parts and Materials, Paper-based Systems also Vol. I, 2.2.1.3 Ballot	2.09 - ICE System Maintenance Manual, Section 2.3.2, Paper-Based System ImageCast Printing Specification 2.09 - ICE System Maintenance Manual, Section 5.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based System 2.04 - ICE System Hardware Specifications, Section 2.9, Imaging Technology 2.04 - ICP System Hardware Characteristics, Section 2.9, Imaging Technology	TDP
VI, 4.1.4.2	Paper Based Recording Requirements The Technical Data Package shall specify the required paper stock, size, shape, opacity, color, watermarks, field layout, orientation, size and style of printing, size and location of mark fields used for vote response fields and to identify unique ballot formats, placement of alignment marks, ink for printing, and folding and bleed-through limitations for preparation of ballots that are compatible with the system. The Technical Data Package shall specify marking devices, which, if used to make the prescribed form of mark, produce readable marked ballots such that the system meets the performance requirements for accuracy in Subsection 4.1.1. Marking devices can be either manual (such as pens or pencils) or electronic. These specifications shall	System Maintenance Manual, Parts and Materials, Papper-based Systems also Vol. 1, 2.2.1.3 Ballot Production Vol. II, 2.9.4.2 TDP, System Maintenance Manual, Parts and Materials, Paper-based Systems also Vol. 1, 2.2.1.3 Ballot	2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based System ImageCast Printing Specification 2.09 - ICE System Maintenance Manual, Section 5.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based System 2.04 - ICE System Hardware Specifications, Section 2.9, Imaging Technology	
VI, 4.1.4.2	Paper Based Recording Requirements The Technical Data Package shall specify the required paper stock, size, shape, opacity, color, watermarks, field layout, orientation, size and style of printing, size and location of mark fields used for vote response fields and to identify unique ballot formats, placement of alignment marks, ink for printing, and folding and bleed-through limitations for preparation of ballots that are compatible with the system. The Technical Data Package shall specify marking devices, which, if used to make the prescribed form of mark, produce readable marked ballots such that the system meets the performance requirements for accuracy in Subsection 4.1.1. Marking devices can be either manual (such as pens or pencils) or electronic. These specifications shall identify: i. Specific characteristics of marking devices that affect readability of marked	System Maintenance Manual, Parts and Materials, Papper-based Systems also Vol. 1, 2.2.1.3 Ballot Production Vol. II, 2.9.4.2 TDP, System Maintenance Manual, Parts and Materials, Paper-based Systems also Vol. 1, 2.2.1.3 Ballot	2.09 - ICE System Maintenance Manual, Section 2.3.2, Paper-Based System ImageCast Printing Specification 2.09 - ICE System Maintenance Manual, Section 5.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based System 2.04 - ICE System Hardware Specifications, Section 2.9, Imaging Technology 2.04 - ICP System Hardware Characteristics, Section 2.9, Imaging Technology 2.09 - ICE System Maintenance Manual, Section 5.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.9, Imaging Technology	TDP
VI. 4.1.4.2 a.iii. b.	Paper Based Recording Requirements The Technical Data Package shall specify the required paper stock, size, shape, opacity, color, watermarks, field layout, orientation, size and style of printing, size and location of mark fields used for vote response fields and to identify unique ballot formats, placement of alignment marks, ink for printing, and folding and bleed-through limitations for preparation of ballots that are compatible with the system. The Technical Data Package shall specify marking devices, which, if used to make the prescribed form of mark, produce readable marked ballots such that the system meets the performance requirements for accuracy in Subsection 4.1.1. Marking devices can be either manual (such as pens or pencils) or electronic. These specifications shall identify: i. Specific characteristics of marking devices that affect readability of marked ballots ii. Performance capabilities with regard to each characteristic	System Maintenance Manual, Parts and Materials, Papper-based Systems also Vol. 1, 2.2.1.3 Ballot Production Vol. II, 2.9.4.2 TDP, System Maintenance Manual, Parts and Materials, Paper-based Systems also Vol. 1, 2.2.1.3 Ballot	2.09 - ICE System Maintenance Manual, Section 2.3.2, Paper-Based Systems 2.09 - ICE System Maintenance Manual, Section 5.2, Paper-Based Systems 2.09 - ICF System Maintenance Manual, Section 2.3.2, Paper-Based System 2.04 - ICF System Hardware Specifications, Section 2.9, Imaging Technology 2.04 - ICF System Hardware Characteristics, Section 2.9, Imaging Technology 2.09 - ICF System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICF System Maintenance Manual, Section 2.9, Imaging Technology 2.04 - ICF System Hardware Specifications, Section 2.9, Imaging Technology 2.05 - ICF System Maintenance Manual, Section 2.9, Imaging Technology 2.06 - ICF System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICF System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICF System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICF System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICF System Maintenance Manual, Section 2.9, Imaging Technology	TDP
VI, 4.1.4.2	Paper Based Recording Requirements The Technical Data Package shall specify the required paper stock, size, shape, opacity, color, watermarks, field layout, orientation, size and style of printing, size and location of mark fields used for vote response fields and to identify unique ballot formats, placement of alignment marks, ink for printing, and folding and bleed-through limitations for preparation of ballots that are compatible with the system. The Technical Data Package shall specify marking devices, which, if used to make the prescribed form of mark, produce readable marked ballots such that the system meets the performance requirements for accuracy in Subsection 4.1.1. Marking devices can be either manual (such as pens or pencils) or electronic. These specifications shall identify: i. Specific characteristics of marking devices that affect readability of marked ballots ii. Performance capabilities with regard to each characteristic	System Maintenance Manual, Parts and Materials, Paper-based Systems also Vol. 1, 2.2.1.3 Ballot Production Vol. II, 2.9.4.2 TDP, System Maintenance Manual, Parts and Materials, Paper-based Systems also Vol. 1, 2.2.1.3 Ballot Production	2.09 - ICE System Maintenance Manual, Section 2.3.2, Paper-Based Systems 2.09 - ICE System Maintenance Manual, Section 5.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based System 2.04 - ICE System Hardware Specifications, Section 2.9, Imaging Technology 2.04 - ICP System Hardware Characteristics, Section 2.9, Imaging Technology 2.09 - ICP System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.9, Imaging Technology 2.04 - ICP System Hardware Characteristics, Section 2.9, Imaging Technology 2.09 - ICP System Maintenance Manual, Section 2.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based Systems 2.04 - ICE System Hardware Specifications, Section 2.9, Imaging Technology 2.04 - ICE System Hardware Characteristics, Section 2.9, Imaging Technology 2.05 - ICP System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICP System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICP System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICP System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICP System Hardware Specifications, Section 2.9, Imaging Technology	TDP TDP
vI. 4.1.4.2 a.iii. b.	Paper Based Recording Requirements The Technical Data Package shall specify the required paper stock, size, shape, opacity, color, watermarks, field layout, orientation, size and style of printing, size and location of mark fields used for vote response fields and to identify unique ballot formats, placement of alignment marks, ink for printing, and folding and bleed-through limitations for preparation of ballots that are compatible with the system. The Technical Data Package shall specify marking devices, which, if used to make the prescribed form of mark, produce readable marked ballots such that the system meets the performance requirements for accuracy in Subsection 4.1.1. Marking devices can be either manual (such as pens or pencils) or electronic. These specifications shall identify: i. Specific characteristics of marking devices that affect readability of marked ballots ii. Performance capabilities with regard to each characteristic iii. For marking devices manufactured by multiple external sources, a listing of sources and model numbers that are compatible with the system Ballot boxes and ballot transfer boxes, which serve as secure containers for the storage and transportation of ballots, shall: ii. Incorporate locks and seals, the specifications of which are described in the system documentation.	System Maintenance Manual, Parts and Materials, Papper-based Systems also Vol. 1, 2.2.1.3 Ballot Production Vol. II, 2.9.4.2 TDP, System Maintenance Manual, Parts and Materials, Paper-based Systems also Vol. 1, 2.2.1.3 Ballot	2.09 - ICE System Maintenance Manual, Section 2.3.2, Paper-Based Systems 2.09 - ICE System Maintenance Manual, Section 5.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based System 2.04 - ICE System Hardware Specifications, Section 2.9, Imaging Technology 2.04 - ICP System Hardware Characteristics, Section 2.9, Imaging Technology 2.09 - ICP System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.9, Imaging Technology 2.04 - ICP System Hardware Characteristics, Section 2.9, Imaging Technology 2.09 - ICP System Maintenance Manual, Section 2.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3.2, Paper-Based Systems 2.04 - ICE System Hardware Specifications, Section 2.9, Imaging Technology 2.04 - ICE System Hardware Characteristics, Section 2.9, Imaging Technology 2.05 - ICP System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICP System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICP System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICP System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICP System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICP System Hardware Specifications, Section 2.9, Imaging Technology	TDP TDP
VI. 4.1.4.2 a.iii. b.	Paper Based Recording Requirements The Technical Data Package shall specify the required paper stock, size, shape, opacity, color, watermarks, field layout, orientation, size and style of printing, size and location of mark fields used for vote response fields and to identify unique ballot formats, placement of alignment marks, ink for printing, and folding and bleed-through limitations for preparation of ballots that are compatible with the system. The Technical Data Package shall specify marking devices, which, if used to make the prescribed form of mark, produce readable marked ballots such that the system meets the performance requirements for accuracy in Subsection 4.1.1 Marking devices can be either manual (such as pens or pencils) or electronic. These specifications shall identify: i. Specific characteristics of marking devices that affect readability of marked ballots ii. Performance capabilities with regard to each characteristic iii. For marking devices manufactured by multiple external sources, a listing of sources and model numbers that are compatible with the system Ballot boxes and ballot transfer boxes, which serve as secure containers for the storage and transportation of ballots, shall: ii. Incorporate locks and seals, the specifications of which are described in	System Maintenance Manual, Parts and Materials, Papper-based Systems also Vol. 1, 2.2.1.3 Ballot Production Vol. II, 2.9.4.2 TDP, System Maintenance Manual, Parts and Materials, Paper-based Systems also Vol. 1, 2.2.1.3 Ballot Production also Vol. 11, 2.9.4.2 TDP, System Maintenance Manual, Parts and Materials, Paper-based	2.09 - ICE System Maintenance Manual, Section 2.3.2, Paper-Based Systems 2.09 - ICE System Maintenance Manual, Section 5.2, Paper-Based Systems 2.09 - ICF System Maintenance Manual, Section 2.3.2, Paper-Based System 2.04 - ICF System Hardware Specifications, Section 2.9, Imaging Technology 2.04 - ICF System Hardware Characteristics, Section 2.9, Imaging Technology 2.09 - ICF System Maintenance Manual, Section 2.3.2, Paper-Based Systems 2.09 - ICF System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICF System Maintenance Manual, Section 2.9, Imaging Technology 2.04 - ICF System Hardware Characteristics, Section 2.9, Imaging Technology 2.09 - ICF System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICF System Maintenance Manual, Section 2.3, Paper-Based Systems 2.04 - ICF System Maintenance Manual, Section 2.9, Imaging Technology 2.04 - ICF System Hardware Characteristics, Section 2.9, Imaging Technology 2.04 - ICF System Maintenance Manual, Section 2.2, Imaging Technology 2.09 - ICF System Maintenance Manual, Section 2.3, Paper-Based Systems 2.09 - ICF System Maintenance Manual, Section 2.9, Imaging Technology 2.04 - ICF System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICF System Maintenance Manual, Section 2.9, Imaging Technology 2.09 - ICF System Hardware Characteristics, Section 2.9, Imaging Technology 2.04 - ICF System Hardware Specifications, Section 2.9, Imaging Technology 2.05 - ICF System Hardware Specifications, Section 2.9, Imaging Technology 2.06 - ICF System Hardware Specification, Section 2.9, Imaging Technology 2.07 - ICF System Hardware Specification, Section 2.9, Imaging Technology 2.08 - ICF System Hardware Specification, Section 2.9, Imaging Technology 3.08 - ICF System Hardware Specification Security Measures 3.08 - ICF System Operation Procedures, Appendix D, How and Where to Apply Security Seals	TDP TDP TDP

a.	Ballot handling consists of a ballot card's acceptance, movement through the read station, and transfer into a collection station or receptacle. The capacity to convert the marks on individual ballots into signals is uniquely important to central count systems. The capacity for a central count systems shall be documented by the vendor. This documentation shall include the capacity for individual components that impact the overall capacity.	Vol. II, 2.2.2 System Performance	2.03 - ICC Functionality Description, Section 6.4.1, Inserting Ballots 2.03 - ICP Functionality Description, Section 3.3.2, Inserting Ballots 2.03 - ICC Functionality Description, Section 4.2, Inserting Ballot	TDP
VI, 4.1.6 VI, 4.1.6.1	Tabulation Processing Requirements Paper-based System Processing			
b.	Requirements Paper-based system memory devices, used to retain control programs and data, shall have demonstrated error-free data retention for a period of 22 months, under the environmental conditions for operation and non-operation (i.e., storage).	Vol. II, 2.3 System Functionality Description	2.03 - Democracy Suite ICP Functionality Description, Section 4.1.4 Data Retention 2.03 - ICE Functionality Description, Section 2.10, Data Retention 2.03 - ICC Functionality Description, Section 9.1, Transparency and Accuracy 2.03 - ICP Functionality Description, Section 2.10, Data Retention	TDP
VI, 4.1.6.2	DRE System Processing Requirements			
	The DRE voting systems processing requirements address all mechanical devices, electromechanical devices, electronic devices, and software required to process voting data after the polls are closed.			
с.	DRE system memory devices used to retain control programs and data shall have demonstrated error-free data retention for a period of 22 months. Error-free retention may be achieved by the use of redundant memory elements, provided that the capability for conflict resolution or correction among elements is included.	Vol. II, 2.3 System Functionality Description	N/A	TDP
VI, 4.1.7 VI, 4.1.7.1	Reporting Requirements Removable Storage Media			
	In voting systems that use storage media that can be removed from the voting system and transported to another location for readout and report generation, these media shall use devices with demonstrated error-free retention for a period of 22 months under the environmental conditions for operation and non-operation contained in Subsection 4.1.2. Examples of removable storage media include: programmable read-only memory (PROM), random access memory (RAM) with battery backup, magnetic media, or optical media.	Vol. II, 2.3 System Functionality Description	2.03 - Democracy Suite ICP Functionality Description, Section 4.1.4 Data Retention 2.03 - ICE Functionality Description, Section 2.10, Data Retention 2.03 - ICC Functionality Description, Section 9.1, Transparency and Accuracy 2.03 - ICP Functionality Description, Section 2.10, Data Retention	TDP
VI, 4.1.7.2	Printers			
11, 7.1.7.2	All printers used to produce reports of the vote count shall be capable of producing:	Vol. II, 2.4 System Hardware		
a.	Alphanumeric headers;		Advanced Printing Systems LTPC Series Line Thermal Printer Mechanism Technical Reference ICP - Printed Report from Unit ICE - Printed report from Unit	TDP
b.	Election, office and issue labels; and		Advanced Printing Systems LTPC Series Line Thermal Printer Mechanism Technical Reference ICP - Printed Report from Unit ICE - Printed report from Unit	TDP
c.	Alphanumeric entries generated as part of the audit record.		Advanced Printing Systems LTPC Series Line Thermal Printer Mechanism Technical Reference ICP - Printed Report from Unit ICE - Printed report from Unit	TDP
VI, 4.2	Physical Characteristics	also Vol II, 2.4.1 System Hardware Characteristics		
VI, 4.2.1	Size There is no numerical limitation on the size of any voting equipment, but the size of each voting should be compatible with its intended use and the location at which the equipment is to be used.	Vol. II, 2.4 System Hardware	2.04 - ICE System Hardware Specifications, Section 2.8 Ballot Box 2.04 - ICP System Hardware Specifications, Section 2.8 Ballot Box 2.04.1 - ICE System Hardware Characteristics, Section 3, Physical Characteristics 2.04.1 - ICP System Hardware Characteristics, Section 3, Physical Characteristics 2.03 - ICP Functionality Description, Section, 2.10.1, Description	TDP
VI, 4.2.2			·	
V1, 4.2.2	Weight There is no numerical limitation on the weight of any voting equipment, but the weight of each voting machine should be compatible with its intended use and the location at which the equipment is to be used.	Vol. II, 2.4 System Hardware	2.04 - ICE System Hardware Specifications, Section 2.8 Ballot Box 2.04 - ICP System Hardware Specifications, Section 2.8 Ballot Box 2.04.1 - ICE System Hardware Characteristics, Section 3, Physical Characteristics 2.04.1 - ICP System Hardware Characteristics, Section 3, Physical Characteristics 2.03 - ICP Functionality Description, Section, 2.10.1, Description	TDP
VI, 4.2.3	Transport and Storage of Precinct Systems			
b.	All precinct voting systems shall: [precinct voting systems] Be capable of using, or be provided with, a protective enclosure rendering the equipment capable of withstanding:			

	 Stacking loads associated with storage. 	Vol. II, 2.4.1 b, System Hardware	2.04.1 - ICE System Hardware Characteristics, Section 3, Physical Characteristics 2.04.1 - ICP System Hardware Characteristics, Section 3, Physical Characteristics	TDP
VI, 4.3	Design, Construction, and			
W 424	Maintenance Characteristics			
/I, 4.3.1	Materials, Processes, and Parts All voting systems shall:			
o.	Include, as part of the accompanying TDP, an approved parts list.	see Vol. II, 2.9.4.1 TDP, System Maintenance Manual, Parts and Materials	2.09 - ICE System Maintenance Manual, Section 4.2, Parts and Materials 2.09 - ICP System Maintenance Manual, Section 4.1.2, Parts and Materials 2.09 - EMSSystemMaintenanceManual, Section 2.5, Parts and Materials 2.04.1 - ICE System Hardware Characteristics, Section 3.4.1, Materials, Processes and Parts 2.04.1 - ICP System Hardware Characteristics, Section 3.4.1, Materials, Processes and Parts ICE Approved Parts List ImageCastPrecinctApprovedPartsList	TDP
/I, 4.3.2	Durability			
	All voting systems shall be designed to withstand normal use without deterioration and without excessive maintenance cost for a period of ten years.	Vol. II, 2.4.1 System Hardware Design, System Hardware Characteristics; EAC RFI 2008-05 eff. Date 7/30/08: 2005 VVSG Vol. I Sec. 4.3.2 Durability	2.04.1 - ICE System Hardware Characteristics, Section 3.4.2.2, Durability of Mechanical Parts 2.04.1 - ICP System Hardware Characteristics, Section 3.4.2.2, Durability of Mechanical Parts	TDP
EAC RFI 2008-05, effective date July 30, 2008	EAC Decision on Request for Interpretation 2008-05: 2005 VVSG Vol. I Section 4.3.2, Durability			
	Per EAC RFI 2008-05: Question: How are the VSTL sexpected to evaluate this requirement? Per EAC."Until more research is done on this issue and clear scientific guidance is available, voting system manufacturers shall provide the VSTL with a signed statement of compliance for this standard. VSTLs should review the compliance statement and accept the statement unless VSTL engineering analysis and interaction with the system during the testing process would bring the durability of the system into question. In addition, additional review may be required in those instances where experience with fielded versions of the certified voting system show obvious problems related to the lack of durability".		February 8, 2012 Attestation Letter from Edwin B Smith, III	Letter
VI, 4.3.5	Availability			
,10	The availability of a voting system is defined as the probability that the equipment (and supporting software) needed to perform designated voting functions will respond to operational commands and accomplish each function. The voting system shall meet the availability standard for each of the following voting functions:	Vol. I, 2.2.2 b. System Performance: Vol. II, 2.9.5 a-c TDP, System Maintenance Manual, Maintenance Facilities and Support		
	Vendors shall specify the typical system configuration that is to be used to assess availability and any assumptions made with regard to any parameters that impact the MTTR. These factors shall include at a minimum:			
ė.	Recommended number and locations of spare devices or components to be kept on hand for repair purposes during periods of system operation.		2.09 - ICE System Maintenance Manual, Section, 6, Maintenance Facilities and Support 2.09 - ICP System Maintenance Manual, Section 2.4, Maintenance Facilities and Support 2.09 - EMSSystemMaintenanceManual, Section 2.6, Maintenance Facilities and Support	TDP
f.	Recommended number and locations of qualified maintenance personnel who need to be available to support repair calls during system operation.		2.09 - ICE System Maintenance Manual, Section, 6, Maintenance Facilities and Support 2.09 - ICP System Maintenance Manual, Section 2.4, Maintenance Facilities and Support 2.09 - EMSSystemMaintenanceManual, Section 2.1.5, Personnel Requirements	TDP
g.	Organizational affiliation (i.e., jurisdiction, vendor) of qualified maintenance personnel.		2.09 - ICE System Maintenance Manual, Section 3, Maintenance Procedures 2.09 - ICP System Maintenance Manual, Section 2.4, Maintenance Facilities and Support 2.09 - EMSSystemMaintenanceManual, Section 2.1.5, Personnel Requirements	TDP
VI, 4.3.7	Workmanship			
	To help ensure proper workmanship, all manufacturers of voting systems shall:	Vol. I, 8.2 QA Requirements, General Requirements; Vol. II, 2.12 Quality Assurance		
a.	Adopt and adhere to practices and procedures to ensure that their products are free from damage or defect making them unsatisfactory for their intended purpose; and		2.04.1 - ICE System Hardware Characteristics, Section 3.5.5, Workmanship 2.04.1 - ICP System Hardware Characteristics, Section 3.5.5, Workmanship	TDP
b.	Ensure that components provided by external suppliers are free from damage or defect making them unsatisfactory for their intended purpose.	Vol. II, 7.5 Examination of Quality Assurance Practices	2.12 - Democracy Suite Quality Assurance Program, Section 2.3, Components From Third Parties	TDP

	Configuration of software, both operating systems and applications, is critical to proper system functioning Therefore, the vendors shall submit a record of all user selections made during software installation as part of the Technical Data Package.	VII, 2.8.3, System Installation and Test Specification	2.08 - EMS System Operation Procedures, Section 4, System Installation and Test Specification, ff EED - included w.2.08 EMS System Operation Procedures 2.08 - ICE System Operation Procedures, Section 6.6, Ballot and Program Installation & System Configuration 2.08 - ICC System Operation Procedures, Section 3, System Installation and Test Specification 2.08 - ICP System Operation Procedures, Section 6.6, Ballot and Program Installation & System Configuration 2.08 TR User Guide, Section 3, Software Start	TDP
	The vendor shall also submit a record of all configuration changes made to the software following its installation.		2.08 - EMS System Operation Procedures, Section 4, System Installation and Test Specification, ff EED - included w/2.08 EMS System Operation Procedures 2.08 - ICE System Operation Procedures, Section 6.6, Ballot and Program Installation & System Configuration 2.08 - ICC System Operation Procedures, Section 3, System Installation and Test Specification 2.08 - ICP System Operation Procedures, Section 6.6, Ballot and Program Installation & System Configuration 2.08 RTR User Guide, Section 3, Software Start	TDP
VI, 5.2.6	Coding Conventions			
	Voting system software shall adhere to basic coding conventions. The coding conventions used shall meet one of the following conditions:	also Vol. II, 2.5.4 e. TDP, Software Design and Specification, Software Standards and Conventions		
a.	The vendors shall identify the published, reviewed, and industry-accepted coding conventions used and the accredited test lab shall test for compliance.		2.05 - EMS Software Design And Specification, Section 4, Software Overview 2.05 - ICE Software Design and Specification, Section 2, Software Overview 2.05 - ICP Software Design And Specification, Section 2, Software Overview 2.05 - ICCSoftwareDesignAndSpecification, Section 2, Software Overview DominionVotingC_C++CodingStandard	TDP
VI, 5.3	Data and Document Retention			
a.	All systems shall: Maintain the integrity of voting and audit data during an election, and for at least 22 months thereafter, a time sufficient to resolve most contested elections and support other activities related to the reconstruction and investigation of a contested election.	Vol. II, Sec. 2.3 System Functionality Description	2.03 - Democracy Suite ICP Functionality Description, Section 4.1.4 Data Retention 2.03 - ICE Functionality Description, Section 2.10, Data Retention 2.03 - ICC Functionality Description, Section 9.1, Transparency and Accuracy 2.03 - ICP Functionality Description, Section 2.10, Data Retention	TDP
VI, Sec. 7	Security Requirements	Vol. I, 2.1.1 Overall System, Security; Vol. II, 2.6 Security Specifications; Vol. I, Sec. 6 Telecommunications Requirements		
VI, 7.2.1	General Access Control Policy	1 1/1 1/2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	100 D	
	The vendor shall specify the general	also Vol. II, 2.6.1 TDP, System Security	2.06 - Democracy Suite System Security Specification, Section 4, Access Control Policy and Measures	
	features and capabilities of the access	Specification, Access		TDP
	control policy recommended to provide effective voting system security.	Control Policy		
	Although the jurisdiction in which the voting system is operated is responsible for determining the access policies for each election, the vendor shall provide a description of recommended policies for:			
a.	Software access controls;		2.06 - Democracy Suite System Security Specification, Section 4.5.1.1, Software Access Control Policy	TDP
b.	Hardware access controls;		2.06 - Democracy Suite System Security Specification, Section 4.5.1.1, Software Access Control Policy	TDP
c.	Communications;		2.06 System Security Specification, Section 4.5.1.3, Communications	TDP
d.	Effective password management;		2.06 - Democracy Suite System Security Specification, Section 4.5.1.4, Effective Password Management	TDP
e.	Protection abilities of a particular operating system;		2.06 - Democracy Suite System Security Specification, Section 4.5.1.5, Protection Abilities of a Particular Operating System	TDP
f.	General characteristics of supervisory access privileges;		2.06 - Democracy Suite System Security Specification, Section 4.5.1.10, General Characteristics of Supervisory Access Privileges	TDP
g.	Segregation of duties; and		2.06 - Democracy Suite System Security Specification, Section 4.5.1.11, Segregation of Duties	TDP
h.	Any additional relevant characteristics.		2.06 - Democracy Suite System Security Specification, Section 4.5.1.12, Any Additional Relevant Characteristics	TDP
VI, 7.2.1.1	Individual Access Privileges			
	Voting system vendors shall: a. Identify each person to whom access is	also Vol. II, 2.6.1 TDP, System Security Specification, Access Control Policy	206 Democratic Scales Search Search Search Search 15 Sea	
a.	granted, and the specific functions and data to which each person holds authorized access.		2.06 - Democracy Suite System Security Specification, Section 4.5, Summary of Access Control Requirements	TDP
b.	 Specify whether an individual's authorization is limited to a specific time, time interval, or phase of the voting or counting operations. 		2.06 - Democracy Suite System Security Specification, Section 4.5, Summary of Access Control Requirements	TDP
c.	c. Permit the voter to cast a ballot expeditiously, but preclude voter access to all aspects of the vote counting process.		2.06 System Security Specification, Section 4.5.4.1, Voter Access Control and Privileges.	TDP
VI, 7.2.1.2	Access Control Measures	Vol. II, 2.6.2 TDP, System Security Specification, Access Control Measures		
	Vendors shall provide a detailed description of all system access control measures designed to permit authorized access to the system and prevent unauthorized access.		2.06 System Security Specification, Section 4.5.3, Access Control Measures	TDP
	Examples of such measures include: Use of data and user authorization		2.06 System Security Specification, Section, 4.5.3.1, Use of Data and User Authorization	
9	OSC OI UATA ANU USCI MUHOHZMION		2.00 System Security Specification, Section, 4.3.3.1, Ose of Data and Oser Additionzation	TDP
a. b.	Program unit ownership and other		2.06 System Security Specification, Section 4.5.3.2, Program Unit Ownership and Other Regional Boundaries	mr
a. b.	Program unit ownership and other regional boundaries One-end or two-end port protection		2.06 System Security Specification, Section 4.5.3.2, Program Unit Ownership and Other Regional Boundaries 2.06 System Security Specification, Section 4.5.3.3, One-end or two-end port protection devices	TDP

Security control by the company of t	d		Security kernels		2.06 System Security Specification, Section 4.5.3.3, Security Kernels.	
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Source conception District State State District Sta	e		Computer-generated password keys		2.06 System Security Specification, Section 4.5.3.5, Computer-generated Password Keys	TDP
Committed across searching and promotes Disposition	f.		Special protocols		2.06 System Security Specification, Section, 4.5.3.6 Special Protocols	TDP
Committed access notwing whether the expression of members and the correspondence of the production of the correspondence of	g	ŗ.	Message encryption		2.06 System Security Specification, Section 4.5.3.6, Message Encryption contains information.	TDP
The content and content of the conte	h	1.	Controlled access security		2.06 System Security Specification, Section 4.5.3.7. Controlled Access Security discusses.	
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Top					2.06 System Security Specification, Section 4.5.5.9, Unauthorized Access to the Access Control Capabilities	
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Security precedures what allowed policy and transcent of the security of the s			control capabilities of the system itself.			
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Value State Control Control Execution Value State Value Value Value Value Value Value Value Value Va			a telecommunications link if such a link is			TDP
detail the measures to be taken in a contral counting environment. These measures shall include gives/count and reproductal management of the procedural of	V	/I, 7.3.2	Central Count Location Security			
coming environment. These measures shall include physical and procedural corner's related to the handling of balled brees, propring of balled for counting counting operations and reporting data. Voting systems shall most specific search of the posterior against malicious with a procedural environment of the search of the posterior and reporting data.					2.06 - Democracy Suite System Security Specification, Section 5.4.2, Central Count Location Physical Security	
counter related to the handling of ballets have, preparing of ballets for continuin operations and reporting data. V. J. A. Software Security Voting systems shall meet specific security equations and for protection against malicious V. J. A. Software and Firmware streamfall mentalization and for protection against malicious V. J. A. Software and Firmware streamfall mentalization and for protection against malicious V. J. A. Software and Firmware streamfall mentalization for equations of the system of scale for specific security of the system of the sys			counting environment. These measures			
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a. The vendor shall document all software including voting system software, third party software (such as operating systems and drivers) to be installation programs. Vol. II. 2.6.4 TDP, System 2.05 - EMS Software Design and Specification, Section 4.5, Certification of Third Party Software Components Security Specification, Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICE Software Design and Specifications, Section 2.3, Identification of All Software Items TDP 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items TDP 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items TDP 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items TDP 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICP Software Items 2.0		/I, 7.4.4				
party software (such as operating systems and drivers) to be installed on the certified votine system. All software Items 2.05 - ICE Software Design and Specifications, Section 2.3, Identification of All Software Items 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items	a	L.	The vendor shall document all software			
and drivers) to be installed on the certified votine system, and installation programs. 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items	G					TDB
	U		and drivers) to be installed on the certified			IDP
	D D		voting system, and installation programs.			

E L I N E S		i. The documentation shall have a unique identifier (such as a serial number or part number) for the following set of information: documentation, software vendor name, product name, version, the certification application number of the voting system, file names and paths or other location information (such as storage addresses) of the software. ii. The documentation shall designate all	Vol. II, 2.6.4 TDP, System Security Specification, Software Installation	2.05 - EMS Software Design and Specification, Section 4.5, Certification of Third Party Software Components 2.05 - ICC Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICE Software Design and Specifications, Section 2.3, Identification of All Software Items 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.05 - ICP Software Design and Specifications, Section 2.0.3, Identification of All Software Items 2.06 - Democracy Suite System Security Specification, Section 6.1.11.1, Static Semi-Static and Dynamic Files	TDP
O L		software files as static, semi-static, or	Security Specification, Software Installation	2.00 - Democracy Suite System Security Specification, Section 6.1.11.1, Static Semi-static and Dynamic Files	TDP
U M E I VERSION 1.0		dynamic. Discussion: Static voting system software such as executable code does not change based on the election being conducted or the voting equipment upon which it is installed. Semi-static voting system software contains configuration information for the voting system based on the voting equipment that is installed and the election being conducted. Semi-static software is only modified during the installation of (a) the voting system software or voting equipment or (b) the election-specific software such as ballot formats. Dynamic voting system software changes over time once installed on voting equipment. However, the specific time or value of the change in the dynamic software is usually unknown in advance, making it impossible to create reference information to verity the software.		2.06 - Democracy Suite System Security Specification, Section 6.1.11.1, Static Semi-Static and Dynamic Files	TDP S
1	/I, 7.4.6	Software Setup Validation The vendor shall have a process to verify	Vol. II, 2.6.4 TDP, System	2.06 - Democracy Suite System Security Specification, Section 6.1.10, Software Setup Validation	
	•	the ventor shall have a process to verify that the correct software is loaded, that there is no unauthorized software, and that voting system software on voting equipment has not been modified, using the reference information from the NSRL or from a State designated repository.	vol. 11, 20.4 IDF, system Security Specification, Software Installation	2000 Zemocney outcoynen occury openicanou, sector 0.1.10, Software setup variation	TDP
		 The vendor shall document the process used to verify software on voting equipment. 		2.06 - Democracy Suite System Security Specification, Section 6.1.10, Software Setup Validation	TDP
f.		Setup validation methods shall verify that registers and variables of the voting system equipment contain the proper static and initial values.		2.06 - Democracy Suite System Security Specification, Section 6.1.10, Software Setup Validation	TDP
		ii. The vendor shall document the values of all static registers and variables, and the initial starting values of all dynamic registers and variables listed for voting system software, except for the values set to conduct a specific election.		2.06 - Democracy Suite System Security Specification, Section 6.1.10, Software Setup Validation	TDP
Ī	/I, 7.5	Telecommunications and Data			
X a	VI, 7.5.2	Transmission Protection Against External Threats Voting systems that use public telecommunications networks shall implement protections against external threats to which commercial products used in the system may be susceptible.	Vol. II, 2.6.5 Telecommunications and Data Transmission Security		
b		Voting systems that use public telecommunications networks shall provide system documentation that clearly identifies all COTS hardware and software products and communications services used in the development and/or operation of the voting system, including operating systems, communications routers, modern drivers, and dial-up networking software.	Vol. II, 2.6.5 TDP, System Security Specification, Telecommunications and Data Transmission Security; Vol. II, 2.2.1 e. System Description	2.06 - Democracy Suite System Security Specification, Section 7, Telecommunications, Data Transmission and Public Communication	TDP
		Such documentation shall identify the name, vendor, and version used for each such component.		2.06 - Democracy Suite System Security Specification, Section 7, Telecommunications, Data Transmission and Public Communication	TDP
1	/I, 7.5.3	Monitoring and Responding to External Threats			
		Therefore, vendors of such [voting systems that use public telecommunications] shall document how they plan to monitor and respond to known threats to which their voting systems are vulnerable. This documentation shall provide a detailed description, including scheduling information, of the procedures the vendor will use to:	also Vol. II, 2.6.5 TDP, System Security Specification, Telecommunications and Data Transmission Security		
a	ı	Monitor threats, such as through the review of assessments, advisories, and alerts for COTS components issued by the Computer Emergency Response Team (CERT), the National Infrastructure Protection Center (NIPC), and the Federal Computer Incident Response Capability (FedCIRC);		2.06 - Democracy Suite System Security Specification, Section 7.3, Monitoring and Responding to External Threats	TDP

1.	Forbott de dont of 1 if on a soul	1	2.00 December 17 D	1
b.	Evaluate the threats and, if any, proposed responses;		2.06 - Democracy Suite System Security Specification, Section 7.3, Monitoring and Responding to External Threats	TDP
c.	Develop responsive updates to the system and/or corrective procedures;		2.06 - Democracy Suite System Security Specification, Section 7.3, Monitoring and Responding to External Threats	TDP
d.	Submit the proposed response to test labs and appropriate states for approval, identifying the exact changes and whether or not they are temporary or permanent;		2.06 - Democracy Suite System Security Specification, Section 7.3, Monitoring and Responding to External Threats	TDP
e.	After implementation of the proposed response is approved by the state, assist clients, either directly or through detailed written procedures, how to update their systems and/or to implement the corrective procedures within the timeframe established by the state.		2.06 - Democracy Suite System Security Specification, Section 7.3, Monitoring and Responding to External Threats	TDP
f.	Address threats emerging too late to correct the system by:			
	i. Providing prompt, emergency notification to the accredited test labs and the affected states and user jurisdictions;		2.06 - Democracy Suite System Security Specification, Section 7.3, Monitoring and Responding to External Threats	TDP
	ii. Assisting client jurisdictions directly, or advising them through detailed written procedures, to disable the public telecommunications mode of the system; and		2.06 - Democracy Suite System Security Specification, Section 7.3, Monitoring and Responding to External Threats	TDP
	iii. Modifying the system after the election to address the threat, submitting the modified system to an accredited test lab and the EAC or appropriate state certification authority for approval, and assisting elient jurisdictions directly or advising them through detailed written procedures, to update their systems and/or to implement the corrective procedures after approval.		2.06 - Democracy Suite System Security Specification, Section 7.3, Monitoring and Responding to External Threats	TDP
VI, 7.6	Use of Public Communications Networks			
VI, 7.6.2	Casting Individual Ballots			
VI, 7.6.2.1	Documentation of Mandatory Security Activities			
	Vendors of voting systems that cast individual ballots over a public telecommunications network shall provide detailed descriptions of:	Vol. II, 2.6.5 TDP, System Security Specification, Telecommunications and Data Transmission Security		
a.	All activities mandatory to ensuring effective system security to be performed in setting up the system for operation, including testing of security before an election.		2.06 - Democracy Suite System Security Specification, Section 7.3, Monitoring and Responding to External Threats	TDP
b.	All activities that should be prohibited during system setup and during the time frame for voting operations, including both the hours when polls are open and when polls are closed.		2.06 - Democracy Suite System Security Specification, Section 7.3, Monitoring and Responding to External Threats	TDP
VI, 7.7	Wireless Communications			
	Wireless is defined as any means of communications that occurs without wires. This normally covers the entire electromagnetic spectrum. For the purposes of this section, wireless includes radio frequency, infrared, and microwave.			
VI, 7.7.1	Controlling Usage	see also Vol. II, 2.6.5 TDP, System Security Specification, Telecommunications and Data Transmission Security		
a.	If wireless communications are used in a voting system, then the vendor shall supply documentation describing how to use all aspects of wireless communications in a secure manner. This documentation shall include:		2.06 - Democracy Suite System Security Specifications, Section 8, Wireless Communications	TDP
	i. A complete description of the uses of wireless in the voting system including descriptions of the data elements and signals that are to be carried by the wireless mechanism.		2.06 - Democracy Suite System Security Specifications, Section 8, Wireless Communications	TDP
	ii. A complete description of the vulnerabilities associated with this proposed use of wireless, including vulnerabilities deriving from the insertion, deletion, modification, capture, or suppression of wireless messages.		2.06 - Democracy Suite System Security Specifications, Section 8, Wireless Communications	TDP

	iii. A complete description of the techniques used to mitigate the risks associated with the described vulnerabilities including techniques used by the vendor to ensure that wireless cannot send or receive messages other than those situations specified in the documentation. Cryptographic techniques shall be carefully and fully described, including a description of cryptographic key generation, management, use, certification, and destruction.		2.06 - Democracy Suite System Security Specifications, Section 8, Wireless Communications 2.06 - Democracy Suite System Security Specifications, Section 8, Wireless Communications	TDP
	wireless in the proposed voting system, based on a careful and complete description of the perceived advantages and disadvantages of using wireless for the documented uses compared to using non-wireless approaches			TDP
	iv. Discussion: In general, convenience is not a sufficiently compelling reason, on its own, to justify the inclusion of wireless communications in a voting system. Convenience must be balanced against the difficulty of working with cryptographic keys.		2.06 - Democracy Suite System Security Specifications, Section 8, Wireless Communications	TDP
b.	The details of all cryptographic protocols used for wireless communications, including the specific features and data, shall be documented.		2.06 - Democracy Suite System Security Specifications, Section 8, Wireless Communications	TDP
e.	If a voting system includes wireless capabilities, then the voting system shall be able to accomplish the same function if wireless capabilities are not available due to an error or no service.		2.06 - Democracy Suite System Security Specifications, Section 8, Wireless Communications	TDP
	 The vendor shall provide documentation how to accomplish these functions when wireless is not available. 		2.06 - Democracy Suite System Security Specifications, Section 8, Wireless Communications	TDP
VI, 7.7.2	Identifying Usage			
V1, 7.7.2	If a voting system provides wireless capabilities, then the type of wireless communications used (such as radio frequencies) shall be identified either via a label or via the voting system	see also Vol. II, 2.6.5 TDP, System Security Specification, Telecommunications and Data Transmission Security	2.06 - Democracy Suite System Security Specifications, Section 8, Wireless Communications	TDP
VI, 7.9	documentation.			
V1, 7.9	Voter Verifiable Paper Audit Trail Requirements			
	VVPAT is not required for national certification. However, these requirements will be applied for certification testing of DRE systems that are intended for use in states that require DREs to provide this canability.		N/A - VVPAT is not part of the tested system	TDP
VI, 7.9.2	Voter Verifiable Paper Audit Trail Requirements, Approve or Void the Paper Record			
e.	Vendor documentation shall include procedures to enable the election official to return a voting machine to correct operation after a voter has used it incompletely or incorrectly. This procedure shall not cause discrepancies between the tallies of the electronic and paper records.	Vol. II, 2.3 System Functionality Description	N/A - VVPAT is not part of the tested system	TDP
VI, 7.9.3	Voter Verifiable Paper Audit Trail Requirements, Electronic and Paper Record Structure			
e.	iii. The voting system vendor shall provide documentation as to the structure of the exported ballot image records and how they shall be read and processed by software.	Vol. II, 2.7.2e, National Certification Test Specifications	N/A - VVPAT is not part of the tested system	TDP
e.	v. The voting system vendor shall provide full documentation of procedures for exporting electronic ballot image records and reconciling those records with the paper audit records.	Vol. II, 2.2.2 b. System Performance	N/A - VVPAT is not part of the tested system	TDP
VI, 7.9.4	Equipment Security and Reliability	Vol. II, 2.2.2 b. System		
L.	Vandor documentation ab 11 in 1 - 1	Performance	Advanced Printing Systems	
K.	Vendor documentation shall include procedures for investigating and resolving printer malfunctions including, but not limited to; printer operations, misreporting of votes, unreadable paper records, and power failures.		Advanced Printing Systems LTPC Series Line Thermal Printer Mechanism Technical Reference 2.04 - ICE System Hardware Specifications 2.04 - ICP System Hardware Characteristics	TDP
1.	Vendor documentation shall include printer reliability specifications including		Advanced Printing Systems LTPC Series Line Thermal Printer Mechanism Technical Reference2.04 - ICE System Hardware Specifications 2.04 - ICP System Hardware Characteristics	
	Mean Time Between Failure estimates, and shall include recommendations for appropriate quantities of backup printers and supplies.		2.04 - ICL System Hadware Characteristics	TDP
VI, Sec. 8	and shall include recommendations for appropriate quantities of backup printers and supplies. Quality Assurance Requirements		2.04 - C.I. System Hattware Characteristics	TDP
VI, Sec. 8 VI, 8.1 VI, 8.2	and shall include recommendations for appropriate quantities of backup printers and supplies.		2.04 - C.I. System Hattware Characteristics	TDP

		I	1		
		The voting system vendor is responsible	also Vol. II, 2.12 TDP, Quality Assurance		
		for designing and implementing a quality assurance program to ensure that the	Program;		
		design, workmanship, and performance	also Vol. II, 7.5		
		requirements are achieved in all delivered	Examination of Quality		
		systems and components. At a minimum	Assurance Practices		
		this program shall:			
ŀ	a.	Include procedures for specifying,		2.12 - Democracy Suite Quality Assurance Program, Section 2.3, Components From Third Parties	
		procuring, inspecting, accepting, and			TDP
		controlling parts and raw materials of the			IDP
L		requisite quality:			
	b.	Require the documentation of the		2.12 - Democracy Suite Quality Assurance Program, Section 2.2.2, Pre-testing Conformance Inspections in the	
		hardware and software development		Hardware's Development and Build Phase discusses.	TDP
ŀ	r	process: Identify and enforce all requirements for:			
		racinity and emoree an requirements for:			
		i. In-process inspection and testing that		2.12 - Democracy Suite Quality Assurance Program, Section 2.3, Components From Third Parties	
		the manufacturer deems necessary to			TDP
		ensure proper fabrication and assembly of			IDI
		hardware			
		ii. Installation and operation of software		2.12 - Democracy Suite Quality Assurance Program, Section 2.12, Quality Assurance Process, Sec. 2.2.1 Pre-Testing	TDP
		and firmware		Conformance Inspections in Software Development and Build Phases	IDP
ı	d.	Include plans and procedures for post-		2.12 - Democracy Suite Quality Assurance Program, Section 2.2, Quality Assurance Procedures	
		production environmental screening and		223, Quanty Institute Crossesson	TDP
		acceptance testing			
	e.	Include a procedure for maintaining all		2.12 - Democracy Suite Quality Assurance Program, Section 2, Quality Assurance Program.	
		data and records required to document and			TDP
		verify the quality inspections and tests.			
	VI, 8.3	Components from Third Parties			
	, 0.0	A vendor who does not manufacture all	Vol. II, 2.12 Quality	2.12 - Democracy Suite Quality Assurance Program, Section 2.3, Components From Third Parties	
		the components of its voting system, but	Assurance	7	
		instead procures components as standard			
		commercial items for assembly and			
		integration into a voting system, shall			TDP
		verify that the supplier vendors follow			
		documented quality assurance procedures			
		that are at least as stringent as those used internally by the voting system vendor.			
		internally by the voting system vendor.			
Ļ	VI, 8.4	Responsibility for Tests			
		The manufacturer or vendor shall be		2.12 - Democracy Suite Quality Assurance Program, Section 2.4, Responsibility of Tests	
		responsible for performing all quality		2.07 Democracy Suite System Test And Verification, Section 2, System Test and Verification Specification	
		assurance tests, acquiring and			TDP
		documenting test data, and providing test			151
		reports for examination by the test lab as			
L		part of the national certification process.			
	VI, 8.5	Parts and Materials Special Tests and			
ŀ		Examinations In order to ensure that voting system parts	also Vol. II, 2.12 .2,		
		and materials function properly, vendors	Quality Assurance		
		shall:	Program, Parts and		
			Materials Tests; Vol. II, 7.5.2 Parts and		
			Materials Tests		
Ī	a.	Select parts and materials to be used in		2.12 - Democracy Suite Quality Assurance Program, Section 2.5, Parts and Materials Test includes.	
		voting systems and components according			
		to their suitability for the intended			TIDE
		application. Suitability may be determined			TDP
		by similarity of this application to existing standard practice or by means of special	1		
		tests.			
	b	Design special tests, if needed, to evaluate		2.12 - Democracy Suite Quality Assurance Program, Section 2.5, Parts and Materials Test includes.	
		the part or material under conditions			
		accurately simulating the actual voting			TDP
		system operating environment.			
	c.	Maintain the resulting test data as part of	1	2.12 - Democracy Suite Quality Assurance Program, Section 2.6.2, Parts and Materials Test includes.	
		the quality assurance program			TDP
		documentation. Quality Conformance Inspections			
ļ	VI, 8.6				
		The vendor performs conformance	see Vol. II, 2.12.3, Quality Assurance Program,		
		inspections to ensure the overall quality of the voting system and components	Quality Conformance		
		delivered to the test lab for national	Inspections;		
		certification testing and to the jurisdiction	Vol. II, 7.5.3 Quality		
			Conformance Inspections		
		for implementation. To meet the			
		for implementation. To meet the conformance inspection requirements, the			
		for implementation. To meet the			
	a.	for implementation. To meet the conformance inspection requirements, the vendor or manufacturer shall:		2.12 - Democracy Suite Quality Assurance Program. Section 2.6.1.5. Test Deliverables includes.	
	a.	for implementation. To meet the conformance inspection requirements, the		2.12 - Democracy Suite Quality Assurance Program, Section 2.6.1.5, Test Deliverables includes.	TDP
	a.	for implementation. To meet the conformance inspection requirements, the vendor or manufacturer shall: Inspect and test each voting system or		2.12 - Democracy Suite Quality Assurance Program, Section 2.6.1.5, Test Deliverables includes.	TDP
		for implementation. To meet the conformance inspection requirements, the vendor or manufacturer shall: Inspect and test each voting system or component to verify that it meets all inspection and test requirements for the system.			TDP
	a. b.	for implementation. To meet the conformance inspection requirements, the vendor or manufacturer shall: Inspect and test each voting system or component to verify that it meets all inspection and test requirements for the system. Deliver a record of tests or a certificate of		2.12 - Democracy Suite Quality Assurance Program, Section 2.6.1.5, Test Deliverables includes. 2.12 - Democracy Suite Quality Assurance Program, Section 2.6.1.5, Test Deliverables includes.	
		for implementation. To meet the conformance inspection requirements, the vendor or manufacturer shall: Inspect and test each voting system or component to verify that it meets all inspection and test requirements for the system. Deliver a record of tests or a certificate of satisfactory completion with each system			TDP
		for implementation. To meet the conformance inspection requirements, the vendor or manufacturer shall: Inspect and test each voting system or component to verify that it meets all inspection and test requirements for the system. Deliver a record of tests or a certificate of			

	Vandama and married to an i	Vol. II 2 L L TD2		
	Vendors are required to produce documentation to support the independent testing required for their products to be granted national certification. Volume II, Section 2, Description of the Technical Data Package (TDP) required for the national certification testing process. This documentation shall be sufficient to serve the needs of the test lab, election officials, and maintenance technicians. It shall include, at a minimum, the following:	Vol. II, 2.1.1.1 TDP, Scope, Required Content for Initial Certification; Vol. II, 2.1.1.2 Required Content for System Changes and Recertification; Vol. II, 2.12.4 Quality Assurance Program, Documentation; Vol. II, 7.5.4 Quality Assurance, Documentation		
	System overview		2.02 - Democracy Suite System Overview Democracy_Suite_4_0_Supported_Functionality_Declaration_20110822_rev20111005_rev20120321 2.99 - Trace Listing	TDP
	System functionality description		2.03 - Democracy Suite ICP Functionality Description 2.03 - ICC Functionality Description 2.03 - ICE Functionality Description 2.03 - Democracy Suite ICP Functionality Description	TDP
	System hardware specification		2.04 - ICE System Hardware Specification 2.04 - ICP System Hardware Specification 2.04.1 - ICE System Hardware Characteristics 2.04.1 - ICP System Hardware Characteristics 2.04.1 - ICP System Hardware Characteristics Advanced Printing Systems ICE Approved Parts List ImageCast Printing Specification EngineeringProductDevelopmentProcesses-HWEngineering ImageCast Evolution Machine Behavioural Settings LTPC Series Line Thermal Printer Mechanism Technical Reference	TDP
	Software design and specifications		2.05 - EMS Software Design And Specification 2.05 - ICE Software Design and Specification 2.05 - ICP Software Design And Specification 2.05 - ICP Software Design And Specification EMS4.0-DatabaseDocumentation Creating Repository database, documentation.pdf Dominion/VotingC_C++CodingStandard EMS_BuildEnvironment_InstallDocument_Windows2008R2_v1.4.0_2 ICE Software Installation Update and Verification Procedures ICE Software Installation Update and Verification Procedures ICE Software Installation Update and Verification Procedures - edits 3-21-12 ICP Firmware Build and Install ICP_FirmwareUpdate ICPFirmwareUpdate ICPFirmwareUpdate InageCast Central - Application Installation InageCast Central - Build Environment Setup (Ver 1.0.9) InageCast Central - Scanner (Canon DR-X10C) Installation (Ver 1.0.1) InageCast Central - Sconware Build Procedure (Ver 2.0.2) InageCast Evolution Build Procedure (Ver 2.0.2) InageCast Total Results File Format InageCast Total Results File Format InageCast Total Results File Format InageCast PrecinctDeviceConfigurationFiles InageCastPrecinctExtentinelFiles InageCastPrecinctExtractinelFiles InageCastPrecinctExtractinelFiles InageCastPrecinctExtractinelFiles	TDP
	System security specification		2.06 - Democracy Suite System Security Specification	TDP
	System test and verification specification		2.07 - Democracy Suite System Test and Verification 2.07 - SystemTestAndVerificationTestSuites ICP_MillionBallotScanTest ImageCast Evolution Usability Study ImageCastUsabilityStudy PCOS_300B_ImageCAST_Precinct_Manufacturing_Test_Procedure ReadinessTestProcedures	TDP
	System operations procedures		2.08 - EMS System Operation Procedures 2.08 - ICE System Operation Procedures 2.08 - ICE System Operation Procedures 2.08 - ICE System Operation Procedures 2.08 - ICP System Operation Procedures 3.08 - ICP System Operation Procedures 3.08 - ICP System Operation Procedures 3.09 - ICP System Operation Procedures 3.00 - ICP System	TDP
	System maintenance procedures		2.09 - ICE System Maintenance Manual 2.09 - ICP System Maintenance Manual 2.09 - EMSSystemMaintenanceManual	TDP
	Personnel deployment and training		2.10 - Democracy Suite Personnel Deployment And Training Requirements	TDP
	requirements Configuration management plan		2.11 - Configuration Management Process	TDP
	Quality assurance program		2.12 - Democracy Suite Quality Assurance Program	
	System change notes		N/A - Tested system is not a modification	TDP
VI, Sec. 9 VI, 9.1	Configuration Management Requirements Scope	see Vol. II, 2.11 TDP, Configuration Management Plan	The state of the s	TDP
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	to a second seco			
	This section contains specific requirements for configuration			
	management of voting systems. Vendors			
	are required to submit these procedures as part of the Technical Data Package for			
	system certification.			
VI, 9.1.1	Configuration Management Requirements			
	Configuration management addresses a	Vol. II, 2.11 TDP,		
	broad set of record keeping, auditing, and reporting activities that contribute to full	Configuration Management Plan		
	knowledge and control of a system and its			
	components. These activities include:			
	Identifying discrete system components.		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	TDP
	Creating records of a formal baseline and		2.11 - Configuration Management Process, Section 2.4, Configuration Management	TDP
	later versions of components.		All Conference Management Provide Conference Control Providence	IDP
	Controlling changes made to the system and its components.		2.11 - Configuration Management Process, Section 2.2, Change Control Procedures	TDP
	Releasing new versions of the system.		2.11 - Configuration Management Process, Section 2.4, Configuration Management	TDP
	Auditing the system, including its		2.11 - Configuration Management Process, Section 2.6, Configuration Audits	
	documentation, against configuration			TDP
	management records. Controlling interfaces to other systems.		2.11 - Configuration Management Process, Section 2.6.1, Physical Configuration	TDP
				IDP
	Identifying tools used to build and maintain the system.		2.11 - Configuration Management Process, Section 2.7, Configuration Management Resources	TDP
VI, 9.1.3	Application of Configuration Management Requirements			
	Requirements for configuration	Vol. II, 2.11 TDP,		
	management apply to all components of	Configuration Management Plan		
	voting systems regardless of the specific technologies employed. These			
	components include: Software		2.11 - Configuration Management Process, Section 2.4, Configuration Management	
				TDP
	Hardware		2.11 - Configuration Management Process, Section 2.4, Configuration Management	TDP
	Communications		2.11 - Configuration Management Process, ff	TDP
	Documentation			TDP
	Identification and naming and conventions		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	IDF
	(including changes to these conventions)		, , , , , , , , , , , , , , , , , , , ,	TDP
	for software programs and data files;			
	Development and testing artifacts such as		2.11 - Configuration Management Process, Section 2.2, Change Control Procedures	TDP
	test data and scripts			
	File archiving and data repositories.		2.11 - Configuration Management Process, Section 2.4, Configuration Management	mpp
VV 0.2	File archiving and data repositories.		2.11 - Configuration Management Process, Section 2.4, Configuration Management	TDP
VI, 9.2	Configuration Management Policy	Vol. II, 2.11.1 TDP,	2.11 - Configuration Management Process, Section 2.4, Configuration Management	TDP
VI, 9.2	Configuration Management Policy The vendor shall describe its policies for configuration management in the	Configuration	2.11 - Configuration Management Process, Section 2.4, Configuration Management	TDP
VI, 9.2	Configuration Management Policy The vendor shall describe its policies for configuration management in the Technical Data Package. This description	Configuration Management Plan, Configuration	2.11 - Configuration Management Process, Section 2.4, Configuration Management	TDP
VI, 9.2	Configuration Management Policy The vendor shall describe its policies for configuration management in the	Configuration Management Plan, Configuration Management Policy;	2.11 - Configuration Management Process, Section 2.4, Configuration Management	TDP
VI, 9.2	Configuration Management Policy The vendor shall describe its policies for configuration management in the Technical Data Package. This description	Configuration Management Plan, Configuration	2.11 - Configuration Management Process, Section 2.4, Configuration Management	TDP
VI, 9.2	Configuration Management Policy The vendor shall describe its policies for configuration management in the Technical Data Package. This description shall address the following elements:	Configuration Management Plan, Configuration Management Policy; Vol. II, 7.4.1 Configuration		
VI, 9.2	Configuration Management Policy The vendor shall describe its policies for configuration management in the Technical Data Package. This description shall address the following elements: Scope and nature of configuration management program activities	Configuration Management Plan, Configuration Management Policy; Vol. II, 7.4.1 Configuration	2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	TDP
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VI, 9.2	Configuration Management Policy The vendor shall describe its policies for configuration management in the Technical Data Package. This description shall address the following elements: Scope and nature of configuration management program activities Breadth of application of the vendor's policies and practices to the voting system, i.e., extent to which policies and practices apply to the total system, and	Configuration Management Plan, Configuration Management Policy; Vol. II, 7.4.1 Configuration	2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	
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		LV L W 2 LL 2 TED D		
	The vendor shall establish formal procedures and conventions for	Vol. II, 2.11.3 TDP, Configuration		
	establishing and providing a complete	Management Plan,		
	description of the procedures and related	Baseline and Promotion;		
	conventions used to:	Vol. II, 7.4.3 Baseline, Promotion, and Demotion		
		Procedures		
a.	Establish a particular instance of a		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	TDP
	component as the starting baseline;			
b.	Promote subsequent instances of a component to baseline status as		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	
	development progresses through to			
	completion of the initial completed			TDP
	version released to accredited test lab for			
	qualification testing; and			
c.	Promote subsequent instances of a		2.11 - Configuration Management Process, Section 2, Configuration Management Requirements	
	component to baseline status as the			
	component is maintained throughout its life cycle until system retirement (i.e., the			TDP
	system is no longer sold or maintained by			
	the vendor).			
VI, 9.5	Configuration Control Procedures			
VI, 7.5	Configuration control is the process of	Vol. II, 2.11.4 TDP,		
	approving and implementing changes to a	Configuration		
	configuration item to prevent unauthorized	Management Plan,		
	additions, changes or deletions. The	Configuration Control Procedures;		
	vendor shall establish such procedures and	Vol. II, 7.4.4 Configuration		
	related conventions, providing a complete	Control Procedures		
	description of those procedures used to:			
a	Develop and maintain internally		2.11 - Configuration Management Process, Section 2.3, Problem and Incident Management	
a.	developed items;		2 Comparation management 110000, section 2.3, 11001011 and includit Wallagement	TDP
b.	Acquire and maintain third-party items;		2.11 - Configuration Management Process, Section 2.3, Problem and Incident Management	TDP
				IDP
c.	Resolve internally identified defects for		2.11 - Configuration Management Process, Section 2.3, Problem and Incident Management	TDP
	items regardless of their origin; and		2.11 Confirmation Management Process Continue 2.2 Public Visit Vis	
d.	Resolve externally identified and reported defects (i.e., by customers and accredited		2.11 - Configuration Management Process, Section 2.3, Problem and Incident Management	TDP
	test labs).			IDF
VI, 9.6	Release Process			
	The release process is the means by which	Vol. II, 2.11.5 TDP,		
	the vendor installs, transfers, or migrates	Configuration B. L		
	the system to the accredited test lab and,	Management Plan, Release Process:		
	eventually, to its customers. The vendor	Vol. II, 7.4.5 Release		
	shall establish such procedures and related	Process		
	conventions, providing a complete			
	description of those used to:			
a.	Perform a first release of the system to an		2.11 - Configuration Management Process, Section 2.4, Configuration Management Requirements	TDP
	accredited test lab;			IDF
b.	Perform a subsequent maintenance or		2.11 - Configuration Management Process, Section 2.4, Configuration Management Requirements	
	upgrade release of the system, or a			TDP
	particular components, to an accredited test lab:			
c.	Perform the initial delivery and		2.11 - Configuration Management Process, Section 2.4, Configuration Management Requirements	
	installation of the system to a customer,			
	including confirmation that the installed			TDP
	version of the system matches exactly the			
	certified version		2.11 C. E	
a.	Perform a subsequent maintenance or upgrade release of the system, or a		2.11 - Configuration Management Process, Section 2.4, Configuration Management Requirements	
	particular component, to a customer,			
	including confirmation that the installed			TDP
	version of the system matches exactly the			
VVV. O. C.	qualified system version.			
VI, 9.7	Configuration Audits Configuration Audits, Physical			
VI, 9.7.1	Configuration Audits, Physical Configuration Audit			
	The Physical Configuration Audit is	Vol. II, 2.11.6 TDP,		
	conducted by the accredited test lab to	Configuration		
	compare the voting system components	Management Plan,		
	submitted for certification to the vendor's	Configuration Audits; Vol. II, 6.6 System		
	technical documentation. For the PCA, a	Integration Testing,		
	vendor shall provide:	Physical Configuration		
	vendor shall provide:	Audit;		
	vendor shall provide:	Audit; Vol. II, 7.4.6 Configuration		
a		Audit;	2.05 - FMS Software Design And Specification Section 6 Software Operating Environment	
a.	vendor shall provide: Identification of all items that are to be a part of the software release	Audit; Vol. II, 7.4.6 Configuration	2.05 - EMS Software Design And Specification, Section 6, Software Operating Environment 2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment	
a.	Identification of all items that are to be a	Audit; Vol. II, 7.4.6 Configuration	2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICP Software Design And Specification, Section 3.2, Software Operating Environment	TIND
a.	Identification of all items that are to be a	Audit; Vol. II, 7.4.6 Configuration	2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICP Software Design And Specification, Section 3.2, Software Operating Environment 2.05 - ICCSoftwareDesign.AndSpecification, Section 3.2, Software Operating Environment	TDP
a.	Identification of all items that are to be a	Audit; Vol. II, 7.4.6 Configuration	2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICP Software Design And Specification, Section 3.2, Software Operating Environment	TDP
	Identification of all items that are to be a part of the software release	Audit; Vol. II, 7.4.6 Configuration Audits	2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICP Software Design And Specification, Section 3.2, Software Operating Environment 2.05 - ICCSoftwareDesignAndSpecification, Section 3.2, Software Operating Environment 2.11 - Configuration Management Process, Section 2.4, Configuration Management	TDP
a. b.	Identification of all items that are to be a part of the software release Specification of compiler (or choice of	Audit; Vol. II, 7.4.6 Configuration	2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICP Software Design And Specification, Section 3.2, Software Operating Environment 2.05 - ICCSoftwareDesign AndSpecification, Section 3.2, Software Operating Environment 2.11 - Configuration Management Process, Section 2.4, Configuration Management 2.05 - EMS Software Design And Specification, Section 6, Software Operating Environment	TDP
	Identification of all items that are to be a part of the software release Specification of compiler (or choice of compilers) to be used to generate	Audit; Vol. II, 7.4.6 Configuration Audits	2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICP Software Design And Specification, Section 3.2, Software Operating Environment 2.05 - ICCSoftwareDesignAndSpecification, Section 3.2, Software Operating Environment 2.11 - Configuration Management Process, Section 2.4, Configuration Management 2.05 - EMS Software Design And Specification, Section 6, Software Operating Environment 2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment	
	Identification of all items that are to be a part of the software release Specification of compiler (or choice of	Audit; Vol. II, 7.4.6 Configuration Audits	2.05 - ICE Software Design and Specification, Section 3.2, Software Operating Environment 2.05 - ICP Software Design And Specification, Section 3.2, Software Operating Environment 2.05 - ICCSoftwareDesign AndSpecification, Section 3.2, Software Operating Environment 2.11 - Configuration Management Process, Section 2.4, Configuration Management 2.05 - EMS Software Design And Specification, Section 6, Software Operating Environment	TDP
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g.	Identification of any changes between the physical configuration of the system submitted for the PCA and that submitted for the FCA, with a certification that any differences do not degrade the functional characteristics		2.11 - Configuration Management Process, Section 2.4, Configuration Management	TDP
h.	Complete descriptions of its procedures and related conventions used to support this audit by:			
	Establishing a configuration baseline of the software and hardware to be tested		2.11 - Configuration Management Process, Section 2.4, Configuration Management	TDP
	ii. Confirming whether the system documentation matches the corresponding system components		2.11 - Configuration Management Process, Section 2.4, Configuration Management	TDP
VI, 9.7.2	Configuration Audits, Functional Configuration Audit			
	The Functional Configuration Audit is conducted by the accredited test lab to verify that the system performs all the functions described in the system documentation. The vendor shall:	Vol. II, 2.11.6 TDP, Configuration Management Plan, Configuration Audits; Vol. II, 6.7 System Innegration Testing, Functional Configuration Audit; Vol. II, 7.4.6 Configuration Audits		
a.	Completely describe its procedures and related conventions used to support this audit for all system components		2.11 - Configuration Management Process, Section 2.6.2 Functional Configuration	TDP
b.	Provide the following information to support this audit:			
	Copies of all procedures used for module or unit testing, integration testing, and system testing		2.11 - Configuration Management Process, Section 2.6.2 Functional Configuration	TDP
	ii. Copies of all test cases generated for each module and integration test, and sample ballot formats or other test cases used for system tests		2.11 - Configuration Management Process, Section 2.6.2 Functional Configuration	TDP
	iii. Records of all tests performed by the procedures listed above, including error corrections and retests		2.11 - Configuration Management Process, Section 2.6.2 Functional Configuration	TDP
VI, 9.8	Configuration Management Resources			
	Vendors may choose the specific [automated] tools they use to perform the record keeping, auditing, and reporting activities of the configuration management standards. The resources documentation requirements focus on assuring that procedures are in place to record information about the tools to help ensure that they, and the data they contain, can be transferred effectively and promptly to a third party should the need arise. Within this context, a vendor is required to develop and proved a complete description of procedures and related practices to maintaining information about:			
a.	Specific tools used, current version, and operating environment;		2.11 - Configuration Management Process, Section 2.7, Configuration Management Resources.	TDP
b.	Physical location of the tools, including designation of computer directories and files; and		2.11 - Configuration Management Process, Section 2.7, Configuration Management Resources.	TDP
c.	Procedures and training materials for using the tools.		2.11 - Configuration Management Process, Section 2.7, Configuration Management Resources.	TDP