	A	ВС	D	F	G
		Technical Data Package Review per Voluntary Voting System Guidelines (VV	VSG) Ver. 1.0		Compliance Object
	1	rechnical Data Facility per Voluntary Volung System Galacinits (V			compliance object
$\vdash$	·		Corresponding VVSC requirement(s) reference	1 WHVS07 Voting System Test Procedure	
			corresponding v viso requirement(s) reference	1. Wirtson voning system restricteune	
				1. Wyle fest fran	
				A. WHVS07.1, Technical Data Package	
				B. WHVS07.10 Materials Required for Lesting	
				C. WHVS0/1R, Test Report Template	
				D. WHVS07.11, TDP Review Checklist Matrix	
				1. WoP2a, Receiving TDP	
				a. Vendor Media Receipt Log	
				2. WoP 3, TDP Review	
				a. WHV07.11TDP, (Review Matrix FINAL) Compliance Matrix	
				b. Issues Matrix	
				3. WHVS07.A6, Customer Communication Log	
				E. WH1066, Notice of Anomaly	
				According to the Election Systems & Software, EVS5000 Voting System Overview ES&S Voting System version 5.0.0.0	
				(EVS5000) is ES&S''s first voting system to fully comply with the EAC 2005 Voluntary Voting System Guidelines, Version 1.0. The	
				system includes a number of new products and features including ES&S newest election management software solution, ElectionWare	
				and functionality to network multiple ES&S DS850 central ballot scanners to a single reporting PC for high-speed counting and results	
				accumulation.	
				ES&S Voting System version 5.0.0.0 is the next step in providing voting systems capable of meeting the varied needs of every voting	
				iurisdiction. and reaffirms ES&S's commitment to providing customers with the most accurate, reliable and secure voting systems in	
				the world.	
		This matrix is the most up to date edition as of 3-15-			
1	2	2013			
				ES&S Voting System 5.0.0.0 provides a scalable, end-to-end election system for jurisdictions with widely	
				varied requirements. The system includes:	
				- ElectionWare Election Management System software for defining contents, candidates and	
				ballot formats and performing results post-processing.	
				-The DS200 precinct ballot tabulator.	
				- The ES&S AutoMARK, a proven ballot accessible marking system that supports audio,	
				touchscreen and tactile keypad inputs for ballot marking.	
	Р			- The DS850 central ballot scanner for high speed tabulation of mail ballots, absentee ballots or	
	R			Election Day ballots. Jurisdictions can network multiple DS850 scanners to a central reporting	
	E			PC for large central count operations.	
	E			- Election Reporting Manager software for results consolidation and report generation.	
				ES&S Voting System 5.0.0.0 system components are divided into the following functional groups:	
	E			- Election Management System	
				- Central Ballot Tabulator	
				- Electronic Ballot Marking Devices	
				- Precinct Ballot Tabulators	
				-Third party computing equipment and peripherals	
1					
1	3				
⊢	4				
Ľ.	+	Volume VVSG Requirement		Location(s) where verified is located/comments by Wyle:	
E	2	VII, Sec. 2 Description of the Technical Data Package			
(	5 C	VII, 2.1 Scope			

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7			This subsection [of the VVSG] contains a description of vendor documentation relating to the voting system that shall be submitted with the system as a precondition of national certification testing. These items are necessary to define the product and its method of operation to provide technical and test data supporting the vendor's claims of the system's functional capabilities and performance levels; and to document instructions and procedures governing system operation and field maintenanceAny information relevant to the system evaluation shall be submitted to includosource code, object code, and sample output report formats.	also Vol. I, 2.1.7.2 Voting Variations; Vol. II, 2.8.4 Operational Features EAC VSTL Program Manual Vol. 1.0 Sect. 4.3.1.6	EAC Approval of Voting System Testing Application Package Letter to ES&S, December 02, 2011	Letter
8			Both formal documentation and notes of the vendor's system development process shall be submitted for qualification tests. Documentation describing the system development process permits assessment of the vendor's systematic efforts to develop and test the system and correct defects. Inspection of this process also enables the design of a more precise test plan. 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.	n	EAC Approval of Voting System Testing Application Package Letter to ES&S, December 02, 2011	Letter
9		VII, 2.1.1	Content and Format			
10			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.		EVS5000_PRE03_TOC EVS5000_PRE01_BinderCover_3-in EVS5000_PRE02_Cover Page EVS5000_PRE05_Requirements Matrix	Spreadsheet
11		VII, 2.1.1.1	Description of the Technical Data Package, Required Conten for Initial Certification	Vol. I, 8.7 Quality Assurance Requirements, Documentation: Vol. II, 2.12.4 Quality Assurance Program, Documentation		
12			At a minimum, the TDP shall contain the following documentation:	Vol. I, 3.1.1 Usability Testing; Vol. I, 3.2.2.1 Partial Vision; Vol. I, 3.2.2.2 Blindness; Vol. I, 3.2.3 Dexterity		
13		a.	System Configuration Overview		EV55000_OVR00 EV55000_OVR04_AppxD_CIF-AutoMark EV55000_OVR05_AppxD_CIF-DS200 EV55000_OVR07_AppxE_ConformityStatement	TDP
14		b.	System Functionality Description		EVS5000_SFD00	TDP

	Α	В	С	D	F	G
		с.	System Hardware Specifications		EVS5000_SHS00_DS200	-
					EVS5000 SHS00 DS850	
					AutoMARK ESS System Hardware Overview AOS-18-5002-000-S	
					AutoMARK ESS System Hardware Specification AOS-18-5000-001-F	
					EVS5000 SHS00 AutoMARK01 MODELS	
					EVS500_SH500_AutoMARK02_BOM	
					EVSS00_SHS00_NS20001 BOM	
					EVSS00_SHS00_DS85001_BOM	
					EVISION_SHOL AND AND KITTER OM	
					EVSSOO_SHSOI_AutoMARK13.EOM	
					CARLE PHASE2	
						TDP
					58/50017514	
					SK 5001771	
					SK 500210 StD D	
					JKJ00016_01_D	
					I ED_ROYD	
					ISD_RCID	
					SDC_040117-4000C-2AGF	
					Scanner_PI21 INIC-B4DK May04	
					SD_UUB_KEV_A	
					CA_ CA_	
15					USD-A-SCH	
		d.	Software Design and Specifications		AutoMARK ESS Ballot Image Processing Specification AOS-18-5002-003-S.pdf	
					AutoMARK ESS Ballot Scanning and Printing Specification AQS-18-5002-007-S.pdf	
					AutoMARK ESS Driver API Specification AQS-18-5000-002-F.pdf	
					AutoMARK ESS Embedded Database Interface Specifications AQS-18-5002-005-S	
					AutoMARK ESS GUI Design Specifications AOS-18-5001-005-R	
					AutoMARK ESS Operating Software Design Specifications AQS-18-5001-002-R	
					AutoMARK ESS Operations and Diagnostic Log Specs AOS-18-5002-004-S	
					AutoMARK ESS Programming Specifications Details AOS-18-5001-011-R	
					AutoMARK ESS Software Design Spec AOS-18-5001-004-S	
					AutoMARK ESS Software Development Environment AOS-18-5001-006-R	
					AutoMARK ESS Software Diagnostics Specifications AOS-18-5000-004-F	
					AutoMARK ESS Software Standards Specification AOS-18-4000-000-S	
					ESSSYS D D 0100 Coding Standards	
					ESSSYS SG P 1000 SystemDevProgram	
					EVS5000 SDS00 AutoMARK SDS Overview	
					EVS5000_SDS00_DS200	
					EVS500_SDS00_DS20001_Flowcharts	
					EVS5000 SDS00 DS20002 Reports	TDP
					EVS5000_SDS00_DS20005_System Messages	
					EVS5000_SDS00_DS20006_Results Media XMLs	
					EVS5000 SDS00 DS850	
					EVS5000 SDS00 ElectionWare	
					EVS5000 SDS00 ElectionWare01 EW Specification and Interfaces	
					EVS5000 SDS00 ElectionWare02 PB Specification and Interfaces	
1					EVS5000 SDS00 ElectionWare05 System Process Flowchart	
1					EVS5000 SDS00 ElectionWare07 PostGreSOL Description	
1					EVS5000 SDS00 ElectionWare08 Reports	
1					EVS5000 SDS00 ElectionWare11 DS200 and DS850 Media Desc	
1					EVS5000 SDS00 ElectionWare12 AutoMARK Media Description and Structure	
1					EVS5000 SDS00 ElectionWare13 ERM Media Description	
1					EVS5000 SDS00 ElectionWare14 System Messages	
1					EVS5000 SDS00 ERM	
1					EVS5000 SDS00 ERM01 Appendices	
1					EVS5000 SDS00 UELS	
16						

<b></b>	Δ	B	C	D	F	G
		a.	System Test and Varification Specifications	saa Vol. 13.1.1.Usability Tastina: nar EAC PEL	EV\$5000_ST00	Ű
		с.	bystem rest and vernication specifications	2007-03 dated 9/5/07 - 2005 VVSG Vol 1 Section	EVS5000_TC00_AutoMARK	
				3 1 1: summative usability test report must be		
				submitted		
				suomatta.	EV55000_TC00_ElectionWare01_Manage	
					EV\$5000_TC00_ElectionWater12_manage	TDD
					EV\$5000_TC00_Electionure03_Design	IDP
					EVS5000_TC00_Electionwarc0_Lockin	
					EV55000_TC00_Electionware05_Declus	
					EVS5000_1C00_ElectionWare05_Kesoive	
					EV55000_1C00_ERM	
17	т	-				
	Ľ.	f.	System Security Specifications		AutoMARK ESS System Security Specification AQS-18-5002-001-S	
					EV\$5000_\$\$\$00	
	Р				EVS5000_SSS01_JSP Template	
					EVS5000_SSS002.08_AutoMARK Quick Hash Procedure	
	D				EVS5000_SSS02.01_EMS_PC_SecScriptDesc	
	0				EVS5000_SSS02.01_UbuntuLiveCD	
	с				EVS5000_SSS02.05_EMSWorkstation Validation Guide	
	- ŭ				EVS5000_SSS02.06_DS200Quick Hash Procedure	
1	м				EVS5000_SSS02.07_DS850Quick Hash Procedure	
1					EVS5000_SSS02_Hardening Procedures	
1	E				EVS5000_SSS03_Voting System Validation Guide01_File Listing_DS200	
	N				EVS5000_SSS03_Voting System Validation Guide02_File Listing_AutoMARK	
	т				EVS5000_SSS03_Voting System Validation Guide04_File Listing_ElectionWare	
	S				EVS5000_SSS03_Voting System Validation Guide05_File Listing_RMS	TDP
					EVS5000_SSS03_Voting System Validation Guide06_File_Listing_ELS	1.51
					EVS5000_SSS03_Voting System Validation Guide07_File Listing_VATPreview	
					EVS5000 SSS03 Voting System Validation Guide08 File Listing ERM	
					EVS5000 SSS03 Voting System Validation Guide09 File Listing DS850	
					EVS5000 SSS07 PhysEquipmentSecurityBestPract	
					EVS5000_SSS09_WinOS_SECBaseSettings	
					EV\$5000_\$\$\$02.01_HardeningScripts.[Folder]	
					EVS5000_SSS02.06.01_DS2000uick Hash Scripts [Folder]	
					EVS5000_SSS020701_DS8500nickHashScrint;[Folder]	
					EVS5000_SSS0208.01_AutoMARKHashTools [Folder]	
					EV55000_SS02.00.01_FMCM.mithtash.Scripts [Edder]	
					2 105000_005002.01.01_Emb Quick Itali benjis [i olaci]	
18						
1		g.	User/System Operations Procedures		EVS5000_SOP00_AMVAT	
1					EVS5000_SOP00_DS200	
1					EVS5000_SOP00_DS850	
1					EVS5000_SOP00_ElectionWare01_Admin	
1					EVS5000_SOP00_ElectionWare02_Define	
1					EVS5000_SOP00_ElectionWare03_Design	
1					EVS5000_SOP00_ElectionWare04_Deliver	
1					EVS5000_SOP00_ElectionWare05_Results	
1					EVS5000_SOP00_ELS	TDP
1					EVS5000_SOP00_ERM	
1					EVS5000 SOP00 NetworkConfigGuide	
1						
1					EVS5000 SOP00 AMVAT.01 VerficationElection [Folder]	
1						
1					EVS5000 ORPT02 BallotProductionGuide [In Folder 13 ATTACHMENTS]	
10						
19		,				
1		n.	System Maintenance Procedures		EVS5000_SMM00_AMVA1	
1					EVS5000_SMM00_DS200	TDP
0.00					Ex2200072WW007D2820	
20						
Ι.		i.	Personnel Deployment and Training Requirements		ESSSYS_T_D_1000_TrainingProgram	TDP
21				1		1101

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22		j.	Configuration Management Plan		ESSSYS_CM_P_1000_ESSCMProgram ESSSYS_DOC_P_1000_TDProgram EVS5000_CMP10_BLD00_SEC00_FinalTrustedBuildOutputStagingGuide EVS5000_CMP10_BLD01_SEC01_EMSBuildProcedure EVS5000_CMP10_BLD01_SEC02_EMSBuildEnvironment EVS5000_CMP10_BLD01_SEC03_WindowsAndVirusProtectionUpdates EVS5000_CMP10_BLD02_SEC03_WindowsAndVirusProtectionUpdates EVS5000_CMP10_BLD02_SEC03_AutoMARKBuildEnvironment EVS5000_CMP10_BLD02_SEC01_AutoMARKBuildEnvironment EVS5000_CMP10_BLD03_SEC01_DS200AncillaryBuildProcedure EVS5000_CMP10_BLD03_SEC01_DS200AncillaryBuildProcedure EVS5000_CMP10_BLD03_SEC01_DS200AncillaryBuildProcedure EVS5000_CMP10_BLD05_SEC01_DS850FirmwareBuildProcedure EVS5000_CMP10_BLD05_SEC01_DS200FirmwareBuildProcedure	TDP
22		k.	Quality Assurance Program		ESSYS_M_P_0500_ECOProcess ESSYS_M_P_0500_ECOProcess ESSYS_M_P_1000_MNFQualityAssurancePtan ESSYS_Q_P_0100_SoftwareQualityAssuranceProgram EVS5000_QAP00_SWF01_Software_Firmware_Acceptance EVS5000_QAP00_SWF01_Software_Firmware_Acceptance EVS5000_QAP01_ISO cert Pivot EVS5000_QAP03_QA manual Pivot EVS5000_QAP03_QATAWIN ISO Certification Certificate ESSYS_M_FM_AcceptanceChecklists [folder] 850_AccptChklst_revE 850_OAccptChklst_revE 850_OAccptChklst_revB AutoMark_AccptChklst_001_Rev.A AutoMark_QC_Chklst_001_Rev.A Carrying Case QC sheet rev 1.0 DS200_AccptChklst_001Rev.A DS200_AccptChklst_001Rev.A DS200_AccptChklst_001Rev.A BS0_DemChklst_revB.pdf 850_DemChklst_revA.pdf 850_DemChklst_revA.pdf 850_OMCChklst_revA.pdf AutoMark_AccptChklst_001Rev.A,pdf AutoMark_AccptChklst_001Rev.A,pdf AutoMark_AccptChklst_001Rev.A,pdf DS200_AccptChklst_001Rev.A,pdf DS200_AccptChklst_001Rev.A,pdf DS200_AccptChklst_001Rev.A,pdf DS200_AccptChklst_001Rev.A,pdf DS200_AccptChklst_001Rev.A,pdf DS200_AccptChklst_001Rev.A,pdf DS200_AccptChklst_001Rev.A,pdf DS200_AccptChklst_001Rev.A,pdf DS200_AccptChklst_001Rev.A,pdf EVS5000_QAP00_MN01_01_AcceptanceTestProcedure_DS200.pdf EVS5000_QAP00_MN02.01_AcceptanceTestProcedure_DS850.pdf	TDP
24		1.	System Change Notes		None	TDP
25		VII, 2.1.1.2	Required Content for System Changes and Recertification			
26		VII 2112	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 syster 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 - EVS500 is an Initial Certification	TDP
28	P R E F A	<u>үн, 2.1.1.3</u>	Tormat 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.		EVS5000_PRE03_TOC EVS5000_PRE01_BinderCover_3-in EVS5000_PRE02_Cover Page EVS5000_PRE05_Requirements Matrix	TDP

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	F		A cross-index shall be provided indicating the portions of the			
	-		documents that are responsive to documentation requirements for		EVS5000_PRE01_BinderCover_3-in	
			any item presented.		EVS5000_PRE02_Cover Page	TDP
					EVS5000_PRE05_Requirements Matrix	
29						
30		VII, 2.1.3	Protection of Proprietary Information			
			The vendor shall identify all documents, or portions of		Cover Pages & "Proprietary Information" Sections of Individual TDP Core Documents	
			documents, containing proprietary information not approved for		and the second se	TDP
31			nublic release			
32		VII 22	System Operation			
52	-	v 11, 2.2			ENGERON ON BOO	
			in the system overview, the vendor shall provide information that			
			enables the accredited test lab to identify the functional and		EVS5000_OVR04_AppxD_CIF-AutoMark	
			physical components of the system, how the components are		EVS5000_OVR05_AppxD_CIF-DS200	TDP
			structured, and the interfaces between them.		EVS5000_OVR07_AppxE_ConformityStatement	
33						
34		VII, 2.2.1	System Description			
			The system description shall include written descriptions.			
35			drawings and diagrams that present:			
		a.	A description of the functional components (or subsystems) as		EVS5000_OVR00_Voting Systems Overview, Section 1.2, Functional Components and Subsystems	
			defined by the vendor (e.g., environment, election management		2 105005_5 (Young Systems Systems Systems) and Subsystems	
			and eventual verte according and events according and their			TDP
			and control, vote recording, vote conversion, reporting, and their			
36			logical relationships).			
		b.	A description of the operational environment of the system that		EVS5000_OVR00, Voting Systems Overview, Section 1.3, Operational Environment	
			provides an overview of the hardware, software, and			TDP
37			communications structure.			
		с.	A concept of operations that explains each system function, and		EVS5000 OVR00, Voting Systems Overview, Section 1.4, Concept of Operation	
38			how the function is achieved in the design.			TDP
		d	Descriptions of the functional and physical interfaces between		EVS5000_OVR00_Voting Systems Overview_Section 1.5_Eurotional and Physical Interfaces	
30		а.	subsystems and components		E155000_01000, 100mg 5ystems over new, Section 1.5, 1 and online and 1 hysical interfaces	TDP
00	-	2	Identification of all COTS hardware and software products and			
		с.	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:			
40						
			<ol> <li>Operating systems</li> </ol>	also Vol. I, 7.5.2 Telecomm., Prot. Against External	EVS5000_OVR00, Voting Systems Overview, Section 1.6, COTS Hardware and Software	TDP
41				Threats		IDI
			<ol><li>Database software</li></ol>	see Vol. II, 2.5.8 Sys. Database	EVS5000_OVR00, Voting Systems Overview, Section 1.6, COTS Hardware and Software	TDD
42	-					IDP
	0		<ol><li>Communications routers</li></ol>	see Vol. 1, 7.5.2 Prot. Against External Threats	EVS5000 OVR00, Voting Systems Overview, Section 1.6, COTS Hardware and Software	
43	V		,	. 0		TDP
-	E		<ol> <li>Modem drivers</li> </ol>	see Vol. 1. 7.5.2 Prot. Against External Threats	EVS5000_OVR00_Voting Systems Overview_Section 1.6_COTS Hardware and Software	
44	R		.,	interior interior interior interior		TDP
	v		5) Dial up networking software	see Vol. 1. 7.5.2 Prot. Against External Threats	EVS5000_OVP00_Voting Systems Overview_Section 1.6_COTS Hardware and Software	
45	Ť		5) Dial-up networking software	see voi. 1, 7.5.2 1 roi. Againsi Externai Threats	EV35000_OVR00, Voting Systems Overview, Section 1.0, COTS Hardware and Software	TDP
40		£	Interference among internal components and interference internal	Vol. II. 2.5.0 Interfaces		
	E	Ι.	interfaces among internal components, and interfaces with	vol. 11, 2.5.9 Interfaces		
1	W		external systems. For components that interface with other			
			components for which multiple products may be used, the TDP			
46			shall provide an identification of:			
1			<ol> <li>File specifications, data objects, or other means used for</li> </ol>		EVS5000_OVR00, Voting Systems Overview, Section 1.7, Interfaces Among Components	TDP
47			information exchange.			101
			2) The public standard used for such file specifications, data		EVS5000_OVR00, Voting Systems Overview, Section 1.7, Interfaces Among Components	TDD
48			objects, or other means.			IDP
		g.	Benchmark directory listings for all software (including firmware		EVS5000 OVR00, Voting Systems Overview, Section 1.7, Interfaces Among Components	
1		-	elements) and associated documentation included in the vendor's			
1			release in the order in which each piece of software would			TDP
1			normally be installed upon system setup and installation			
10			assinanty of mounted upon system setup and instantation.			
+9		WII 222	Santana Daufannanaa			
50		v 11, 2.2.2	System refformance			
-			The vendor shall provide system performance information			
51			including:			

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5	2	a.	The performance characteristics of each 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.	see Vol. I, 2.2.1.1c Ballot Prep., Gen. Capabilities.; see Vol. I, 4.1.5.1a Ballot Handling	EVS5000_OVR00, Voting Systems Overview, Section 2.1, Performance Characteristics	TDP
5	3	b.	Quality attributes such as reliability, maintainability, availability, usability, and portability.	see Vol. I, 4.3.5 Availability; Vol. I, 7.9.3 VVPAT Requirements, Electronic and Paper Record Structure; Vol. I, 7.9.4 Equipment Security and Reliability	EVS5000_OVR00, Voting Systems Overview, Section 2.2, Quality Attributes	TDP
5	4	с.	Provisions for safety, security, privacy, and continuity of operation.		EVS5000_OVR00, Voting Systems Overview, Section 2.2, Quality Attributes	TDP
5	5	d.	Design constraints, applicable standards, and compatibility requirements.		EVS5000_OVR00, Voting Systems Overview, Section 2.3, Design Constraints, Applicable Standards and Compatibility Requirements	TDP
5	6	VII, 2.3	System Functionality Description			
5	7		The vendor shall declare the scope of the system's functional capabilities, thereby establishing the performance, design, test, manufacture, and acceptance context for the system.		EVS5000_SFD00, Section I-B, Scope	TDP
5	8		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 TDP.	per VVSG V2, 3.2.3, additional capabilities are those added to respond to the requirements of an individual State(s).	EVS5000_SFD00, Section 2, Functional Requirements	TDP
5	9	a.	The vendor shall organize the presentation of required capabilitie in a manner that corresponds to the structure and sequence 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 not provided by the system. [see below for functional capabilities as listed in Vol. I, Sec. 2.1-2.5]		EVS5000_SFD00, Section 2.1, Overall System Capabilities	TDP
6	0		[Vol. I, 2.1 Overall System Capabilities]: These functional capabilities apply throughout the election process. They include:			
6	1		2.1.1 Security		EVS5000_SFD00, Section 2.1.1, Security	TDP
6	2		2.1.2 Accuracy		EVS5000_SFD00, Section 2.1.2, Accuracy	TDP
6	3		2.1.3 Error Recovery		EVS5000_SFD00, Section 2.1.3, Error Recovery	TDP
6	4		2.1.4 Integrity		EVS5000_SFD00, Section 2.1.4, Integrity	TDP
6	5		2.1.5 System Auditability		EVS5000_SFD00, Section 2.1.5, System Audit	TDP
6	6		2.1.6 Election Management System		EVS5000_SFD00, Section 2.1.6, Election Management System	TDP
6	7		2.1.7 Vote Tabulation		EVS5000_SFD00, Section 2.1.7, Vote Tabulation Program	TDP
6	8		2.1.8 Ballot Counters		EVS5000_SFD00, Section 2.1.8, Ballot Counter	TDP
6	9 F		2.1.9 Telecommunications		EVS5000_SFD00, Section 2.1.9, Telecommunications	TDP

	Α	В	С	D	F	G
	U I		2.1.10 Data Retention	see Vol. I. 2.1.10 Data Retention:	EVS5000_SED00_Section 2.1.10_Data Retention	
	č			see Vol. 1. 4.1.3.2 Memory Stability		
	<u> </u>			see Vol I 4 16 1 h Paner-Rased System		
				Processing Requirements:		
	1			see Vol 1 4 1 6 2 c DRF System Processing		TDP
	0			Requirements:		
	N			see Vol 1 4 1 7 1 Removable Storage Media:		
70	Α			see Vol. 1, 5.3 a. Data and Document Retention		
10	L		[Vo. I. 2.2 Pro. voting Conshilities] These functional			
			canabilities are used to prenare the voting system for voting			
71	D		They include:			
	F		2.2.1 Ballot Preparation: 2.2.1.1 General Capabilities: 2.2.1.2		EVS5000_SED00_Section 2.2.1_Ballot Preparation	
72	5		Ballot Formatting: 2.2.1.3 Ballot Production			TDP
	č		2.2.2 Election Programming		EVS5000 SFD00, Section 2.2.2, Election Programming	
73			5 5			TDP
			2.2.3 Ballot and Program Installation and Control		EVS5000_SFD00, Section 2.2.3, Ballot Program Installation and Control	77D D
74						IDP
	Р -		2.2.4 Readiness Testing		EVS5000_SFD00, Section 2.2.4, Readiness Testing	TDD
75						IDP
			2.2.5 Verification at the Polling Place		EVS5000_SFD00, Section 2.2.5, Verification at the Polling Place	TDP
76	0					1DF
1	Ν		2.2.6 Verification at the Central Location		EVS5000_SFD00, Section 2.2.6, Verification at the Central Count Location	TDP
77						IDI
1.			[Vol. I, 2.3 Voting Capabilities]: These capabilities include:			
78						
			2.3.1 Opening the Polls; 2.3.1.1 Precinct Count Systems; 2.3.1.2		EVS5000_SFD00, Section 2.3.1, Opening the Polls	
			Paper-based Systems; 2.3.1.3 DRE System Requirements			TDP
79						
			2.3.2 Activating the Ballot (DRE Systems)		EVS5000_SFD00, Section 2.3.2, Activating the Ballots (DRE Systems)	TDP
80						
			2.3.3 Casting a Ballot; 2.3.3.1 Common Requirements; 2.3.3.2		EVS5000_SFD00, Section 2.3.3, Casting a Ballot	77D D
			Paper-based System Requirements; 2.3.3.3 DRE Requirements			TDP
01	-					
02			vol. 1, 2.4 Post-voting Capabilities in lucies capabilities apply			
02	-		after all votes have been cast. They include:		EVISEONO SEEDON Section 2.4.1. Chaine die Delle	
83			2.4.1 Closing the poins		EV35000_SPD00, Section 2.4.1, Closing the Poils	TDP
00	-		2.4.2 Consolidating Vote Data		EVS5000 SED00 Section 2.4.2 Consolidating Vote Data	
84			2.4.2 Consolidating vote Data		L v55000_51 D00, Section 2.4.2, Consolidating vote Data	TDP
04	-		2.4.3 Producing Reports		EVS5000_SED00_Section 2.4.3_Producing Reports	
85			2.4.5 Froducing Reports		L'155000_51 D00, Section 2.4.5, Frontiering Reports	TDP
00			2.4.4 Broadcasting Results		EVS5000_SED00_Section 2.4.4_Broadcasting Results	
86						TDP
<u> </u>			[Vol. I, 2.5 Maintenance, Transportation and Storage			
87			Capabilities]:			
			2.5 Maintenance, Transportation, and Storage		EVS5000_SFD00, Section 2.5, Maintenance, Transportation and Storage	mp p
88			× -		·	TDP
		b.	Additional capabilities shall be clearly indicated. They may be	per VVSG V2, 3.2.3, additional capabilities are	EVS5000_SFD00, Section 2.1.11, Additional Overall Capabilities	
1			presented using the same structure as that used for required	those added to respond to the requirements of an	EVS5000_SFD00, Section 2.2.7, Additional Pre-Voting Requirements	
1			capabilities (i.e., overall system capabilities, pre-voting functions	individual State(s).	EVS5000_SFD00, Section 2.3.4, Additional Voting Capabilities or Requirements	TDD
1			voting functions, post-voting functions), or may be presented in		EVS5000_SFD00, Section 2.4.5, Additional Post-Voting Capabilities or Requirements	1 DF
1			another format of the vendor's choosing.		EVS5000_SFD00, Section 2.5.1, Additional Maintenance and Transportation Capabilities or Requirements	
89						
1		c.	Required capabilities that may be bypassed or deactivated during		EVS5000_SFD00	
			installation or operation by the user shall be clearly indicated.			TDP
90						
1		d.	Additional capabilities that function only when activated during		EVS5000_SFD00	
			installation or operation by the user shall be clearly indicated.			TDP
91		-	Additional constitution during any 11 of the state			
1		e.	Additional capabilities that normally are active but may be		E722007261700	TDD
00			uppressed of deactivated during installation or operation by the			IDP
32			user shan of clearly indicated.			

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93		VII, 2.4	System Hardware Specification			
			The vendor shall expand on the system overview by providing	also VoI. I, 4.1.7.2 Printers;	EVS5000_SHS00_DS200	
			detailed specifications of the hardware components of the system	Vol. I, 4.2.1 Size;	EVS5000_SHS00_DS850	
			including specifications of hardware used to support the	Vol. I. 4.2.2 Weight:	AutoMARK ESS System Hardware Overview AOS-18-5002-000-S	
			telecommunications canabilities of the system if applicable		AutoMARK ESS System Hardware Specification AOS-18-5000-001-F	
			ceccommunications capabilities of the system, if appreable.			
					EV3000_SH300_AUIOWARK01_WODEL3	
					EV\$5000_SHS00_AutoMARK02_BOM	
					EVS5000_SHS00_DS20001_BOM	
					EVS5000_SHS00_DS85001_BOM	
					EVS5000_SHS01_AutoMARK1.1-1.2 BOM	
					EVS5000_SHS01_AutoMARK13BOM	
					L'ISSOO_SHEST_AUXAMARTS DOM	
					CABLE_PHASE2	TDD
						IDP
					5K509175-LA	
					5K509177-L-	
					PEB_KeVB	
1					PSB_RevB	
					SBC_640117-4000C-2AGP	
1					Scanner_PI211MC-B4DR May04	
1					SD GGB REV A	
					USD-A-SCH	
94						
95	-	VII 241	System Hardware Characteristics			
00	c	11, 2.4.1	The way designed and the state of the state	V-LLALALS 2 Deufermanne - Deuviermanne		
	3		The vendor shall provide a detailed discussion of the	vol. 1, 4.1-4.1.8.2 Performance Requirements;		
	Y		characteristics of the system, indicating how the hardware meets	Vol. 1, 3.4.2 Durability		
	S		individual requirements defined in Volume I, Section 4, including	c - Carlos -		
96	т					
	l÷.	a.	Performance characteristics: This discussion addresses basic		EVS5000 SHS00 DS200, Section 1.2, System Performance Characteristics Overview	
	<b>-</b>		system performance attributes and operational scenarios that		EVS5000 SHS00 DS850. Section 1.2. System Performance Characteristics Overview	
	м		describe the manner in which system functions are invoked		AutoMARK FSS System Hardware Specification AOS-18-5000-001-F Section 1A Performance Characteristics	
			describe the manner in which system functions are invoked,		Autominiere_Dob_System_filedware_Specification_files-10-5000-001-1, Section file, Fertorinance characteristics	TDP
	н		describe environmental capabilities, describe life expectancy, and			
			describe any other essential aspects of system performance.			
97	A					
	R	b.	Physical characteristics: This discussion addresses suitability	also Vol. I, 4.2-4.2.2 Hdw. Physical Characteristics	EVS5000_SHS00_DS200, Section 1.3, System Physical Characteristics Overview	
	D		for intended use, requirements for transportation and storage,	Vol. I, 4.2.3 b.ii Transport and Storage of Precinct	EVS5000_SHS00_DS850, Section 1.3, System Physical Characteristics Overview	
	w		health and safety criteria security criteria and vulnerability to	Systems	AutoMARK ESS System Hardware Specification AOS-18-5000-001-F Section 1B Physical Characteristics	TDP
90			adverse environmental factors	· · · · · · · · · · · · · · · · · · ·		
30	A	2	D-R-LIK-	Vol 1 4 2 2 Poliability	EVISION SUSO DS200 Section 1.4 Statem Beliebility Operation	
1	R	с.	Kenability: I his discussion addresses system and component	voi. 1, 4.5.5 Kellability	E v 50000_SH500_U5200, Section 1.4, System Reliability Overview	
1	E		reliability stated in terms of the system's operating functions, and		EVS5000_SHS00_DS850, Section 1.4, System Reliability Overview	TDP
1			identification of items that require special handling or operation		AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 1D, Reliablity	1121
99	~		to sustain system reliability.			
	С	d.	Maintainability: Maintainability represents the ease with which	Vol. I. 4.3.4-4.3.4.2 Maintainability	EVS5000 SHS00 DS200, Section 1.5, System Maintainability Overview	
1	н		maintenance actions can be performed based on the design	,	EVS5000_SHS00_DS850_Section 1.5_System Maintainability Overview	
1	A		abaractoristics of agginment and software and the		AutoMADE ESS Statum Hardners Sacification AOS 18 5000 001 E Saction 1E Mointeinskiller	
1			characteristics of equipment and software and the processes the		AutomANN_ESS_system_naruware_spectrication_AQS-18-5000-001-F, Section 1E, Maintainability	
1	ĸ		vendor and election officials have in place for preventing failures			
1	Α		and for reacting to failures. Maintainability includes the ability			TDP
1	С		of equipment and software to self-diagnose problems and make			
1	т		non-technical election workers aware of a problem.			
1	÷		Maintainability also addresses a range of scheduled and			
100	E		unscheduled events			
100	R					
1	1	e.	Environmental conditions: This discussion addresses the ability	vol. 1, 4.1.2-4.1.2.15 Environ. Requirements	EV55000_SH500_D5200, Section 1.6, System Environmental Characteristics Overview	
1	e		of the system to withstand natural environments, and operational		EVS5000_SHS00_DS850, Section 1.6, System Environmental Characteristics Overview	
1	-		constraints in normal and test environments, including all		AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 1H, Environmental Conditions	
1			requirements and restrictions regarding electrical service,			TDP
1	1		telecommunications services, environmental protection, and any			
1	С		additional facilities or resources required to install and operate the			
104	6		evetam			
10'	3		system.			
102	4	VII, 2.4.2	Design and Construction			

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			The vendor shall provide sufficient data, or references to data, to	also Vol. 1, 4.3 Design, Construction, and	EV\$5000_SHS00_DS200, Section 3, Design and Construction	
			identify unequivocally the details of the system configuration	Maintenance Characteristics	EV\$5000_SHS00_DS850, Section 3, Design and Construction	TDP
			submitted for testing.		AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 2, Design and Constuction	IDI
1	03					
			The vendor shall provide a list of materials and components used		EVS5000_SHS00_DS200_Section 3_Design and Construction	
			in the system and a description of their assembly into major		EVS500_SUS00_DS250, Section 5, Design and Construction	
			in the system and a description of their assembly into major		E V35000_n300_D3500, Section 5, Design and Construction	TDP
			system components and the system as a whole. Paragraphs and		AutoMARK_ESS_System_Hardware_Specification_AQ8-18-5000-001-F, Section 2, Design and Constuction	
10	)4		diagrams shall be provided that describe:			
		a.	Materials, processes, and parts used in the system, their		EVS5000_SHS00_DS200, Section 2.3.1 Materials, Processes and Parts	
			assembly, and the configuration control measures to ensure		EVS5000_SHS00_DS850, Section 2.3.1 Materials, Processes and Parts	
			compliance with the system specification		AutoMARK FSS System Hardware Specification AOS-18-5000-001-F Section 2A Materials Processes and Parts	TDP
1	25		compnance with the system spectreation.			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
		D.	The electromagnetic environment generated by the system.		EV55000_SH500_D5200, Section 2.1.2, Environmental Requiremnts	
					EVS5000_SHS00_DS850, Section 2.1.2, Environmental Requiremnts	TDD
					AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 1H, Environmental Conditions	IDF
1	06					
-		c	Operator and voter safety considerations and any constraints on		EVS5000_SHS00_DS200_Section 2.3.8_Safety	
		c.	sustem operations or the use environment		EVS500_SH500_DS50 Section 2.2.9 Sector	
			system operations of the use environment.		E v 35000_Bristo0_Disso0, Section 2.5.6, Satety	
					AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F, Section 2C, Operator and Voter Safety Conditions	TDP
1	07					
		d.	Human factors considerations, including provisions for access by		EVS5000_SHS00_DS200_Section 1.3_System Physical Characteristics Overview	
			disabled voters		N/ A- D\$850	
			uisableu voters.		Ant-MADY ESS Suntan Hashing SociEsting AOS 18 5000 001 E Social 2D Human Estimating Considerations	TDP
	20				AutoMARK_ESS_system_Hardware_spectrication_AQS-18-5000-001-F, Section 2D, Human Engineering Considerations	
10	78					
10	)9	VII, 2.5	Software Design and Specification			
			The vendor shall expand on the system overview by providing		AutoMARK ESS Ballot Image Processing Specification AQS-18-5002-003-S.pdf	
			detailed specifications of the software components of the system,		AutoMARK ESS Ballot Scanning and Printing Specification AQS-18-5002-007-S.pdf	
			including software used to support the telecommunications		AutoMARK ESS Driver API Specification AOS-18-5000-002-F pdf	
			conchilities of the system if applicable		AutoMARY ESS Embedded Database Interface Repairs and ARX 19, 5002,005 S	
			capabilities of the system, if applicable.		AutoMARK ESS Embedded Database michaet spectrications AQS-16-3002-003-5	
					AutoMARK ESS GUI Design Specifications AQS-18-5001-005-R	
					AutoMARK ESS Operating Software Design Specifications AQS-18-5001-002-R	
					AutoMARK ESS Operations and Diagnostic Log Specs AQS-18-5002-004-S	
					AutoMARK ESS Programming Specifications Details AOS-18-5001-011-R	
					AntoMARK FSS Software Design Spec AOS-18-5001-004-S	
					AutoMARK ESS Software Development Environment AQS-18-5001-006-R	
					AutoMARK ESS Software Diagnostics Specifications AQS-18-5000-004-F	
					AutoMARK ESS Software Standards Specification AQS-18-4000-000-S	
					ESSSYS D D 0100 Coding Standards	
					ESSSYS SG P 1000 SystemDevProgram	
					EVESOO SDSOO AutoMARK SDS Overview	
					EY 5000_SD500_AUD/HARK SD5 OVEIVIEW	
					E \\$2000_\$D200_D2200	
					EVS5000_SDS00_DS20001_Flowcharts	
					EVS5000_SDS00_DS20002_Reports	TDP
					EVS5000_SDS00_DS20005_System Messages	
1		1			EVS5000 SDS00 DS20006 Results Media XMLs	
1		1			EV\$5000_SD\$00_D\$850	
1		1				
1		1				
1		1			EVS5000_SDS00_ElectionWare01_EW Specification and Interfaces	
					EVS5000_SDS00_ElectionWare02_PB Specification and Interfaces	
					EVS5000_SDS00_ElectionWare05_System Process Flowchart	
1		1			EVS5000 SDS00 ElectionWare07 PostGreSQL Description	
					EVS5000_SDS00_ElectionWare08_Reports	
1		1			EVISSION SDS00 Election Ware 11 DSS00 and DSS50 Media Dasc	
					EVERON SDEOU Election marth_District and District Media Description and Structure	
					E \$ \$5000_SD500_Election ware 12_AutoMAKK Media Description and Structure	
1		1			EVS5000_SDS00_ElectionWare13_ERM Media Description	
					EVS5000_SDS00_ElectionWare14_System Messages	
					EVS5000_SDS00_ERM	
1		1			EVS5000_SDS00_ERM01_Appendices	
1					EVS5000 SDS00 UELS	
1	10					
1	11	VII. 2.5.1	Purpose and Scope			
1.1			a a pose and scope			

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			The vendor shall describe the function or functions that are		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.1, Purpose and Scope	
			performed by the software programs that comprise the system.		EVS5000_SDS00_DS200_Section 2.5.1. Purpose and Scope	
			in the dimension of the second s		EVESON SDEOD DESSO Section 1 Durage and Sector	
			including software used to support the telecommunications		E v 3000_B300_B300, Sector 1, 1 u pose and scope	
			capabilities of the system, if applicable.		EV\$5000_SD\$00_ElectionWare, Section 1, Purpose and Scope	TDP
					EVS5000_SDS00_ERM, Section 1, Purpose and Scope	
					EVS5000 SDS00 UELS, Section 1, Purpose and Scope	
11	2					
11	2	VII 252	Applicable Decuments			
<u> </u>	5	V 11, 2.3.2				
			The vendor shall list all documents controlling the development of		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.2, Applicable Documents	
			the software and its specifications. Documents shall be listed in		EVS5000_SDS00_DS200, Section 2.5.2, Applicable Documents	
			order of precedence.		EVS5000_SDS00_DS850, Section 2, Applicable Documents	
			-		EVS5000 SDS00 ElectionWare, Section 2, Applicable Documents	TDP
					EVS5000 SDS00 ERM Section 2 Applicable Documents	
					EVESSO CDO LEE Conting of America Documents	
					EV\$5000_SDS00_UELS, Section 2, Applicable Documents	
11	4					
11	5	VII, 2.5.3	Software Overview			
			The vendor shall provide an overview of the software that			
11	6		includes the following items:			
		a.	A description of the software system concept, including specific		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.A, System Software Concept	
1			software design objectives, and the logic structure and algorithms		EVS5000_SDS00_DS200_Section 2.5.3.1_System Software Concept	
			used to accomplish these objectives		EVESO_SDO_DDO	
			used to accomptish these objectives.		E v 3500_SDS00_SDS50, Section 3.1, System Software Concept	
					EV\$5000_SD\$00_ElectionWare, Section 3.1, System Software Concept	TDP
					EVS5000_SDS00_ERM, Section 3.1, System Software Concept	
					EVS5000_SDS00_UELS, Section 3.1, System Software Concept	
11	7					
-	-	h	The general design operational considerations and constraints		EVS5000_SDS00_AutoMARK_SDS_Overview_Section 2.5.3.B. General Design_Operational	
		0.	influencing the design of the software		EVS500_SD500_Autominut abs Ovintew, Betton 22.5.5, General Design, Operational	
			influencing the design of the software.		E V 53000_SD 500_SD 200, Section 2.5.5.2, General Design	
					EV\$5000_SD\$00_D\$850, Section 3.2, General Design	
					EVS5000_SDS00_ElectionWare, Section 3.4, General Design	TDP
					EVS5000 SDS00 ERM, Section 3.2, General Design	
					EVS5000 SDS00 UELS. Section 3.2. General Design	
11	0					
<u> </u>	0					
		c.	Identification of all software items, indicating items that were:		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.C, Software Items	
					EVS5000_SDS00_DS200, Section 2.5.3.3, Software Identification	
					EVS5000_SDS00_DS850, Section 3.5, Software Items	
					EVS5000 SDS00 ElectionWare, Section 3.7, Software Item Identification	TDP
					EVS5000_SDS00_ERM_Section 3.5_Software Items	
					EVESOO SDOOL HELS Continue 2.5 Software Itame	
	~				EV35000_3D500_0EL3, Section 5.3, Software remis	
11	9					
			<ol> <li>Written in-house</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.C, Software Items	
					EVS5000_SDS00_DS200, Section 2.5.3.3, Software Identification	
1					EVS5000 SDS00 DS850, Section 3.5, Software Items	
					EVS5000_SDS00_ElectionWare, Section 3.7. Software Item Identification	TDP
					EVS5000 SDS00 EDM Section 2.5 Seffures Lange	1101
					E Y 5000_SD200_EAN, SOCIOI 5.3, SURVAIE REINS	
					E V SOUU_SLSUU_UELS, Section 3.5, Software items	
12	U					
1			<ol><li>Procured and not modified</li></ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.C, Software Items	
					EVS5000_SDS00_DS200, Section 2.5.3.3, Software Identification	
1					EVS5000_SDS00_DS850. Section 3.5. Software Items	
1					EVISSOO SDS00 Election Ware Section 3.7 Software Item Identification	TDD
1					E 5 5000_SESOU_ECCION wile, Section 5.7, Software tient identification	IDP
					E \S5UU_SD3UU_EKM, Section 3.5, Software Items	
1					EVS5000_SDS00_UELS, Section 3.5, Software Items	
12	1					
			<ol> <li>Procured and modified, including descriptions of the</li> </ol>		EVS5000 SDS00 AutoMARK SDS Overview. Section 2.5.3.C. Software Items	
			modifications to the software and to the default configuration		EVS5000 SDS00 DS200 Section 2.5.3.3. Software Identification	
			informetations to the software and to the default collingulation		E 15500_5500_5500_5500, Section 2.5.5.5, Software Identification	
1			options.		E v 3000_3D300_D3500, Section 3.3, Software items	
					EVS5000_SDS00_ElectionWare, Section 3.7, Software Item Identification	TDP
1					EVS5000_SDS00_ERM, Section 3.5, Software Items	
1					EVS5000_SDS00_UELS, Section 3.5, Software Items	
12	2					
12	3	d	Additional information for each item that includes:			
	~		reactional information for each item that includes.			

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		D				0
			1) Item identification		EV53000_3D500_AllowIARK SDS Overview, Section 2.5.5.D, Additional item information	
					EVS5000_SDS00_DS200, Section 2.5.3.4, Additional Information	
					EVS5000_SDS00_DS850, Section 3.6, Additional Item Information	
					EVS5000_SDS00_ElectionWare, Section 3.8, Additional Item Identification	TDP
					EVS5000_SDS00_ERM, Section 3.6, Additional Item Information	
					EVS5000_SDS00_UELS, Section 3.6, Additional Item Information	
124	1					
			<ol><li>General description</li></ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.D, Additional Item Information	
					EVS5000_SDS00_DS200, Section 2.5.3.4, Additional Information	
					EVS5000 SDS00 DS850, Section 3.6, Additional Item Information	
					EVS5000 SDS00 ElectionWare, Section 3.8, Additional Item Identification	TDP
					EVS5000 SDS00 ERM, Section 3.6. Additional Item Information	
					EVS5000 SDS00 UELS. Section 3.6. Additional Item Information	
12	5					
12,	, 		3) Software requirements performed by the item		EVS5000 SDS00 AutoMARK SDS Quartiesty Section 2.5.3.D. Additional Item Information	
			5) Software requirements performed by the term		EVS500_5D50_AutoMARK 5D5 OVENEW, Section 2.5.5.D, Auditorial Ichi Information	
					EV5500_SD500_D5200_Section 2.6. Additional information	
					Evision_SDS00_SDS00_SDS00, Section 3.0, Additional term information	
					EV\$5000_SDS00_ElectionWare, Section 3.8, Additional item identification	TDP
					EVS000_SDS00_EKM, Section 3.6, Additional Item Information	
					EVS5000_SDS00_UELS, Section 3.6, Additional Item Information	
120	Ċ					
			<ol> <li>Identification of interfaces with other items that provide data</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.3.E, Item Interface Identification	
			to, or receive data from, the item		EVS5000_SDS00_DS200, Section 2.5.9.1, Interface Identification	
					EVS5000_SDS00_DS850, Section 3.7, Item Interface Identification	
					EVS5000_SDS00_ElectionWare, Section 8, Interfaces	TDP
					EVS5000_SDS00_ERM, Section 3.7, Item Interface Identification	
					EVS5000_SDS00_UELS, Section 3.7, Item Interface Identification	
12	7					
			<ol><li>Concept of execution for the item</li></ol>		EVS5000 SDS00 AutoMARK SDS Overview, Section 2.5.3.F. Concept of Execution	
					EVS5000 SDS00 DS200. Section 2.5.3. Software Overview	
					EVS5000 SDS00 DS850. Section 3.8. Concept of Execution	
					EVS5000 SDS00 ElectionWate, Section 3.8. Additional Item Identification	TDP
					EVSS00_SDS00_ERM_Section 3.8_Concent of Execution	101
					EVS5000_SDS00_LIFLS_Section 3.8 Concept of Execution	
12	2				E 155000_0ELDS, Section 5.0, Concept of Excention	
120	,		The wonder shall also include a cortification that procured		EVESTION SDS00 AutoMARK SDS Quarting Section 252.6. Dreamed Item Cartification	
			The vendor shall also include a certification that procured		EV55000_SDS00_AutoWARK SDS OVENER, Section 2.5.5.0, Floculed item Certification	
			software items were obtained directly from the manufacturer or a		E VS200_SDS00_DS200, Section 2.5.5.5, Certifications	
			incensed dealer or distributor.		E VS200_SDS00_DS300, Section 3.11, Procured tiem Certification	
					EVS5000_SD500_Election ware, Section 5.9, Certificate of Procured item Certification	TDP
1					EV55000_SUS00_EKM, Section 5.9, Procured Item Certification	
					EVS5000_SDS00_UELS, Section 3.9, Procured Item Certification	
129	3					
130	2	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			
1			and conventions developed internally by the vendor as well as			
1			published industry standards that have been applied by the			
1			vendor. The vendor shall provide information that addresses the			
1			following standards and conventions:			
13	1					
		a.	Software System development methodology.		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.4.A, Software System Development Meth	
1					EVS5000_SDS00_DS200, Section 2.5.4, Software Standards and Conventions	
1					EVS5000_SDS00_DS850, Section 4.1, Software System Development Methodology	
1					EVS5000_SDS00_ElectionWare, Section II.A, Software Development Methodology	TDP
1					EVS5000_SDS00_ERM, Section 4.1, Software System Development Methodology	
1					EVS5000 SDS00 UELS, Section 4.1, Software System Development Methodology	
132	2					

Г	A	В	С	D	F	G
1	33	b.	Software design standards, including internal vendor procedures.		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.4.B, Software Design Standards, Including EVS5000_SDS00_DS200, Section 2.5.4, Software Standards and Conventions EVS5000_SDS00_DS850, Section 2.2, Software Design Standards, Including Vender Procedures EVS5000_SDS00_ElectionWare, Section 3.12, Software Design Standards, Including Vender Procedures EVS5000_SDS00_ERM, Section 4.2, Software Design Standards, Including Vender Procedures EVS5000_SDS00_ERM, Section 4.2, Software Design Standards, Including Vender Procedures EVS5000_SDS00_UELS, Section 4.2, Software Design Standards, Including Vender Procedures	TDP
1	34	с.	Software specification standards, including internal vendor procedures.		EV\$5000_SD800_AutoMARK SDS Overview, Section 2.5.4.C, Software Specification Standards EV\$5000_SD800_DS200, Section 2.5.4, Software Standards and Conventions EV\$5000_SD800_DS880, Section 4.3, Software Specification Standards EV\$5000_SD800_ElectionWare, Section 3.13, Software Specification Standards (All Modules) EV\$5000_SD800_ERM, Section 4.3, Software Specification Standards EV\$5000_SD800_UELS, Section 4.3, Software Specification Standards	TDP
1	35	d.	Software coding standards, including internal vendor procedures.		EV\$5000_SDS00_AutoMARK SDS Overview, Section 2.5.4.D, Software Coding Standards EV\$5000_SDS00_DS200, Section 2.5.4, Software Standards and Conventions EV\$5000_SDS00_DS850, Section 4.4, Software Coding Standards EV\$5000_SDS00_ElectionWare, Section 3.14, Software Coding Standards (All Modules) EV\$5000_SDS00_ERM, Section 4.4, Software Coding Standards EV\$5000_SDS00_UELS, Section 4.4, Software Coding Standards	TDP
1	36	e.	Testing and verification standards, including internal vendor procedures, that can assist in determining the program's correctness and ACCEPT/REJECT criteria.	also Vol. I, 5.2.6 Software Design and Coding Standards, Coding Conventions	EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.4.E, Test and Verification Standards EVS5000_SDS00_DS200, Section 2.5.4, Software Standards and Conventions EVS5000_SDS00_DS820, Section 4.5, Test and Verification Standards EVS5000_SDS00_ElectionWare, Section 3.15, Test and Verification Standards (All Modules) EVS5000_SDS00_ERM, Section 4.5, Test and Verification Standards EVS5000_SDS00_UELS, Section 4.5, Test and Verification Standards	TDP
1	37	f.	Quality assurance standards or other documents that can be used to examine and test the software. These documents include standards for program flow and control charts, program documentation, test planning, and test data acquisition and reporting.		EV\$5000_SDS00_AutoMARK SDS Overview, Section 2.5.4.F, Quality Assurance Standards EV\$5000_SDS00_DS200, Section 2.5.4, Software Standards and Conventions EV\$5000_SDS00_DS850, Section 4.6, Quality Assurance Standards EV\$5000_SDS00_ElectionWare, Section 3.16, Quality Assurance Standards EV\$5000_SDS00_ERM, Section 4.6, Quality Assurance Standards EV\$5000_SDS00_ERM, Section 4.6, Quality Assurance Standards EV\$5000_SDS00_UELS, Section 4.6, Quality Assurance Standards	TDP
1	<u>38</u> 39	<u>VII, 2.5.5</u>	Software Operating Environment This section shall describe or make reference to all operating environment factors that influence the software design.		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.1, Purpose and Scope EVS5000_SDS00_DS200, Section 2.5.1, Purpose and Scope EVS5000_SDS00_DS850, Section 1, Purpose and Scope EVS5000_SDS00_ElectionWare, Section 1, Purpose and Scope EVS5000_SDS00_ERM, Section 1, Purpose and Scope EVS5000_SDS00_UELS, Section 1, Purpose and Scope	TDP
1	40	VII, 2.5.5.1	Hardware Environment and Constraints			
1	41		The vendor shall identify and describe the hardware characteristics that influence the design of the software, such as:			
1	42	a.	The logic and arithmetic capability of the processor		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.5.1, Hardware Environment and Constraints EVS5000_SDS00_DS200, Section 2.5.5.1, Hardware Environment and Constraints EVS5000_SDS00_DS850, Section 5.1, Hardware Environment and Constraints EVS5000_SDS00_ElectionWare, Section 4.1, Hardware Environment and Constraints EVS5000_SDS00_ERM, Section 5.1, Hardware Environment and Constraints EVS5000_SDS00_ERM, Section 5.1, Hardware Environment and Constraints EVS5000_SDS00_UELS, Section 5.1, Hardware Environment and Constraints	TDP

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L	A	D	<u>ر</u>	D	F.	G
		b.	Memory read-write characteristics		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.5.1, Hardware Environment and Constraints	
					EVS5000_SDS00_DS200, Section 2.5.5.1, Hardware Environment and Constraints	
					EVS5000_SDS00_DS850_Section 5.1_Hardware Environment and Constraints	
					EVESCO_SDOO_ElectionWare Section 11 Institute Environment and Constraints	TDD
					E v 5000_2D500_Election wate, section 4.1, raidwate Environment and Constraints	IDP
					EVS5000_SDS00_ERM, Section 5.1, Hardware Environment and Constraints	
					EVS5000_SDS00_UELS, Section 5.1, Hardware Environment and Constraints	
1	43					
		c.	External memory device characteristics		EVS5000 SDS00 AutoMARK SDS Overview. Section 2.5.5.1. Hardware Environment and Constraints	
					EVS5000_SDS00_DS200_Section 2.5.5.1_Hardware Environment and Constraints	
					EVSSOO SDSOD DSSSO, Section 5.1. Hardware Environment and Constraints	
					Evision_Bbs0_Bs0, Sector 5.1, Hadware Environment and Constraints	
					EVS5000_SDS00_Election ware, Section 4.1, Hardware Environment and Constraints	TDP
					EV\$5000_SDS00_ERM, Section 5.1, Hardware Environment and Constraints	
					EVS5000_SDS00_UELS, Section 5.1, Hardware Environment and Constraints	
1	44					
		d.	Peripheral device interface hardware		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.5.1, Hardware Environment and Constraints	
		u.	r empheria de rice internace nara vare		EVSSOO SDSOO DS200 Section 2.5.5.1 Hardware Environment and Constraints	
					EV55000_SD500_D5500, Section 2.5.5.1, Hadware Environment and Constraints	
					EVS5000_SD500_DS850, Section 5.1, Hardware Environment and Constraints	
					EV\$5000_SD\$00_ElectionWare, Section 4.1, Hardware Environment and Constraints	TDP
					EVS5000_SDS00_ERM, Section 5.1, Hardware Environment and Constraints	
					EVS5000_SDS00_UELS, Section 5.1, Hardware Environment and Constraints	
1	45					
H			Data input/output davice protocols		EVS5000_SDS00_AutoMARK SDS Overview_Section 2.5.5.1_Hardware Environment and Constraints	
		c.	Data input output device protocols		EV55000_SD500_AllowArk SD5 Overview, Section 2.5.5.1, had wate Environment and Constraints	
					EVS5000_DS00_DS200, Section 2.5.5.1, Hardware Environment and Constraints	
					EV\$5000_SD\$00_D\$850, Section 5.1, Hardware Environment and Constraints	
					EVS5000_SDS00_ElectionWare, Section 4.1, Hardware Environment and Constraints	TDP
					EVS5000_SDS00_ERM, Section 5.1, Hardware Environment and Constraints	
					EVS5000 SDS00 UELS, Section 5.1, Hardware Environment and Constraints	
1	46					
H		c	One meter controls in directory and directory		EVESOOD SDOOD AutoMADV SDS Oversign Section 25.5.1 Handware Environment and Constraints	
		1.	Operator controls, indicators, and displays		EV55000_5D500_AltoWARK SDS Overview, Section 2.5.5.1, Hardware Environment and Constraints	
					EV\$5000_SD\$00_D\$200, Section 2.5.5.1, Hardware Environment and Constraints	
					EVS5000_SDS00_DS850, Section 5.1, Hardware Environment and Constraints	
					EVS5000_SDS00_ElectionWare, Section 4.1, Hardware Environment and Constraints	TDP
					EVS5000 SDS00 ERM, Section 5.1, Hardware Environment and Constraints	
					EVS5000 SDS00 UELS. Section 5.1. Hardware Environment and Constraints	
1	47					
1	40	111 0 5 5 0				
H	40	<b>VII</b> , 2.5.5.2	Software Environment			
			The vendor shall identify the compilers or assemblers used in the	Vol. 1, 9.7.1b Physical Configuration Audit	EVS000_DS00_AutoMARK SDS Overview, Section 2.5.5.2, Compilers / Assemblers	
			generation of executable code, and describe the operating system		EV\$5000_SD\$00_D\$200, Section 2.5.5.2, Software Environment	
			or system monitor.		EVS5000_SDS00_DS850, Section 5.2.1, Compilers / Assemblers	
					EVS5000 SDS00 ElectionWare, Section 4.2, Software Environment	TDP
					EVS5000_SDS00_ERM_Section 5.2.1. Compilers / Assemblers	
					EVS5000_SDS00_UELS_Section 5.2.1_Compilers / Assemblers	
	10				L'USU00_DEBU00_DEED, Beeton 5.2.1, complets / Assemblets	
H	49					
1	150	VII, VII, 2.5.	Software Functional Specification			
			The vendor shall provide a description of the operating modes of		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.1, Configuration and Operating Modes	
			the system and of software capabilities to perform specific		EVS5000_SDS00_DS200, Section 2.5.6.1, Configurations and Operating Modes	
			functions.		EVS5000 SDS00 DS850, Section 6.1, Configurations and Operating Modes	
					EVS5000_SDS00_ElectionWare, Section 5.1, Operating Modes	TDP
					EVS5000 SDS00 FRM Section 6.1 Configurations and Operating Modes	IDI
					EVES.00. SD000_DEELS, Service C1, Oreferencies and Operating Modes	
					EVS3000_SDS00_UELS, Section 6.1, Configurations and Operating Modes	
1	151					
1	52	VII, 2.5.6.1	Configuration and Operating Modes			
Г			The vendor shall describe all software configurations and		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.1, Configuration and Operating Modes	
			operating modes of the system, such as ballot preparation.		EVS5000 SDS00 DS200, Section 2.5.6.1, Configurations and Operating Modes	
1			election programming preparation for opening the polling place		EVS5000_SDS00_DS850_Section 6.1_Configurations and Operating Modes	
			recording votes and/or counting hallots, closing the polling place,		EVS500 SDS00 Election Ware Section 5.1 Onerating Modes	TDD
			and expertise experts. Experts counting ballots, closing the poining place.		Evision SDS00 - SDM Configuration of the configuration and Operating Modes	IDP
			and generating reports. For each software function or operating		EV3500_SD500_EKW, Section 6.1, Configurations and Operating Modes	
1			mode, the vendor shall provide:		EVS5000_SDS00_UELS, Section 6.1, Configurations and Operating Modes	
11	53			1		1

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H	~	В		D		9
		a.	A definition of the inputs to the function or mode (with		EV55000_SD500_AutoMARK SD5 Overview, Section 2.5.6.1, Configuration and Operating Modes	
			characteristics, tolerances or acceptable ranges, as applicable).		EVS5000_SDS00_DS200, Section 2.5.6.1, Configurations and Operating Modes	
					EVS5000_SDS00_DS850, Section 6.1, Configurations and Operating Modes	
					EVS5000_SDS00_ElectionWare, Section 5.1, Operating Modes	TDP
					EVS5000_SDS00_ERM, Section 6.1, Configurations and Operating Modes	
					EVS5000_SDS00_UELS, Section 6.1, Configurations and Operating Modes	
1	54					
		b.	An explanation of how the inputs are processed.		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.1, Configuration and Operating Modes	
					EVS5000_SDS00_DS200, Section 2.5.6.1, Configurations and Operating Modes	
					EVS5000_SDS00_DS850, Section 6.1, Configurations and Operating Modes	
					EVS5000 SDS00 ElectionWare, Section 5.1, Operating Modes	TDP
					EVS5000 SDS00 ERM, Section 6.1, Configurations and Operating Modes	
					EVS5000 SDS00 UELS, Section 6.1, Configurations and Operating Modes	
1	55					
F	00	c	A definition of the outputs produced (again with characteristics		EVS5000_SDS00_AutoMARK_SDS Overview_Section 2.5.6.1_Configuration and Operating Modes	
		с.	tolerances or acceptable ranges as applicable)		EVS500_DSDS0_DS200_Section 2.5.6.1 Configurations and Operating Modes	
			(orerances; or acceptable ranges; as appreable).		EVS500_SD50_D550, Section 6.1. Configurations and Operating Modes	
					EVS500_SD505_ElationWan_Social for full constitute Medica	TDD
					EVS500_SD500_EDM Socian 61 Costantiana and Onasting Modes	IDF
					EVS5000_SDS00_EKW, Section 6.1, Configurations and Operating Modes	
	50				EV35000_SD500_UELS, Section 0.1, Configurations and Operating Modes	
1	57	VII. 25.62	S-America Francisco			
H	57	VII, 2.5.0.2	Software Functions			
1	58		for detecting or handling:			
H	50	a	Exception conditions		EVS5000_SDS00_AutoMARK_SDS_Overview_Section 2.5.6.2.a. Exception Conditions	
		a.	Exception conditions		EVS500_SD500_D5200_S0500_T6200_S050000_25.02.04	
					EVS500_SD500_DS200, Section 5.2.10.2, Software Functions	
					EV5500_SD500_DJ550, Section 0.5.1, Exception Condition	TDD
					EV5500_SDS00_EDCtion (2.1, Exception Conductions (An Modules)	IDP
					EV55000_SDS00_EKM, Section 6.2.1, Exception Condutions	
	50				EVS5000_SDS00_UELS, Section 6.2.1, Exception Conditions	
1	59					
		b.	System failures		EV\$5000_SD\$00_AutoMARK SD\$ Overview, Section 2.5.6.2.b, System Failures	
					EVS5000_SDS00_DS200, Section, Section 2.5.6.2, Software Functions	
					EV\$5000_SD\$00_D\$850, Section 6.3.2, System Failures	
					EVS5000_SDS00_ElectionWare, Section 5.2.2, System Failures (All Modules)	TDP
					EVS5000_SDS00_ERM, Section 6.2.2, System Failures	
					EVS5000_SDS00_UELS, Section 6.2.2, System Failures	
1	60					
		с.	Data input/output errors		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.2.c, Data Input / Output Errors	
					EVS5000_SDS00_DS200, Section, Section 2.5.6.2, Software Functions	
					EVS5000_SDS00_DS850, Section 6.3.3, Data Input/Output Errors	
					EVS5000_SDS00_ElectionWare, Section 5.2.3, Data Input/Output Errors	TDP
					EVS5000_SDS00_ERM, Section 6.2.3, Data Input/Output Errors	
					EVS5000_SDS00_UELS, Section 6.2.3, Data Input/Output Errors	
1	61					
Γ		d.	Error logging for audit record generation		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.2.d, Error Logging for Audit Record Generation	
					EVS5000_SDS00_DS200, Section, Section 2.5.6.2, Software Functions	
1					EVS5000_SDS00_DS850, Section 6.3.4, Error Logging for Audit Record Generation	
					EVS5000_SDS00_ElectionWare, Section 5.2.4, Error Logging for Audit Record Generation	TDP
					EVS5000_SDS00_ERM, Section 6.2.4, Error Logging for Audit Record Generation	
1					EVS5000_SDS00_UELS, Section 6.2.4, Error Logging for Audit Record Generation	
1	62					
F		e.	Production of statistical ballot data		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.2.e, Production of Statistical Ballot Data	
					EVS5000_SDS00_DS200, Section, Section 2.5.6.2, Software Functions	
					EVS5000 SDS00 DS850, Section 6.3.5, Production of Statistical Ballot Data	
					EVS5000 SDS00 ElectionWare, Section 5.2.5, Production of Statistical Ballot Data	TDP
					EVS5000 SDS00 ERM. Section 6.2.5. Production of Statistical Ballot Data	
					EVS5000 SDS00 UELS, Section 6.2.5, Production of Statistical Ballot Data	
1	63					

Г	A	В	С	D	F	G
		f.	Data quality assessment		EVS5000 SDS00 AutoMARK SDS Overview. Section 2.5.6.2.f. Data Quality Assessment	-
			1		EVS5000 SDS00 DS200, Section, Section 2.5.6.2, Software Functions	
					EVS5000_SDS00_DS850_Section 6.3.6_Data Quality Assessment	
					EVS5000 SDS00 ElectionWare. Section 5.2.6. Data Quality Assessment	TDP
					EVS5000 SDS00 ERM. Section 6.2.6. Data Quality Assessment	1.51
					EVS5000 SDS00 UELS. Section 6.2.6. Data Quality Assessment	
1	64					
Ľ.		ø	Security monitoring and control		EV\$5000_SD\$00_AutoMARK SDS Overview_Section 2.5.6.2.g. Security Monitoring and Control	
		<i>b</i> .	Security monitoring and control		EVS500_SDS00_DS200_Section_25.6.2_Software Functions	
					EVS5000_SDS00_DS850_Section 6.3.7 Security Monitoring and Control	
					EVISION SDS00_Election Ware Section 5.2.7 Security Monitoring and Control (All Modules)	TDP
					EVS500_SDS00_ERM_Section 6.2.7 Security Monitoring and Control	1101
					EVS5000 SDS00 UELS Section 62.7 Security Monitoring and Control	
1	85				- 195000_95500_95550, section 0.2.7, secting monoring and control	
1	66	VII. 2.5.7	Programming Specifications			
ť			The vendor shall provide in this section an overview of the		EVS5000_SDS00_AutoMARK SDS Overview. Section 2.5.7. Programming Specifications	
			software design, its structure, and implementation algorithms and		EVS5000 SDS00 DS200 Section Section 2.5.7.1. Programming Specifications Overview	
			detailed specifications for individual software modules		EVS500_SDS00_DS850_Section 7 Programming Specifications	
			detailed specifications for fild riddal software modules.		EVS5000 SDS00 Election Ware Section 6 Programming Specifications	TDP
					EVS5000 SDS00 FRM Section 7 Programming Specifications	1101
					EVS5000 SDS00 UELS Section 7 Programming Specifications	
1	67					
1	68	VII 2571	Programming Specifications Overview			
Ľ		11, 2.3.7.1	This overview shall include such items as flowcharts data flow		EVS5000_SDS00_AutoMARK_SDS_Overview_Section 2.5.7_Programming_Specifications	
			diagrams and other graphical techniques that facilitate		EVS500_SDS00_DS200_Section_Section_25.7.1 Programming Specifications Overview	
			understanding of the programming specifications. This section		EVS500_SDS00_DS850_Section 7 Programming Specifications	
			shall be prepared to facilitate understanding of the internal		EVS5000 SDS00 Election Ware Section 6 Programming Specifications	TDP
			functioning of the individual software modules. Implementation		EVISION SDSOL FRM Section 7 Programming Specifications	1101
			of the functions shall be described in terms of the software		EV55000_SDS00_LELS_Section 7. Programming Specifications	
1	60		architecture algorithms and data structures		1 15/000_00000_01225, Section 7, 110gramming Specifications	
1	70	VII 2572	Programming Specifications Details			
Ŀ		11, 2.5.7.2	The programming specifications shall describe individual			
			software modules and their component units if applicable. For			
			each module and unit, the vendor shall provide the following			
1	71		information:			
÷		a	Module and unit design decisions, if any, such as algorithms used		EVS5000_SDS00_AutoMARK SDS Overview_Section 2.5.7. Programming Specifications	
					EVS5000 SDS00 DS200. Section. Section 2.5.7.1. Programming Specifications Overview	
					EVS500_SDS00_DS850_Section 7 Programming Specifications	
					EVS5000 SDS00 Election Ware Section 6 Programming Specifications	TDP
					EVS5000 SDS00 ERM. Section 7. Programming Specifications	101
					EVS5000 SDS00 UELS, Section 7, Programming Specifications	
1	72					
÷		b.	Any constraints, limitations, or unusual features in the design of		EVS5000_SDS00_AutoMARK SDS Overview_Section 2.5.7. Programming Specifications	
			the software module or unit		EVS5000 SDS00 DS200. Section. Section 2.5.7.1. Programming Specifications Overview	
					EVS5000 SDS00 DS850 Section 7. Programming Specifications	
					EVS5000 SDS00 ElectionWare. Section 6. Programming Specifications	TDP
					EVS5000 SDS00 ERM. Section 7. Programming Specifications	1.51
					EVS5000 SDS00 UELS, Section 7, Programming Specifications	
1	73					
F		c.	The programming language used and rationale for its use if other		EVS5000_SDS00_AutoMARK SDS Overview. Section 2.5.7. Programming Specifications	
			than the specified module or unit language		EVS5000 SDS00 DS200. Section 2.5.7.1. Programming Specifications Overview	
					EVS5000 SDS00 DS850 Section 7 Programming Specifications	
1					EVS5000 SDS00 ElectionWare Section 6 Programming Specifications	TDP
					EVS5000 SDS00 FRM. Section 7. Programming Specifications	101
					EVS5000 SDS00 UELS. Section 7. Programming Specifications	
1	74					

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	175		d.	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 databass 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 or other documents tha explain them	EAC RFI 2010-03 (Data Load) eff: Date 6/14/2010: 2005 VVSG [Vol. II Sec. 5.4 Source Code Review, Vol. II Sec. 5.4.2 a-v Assessment of Coding Conventions]; Vol. II, Sec. 2.5.7.2 d Programming Specifications Details	EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section , Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications	TDP
	176	s	EAC RFI 2010 03, effective date June 14, 2010	EAC Decision on Request for Interpretation 2010-03: 2005 VVSG [Vol. II Sec. 5.4 Source Code Review, Vol. II Sec. 5.4.2 av Assessment of Coding Conventions]; Vol. II, Sec. 2.5.7.2 d Programming Specifications Details		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_DS850, Section 8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases	TDP
		FTWARE DESIGN AND		Per EAC RFI 2010-03: Question: Shall database definition files be reviewed as source code under the guidelines found in Volum II, Section 5? Per EAC: "Volume II, Section 2.5.7.2.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 or 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	£	EV\$5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EV\$5000_SDS00_DS200, Section 2.5.8, System Databases EV\$5000_SDS00_DS850, Section 8, System Databases EV\$5000_SDS00_ElectionWare, Section 7, System Databases EV\$5000_SDS00_ERM, Section 8, System Databases EV\$5000_SDS00_UELS, Section 8, System Databases	TDP
	178	S P E C I F	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, o output from, the software module or unit.		EV\$5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EV\$5000_SDS00_DS200, Section 2.5.7.1, Programming Specifications Overview EV\$5000_SDS00_DSection 7, Programming Specifications EV\$5000_SDS00_ElectionWare, Section 6, Programming Specifications EV\$5000_SDS00_ERM, Section 7, Programming Specifications EV\$5000_SDS00_UELS, Section 7, Programming Specifications	TDP
	179	с		by the software unit, including, as applicable:			
	180	A T I O N		<ol> <li>Conditions in effect within the software module or unit when its execution is initiated</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ERK, Section 7, Programming Specifications EVS5000_SDS00_ERK, Section 7, Programming Specifications EVS5000_SDS00_ERK, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications	TDP
	181			2) Conditions under which control is passed to other software modules or units		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section 7, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications	TDP

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14	32		<ol> <li>Response and response time to each input, including data conversion, renaming, and data transfer operations</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications	TDP
14	33		<ol> <li>Sequence of operations and dynamically controlled sequencin during the software module's or unit's operation, including:</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section 7, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications	TDP
14	34		<ol> <li>The method for sequence control</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications	TDP
14	35		4.ii) The logic and input conditions of that method, such as timing variations, priority assignments		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section , Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications	TDP
1	36		<ol> <li>Data transfer in and out of memory</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section , Section 2.5.7.1, Programming Specifications Overview EVS5000_SDS00_DS850, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications	TDP
14	37		4. iv) The sensing of discrete input signals, and timing relationships between interrupt operations within the software module or unit		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section 7, Programming Specifications Overview EVS5000_SDS00_DS805, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications	TDP
14	38		5) Exception and error handling		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.7, Programming Specifications EVS5000_SDS00_DS200, Section 7, Programming Specifications Overview EVS5000_SDS00_DS805, Section 7, Programming Specifications EVS5000_SDS00_ElectionWare, Section 6, Programming Specifications EVS5000_SDS00_ERM, Section 7, Programming Specifications EVS5000_SDS00_UELS, Section 7, Programming Specifications	TDP
1	39		If the software module is a database, provide the information described in Section 2.5.8 [System Database].		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_DS820, Section 8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases	TDP
1	90	VII, 2.5.8	System Database			
1!	91		The vendor shall identify and provide a diagram and narrative description of the system's databases, and any external files used for data input or output. The information provided shall include for each database or external file:	also Vol. II, 2.2.1e. System Description		

	Α	В	С	D	F	G
1	02	a.	The number of levels of design and the names of those levels (such as conceptual, internal, logical, and physical).		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_DS850, Section 8, System Databases EVS5000_SDS00_EIRK_Section 8, System Databases EVS5000_SDS00_EIRK_Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases	TDP
1	93	ь.	Design conventions and standards (which may be incorporated by reference) needed to understand the design.		EV55000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EV55000_SDS00_DS200, Section 2.5.8, System Databases EV5S000_SDS00_DS850, Section 8, System Databases EV5S000_SDS00_ElectionWare, Section 7, System Databases EV55000_SDS00_ERM, Section 8, System Databases EV55000_SDS00_UELS, Section 8, System Databases	TDP
1:	94	с.	Identification and description of all database entities and how they are implemented physically (e.g., tables, files).		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_DS850, Section 8, System Databases EVS5000_SDS00_ElectionWare, Section 7, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases	TDP
1	95	d.	Entity relationship diagrams and description of relationships		EV\$5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EV\$5000_SDS00_DS200, Section 2.5.8, System Databases EV\$5000_SDS00_DS850, Section 8, System Databases EV\$5000_SDS00_ElectionWare, Section 7, System Databases EV\$5000_SDS00_ERM, Section 8, System Databases EV\$5000_SDS00_ERM, Section 8, System Databases	TDP
1	96	e.	Details of table, record or file contents (as applicable) to include individual data elements and their specifications, including:			
1:	97		1) Names/identifiers		EV\$5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EV\$5000_SDS00_DS200, Section 2.5.8, System Databases EV\$5000_SDS00_DS850, Section 8, System Databases EV\$5000_SDS00_ElectionWare, Section 7, System Databases EV\$5000_SDS00_ERM, Section 8, System Databases EV\$5000_SDS00_UELS, Section 8, System Databases	TDP
1:	98		<ol> <li>Data type (alphanumeric, integer, etc.)</li> </ol>		EV\$5000_SD\$00_AutoMARK SD\$ Overview, Section 2.5.8, System Databases EV\$5000_SD\$00_D\$200, Section 2.5.8, System Databases EV\$5000_SD\$00_D\$850, Section 8, System Databases EV\$5000_SD\$00_ElectionWare, Section 7, System Databases EV\$5000_SD\$00_ERM, Section 8, System Databases EV\$5000_SD\$00_ERM, Section 8, System Databases EV\$5000_SD\$00_UELS, Section 8, System Databases	TDP
1:	99		<ol> <li>Size and format (such as length and punctuation of a character string)</li> </ol>		EV\$5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EV\$5000_SDS00_DS200, Section 2.5.8, System Databases EV\$5000_SDS00_DS820, Section 8, System Databases EV\$5000_SDS00_ElectionWare, Section 7, System Databases EV\$5000_SDS00_ERM, Section 8, System Databases EV\$5000_SDS00_ERM, Section 8, System Databases EV\$5000_SDS00_UELS, Section 8, System Databases	TDP
2	00		<ol> <li>Units of measurement (such as meters, dollars, nanoseconds)</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases EVS5000_SDS00_DS200, Section 2.5.8, System Databases EVS5000_SDS00_DS850, Section 8, System Databases EVS5000_SDS00_EllectionWare, Section 7, System Databases EVS5000_SDS00_ERM, Section 8, System Databases EVS5000_SDS00_UELS, Section 8, System Databases	TDP

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			<ol> <li>Range or enumeration of possible values (such as 0-99)</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview_Section 2.5.8_System Databases	
			-)		EVESCOOL SERVICE 25.9 Surface Distances	
					EV35000_3D300_D3200, Section 2.5.8, System Databases	
					EVS5000_SDS00_DS850, Section 8, System Databases	
					EVS5000 SDS00 ElectionWare, Section 7, System Databases	TDP
					EVS5000_SDS00_EPM_Section & System Databases	
					Ev35000_3D300_EKN, Section 6, System Databases	
					EVS5000_SDS00_UELS, Section 8, System Databases	
2	01					
	-		6) Accuracy (how correct) and pracision (number of significant		EVS5000_SDS00_AutoMARK_SDS_Overview_Section 2.5.8_System Databases	
			b) Accuracy (now correct) and precision (number of significant		Evision_about_AutomAck abs Overview, Section 2.5.6, System Databases	
			digits)		EVS5000_SDS00_DS200, Section 2.5.8, System Databases	
					EVS5000_SDS00_DS850, Section 8, System Databases	
					EVS5000 SDS00 ElectionWare, Section 7, System Databases	
					EVS500_SD500_EBM Section 9. System Databases	TDP
					E v 5000_5D500_EKNI, Section 6, System Databases	
					EVS5000_SDS00_ExpressVote, Section 8, System Databases	
					EVS5000_SDS00_UELS, Section 8, System Databases	
2	02					
É	.02					
			<ol><li>Priority, timing, frequency, volume, sequencing, and other</li></ol>		EV\$5000_SD\$00_AutoMARK SD\$ Overview, Section 2.5.8, System Databases	
			constraints, such as whether the data element may be updated and		EVS5000_SDS00_DS200, Section 2.5.8, System Databases	
			whether business rules apply		EVS5000_SDS00_DS850_Section 8_System Databases	
			whether business rules upply		EVESOOD SDOOD Election Ware Section Deathers	TDD
					E v S000_DS00_Election ware, Section 7, System Databases	IDP
					EVS5000_SDS00_ERM, Section 8, System Databases	
					EVS5000 SDS00 UELS. Section 8. System Databases	
2	02				, , , _ , _ , _ ,	
Ľ	.03					
			<ol><li>Security and privacy constraints</li></ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.8, System Databases	
					EVS5000 SDS00 DS200, Section 2.5.8, System Databases	
					EVS5000_SDS00_DS850_Section 8_System Databases	
					EV\$5000_SD\$00_ElectionWare, Section 7, System Databases	TDP
					EVS5000_SDS00_ERM, Section 8, System Databases	101
					EVS5000 SDS00 ExpressVote, Section 8, System Databases	
					EVESON SDEON HELE Section 9. Sector Database	
					EV35000_SD500_UELS, Section 8, System Databases	
2	.04					
			<ol><li>Sources (setting/sending entities) and recipients</li></ol>		EVS5000 SDS00 AutoMARK SDS Overview, Section 2.5.8, System Databases	
			(using/receiving antities)		EVS5000_SDS00_DS200_Section 2.5.8_Sustam Databases	
			(using/receiving entities)			
					EVS5000_SDS00_DS850, Section 8, System Databases	
					EVS5000_SDS00_ElectionWare, Section 7, System Databases	TDP
					EVS5000_SDS00_ERM_Section 8_System Databases	
					EVS5000_DD500_LEE & Cartier 9 Carter Databases	
					EV35000_SD500_UELS, Section 8, System Databases	
2	205					
		f.	For external files, a description of the procedures for file		EVS5000 SDS00 AutoMARK SDS Overview, Section 2.5.8, System Databases	
			maintenance management of access privilages and security		EVS5000 SDS00 DS200 Section 2.5.8. System Databases	
			maintenance, management of access privileges, and security.		E v 5000_5500_5200, Section 2.5.6, System Databases	
					EVS5000_SDS00_DS850, Section 8, System Databases	
					EVS5000_SDS00_ElectionWare, Section 7, System Databases	TDP
					EVS5000_SDS00_ERM_Section 8_System Databases	
					EVESSO SDEOD STREET	
					EV55000_5D500_0ELS, Section 8, System Databases	
2	206					
2	07	VII, 2.5.9	Interfaces			
F			The vendor shall identify and provide a complete description of	also Vol. II. 2.2.1.f. System Description	EVS5000_SDS00_AutoMARK SDS_Overview_Section 2.5.9_Interfaces	
1			all internal and avternal interfaces, using a combinetion of		EVS500 SDS00 Soution 2.5.0 Interfaces	
			all internal and external interfaces, using a combination of text		EV53000_SD500_D5200, Section 2.5.9, interfaces	
			and diagrams.		EVS5000_SDS00_DS850, Section 9, Interfaces	
					EVS5000 SDS00 ElectionWare, Section 8, Interfaces	TDP
1					EVS5000 SDS00 FRM Section 9 Interfaces	
					EVESOO SDEOU ADE C. Service O. Letter Service	
					E V 53000_SLS00_UELS, Section 9, Interfaces	
2	08				1	
2	09	VII, 2,5,9,1	Interface Identification			
F			For each interface identified in the system operation, the system			
	10		i of each interface identified in the system overview, the vendor			
2	10		shall:			
1		a.	Provide a unique identifier assigned to the interface.		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.1, Interface Identification	
1					EVS5000 SDS00 DS200, Section 2.5.9.1, Interface Identification	
					EVS5000 SDS00 DS550 Section 0.1 Interface Identification	
1					Exproso_DDoo_DDoo_DDoo_DV, Sector 2.1, interface technication	
					EV55000_SD500_Election ware, Section 8, Interfaces	TDP
1					EVS5000_SDS00_ERM, Section 9.1, Interface Identification	
1					EVS5000 SDS00 UELS, Section 9.1, Interface Identification	
2	11					
14						

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2	12	b.	Identify the interfacing entities (systems, configuration items, users, etc.) by name, number, version, and documentation references, as applicable.		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.1, Interface Identification EVS5000_SDS00_DS200, Section 2.5.9.1, Interface Identification EVS5000_SDS00_DS850, Section 9.1, Interface Identification EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.1, Interface Identification EVS5000_SDS00_UELS, Section 9.1, Interface Identification	TDP
2	13	с.	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).		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.1, Interface Identification EVS5000_SDS00_DS200, Section 2.5.9.1, Interface Identification EVS5000_SDS00_DE850, Section 9.1, Interface Identification EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.1, Interface Identification EVS5000_SDS00_UELS, Section 9.1, Interface Identification	TDP
2	14	VII, 2.5.9.2	Interface Description			
2	15		For each interface identified in the system overview, the vendor shall provide information that describes:			(
2	16	a.	The type of interface (such as real-time data transfer, storage-and retrieval of data) to be implemented		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description	TDP
2	17	b.	Characteristics of individual data elements that the interfacing entity(ies) will provide, store, send, access, receive, etc., such as:			
2	18		1) Names/identifiers		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description	TDP
2	19		<ol> <li>Data type (alphanumeric, integer, etc.)</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description	TDP
2	20		<ol> <li>Size and format (such as length and punctuation of a character string)</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description	TDP
2	21		<ol> <li>Units of measurement (such as meters, dollars, nanoseconds)</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description	TDP
2	22		<ol> <li>Range or enumeration of possible values (such as 0-99)</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description	TDP

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-		D				9
			6) Accuracy (now correct) and precision (number of significant		EV35000_3D500_AutoMARK 5D5 Overview, Section 2.5.9,2, interface Description	
			digits)		EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description	
					EVS5000_SDS00_DS850, Section 9.2, Interface Description	
					EVS5000_SDS00_ElectionWare, Section 8, Interfaces	TDP
					EVS5000_SDS00_ERM, Section 9.2, Interface Description	
					EVS5000_SDS00_UELS, Section 9.2, Interface Description	
2	23					
	-		7) Priority, timing, frequency, volume, sequencing, and other		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2. Interface Description	
			constraints, such as whether the data element may be updated and		EVS5000_SDS00_DS200_Section 2.5.9.2. Interface Description	
			whether business rules apply		EVS5000 SDS00 DS850 Section 9.2 Interface Description	
			whether business rules uppry		EVESOO SDEOD Elostion Wars Section 2. Interfaces	TDD
					EV5500_SD500_EDC. (b)	IDP
					EV5300_SD500_ERM, Section 9.2, Interface Description	
					EVS5000_SDS00_UELS, Section 9.2, interface Description	
2	24					
			<ol><li>Security and privacy constraints</li></ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description	
					EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description	
					EVS5000_SDS00_DS850, Section 9.2, Interface Description	
					EVS5000_SDS00_ElectionWare, Section 8, Interfaces	TDP
					EVS5000 SDS00 ERM, Section 9.2, Interface Description	
					EVS5000 SDS00 UELS, Section 9.2, Interface Description	
2	25					
F			(a) Sources (setting/sending entities) and resinients		EVS5000 SDS00 AutoMARK SDS Quartian: Section 2.5.9.2 Interface Description	
			9) Sources (setting/sending entities) and recipients		EV5300_SD500_AutoMARK SD5 Overview, Section 2.5.9.2, interface Description	
			(using/receiving entities)		EV55000_SD500_D5200, Section 2.5.9.2, Interface Description	
					EVS5000_SDS00_DS850, Section 9.2, Interface Description	
					EVS5000_SDS00_ElectionWare, Section 8, Interfaces	TDP
					EVS5000_SDS00_ERM, Section 9.2, Interface Description	
					EVS5000_SDS00_UELS, Section 9.2, Interface Description	
2	26					
		с.	Characteristics of communication methods that the interfacing			
2	27		entity(ies) will use for the interface, such as:			
			1) Communication links/hands/frequencies/media and their		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2. Interface Description	
			characteristics		EVS5000 SDS00 DS200 Section 2.5.9.2 Interface Description	
			ond determines		EVS500_SDS0_DS50, Section 9.2 Interface Description	
					EVS500_SDS00_ElactionWay Section 8 Interfaces	TDD
					Evision apparent the second of methanes	IDP
					EV55000_SDS00_ERM, Section 9.2, Interface Description	
					EVS5000_SDS00_UELS, Section 9.2, Interface Description	
2	28					
			<ol><li>Message formatting</li></ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description	
					EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description	
					EVS5000_SDS00_DS850, Section 9.2, Interface Description	
					EVS5000_SDS00_ElectionWare, Section 8, Interfaces	TDP
1					EVS5000 SDS00 ERM, Section 9.2, Interface Description	
					EVS5000 SDS00 UELS. Section 9.2. Interface Description	
2	29					
-	23		2) Flam and all (such as a summer such as a such set		EVESSOO SDS00 AutoMADE SDS Outering Section 25.0.2 Interface Description	
			3) Flow control (such as sequence numbering and burler		Evision appand provide the state of the stat	
			allocation)		EV55000_SD500_D5200, Section 2.5.9.2, Interface Description	
1					Evosou Sobo Losou, Section 9.2, Interface Description	
					EV\$5000_SD\$00_ElectionWare, Section 8, Interfaces	TDP
					EVS5000_SDS00_ERM, Section 9.2, Interface Description	
					EVS5000_SDS00_UELS, Section 9.2, Interface Description	
2	30					
			4) Data transfer rate, whether periodic/aperiodic, and interval		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description	
			between transfers		EVS5000 SDS00 DS200, Section 2.5.9.2, Interface Description	
1					EVS5000_SDS00_DS850_Section 9.2. Interface Description	
					EVS500 SDS00 Election Ware Section 8 Interfaces	TDP
					EVSSOO_SDSOC_FRM_Section 9.2 interface Description	1Dr
					EVS500_SD500_EARING Section 0.2. Interface Description	
-					E v 55000_5D500_0ELS, Section 9.2, Interface Description	
2	31					

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23	2		5) Routing, addressing, and naming conventions		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interface Description EVS5000_SDS00_ERK, Section 9.2, Interface Description EVS5000_SDS00_ERK, Section 9.2, Interface Description	TDP
23	3		<ol> <li>Transmission services, including priority and grade</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description	TDP
23	4		<ol> <li>Safety/security/privacy considerations, such as encryption, user authentication, compartmentalization, and auditing</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS805, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description	TDP
23	5	d.	Characteristics of protocols the interfacing entity(ies) will use for the interface, such as:			
23	6		<ol> <li>Priority/layer of the protocol</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description	TDP
23	7		<ol> <li>Packeting, including fragmentation and reassembly, routing, and addressing</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description	TDP
23	8		<ol> <li>Legality checks, error control, and recovery procedures</li> </ol>		EV\$5000_SD\$00_AutoMARK SD\$ Overview, Section 2.5.9.2, Interface Description EV\$5000_SD\$000_SD\$200, Section 2.5.9.2, Interface Description EV\$5000_SD\$00_DS\$800, Section 9.2, Interface Description EV\$5000_SD\$00_ElectionWare, Section 8, Interfaces EV\$5000_SD\$00_ERM, Section 9.2, Interface Description EV\$5000_SD\$00_UELS, Section 9.2, Interface Description	TDP
23	9		<ol> <li>Synchronization, including connection establishment, maintenance, termination</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description	TDP
24	0		<ol> <li>Status, identification, and any other reporting features</li> </ol>		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS200, Section 2.5.9.2, Interface Description EVS5000_SDS00_DS850, Section 9.2, Interface Description EVS5000_SDS00_ElectionWare, Section 8, Interfaces EVS5000_SDS00_ERM, Section 9.2, Interface Description EVS5000_SDS00_UELS, Section 9.2, Interface Description	TDP

Γ	A	В	С	D	F	G
2.	1	e.	Other characteristics, such as physical compatibility of the interfacing entity(ies) (such as dimensions, tolerances, loads, voltages and plug compatibility)		EV\$5000_SDS00_AutoMARK SDS Overview, Section 2.5.9.2, Interface Description EV\$5000_SDS00_DS200, Section 2.5.9.2, Interface Description EV\$5000_SDS00_DS850, Section 9.2, Interface Description EV\$5000_SDS00_ElectionWare, Section 8, Interfaces EV\$5000_SDS00_ERM, Section 9.2, Interface Description EV\$5000_SDS00_UELS, Section 9.2, Interface Description	TDP
2	12	VII, 2.5.10	Appendices			
24	13		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 treatment in appendix form include:			
24	14	a.	Glossary: A listing and brief definition of all software module names and variable names, with reference to their locations in th 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.		No glossary appendices were noted in the core SDS TDPs	TDP
2	15	b.	References: A list of references to all related vendor documents, data, standards, and technical sources used in software development and testing.		No reference appendices were noted in the core SDS TDPs	TDP
	10	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 coding.		EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.10, Appendices ("N/A") EVS5000_SDS00_DS200, Section II, Appendixes EVS5000_SDS00_DS850, Section 10, Appendixes EVS5000_SDS00_ElectionWare, Sections 9-22, Appendixes	TDP
2	17		System Security Specification			
2	18		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, 2.1.1.g. Overall System Capabilities, Security; Vol. I, Sec. 7 Security Requirements; Vol. I, Sec. 6 Telecommunications Requirements	AutoMARK ESS System Security Specification AQS-18-5002-001-S EVS5000_SSS01_JSP Template EVS5000_SSS02.08_AutoMARK Quick Hash Procedure EVS5000_SSS02.01_EMS_PC_SecScriptDesc EVS5000_SSS02.01_DbuttuLiveCD EVS5000_SSS02.06_DS200Quick Hash Procedure EVS5000_SSS02.06_DS200Quick Hash Procedure EVS5000_SSS02_Hardening Procedures EVS5000_SSS02_Hardening Procedures EVS5000_SSS03_Voting System Validation Guide01_File Listing_DS200 EVS5000_SSS03_Voting System Validation Guide04_File Listing_ElectionWare EVS5000_SSS03_Voting System Validation Guide04_File Listing_ElectionWare EVS5000_SSS03_Voting System Validation Guide05_File Listing_ELS EVS5000_SSS03_Voting System Validation Guide06_File_Listing_ELS EVS5000_SSS03_Voting System Validation Guide07_File Listing_ELS EVS5000_SSS03_Voting System Validation Guide07_File Listing_ERMS EVS5000_SSS03_Voting System Validation Guide09_File Listing_DS500 EVS5000_SSS03_Voting System Validation Guide09_File Listing_DS50 EVS5000_SSS03_Voting System Validation Guide09_File Listing_DS850 EVS5000_SSS03_Voting System Validation Guide09_File Listing_DS850 EVS5000_SSS02_VOT_DS850QuickHashScripts [Folder] EVS5000_SSS02_VOT_DS850QuickHashScripts [Folder] EVS5000_SSS02_VOT_ALANDARKHashTools [Folder]	TDP

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	~	D	Information provided by the yender in this section of the TDP		AntoMARK ESS System Sequeity Specification AOS 18 5002 001 S	0
			may be duplicative of information required by other sections		Autowark Ess System Security Specification AQS-18-5002-001-5	
			Wandow may arose reference to information provided in other		EV55000_SSS00	
			vendors may cross-reference to information provided in other		EV55000_SSS01_JSF Template	
			sections provided that the means used provides a clear mapping t		EV55000_S55002.06_AutoMARK Quick Hash Procedure	
			the requirements of this section.		EV55000_S5802.01_EMIS_PC_secscriptilesc	
					EVS5000_SSE02.01_UDBINULIVECD	
					EV55000_S5502.05_EM5Workstation variation of under	
					EV55000_S5502.06_D5200Quick Hash Procedure	
					EVS5000_SS02.07_DS850Quick Hash Procedure	
					EVS5000_SS802_Hardening Procedures	
					EVS5000_SS803_Voting System Validation Guide01_File Listing_DS200	
					EVS5000_SS505_Voting System Validation Guide02_File Listing_AutoMARK	
					EVS5000_SS803_Voting System Validation Guide04_File Listing_ElectionWare	TDP
					EV\$5000_SS\$03_Voting System Validation Guide05_File Listing_RMS	
					EV\$5000_SS\$03_Voting System Validation Guide06_File_Listing_ELS	
					EV\$5000_SS\$03_Voting System Validation Guide07_File Listing_VATPreview	
					EV\$5000_SS\$03_Voting System Validation Guide08_File Listing_ERM	
					EV\$5000_SSS03_Voting System Validation Guide09_File Listing_DS850	
					EV\$5000_SS\$07_PhysEquipmentSecurityBestPract	
					EV\$5000_\$\$\$09_WinO8_\$ECBaseSettings	
1						
					EV\$5000_SSS02.01_HardeningScripts [Folder]	
					EV\$5000_SSS02.07.01_DS850QuickHashScripts [Folder]	
					EV\$5000_\$\$\$02.08.01_AutoMARKHashTools [Folder]	
249	9					
			The Security Specification shall contain the sections identified			
250	)		below.			
25		VII. 2.6.1	Access Control Policy			
			The vendor shall specify the features and capabilities of the	also Vol. I. 7.2.1 Security Requirements. General	EVS5000 SSS00. Chapter 1, Access Control Policy	
			access control policy recommended to purchasing jurisdictions to	Access Control Policy;		
			provide effective voting system security. The access control	also Vol. I. 7.2.1.1 Individual Access Privileges		
	s		policy shall address the general features and capabilities and	,		TDP
	v		individual access privileges indicated in Volume I. Subsection			
25			7.2. [Access Control]			
253	3	VII. 2.6.2	Access Control Measures			
	<u> </u>	,	The vendor shall provide a detailed description of all system	also Vol. I. 7.2.1.2 Access Control Measures	EVS5000_SSS00. Chapter 2. Access Control Measures	
	E		access control measures and mandatory procedures designed to			
	м		permit access to system states in accordance with the access			
			policy, and to prevent all other types of access to meet the			TDP
	S		specific requirements of Volume I. Subsection 7.2.			
254	Е					
	С		The vendor also shall define and provide a detailed description of	also Vol. I, 7.2.1.2 Access Control Measures	EVS5000 SSS00, Chapter 2, Access Control Measures	
1	U.		the methods used to preclude unauthorized access to the access			TDP
25	R		control capabilities of the system itself.			
256		VII, 2.6.3	Equipment and Data Security			
	÷		The vendor shall provide a detailed description of system	Vol. I, 7.3.1 Physical Security Requirements,	EVS5000_SSS00, Chapter 3, Equipment and Data Security	
1			capabilities and mandatory procedures for purchasing	Polling Place Security;	· · · ·	
	Y		jurisdictions to prevent disruption of the voting process and	also Vol. I, 7.3- 7.3.2 Physical Security Measures		
1			corruption of voting data to meet the specific requirements of			
	S		Volume I, Subsection 7.3. [Physical Security Measures] This			TDP
1	Р		information shall address measures for polling place security and			
	Е		central count location security.			
25	С		-			
258		VII, 2.6.4	Software Installation			
<u> </u>	F		The vendor shall provide a detailed description of the system	also Vol. I, 7.4-7.4.6 Software Security	EVS5000 SSS00, Chapter 4, Software Installation and Security	
			capabilities and mandatory procedures for purchasing			
			jurisdictions to ensure secure software (including firmware)			
			installation to meet the specific requirements of Volume I.			TDP
1	A		Subsection 7.4. [Software Security] This information shall			
1	Т		address software installation for all system components.			
259						
260	0	VII. 2.6.5	Telecommunications and Data Transmission Security			

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	A	D	<u>ر</u>	D	۲	G
	N		The vendor shall provide a detailed description of the system	Vol. I, 7.5.2 b. Security Requirements,	EVS5000_SSS00, Section 3.1.9, Network Security Proctices	
			capabilities and mandatory procedures for purchasing	Telecommunications and Data Transmission		
			capabilities and manuatory procedures for purchasing	Telecommunications and Data Transmission,		
			jurisdictions to ensure secure data transmission to meet the	Protection Against External Threats		TDP
			specific requirements of Volume I. Subsection 7.5:			
20			[Talacommunications and Data Transmission]			
20	01		[Telecommunications and Data Transmission].			
		a.	For all systems, this information shall address access control, and	also Vol. I, 7.5.3 Security Requirements,	EVS5000_SSS00, Section 3.1.9, Network Security Proctices	
			prevention of data interception.	Telecommunications and Data Transmission,		TDP
26	2			Monitoring and Responding to External Threats		
20	<i>"</i> 2					
		b.	For systems that use public communications networks as defined	Vol. 1, 7.6.2.1 Security Requirements, Use of Public		
			in Volume I, Section 6 [Telecommunications Requirements], this	Communications Networks, Documentation of		
			information shall also include:	Mandatory Security Activities:		
			information sharf also merude.	Manualory Security Henvines,		
				also Vol. I, 7.5.2 Protection Against External		
				Threats;		
				also Vol. 1.7.5.3 Monitoring and Responding to		
				also vol. 1, 7.5.5 Monitoring and Responding to		
				External Threats		
				Wireless: Vol. I, 7.7.1 Controlling Usage; 7.7.2		
				Mentifying Usage		
				and any suge		
26	3	1				
1		1	i. Capabilities used to provide protection against threats to third		EVS5000_SSS00, Section 3.1.9, Network Security Proctices	mp p
26	4	1	narty products and services.		-	TDP
20	· ·	1	Delicies and second by the second	h	EVICEOR SECON Section 2.1.0 Maturely Security Destring	
1		1	<ol> <li>roncies and processes used by the vendor to ensure that such</li> </ol>		E V 55000_55500, Section 3.1.9, Network Security Proctices	TDP
26	65	1	protection is updated to remain effective over time.			
			iii. Policies and procedures used by the vendor to ensure that		EVS5000_SSS00_Section 3.1.9. Network Security Proctices	
			in Toheles and procedures used by the Vendor to ensure that		2 155000_00000, Section 5.177, Tethonk Secting Trochess	
			current versions of such capabilities are distributed to user			TDP
			jurisdictions and are installed effectively by the jurisdiction.			1101
26	6					
			in A destilled decodesting of the constant conclutivity and		EVICEORD CREATER 2.1.0 Matural County Description	
			<ol> <li>A detailed description of the system capabilities and</li> </ol>		EV\$5000_\$\$\$00, Section 3.1.9, Network Security Procinces	
			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			TDP
			method of voting, to determine when it is appropriate to resume			
			voting over the network, and to consolidate votes cast using the			
26	57		alternate method.			
-	-		. A detailed decomination of all extinuition to be conformed in		EVICEORD SECON Section 2.1.0 Matural Security Description	
			v. A detailed description of all activities to be performed in		EV\$5000_55500, Section 5.1.9, Network Security Produces	
			setting up the system for operation that are mandatory to ensure			TDD
			effective system security, including testing of security before an			IDF
26	8		election			
20	.0					
			<ol> <li>A detailed description of all activities that should be</li> </ol>		EV\$5000_\$\$\$00, Section 3.1.9, Network Security Proctices	
			prohibited during system setup and during the timeframe for			TDD
			voting operations, including both the hours when polls are open			IDP
26	:0		and when polls are closed			
20	10		and when poils are closed.			
27	0	VII, 2.6.6	Other Elements of an Effective Security Program			
1			The vendor shall provide a detailed description of the following			
			additional procedures required for use by the purchasing			
27	1		invisidiation			
21	-		juristiction.			
		a.	Administrative and management controls for the voting system		EVS5000_SSS00, Section 1, Access Control Policy	TDP
27	2	1	and election management, including access controls.			1DF
		b	Internal security procedures, including operating procedures for		EV\$5000_SSS00_Section 1_Access Control Policy	
		0.	internal security procedures, including operating procedures for		2 155000_55500, Section 1, needs Control 1 oney	TIDD
		1	maintaining the security of the software for each system function			IDP
27	'3		and operating mode.			
		с.	Adherence to, and enforcement of, operational procedures (e.g.,		EVS5000 SSS00, Section 1, Access Control Policy	
27	1		affective paceword management)			TDP
21	-	,	Di i le illi le illi le illi i le il			
		a.	Physical facilities and arrangements.		EVS5000_SSS00, Section 1, Access Control Policy	TDP
27	'5	1				
		e.	Organizational responsibilities and personnel screening		EVS5000 SSS00, Section 1, Access Control Policy	
27	16	1				TDP
21	0					
1		1	inis documentation shall be prepared such that these		E VS5000_SS500, Section 1, Access Control Policy	
			requirements can be integrated by the jurisdiction into local			TDP
27	7		administrative and operating procedures			
2	78	VII 27	System Test and Verification Specification			
21	0	v11, 2.7	system rest and vernication specification			
			The vendor shall provide test and verification specifications for:			
27	'9					

4		В	С	D	F	G
$\vdash$	·		Development test specifications	5	EV\$5000_STP00	Ŭ
			Severophent test specifications		EV55000_31100 EV55000_TC00_AutoMARK	
					EV55000_TC00_AU00HARK	
					EVS5000_1C00_ElectionWare01_Manage	
					EVS5000_1C00_ElectionWare02_Define	TDP
					EVS5000_TC00_Electionware03_Design	
					EVS5000_TC00_Electionware04_Deliver	
					EVS5000_TC00_Electionware05_Resolve	
					EVS5000_TC00_ERM	
280						
			National certification test specifications		EVS5000 STP00	
					EVS5000 TC00 AutoMARK	
					EVS5000 TC00 DS200	
					EV55000_TC00_E5500	
					EV55000_TC00_ElectionWater12Wanage	775 D
					EV55000_1C00_Election ware02_Define	TDP
					EVS5000_TC00_Electionware03_Design	
					EVS5000_TC00_Electionware04_Deliver	
					EVS5000_TC00_Electionware05_Resolve	
					EVS5000_TC00_ERM	
281						
282	VIL 2	2.7.1	Development Test Specifications			
202	, .		The vendor shall describe the plans procedures and data used			
			huring software development and system integration to verify			
			software development and system integration to verify			
000			system logic correctness, data quanty, and security. This			
283	_		lescription shall include:			
284	a.		l'est identification and design, including:			
			1) Test structure		EVS5000_STP00, Section 1.1, Overview	TDP
285						
			<ol><li>Test sequence or progression</li></ol>		EVS5000_STP00, Section 1.3, Test Phases	TDP
286						IDI
			<ol><li>Test conditions</li></ol>		EVS5000_STP00	TDD
287						IDP
	b.		Standard test procedures, including any assumptions or		EVS5000 STP00, Section 2.3.1, Overview / Standard Test Procedures	
288			constraints			TDP
	c		Special purpose test procedures including any assumptions or		EV\$5000_STP00	
	e.		constraints		EVSSOO_TCO0_AutoMARK	
					E v SJOUD_ICUD_Election wared_Manage	
					EVS5000_IC_00_Election ware02_Define	TDP
					EVS5000_1C00_Electionware03_Design	
					EVS5000_TC00_Electionware04_Deliver	
					EVS5000_TC00_Electionware05_Resolve	
					EVS5000_TC00_ERM	
289						
<u> </u>	d.		Fest data: including the data source, whether it is real or		EVS5000 STP00	
			simulated and how test data are controlled		EVS5000 TC00 AutoMARK	
		·	sinuacea, and now tost data are controlled			
					E Y 5000_1C/0_65200 EVISSON_7COD_PSSO	
					EVS5000_1C00_Election ware01_Manage	
					EVS5000_IC00_ElectionWare02_Define	TDP
					EVS5000_TC00_Electionware03_Design	
					EVS5000_TC00_Electionware04_Deliver	
					EVS5000_TC00_Electionware05_Resolve	
					EVS5000_TC00_ERM	
290						

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291		e.	Expected test results		EVS5000_STP00 EVS5000_TC00_AutoMARK EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_Electionware02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_Electionware05_Resolve	TDP
292	S Y 5	f.	Criteria for evaluating test results		EV55000_TC00_AutoMARK EV55000_TC00_DS200 EV55000_TC00_DS850 EV55000_TC00_ElectionWare01_Manage EV55000_TC00_Electionware02_Define EV55000_TC00_Electionware03_Design EV55000_TC00_Electionware04_Deliver EV55000_TC00_Electionware05_Resolve EV55000_TC00_ERM	TDP
293	5 T E M T E	VII 272	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.			
295	S T	VII, 2.7.2	The vendor shall provide specifications for verification and validation of overall software performance. These specifications shall cover:			
296	A N D V E R I F I	a.	Control and data input/output		EV55000_TC00_AutoMARK EV55000_TC00_DS200 EV55000_TC00_DS200 EV55000_TC00_DElectionWare01_Manage EV55000_TC00_ElectionWare02_Define EV55000_TC00_Electionware03_Design EV55000_TC00_Electionware04_Deliver EV55000_TC00_Electionware05_Resolve EV55000_TC00_ERM	TDP
297	- C A T I O N	b.	Acceptance criteria		EVS5000_STP00 EVS5000_TC00_AutoMARK EVS5000_TC00_DS200 EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_ElectionWare02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_ERM	TDP

	Α	В	С	D	F	G
29	3	с.	Processing accuracy		EVS500_STP00 EVS500_TC00_AutoMARK EVS500_TC00_DS200 EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_Electionware02_Define EVS5000_TC00_Electionware03_Design EVS5000_TC00_Electionware04_Deliver EVS5000_TC00_Electionware05_Resolve EVS5000_TC00_ERM	TDP
29	9	d.	Data quality assessment and maintenance		EV55000_STP00 EV55000_TC00_AutoMARK EV55000_TC00_DS200 EV55000_TC00_DS850 EV55000_TC00_ElectionWare01_Manage EV55000_TC00_Electionware02_Define EV55000_TC00_Electionware03_Design EV55000_TC00_Electionware04_Deliver EV55000_TC00_Electionware05_Resolve EV55000_TC00_ERM	TDP
30		e.	Ballot interpretation logic	Vol. 1, 7.9.3 e, VVPAT Requirements, Electronic and Paper Record Storage	EV55000_STP00 EV55000_TC00_AutoMARK EV55000_TC00_DS200 EV55000_TC00_DS850 EV55000_TC00_ElectionWare01_Manage EV55000_TC00_Electionware02_Define EV55000_TC00_Electionware03_Design EV55000_TC00_Electionware04_Deliver EV55000_TC00_Electionware05_Resolve EV55000_TC00_ERM	TDP
30	1	f.	Exception handling		EVS5000_TC00_AutoMARK EVS5000_TC00_DS200 EVS5000_TC00_DS850 EVS5000_TC00_ElectionWare01_Manage EVS5000_TC00_ElectionWare02_Define EVS5000_TC00_ElectionWare04_Deliver EVS5000_TC00_ElectionWare04_Deliver EVS5000_TC00_ElectionWare05_Resolve EVS5000_TC00_ERM	TDP
30		g.	Security		EV55000_TC00_AutoMARK EV55000_TC00_DS200 EV55000_TC00_DS200 EV55000_TC00_DS850 EV55000_TC00_ElectionWare01_Manage EV55000_TC00_ElectionWare02_Define EV55000_TC00_Electionware03_Design EV55000_TC00_Electionware04_Deliver EV55000_TC00_Electionware05_Resolve EV55000_TC00_ERM	TDP

A	В	С	D	F	G
	h.	Production of audit trails and statistical data		EVS5000 STP00	
				EVS5000 TC00 AutoMARK	
				EV55000_TC00_D5550	
				EV55000_TC00_ElectionWate0_intalage	77D D
				EVS5000_TC00_Election ware02_Define	TDP
				EVS5000_1C00_Electionware05_Design	
				EVS5000_1C00_Electionware04_Deliver	
				EVS5000_TC00_Electionware05_Resolve	
				EV\$5000_TC00_ERM	
303					
		The specifications shall identify procedures for assessing and		EVS5000_STP00	
		demonstrating the suitability of the software for election use.		EVS5000 TC00 AutoMARK	
				EVS5000_TC00_DS200	
				EVS5000_TC00_DS850	
				EVS500_TC00_ElectionWare01_Manage	
				EV55000_TC00_ElectionWaren20_Define	TDD
				EV55000_TC00_Electionware(2_Define	IDP
				EV55000_TC00_Electionware05_Design	
				EVS5000_IC00_Electionware04_Deliver	
				EVS5000_IC00_Electionware05_Resolve	
				EVS5000_TC00_ERM	
304					
305	VII, 2.8	System Operations Procedures			
		This documentation shall provide all information necessary for		EVS5000_SOP00_AMVAT	
		system use by all personnel who support pre-election and election		EVS5000_SOP00_DS200	
		preparation, polling place activities and central counting		EVS5000_SOP00_DS850	
		activities, as applicable, with regard to all system functions and		EVS5000_SOP00_ElectionWare01_Admin	
		operations identified in Subsection 2.3 above [Ballot Preg Prep.		EVS5000 SOP00 ElectionWare02 Define	
		of Elecspecific software/firmware: ballot installation and ballot		EVS5000_SOP00_ElectionWare03_Design	
		counting software: system and equip tests: all polling place		EVS5000_SOP00_ElectionWare04_Deliver	
		operations by voters and officials including status message		EVS5000 SOP00 ElectionWare05 Results	
		generation: closing the polling place: reports by voting machine		EVESTION SOLDOL ELS	TDP
		polling place, progingt consolidated reports by voting machine,		EV55000_SOD00_EE3	
		twoils]		EV55000_SOD00_Lttm EV75000_SOD00_NetworkConfigCuide	
		uansj.		EV\$5000_SOF00_NetworkConfig0utue	
		The nature of the instructions for operating personnel will depend			
		upon the overall system design and required skill level of system		EVS5000_SOP00_AMVAT.01_VerticationElection [Folder]	
		operations support personnel.			
				EV\$5000_ORPT02_BallotProductionGuide [In Above Folder]	
306					
		The system operations procedures shall contain all information		EVS5000_SOP00_AMVAT	
		that is required for the preparation of detailed system operating		EVS5000 SOP00 DS200	
		procedures, and for operator training, as described below.		EV\$5000_SOP00_D\$850	
		F8,		EVS5000 SOP00 ElectionWare01 Admin	
				EVS5000_SOP00_ElectionWare02_Define	
				EV55000_SOP00_ElectionWinter02_Design	
				EVS500_SOP00_ElectionWare04_Deliver	
				EVISSION_SOLD Floating Were S Downles	
				EV55000_SOP00_ELS	TDP
				E v \$5000_s0P00_ivetworkConfigGuide	
				EV\$5000_SOP00_AMVAT.01_VerficationElection [Folder]	
				EVS5000_ORPT02_BallotProductionGuide [In Above Folder]	
307					
308	VII, 2.8.1	Introduction			

	Δ	В	C	D	F	G
	~	D	The wondor shall provide a summary of system operating	Vol. 1.2.5.1 System Audit	EVS5000 SOD00 AMVAT Section 1 Overview	v
			functions and modes, in sufficient detail to normit understanding	vol. 1, 2.5.1 System Audit	EVS500_SOP00_REVOLSSION 2. Introduction to the DS200	
			functions and modes, in sufficient detail to permit understanding		EV5500_SOP00_DS200, Section 5, introduction to the DS200	
			of the system's capabilities and constraints.		E VS000_SOP00_DS530, Section 1, DS530 Overview	
					EV55000_SOP00_ElectionWare01_Admin, Section 1, Overview	
					EV55000_SOP00_ElectionWare02_Define, Section 1, Home	
					EVS200_SOP00_Electionwareus_Design, Section 1, Paper Ballot Overview	TDP
					EVS5000_SOP00_ElectionWare04_Deliver, Section 1, Configure Equipment	
					EVS5000_SOP00_ElectionWare05_Results, Section 1, Results	
					EVS500_SOP00_ERM, Section 1, Overview	
					EVS000_SOP00_NetworkConfigGuide, Section 1, Overview	
					EVS5000_SOP00_ELS, Introduction	
30	9					
			The roles of operating personnel shall be identified and related to		EVS5000_SOP00_AMVAT, Section 1, Overview	
			the operating modes of the system.		EVS5000_SOP00_DS200, Section 3, Introduction to the DS200	
					EVS5000_SOP00_DS850, Section 1, DS850 Overview	
					EVS5000_SOP00_ElectionWare01_Admin, Section 1, Overiew	TDD
					EVS5000_SOP00_ERM, Section 1, Overview	IDF
					EVS5000_SOP00_NetworkConfigGuide, Section 1, Overview	
					EVS5000_SOP00_ELS, Introduction	
31	0					
			Decision criteria and conditional operator functions (such as error		XXX	TDD
31	1		and failure recovery actions) shall be described.			IDP
			The vendor shall also list all reference and supporting documents		XXX	
			pertaining to the use of the system during election operations.			TDP
31	2					
31	3	VII, 2.8.2	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, furnishings, fixtures, and			
			utilities that will be required for equipment operations, including			
31	4		equipment that operates at the:			
_		a.	Polling place		EVS5000_SOP00_AMVAT. Section 5. Eacilites. Eurnishings. Fixtures and Utilites	
			r onnig prace		EVS500_SOP00_DS200_Section 5, Open the Polls	TDP
31	5					
	-	b.	Central count facility		EVS5000 SOP00 DS850, Chapter 1, DS850 Overview	
31	6					TDP
31	7	c.	Other locations		N/A	
31	8	VII. 2.8.3	System Installation and Test Specification			
			The vendor shall provide specifications for validation of system	also Vol. I, 5.1.1 Software Requirements, Software		
			installation, acceptance, and readiness. These specifications shall	Sources		
			address all components of the system and all locations of			
			installation (e.g., polling place, central count facility), and shall			
1			address all elements of system functionality and operations			
			identified in Subsection 2.3 above, including:			
31	9					
É		a.	Pre-voting functions	Vol. I, 2.2.3 Ballot and Program Installation and	EVS5000 SOP00 AMVAT, Chapter 5, AutoMARK Setup Instructions	
				Control	EVS5000 SOP00 DS200, Chapter 4, Pre-Election Day Tasks	
1					EVS5000_SOP00_DS850, Section 5, Pre-Election Day Tasks	TDP
1					EVS5000 SOP00 ERM, Section 2, Pre-Election Tasks	
32	0					
F		b.	Voting functions		EVS5000 SOP00 AMVAT, Chapter 6, Assisting Voters	
	3				EVS5000 SOP00 DS200 Chapter 5. Election Day Tasks	
1	Y				EVS5000 SOP00 DS850. Section 6. Election Day Tasks	TDP
	S				EVS5000_SOP00_EBM_Section 3_Election Day Tasks	
32	1 T					
	E	c	Post-voting functions		EVS5000_SOP00_AMVAT_Chapter 11_Maintenance	
1	М	·.	1 Ost-voting renetions		EVS500_JOF 05_INFTTT, Chapter 11, Manufante EVS500_SOP00_DS200_Chapter 6_Post Election Day Tasks	
1					EVS500_SOP00 SOP00 SS850 Section 7 Post-Election Day Tasks	TDP
	0				EVS500_SOP0 FRM Section 4 Post-Election Tasks	11/1
30	2 0				2 Source of States Sector 7, 103 Elector 11383	
102						

	Α	В	С	D	F	G
	F	d	General canabilities		EVS5000 SOP00 AMVAT	-
	5	u.	General capabilities			
	ĸ					TDD
	Α				E V 55000_SOP00_LD 5850	TDP
	Т				EVS5000_SOP00_ERM	
323	1					
324	ο	VII, 2.8.4	Operational Features			
325	Ν		features that meets the following requirements:			
	S	a.	A detailed description of all input, output, control, and display		EVS5000 SOP00 AMVAT	
			features accessible to the operator or voter		EV\$5000_SOP00_D\$200	
	Р		readines accessible to the operator of voter			TDD
	÷.					IDF
	ĸ				EV55000_SOP00_EKM	
326	0					
	С	b.	Examples of simulated interactions to facilitate understanding of		EVS5000_SOP00_AMVAT	
	E		the system and its capabilities		EVS5000_SOP00_DS200	
	~				EVS5000_SOP00_DS850	TDP
					EVS5000 SOP00 ERM	
327	U					
02.	R	C	Sample data formats and output reports	Vol. II. 2.1 Desc. Of the TDP. Scope	EVS5000 SOP00 AMVAT	
	Е	c.	Sample data formats and output reports	Vol. 1, 2.1 Desc. Of the 1D1, Scope		
	s			vol. 1, 2.1.0 g. Election Management System	EV3500_50F00_D5200	TDD
					E V 55000_SOP00_LD 5850	TDP
					EVS5000_SOP00_ERM	
328						
		d.	Illustrate and describe all status indicators and information		EVS5000_SOP00_AMVAT	
			messages		EVS5000_SOP00_DS200	
					EVS5000 SOP00 DS850	TDP
					EVS5000 SOP00 ERM	
320						
330		VII. 2.8.5	Operating Procedures			
		,	The vendor shall provide documentation of system operating	also Vol. I. 5.1.1 Software Requirements. Software		
331			procedures that meets the following requirements:	Sources		
		a	Provides a detailed description of procedures required to initiate		EVS5000 SOP00 AMVAT	
		u.	control and verify proper system operation		EVSSOO_SOPOO_DS200	
			control, and verify proper system operation.			TDD
						IDF
					EV55000_SOP00_EKM	
332						
		b.	Provides procedures that clearly enable the operator to assess the		EVS5000_SOP00_AMVAT	
			correct flow of system functions (as evidenced by system-		EV\$5000_SOP00_D\$200	
			generated status and information messages).		EVS5000_SOP00_DS850	TDP
					EVS5000_SOP00_ERM	
333						
		c.	Provides procedures that clearly enable the operator to intervene		EVS5000 SOP00 AMVAT	
			in system operations to recover from an abnormal system state		EV\$5000_SOP00_D\$200	
			in system operations to recover from an abilitrinal system state.			TDD
					EVISION_SCHOOLSCHOM	1 DF
224					L+SJ000_JOF 00_LININ	
334		,			NUCCOR CODO AND AT	
		a.	Defines and illustrates the procedures and system prompts for		EVS5000_SOP00_AMVAI	
			situations where operator intervention is required to load,		EV\$5000_\$0P00_D\$200	
			initialize, and start the system.		EVS5000_SOP00_DS850	TDP
					EVS5000_SOP00_ERM	
335						
		e.	Defines and illustrates procedures to enable and control the		EVS5000 SOP00 AMVAT	
			external interface to the system operating environment if		EV\$5000 SOP00 D\$200	
			supporting hardware and software are involved. Such		EV\$5000_SOP00_D\$850	
			information also shall be provided for the interaction of the		EVISION_SCHOOLSCHOM	TDP
			austam with other data processing sustained and data inter-		E Y 55000_501 00_EKIM	
000			system with other data processing systems or data interchange			
336			protocois.			
		f.	Provides administrative procedures and off-line operator duties (i		EVS5000_SOP00_AMVAT	
1			any) if they relate to the initiation or termination of system		EVS5000_SOP00_DS200	
			operations, to the assessment of system status, or to the		EVS5000_SOP00_DS850	TDP
			development of an audit trail.		EVS5000_SOP00_ERM	
337						

Γ	Α	В	С	D	F	G
		g.	Supports successful ballot and program installation and control	also Vol. I. 2.2.3 a. Pre-Voting Capabilities. Ballot	EVS5000 SOP00 AMVAT	-
		o.	by election officials, provides a detailed work plan or other form	and Program Installation and Control	EVS5000_SOP00_DS200	
			of documentation providing a schedule and steps for the software		EVS5000_SOP00_DS850	
			and ballot installation, which includes a table outlining the key		EVS5000 SOP00 FRM	TDP
			dates, events and deliverables			
3	38		dates, events and deriverables.			
F		h	Supports diagnostic testing specifies diagnostic tests that may be		EVS5000 SOP00 AMVAT	
			employed to identify problems in the system, verifies the			
			correction of maintenance problems: and isolates and diagnoses			TDP
			faults from various system states.		EVS5000 SOP00 ERM	151
3	39					
3	40	VII. 2.8.6	Operations Support			
F			The vendor shall provide documentation of system operating			
3	41		procedures that meets the following requirements:			
Γ		a.	Defines the procedures required to support system acquisition,		EVS5000_SOP00_AMVAT	
			installation, and readiness testing. These procedures may be		EVS5000_SOP00_DS200	
			provided by reference, if they are contained either in the system		EVS5000_SOP00_DS850	TDP
			hardware specifications, or in other vendor documentation.		EVS5000_SOP00_ERM	
3	42					
Г		b.	Describes procedures for providing technical support, system		EVS5000_SOP00_AMVAT	
			maintenance and correction of defects, and for incorporating		EVS5000_SOP00_DS200	
			hardware upgrades and new software releases.		EVS5000_SOP00_DS850	TDP
					EVS5000_SOP00_ERM	
3	43					
3	44	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			
3	45		discussion include:			
		a.	Glossary: A listing and brief definition of all terms that may be		No glossary appendices were noted in the core SOP TDPs	
			unfamiliar to persons not trained in either voting systems or			TDP
3	46		computer operations.			
	47	b.	References: A list of references to all vendor documents and to		No reference appendices were noted in the core SOP TDPs	TDP
3	47		other sources related to operation of the system.			
		с.	Detailed Examples: Detailed scenarios that outline correct		EVS5000_SOP00_AMVAT, Part 2 (not listed in contents), Appendix	
			system responses to faulty operator input; Alternative procedures		EVS5000_SOP00_DS200, Part 4 (not listed in contents), Appendix	
			may be specified depending on the system state.		EVS5000_SOP00_ERM, Part 12 (not listed in contents), Appendix	TDP
	10					
3	48					
1		а.	Manufacturer's Recommended Security Procedures his		two manufacturer's recommended security procedures appendices were noted in the core SOP TDPs	TDD
2	10		appendix snail contain the security procedures that are to be			IDP
0	+9		Executed by the system operator.			
F		v11, 2.9	bystem maintenance procedures shall provide information in		EVS5000 SMM00 AMVAT	
			sufficient detail to support election workers information systems		EVS5000_SMM00_BS200	
			personnel or maintenance personnel in the adjustment or remova		EVS5000_SMM00_DS850	
			and replacement of components or modules in the field			
1			Technical documentation needed solely to support the repair of			TDP
			defective components or modules ordinarily done by the			
			manufacturer or software developer is not required			
3	51		and a second and a second s			
F			Recommended service actions to correct malfunctions or		EVS5000 SMM00 AMVAT	
			problems shall be discussed, along with personnel and expertise		EV\$5000 SMM00 D\$200	
			required to repair and maintain the system: and equipment		EV\$5000_SMM00_D\$850	
			materials, and facilities needed for proper maintenance. This			TDP
			manual shall include the sections listed below.			
3	52					
3	53	VII, 2.9.1	Introduction			

	Δ	B	C	D	E	G
-		U		U		9
			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			
	_		software. The description shall include a concept of operations			
3	54		that fully describes such items as:			
		a.	The electrical and mechanical functions of the equipment.		EVS5000_SMM00_AMVAT, Section 4, System Power	
					EVS5000_SMM00_DS200, Section 1, Electrical Information	
					EVS5000 SMM00 DS850, Section 1, Electrical Information	TDP
2	55					
5	55					
		D.	How the processes of ballot handling and reading are performed		EVS5000_SMM00_AMVA1, Section 2, Basic Functionality	
			(paper-based systems).		EV\$5000_SMM00_D\$200	
					EVS5000_SMM00_DS850	TDP
3	56					
F		c	How yote selection and casting of the ballot are performed (DPE		N/A - Not a DRF System	
2	57	·.	systeme)			TDP
5	,,	,	systems).		NA N - DEC -	
		a.	How transmission of data over a network is performed (DRE		IN/A - NOT & DKE System	TDP
3	58		systems, where applicable.			151
1		e.	How data are handled in the processor and memory units.		EVS5000_SMM00_AMVAT	
					EVS5000 SMM00 DS200	
					EV\$5000_SMM00_D\$850	TDP
2	50				2.00000_0.000000	
5	55	c				
		f.	How data output is initiated and controlled.		EV\$5000_SMM00_AMVAT	
					EV\$5000_SMM00_D\$200	TDP
					EVS5000_SMM00_DS850	101
3	60					
		g.	How power is converted or conditioned.		EVS5000 SMM00 AMVAT. Section 4. System Power	
		0			EVS5000_SMM00_DS200_Section_1_Electrical Information	
					EV5500_SMM00_D5200, Section 1, Electrical Information	TDD
					EV35000_SMM00_D5850, Sector 1, Electrical information	IDP
3	51					
		h.	How test and diagnostic information is acquired and used.		EVS5000_SMM00_AMVAT	
					EVS5000 SMM00 DS200	
					EV\$5000_SMM00_D\$850	TDP
3	32					
3	32	VII 202	Maintananas Buasadunas			
5	55	VII, 2.9.2	Maintenance Flocedules			
			The vendor shall describe preventive and corrective maintenance		EVS5000_SMIMU_AMIVAI, Section 10, Preventive Maintenance Procedures	
1			procedures for hardware and software.		EVS5000_SMM00_DS200, Section 1, Introduction	TDP
					EVS5000_SMM00_DS850, Section 1, Introduction	1101
3	64					
3	65	VII, 2.9.2.1	Preventive Maintenance Procedures			
3	66		The yendor shall identify and describe:			
Ĕ		9	All required and recommended preventive maintenance tasks		EVS5000_SMM00_AMVAT_Section_10_Preventive Maintenance Procedures	
1		a.	in luding and recommended preventive mannenance tasks,		EV55000_SHM00_ANY 61, Section 10, Flevenuve Maintenance Flocedures	
			including software tasks such as software backup, database		E V SOUU_SNIMUU_LS2UU, Section 1, Introduction	TDP
1			performance analysis, and database tuning.		EVS5000_SMM00_DS850, Section 1, Introduction	
3	67					
T		b.	Number and skill levels of personnel required for each task.		EVS5000_SMM00_AMVAT, Section 10, Preventive Maintenance Procedures	
1			- *		EVS5000 SMM00 DS200, Section 1, Personnel Deployment	
1					EVS5000 SMM00 DS850. Section 1. Personnel Deployment	TDP
2	38					
F			Porte supplies special mainteners		EVISION SMMON ANVAT	
		с.	raits, supplies, special maintenance equipment, software tools, of			
			other resources needed for maintenance.		EV\$5000_NIM00_D\$200	TDP
					EV\$5000_SMM00_D\$850	
3	69					
		d.	Any maintenance tasks that must be coordinated with the vendor		EVS5000_SMM00_AMVAT	
1			or a third party (such as coordination that may be needed for off-		EVS5000 SMM00 DS200	
1			the-shelf items used in the system)		EV\$5000_SMM00_D\$850	TDP
2	70					
3	70					
13	(1	VII, 2.9.2.2	Corrective Maintenance Procedures			

_		5	0	P	<b>-</b>	0
	A	В	ل ل	D	F	G
			The vendor shall provide fault detection, fault isolation.		EVS5000 SMM00 AMVAT	
			correction procedures, and logic disgrams for all operational		EV\$5000_SMM00_DS200	
			contection procedures, and logic diagrams for an operational		EV35000_SWIM00_D3200	TDP
			abnormalities identified by design analysis and operating		EV\$5000_SMM00_D\$850	
37	2		experience.			
	-		The wonder shall identify specific procedures to be used in			
			The venuor shall identify specific procedures to be used in			
			diagnosing and correcting problems in the system hardware (or			
37	'3		user-controlled software). Descriptions shall include:			
-	-	0	Stans to replace failed or deficient equipment		EVISSOO SMMOO AMVAT	
		a.	steps to replace failed or deficient equipment.		EV55000_SMM00_AMVA1	
					EV\$5000_SMM00_D\$200	TDD
	S				EVS5000 SMM00 DS850	IDF
37						
51	4 Y					
	S	b.	Steps to correct deficiencies or faulty operations in software.		EVS5000_SMM00_AMVAT	
	T				EVS5000 SMM00 DS200	
					EV\$5000_SMM00_D\$850	TDP
0.7	E				L+35000_5NIM00_25050	
31	5 M					
	141	c.	Modifications that are necessary to coordinate any modified or		EVS5000 SMM00 AMVAT	
			upgraded software with other software modules		EV(\$5000_SMM00_D\$200	
	м		upgraded software with other software modules.		E V 35000_3101100_B3200	TDP
					EV\$5000_SMM00_D\$850	
37	'6 A					
<u> </u>		d	The number and skill levels of personnal needed to accomplish		EVS5000 SMM00 AMVAT	
		u.	The number and skin levels of personner needed to accomptish			
	N		each procedure.		EV\$5000_SMM00_D\$200	TDP
	т				EVS5000 SMM00 DS850	IDF
27	7 -					
31	<u>′</u> E					
	N	e.	Special maintenance equipment, parts, supplies, or other		EVS5000_SMM00_AMVAT	
			resources needed to accomplish each procedure.		EVS5000 SMM00 DS200	
	A		× ×		EV\$5000_SMM00_D\$850	TDP
	N				E 4 3 2000 _ 3 MEMOO _ D 3 0 20	
37	8					
	C	f.	Any coordination required with the vendor, or other party, for off		EVS5000 SMM00 AMVAT	
	E		the shalf items		EV(5500) SMM(0) DS200	
			the shell hellis.		E V 35000_3/I/I/100_D3200	TDP
					EV\$5000_SMM00_D\$850	
37	'9 <b>M</b>					
38	XO 🗛	VII 293	Maintenance Fauinment			
00	~ .	11, 2.7.5				
	N		The vendor shall identify and describe any special purpose test of		EVS5000_SMM00_AMVA1	
	U		maintenance equipment recommended for fault isolation and		EVS5000_SMM00_DS200	777 D
			diagnostic nurnoses		EV\$5000_SMM00_D\$850	TDP
20	A		alagnostie parposes.			
30	<u>''</u> L					
38	32	VII, 2.9.4	Parts and Materials			
	3		Vendors shall provide detailed documentation of parts and			
			materials needed to operate and maintain the system Additional			
0.0			materials needed to operate and maintain the system. Additional			
38	53		requirements apply for paper-based systems.			
38	34	VII. 2.9.4.1	Parts and Materials, Common Standards			
-		, , , , , , , , , , , , , , , , , , , ,	The vendor shall provide a complete list of approved parts and	Vol 1 4 3 1 h c Hardware Requirements Design		
			The vendor shart provide a complete list of approved parts and	vol. 1, 4.5.1 b-c. Haraware Requirements, Design,		
			materials needed for maintenance. This list shall contain	Construction, and Maintenance Characteristics,		
			sufficient descriptive information to identify all parts by:	Materials, Processes, and Parts		
39	15					
50	~					
1		a.	1 ype		EV55000_SMIM00_AMVAT	
					EVS5000_SMM00_DS200	mr =
					EV\$5000_SMM00_D\$850	TDP
20						
38	00					
1		b.	Size		EVS5000_SMM00_AMVAT	
1					EV\$5000_SMM00_D\$200	
						TDP
					E x 22000_2WIM00_D2820	
38	37					
		с.	Value or range		EVS5000 SMM00 AMVAT	
			-		EV\$5000_SMM00_D\$200	
					L 1 3 J 00 U_3 J 0 1 0 0 D 3 2 0 0	TDP
					EV\$5000_SMM00_D\$850	
38	88					
38	88	d	Manufacturer's designation		EVS5000 SMM00 AMVAT	
38	88	d.	Manufacturer's designation		EVS5000_SMM00_AMVAT	
38	8	d.	Manufacturer's designation		EVS5000_SMM00_AMVAT EVS5000_SMM00_DS200	тпр
38	88	d.	Manufacturer's designation		EVS5000_SMM00_AMVAT EVS5000_SMM00_DS200 EVS5000_SMM00_DS850	TDP
38	<u>18</u> 19	d.	Manufacturer's designation		EVS5000_SMM00_AMVAT EVS5000_SMM00_DS200 EVS5000_SMM00_DS850	TDP

	Δ	P	C C			C
_	A	D	C	D	Г	G
		e.	Individual quantities needed		EVS5000_SMM00_AMVAT	
					EVS5000_SMM00_DS200	77D D
					EVS5000_SMM00_DS850	TDP
30	0					
39	•	6				
		I.	Sources from which they may be obtained		EVS5000_SMM00_AMVA1	
					EVS5000_SMM00_DS200	TDD
					EVS5000_SMM00_DS850	1 DF
39	1					
39	2	VII 2042	Papar-Basad Systems			
	-	11, 2.7.4.2	Faper-based Systems		EVERAND CAMPO DE200 Section 1 Medicine Sumplice	
			For marking devices manufactured by multiple external sources,		EV\$5000_SMM00_D\$200, Section 1, Marking Supplies	
			the vendor shall provide a listing of sources and model numbers			77D D
			that are compatible with the system.			TDP
39	3					
			The TDP shall specify the required paper stock, size, shape,	also Vol. I, 2.2.1.3 c. and following paragraph	EVS5000_SMM00_AMVAT, Section 12, Ballot Specifications	
			opacity, color, watermarks, field layout, orientation, size and	Functional Requirements, Pre-voting Capabilities,	EVS5000 SMM00 DS200, Section 1, Ballots	
			style of printing size and location of punch or (sic) mark fields	Ballot Production:	EVS5000_SMM00_DS850_Section 1_Ballots	
			style of printing, size and location of panel of (sic) mark fields		E 155000_5MH00_55650, Beelon 1, Banots	
			used for vote response fields and to identify unique ballot	Vol. 1, 4.1.4.2 a-b. Hardware Requirements, Vote		TDP
			formats, placement of alignment marks, ink for printing, and	Recording Requirements, Paper Based Recording	EVS5000_ORPT02_BallotProductionGuide	
			folding and bleed-through limitations for preparation of ballots	Requirements		
			that are compatible with the system.	-		
20	4					
39	4					
39	5	VII, 2.9.5	Maintenance Facilities and Support			
			The vendor shall identify all facilities, furnishings, fixtures, and	see Vol. I, 4.3.5 e-g. Hardware Requirements,		
			utilities that will be required for equipment maintenance. In	Design, Construction, and Maintenance,		
			addition vendors shall specify the assumptions made with regard	Availability		
			te en energia de la specifica de assumptions made with regard			
			to any parameters that impact the mean time to repair. These			
			factors shall include at a minimum:			
39	6					
		a.	Recommended number and locations of spare devices or		EVS5000 SMM00 AMVAT. Section 12. Accessories	
			components to be kept on hand for repair purposes during period		EVS5000 SMM00 DS200 Section 1 Spars Davices	
			components to be kept on nand for repair purposes during period.		Evision and the page of the point	TDP
			of system operation.		EV55000_SMM00_DS850, Section 1, Spare Devices	
39	1					
		b.	Recommended number and locations of qualified maintenance		EVS5000_SMM00_AMVAT	
			personnel who need to be available to support repair calls during		EVS5000 SMM00 DS200, Section 1, Personnel Deployment	
			system operation		EVS5000_SMM00_DS850_Section_1_Personnel_Deployment	TDP
20			system operation.		E 155000_5NH000_55050, Beelon 1, Fersonnel Deployment	
39	<u> </u>					
		с.	Organizational affiliation (i.e., jurisdiction, vendor) of qualified		EVS5000_SMM00_AMVAT	
			maintenance personnel.		EVS5000_SMM00_DS200, Section 1, Personnel Deployment	TDD
					EVS5000 SMM00 DS850, Section 1, Personnel Deployment	TDP
39	9					
40		VII 206	Annondices			
40	Ŭ I	11, 2.9.0	The sender many design in the later			
1			The vendor may provide descriptive material and data			
1			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			
1			recommended for amplification or treatment in appendices			
140			included for amplification of treatment in appendices			
40	-		include.			
1		a.	Glossary: A listing and brief definition of all terms that may be		AMVAT - No Glossary Appendix	
1			unfamiliar to persons not trained in either voting systems or		DS200 - No Glossary Appendix	mr -
1			computer maintenance.		DS850 - No Glossary Appendix	TDP
10	2					
40	4					
1		b.	References: A list of references to all vendor documents and		AMVAT - No Reterneces Appendix	
1			other sources related to maintenance of the system.		DS200 - No References Appendix	TDD
1					DS850 - No Referneces Appendix	IDP
40	3					
1	-		Detailed Examples Detailed segneries that outline	1	AMVAT No Datailad Examples Appandix	
1		υ.	Detaneu Examples: Detaneu scenarios inat outine correct		AnivA1 - No Detailed Examples Appendix	
1			system responses to every conceivable faulty operator input;		DS200 - No Detailed Examples Appendix	TDP
1			alternative procedures may be specified depending on the system		DS850 - No Detailed Examples Appendix	1101
40	4		state.			

405 406 VII 406 R VII 408 R VII 409 O	II, 2.10	Maintenance and Security Procedures: This appendix shall contain technical illustrations and schematic representations of electronic circuits unique to the system.	U	AMVAT - No Maintenance and Security Procedures Appendix DS200 - No Maintenance and Security Procedures Appendix	G
405 406 407 407 408 8 409 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	II, 2.10	Mantenance and Security Procedures: Inis appendix shall contain technical illustrations and schematic representations of electronic circuits unique to the system.		AMVA1 - No Maintenance and Security Procedures Appendix DS200 - No Maintenance and Security Procedures Appendix	755
405 406 407 407 408 8 409 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	II, 2.10	contain technical illustrations and schematic representations of electronic circuits unique to the system.		DS200 - No Maintenance and Security Procedures Appendix	TDD
405 406 VII 407 E 408 R VII 408 R VII 409 O	II, 2.10	electronic circuits unique to the system.			
405         VII           406         VII           407         E           408         R         VII           409         O         O	II, 2.10	* 5		DS850 - No Maintenance and Security Procedures Appendix	IDP
406         VII           407         E           408         R           408         O           409         O	II, 2.10				
407 E 408 R VII 409 O	11, 2.10	Personnel Deployment and Training Personnets			
407 E 408 R VII 409 O		Fersonner Deployment and Training Requirements			
407 E 408 R VII 409 O		The vendor shall describe the personnel resources and training		ESSSYS_1_D_1000_1rainingProgram	
407 E 408 R VII 409 O		required for a jurisdiction to operate and maintain the system.			TDP
408 R VII 409 O					
409 <b>o</b>	II. 2.10.1	Personnel			
409 <b>o</b>	,	The yendor shall specify the number of personnel and skill levels			
409 0		required to perform each of the following functions:			
		required to perform each of the following functions.			
N		Pre-election or election preparation functions (e.g., entering an		ESSSYS_1_D_1000_1rainingProgram, Section 1.1.1, Pre-Election Preparation	
N		election, contest and candidate information; designing a ballot;			TDP
410		generating pre-election reports),			
► b.		System operations for voting system functions performed at the		ESSSYS_T_D_1000_TrainingProgram, Section 1.1.2, System Operations at the Polling Place	77D D
411 L		nolling place			TDP
		System operations for voting system functions performed at the		ESSSYS T. D. 1000 TrainingProgram. Section 1.1.3. System Operations at the Central Count Facility	
412 D		control count facility		2555 T5_L_5_1000_11aming, Togram, Section 1115, System Openions at the Central Court Facility	TDP
412		central count facility.			
E d.		Preventive maintenance tasks.		ESSSYS_I_U_UUU_TrainingProgram, Section 1.1.4, Preventive Maintenance Task	TDP
413 V					121
<b>E</b> e.		Diagnosis of faulty hardware or software.		ESSSYS_T_D_1000_TrainingProgram, Section 1.1.5, Diagnosis of Faulty Hardware or Software	TDD
414					TDP
- f		Corrective maintenance tasks		ESSSS T. D. 1000 TrainingProgram. Section 1.1.6 Corrective Maintenance Tasks	
415 O <sup>1.</sup>		concenve mainenance tasks.		ESSS 15_1_D_1000_11amingi togram , Section 1.1.0, Concerve Mannehance Tasks	TDP
<sup>413</sup> P					
м <sup>g.</sup>		Testing to verify the correction of problems.		ESSSYS_T_D_1000_TrainingProgram, Section 1.1.7, Testing to Verify Correction of Problem	TDP
416					
-		A description shall be presented of which functions may be		ESSSYS_T_D_1000_TrainingProgram, Section 2.1.6, Vendor Personnel	
N		carried out by user personnel, and those that must be performed			TDP
417 T		hy vendor personnel			
419 VI	II 2 10 2	Training			
	11, 2.10.2				
A		The vendor shall specify requirements for the orientation and			
419 N		training of the following personnel:			
<b>D</b> a.		Poll workers supporting polling place operations		ESSSYS_T_D_1000_TrainingRecommendation, Section 2.1.1, Poll Worker Supporting Polling Place	TDP
420					IDF
<b>–</b> b.		System support personnel involved in election programming		ESSSYS T D 1000 TrainingRecommendation, Section 2.1.2, System Support Personnel Involved in	
421					TDP
R		User system maintenance technicians		ESSEXS T. D. 1000 TrainingPacommendation, Section 2.1.3, User System Mointenance Technicians	
400 A		Oser system mantenance technicians		ESSS15_1_D_1000_11amingRecommendation, Section 2.1.5, Oser System Maintenance Technicians	TDP
422 N					
d.		Network/system administration personnel (if a network is used)		ESSSYS_T_D_1000_TrainingRecommendation, Section 2.1.4, Network/System Administration	TDP
423					1101
<b>N</b> e.		Information systems personnel		ESSSYS_T_D_1000_TrainingProgram, Section 2.1.5, Data Personnel	<b>700</b>
424 G					TDP
f		Vendor personnel		ESSSYS T. D. 1000 TrainingProgram. Section 2.1.6. Vendor Personnel	
125		, endor personner		2555 TS_L_S_TOUS_TAILING TOFTUIN, Section 2.1.6, Vendor Leisonner	TDP
423	II A 11				
VII VII	11, 2.11	Compuration Management Plan	vol. 1, Sec. 9 Configuration Management		
426			Requirements		
		Vendors shall submit a Configuration Management Plan that	see Vol. I, 9.1.1 Configuration Management	ESSSYS_CM_P_1000_ESSCMProgram	
		addresses the configuration management requirements of Volume	Requirements;	ESSSYS_DOC_P_1000_TDProgram	
		I, Section 9 [Configuration Management Requirements]. This	see Vol. I, 9.1.3 Application of Configuration		
		plan shall describe all policies processes and procedures	Management Requirements:	EVS5000 CMP10 BUILD DOCUMENTATION [Folder]	
		amployed by the yender to comp out these requirements.	Vol II 7 4 Examination of Configurati	EVISION_CARINO DI DOI SECOI EMERINICI (FORM)	
		employed by the vendor to carry out these requirements. The	vol. 11, 7.4 Examination of Configuration	E S 3500_CMT 10_DLD01_3EC01_EM3BUILDTOCCUIR	
		Configuration Management Plan shall contain the sections	Management Practices	EVS5000_CMP10_BLD01_SEC02_EMSBuildEnvironment	
		identified below.		EVS5000_CMP10_BLD01_SEC03_WindowsAndVirusProtectionUpdates	TDD
				EVS5000_CMP10_BLD02_SEC01_AutoMARKBuildProcedure	IDP
				EVS5000_CMP10_BLD02_SEC02_AutoMARKBuildEnvironment	
				EVS5000 CMP10 BLD03 SEC01 DS200AncillaryBuildProcedure	
				EVS5000 CMP10 BLD03 SEC02 DS200ApcillaryBuildEnvironment	
				EVISION_CARIN DEDOS_ECCI DS20Alternary buildent violantera	
				E Y 55000_CMT 10_DED05_SEC01_D3530/FilliwateBuildFlotcallie	
				E V S 5000_CIVIF 10_BLD0/_SEC01_DS200FIITIIWateBuildProcedure	
427					
100	II. 2.11.1	Configuration Management Policy			

		В	0	D	E E	<u> </u>
	A	D	U	D	F	G
			The vendor shall provide a description of its organizational	see Vol. 19.2 Configuration Management Policy;		
			policies for configuration management, addressing the specific	see Vol. II, 7.4.1 Configuration Management Policy		
			requirements of Volume I. Subsection 9.2. These requirements			
400			requirements of volume 1, Subsection 7.2. These requirements			
423	2		penain to:			
		a.	Scope and nature of configuration management program activitie	6	ESSSYS_CM_P_1000_ESSCMProgram, Section I.1.1, Scope	TDD
430	)					IDF
		h	Breadth of application of vendor's policy and practices to the		ESSSYS CM P 1000 ESSCMProgram Section 3.1 Breadth of Application	
12		0.	voting system		LSSS IS_en_I_1000_LSSEIN ISLAN, Section 311, Fraudul of Appleation	TDP
43	4		vouiig system			
432	2	VII, 2.11.2	Configuration Identification			
			The vendor shall provide a description of the procedures and	see Vol. I, 9.3.1 Config. Identification Class. and		
			naming conventions used to address the specific requirements of	Naming Config. Items: Vol. I. 9.3.2 a-c.		
			Volume I. Subsection 0.2. These requirements portain to	Configuration Identification Version Compartions		
			volume 1, subsection 9.5. These requirements pertain to.	Configuration Identification, version Conventions,		
				Vol. II 7.4.2 Configuration Identification		
433	3					
		a.	Classifying configuration items into categories and subcategories		ESSSYS CM P 1000 ESSCMProgram, Section 4, Configuration Identification	
					ESSEVE DOC P. 1000 TDProgram Section 6. Appandix C: Document Overview Naming and Versioning	TDP
10					ESSS15_DOC_1_1000_1D110grain, Section 0, Appendix C. Document Overview, Naming and Versioning	1101
434	1					
		b.	Uniquely numbering or otherwise identifying configuration items		ESSSYS_CM_P_1000_ESSCMProgram, Section 4, Configuration Identification	
1				1	ESSSYS_DOC_P_1000_TDProgram, Section 6, Appendix C: Document Overview, Naming and Versioning	TDP
134	-					
+30	4					<u> </u>
1		c.	Naming configuration items	1	ESSSYS_CM_P_1000_ESSCMProgram, Section 4, Configuration Identification	
1	0			1	ESSSYS_DOC_P_1000_TDProgram, Section 6, Appendix C: Document Overview, Naming and Versioning	TDP
436				1		
13	0	VII 2 11 2	Passline and Promotion			
-51	N	VII, 2.11.5				
	12		The vendor shall provide a description of the procedures and	Vol. I, 9.4 a-c. Baseline and Promotion		
	F		naming conventions used to address the specific requirements of	Procedures;		
	1		Volume I, Subsection 9.4. These requirements pertain to:	Vol. II. 7.4.3 Baseline. Promotion. and Demotion		
139	G			Procedures		
400				Trocedures		
	U	a.	Establishing a particular instance of a system component as the		ESSSYS_CM_P_1000_ESSCMProgram, Section 5, Baseline Promotion and Demotion	TDP
439	R		starting baseline.			151
	•	b.	Promoting subsequent instances of a component to baseline		ESSSYS CM P 1000 ESSCMProgram, Section 5, Baseline Promotion and Demotion	
	~		throughout the system development process for the first complete			TDP
4 4 6	Т		unoughout the system development process for the first complete			IDI
44(	4		version of the system submitted for testing.			
	0	с.	Promoting subsequent instances of a component to baseline statu	EAC Testing and Certification Program Manual,	ESSSYS_CM_P_1000_ESSCMProgram, Section 5, Baseline Promotion and Demotion	
	0		as the component is maintained throughout its life cycle until	Ver. 1.0, Sec. 1.13 Records Retention-		
	N		system retirement (i.e. the system is no longer sold or	Manufacturers		TDP
4.4.			system remement (i.e., the system is no longer sold of	munujuciarers		
44			maintained).			
442		VII, 2.11.4	Configuration Control Procedures			
1	Α		The vendor shall provide a description of the procedures used by	Vol. I, 9.5 a-d. Configuration Control Procedures;		
1	N		the vendor to approve and implement changes to a configuration	Vol. II. 7.4.4 Configuration Control Procedures		
1			item to approve and importent changes to a configuration	configuration control Procedures		
1	Α		item to prevent unauthorized additions, changes, or deletions to			
1	G		address the specific requirements of Volume I, Subsection 9.5.			
1	E		These requirements pertain to:			
1	-					
44	M					
	F		Developing and maintaining inter-1-1-1-1-1-1-1-		EVER OM D. 1000 EVERAnterness Section & Configuration Control Deventure	
1		a.	Developing and maintaining internally developed items	1	ESSS IS_UNLF_1000_ESSUMPTOGRAM, Section 6, Configuration Control Procedures	TDP
444	1 N					
	Т	b.	Developing and maintaining third party items		ESSSYS_CM_P_1000_ESSCMProgram, Section 6, Configuration Control Procedures	mr -
44	5	1		1		TDP
	4 _		Baseluing internally identified d-ft-	ł	RESSYS CM D. 1000 ESSCMDrogram Section 6 Configuration Control Description	┟────┤
1	Р	с.	Resolving internally identified defects	1	ESSS 1 S_UNLr_1000_ESSUMPTOgram, Section 6, Configuration Control Procedures	TDP
446	2 L					
	•	d.	Resolving externally identified and reported defects		ESSSYS_CM_P_1000_ESSCMProgram, Section 6, Configuration Control Procedures	TIPE
447		1		1		TDP
140	N	VII. 2.11.5	Delesse Deserve			
440	4	vii, 2.11.5	Kelease r rocess			
1			The vendor shall provide a description of the contents of a system	see Vol. I, 9.6 Release Process;		
1			release, and the procedures and related conventions by which the	Vol. II, 7.4.5 Release Process		
1			vendor installs, transfers, or migrates the system to accredited			
1			rendor motaris, transfers, or migrates the system to accredited			
1			voting system testing laboratories and customers to address the			
1			specific requirements of Volume I, Subsection 9.6. These			
449	9		requirements pertain to:			
-		a	A first release of the system to an accredited test lab		ESSSYS CM P 1000 ESSCMProgram Section 7 Release Porcess	
150						TDP
1400	4					1

	Α	В	С	D	F	G
		b.	A subsequent maintenance or upgrade release of a system, or		ESSSYS_CM_P_1000_ESSCMProgram, Section 7, Release Porcess	TDP
451			particular components, to an accredited test lab.			
452		с.	The initial delivery and installation of the system to a customer.		ESSSYS_CM_P_1000_ESSCMProgram, Section 7, Release Porcess	TDP
452		d	A subsequent maintenance or ungrade release of a system or		ESSEVS_CM_P_1000_ESSCMProgram_Section 7_Release Porcess	
453		а.	narticular components, to a customer.		20015_cm_1_1000_205CMI logram, 5celon 7, Relase Foreas	TDP
454		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,			
455			Subsection 9.7. These requirements pertain to:			
		a.	Physical configuration audit that verifies the voting system	see Vol. I, 9.7.1 a-h. Configuration Audits,	ESSSYS_CM_P_1000_ESSCMProgram, Section 8, Configuration Audits	
			components submitted for certification testing to the vendor's	Physical Configuration Audit; Vol. II, 6.6 Physical		TDD
			technical documentation.	Configuration Audit; Vol. II, 7.4.6 Configuration		IDI
456				Audits		
		b.	Functional configuration audit that verifies the system performs	see Vol. I, 9.7.2 a-b. Configuration Audits,	ESSSYS_CM_P_1000_ESSCMProgram, Section 8, Configuration Audits	
			all the functions described in the system documentation.	Functional Configuration Audit; Vol. II, 6.7		TDP
				Functional Configuration Audit; Vol. II, 7.4.6		101
457				Configuration Audits		
458		VII, 2.11.7	Configuration Management Resources			
			The vendor shall provide a description of the procedures and	Vol. I, 9.8 Configuration Management Resources;		
			related conventions for maintaining information about	Vol. II, 7.4.7 Configuration Management Resources		
			configuration management tools required by Volume I,			
			Subsection 9.8. These requirements pertain to information			
459			regarding:			
100		a.	Specific tools used, current version, and operating environment		ESSSYS_CM_P_1000_ESSCMProgram, Section 9.1, Tools Used	TDP
460						
404		b.	Physical location of the tools, including designation of computer		ESSSYS_CM_P_1000_ESSCMProgram, Section 9.2, Tools Location	TDP
461		-	directories and files			
460		с.	Procedures and training materials for using the tools		ESSSYS_CM_P_1000_ESSCMProgram, Section 9.3, Procedures and Training for Tools	TDP
462		VIII. 0.10				
463		VII, 2.12	Quanty Assurance			

	Δ	В	C	D	E	G
	A	D	6	U	Г Г	G
			Vendors shall submit a Quality Assurance Program that	also Vol. 1, 8.2 a-e. Quality Assurance	ESSSYS_M_I_0501_WhatRequiesECO	
			addresses the quality assurance requirements of Volume I,	Requirements, General Requirements;	ESSSYS_M_P_0500_ECOProcess	
			Section 8. This plan shall describe all policies, processes, and	Vol. II, 7.5 Examination of Quality Assurance	ESSSYS_M_P_1000_MNFQualityAssurancePlan	
			procedures employed by the vendor to ensure the overall quality	Practices	ESSSYS O. P. 0100. Software Quality Assurance Program	
			of the system for its initial development and release and for	Vol. I. A.3.7 Workmanshin:	EVSSION OADO MNO3 ECODOlicies and Procedures	
			of the system for its initial development and release and for	Vol. 1, 4.5.7 workmanship,	Evision	
			subsequent modifications and releases. The Quality Assurance	Vol. 1, 8.3 Components from Third Parties	EV\$5000_QAP00_SWF01_Software_Firmware_Acceptance	
			Program shall, at a minimum, address the topics indicated below.		EVS5000_QAP01_ISO cert Pivot	
					EVS5000_QAP03_QA manual Pivot	
					EVS5000 OAP07 DataWin Quality Assurance Manual	
					EVS5000_OAD0_DATAWIN IO Codection Code	
					EV\$5000_QAP08_DATAWIN ISO Certification Certificate	
					ESSSYS_M_FM_AcceptanceChecklists [folder]	
					850 AccntChklst revC	
					50 DomoChildt roy A	
					650_DemoCrinist_revA	
					850_OAccptChklst_revB	
					AutoMark_AccptChklst_001_Rev.A	
					AutoMark OC Chklst 001Rev.A	TDP
					DS200 AccestChilds O01Pay A	
					Carrying Case QC sneet rev 1.0	
					EVS5000_QAP00_MN01.01_AcceptanceTestProcedure_DS200	
					EVS5000_QAP00_MN02.01_AcceptanceTestProcedure_DS850	
1						
					EVS5000_04P00_MN01_AcceptanceTesting [folder]	
1					erosow_erito_artecplatecresting fouerj	
1					850_AccptUnkist_revB.pdf	
					850_DemoChklst_revA.pdf	
					850 OAccptChklst revA.pdf	
	Q				AutoMark AccptChklst 001 Rev A pdf	
	- U -				AutoMark_ACCChilds 001_001_001_00	
					Automark_QC_Christ_001Rev.A.pdi	
	A				DS200_AccptChklst_001Rev.A.pdf	
	L				EVS5000_QAP00_MN01.01_AcceptanceTestProcedure_DS200.pdf	
	1.1				EVS5000 OAP00 MN02.01 AcceptanceTestProcedure DS850.pdf	
	÷					
464						
465	Y	VII, 2.12.1	Quality Assurance Policy			
		. ,	The vendor shall provide a description of its organizational	specific requirements listed in Vol. II. 7.5.1 Quality		
466	•		noligios for quality assurance, including	Assumption Bolion		
400			policies for quality assurance, including.	Assurance Foucy		
	S	a.	Scope and nature of Quality Assurance activities		ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 4.1, Scope	
	S				ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 4.1, Scope	TDP
467	- Ú					
		h	Breadth of application of vendor's policy and practices to the		ESSSYS M.P. 1000 MNEQualityAssurancePlan Section 4.2 Breadth of Application	
	R	<i></i>	voting system		ECCEVE O. D. Oldo Software Quality Assumption and Section 4.2, Denote of Application	TDD
	Α		voung system		ESSS1S_Q_r_0100_SoftwareQuantyAssurancerrogram, Section 4.3, Breadth of Application	1 DP
468	N					
469		VII, 2.12.2	Parts and Materials Test			
	С		The vendor shall provide a description of its practices for parts	see Vol. I. 8.5 c. Parts and Materials Special Tests	ESSSYS M P 1000 MNFOualityAssurancePlan, Section 5, Parts and Materials Tests	
	E		and materials tasts and examinations that meet the requirements	and Examinations:	ESSEVS O P 0100 Software/QualityAssurements Program Section 9 Parts and Materials Tests	TDP
470			and materials tests and examinations that meet the requirements	una Examinations,	LSSS15_Q_1_0100_SoftwareQuantyAssurancer10gram, Section 9, Parts and Materials Tests	1 DP
470			or volume I, Subsection 8.5.	vol. 11, 7.5.2 Parts and Materials Tests		
471		VII, 2.12.3	Quality Conformance Inspections			
			The vendor shall provide a description of its practices for quality	see also Vol. I 8.6 Quality Conformance		
			conformance inspections that meet the requirements of Volume I	Inspections:		
			Subsection 8.6. For each test performed the recent of volume is	Vol. II. 7.5.2 Quality Conference Investi		
477			Subsection 8.6. For each test performed, the record of tests	vol. 11, 7.5.5 Quality Conformance Inspections		
472			provided shall include:			
	2	a	Test location		ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 3, Responsibility for Tests	
1					ESSSYS O P 0100 SoftwareQualityAssuranceProgram, Section 3. Responsibility for Tests	TDP
473						
-13		h.	Test data		CSSSVS M. D. 1000. MNEOuglint/AcqueenceDian. Section 2. Deeper-tikility for Texts	
	t	D.	rest date		ESSIS_M_F_1000_MNrQuantyAssurancePlan, Section 3, Responsibility for Tests	
1					ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 3, Responsibility for Tests	TDP
474						
	0	с.	Individual who conducted the test		ESSSYS M P 1000 MNFOualityAssurancePlan, Section 3, Responsibility for Tests	
1					ESSSYS O. P. 0100. Software/Unality/Assurance/Program. Section 3. Responsibility for Tests	TDP
175					ESSSTS_Q_1_9705_SoftwareQualityAssurance) rogram, Section 5, Responsioning for Tests	11/1
4/5		-				
1	C	d.	Test outcomes		ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 3, Responsibility for Tests	
1					ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 3, Responsibility for Tests	TDP
476						

<b>—</b>	Δ	В	C	D	E	G
47	7	VII 2 12 4		D		0
47	/	<u>v11, 2.12.4</u>				
			The vendor shall provide a description of its practices for	see Vol. 1, 8.7 Quality Assurance Requirements,	ESSSYS_M_P_1000_mNPQuantyAssurancePlan, Section, 1.5 Documentation of the Hardware and Software Development	
			documentation of the system and system development process	Documentation;	ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section, 1.3 Documentation of the Hardware and Software Develop	
			that meet the requirements of Volume I, Subsection 8.7.	Vol. 1, 2.1.1.1 Description of TDP, Required		
				Content for Initial Certification;		TDP
				Vol. I, 2.1.1.2 Required Content for System		
				Changes and Recertification;		
47	8			Vol. II, 7.5.4 Quality Assurance, Documentation		
47	9	VII, 2.13	System Change Notes			
		í.	Vendors submitting modifications for a system that has been	Vol. II, 2.1.1.2 Required Content for System		
			tested previously and received national certification shall submit	Changes and Recertification		
	С		system change notes. These will be used by the accredited test			
	н		lab to assist in developing and executing the test plan for the			
	Α		modified system. The system change notes shall include the			
10	N		following information:			
40	G	-			N/A	
40	Ĩ	a.	Summary description of the nature and scope of the changes, and		IN/A	
48	<u> </u>		reasons for each change.		N/4	
1		b.	A listing of the specific changes made, citing the specific system		N/A	
	N		configuration items changed and providing detailed references to			
48	2 O		the documentation sections changed.			
	т	с.	The specific sections of the documentation that are changed (or		N/A	
1	F		completely revised documents, if more suitable to address a large			
48	3		number of changes).			
	3	d.	Documentation of the test plan and procedures executed by the		N/A	
			vendor for testing the individual changes and the system as a			
48	4		whole, and records of test results.			
48	5					
48	6	VI Sec. 2	Functional Requirements			
48	7	VI 21	Overall System Canabilities			
18	8	VI 211	Socurity			
18	a	, 2.1.1	To ansure security, all systems shall:			
0	5	a.	Provide degumentation of mandatory administrative procedures	see Vol I See 7 Security Beauinements	EV(\$5000_SED(0)_Section 2.1.1_Security	
10	0	g.	for offective system segurity	see Vol. 1, Sec. 7 Security Requirements	EVS5000_SPD00, Section 2.1.1, Security	TDP
43	1	VI 215	Surface Audit	see voi. 11, 2.0 Sojiware Security Specification		
49	-	VI, 2.1.5	System Audit	V-1 II 281 TDD Sustan Oranting	EVISE000. SEED00. Section 2.1.5. Suptom Audit	
			because the actual implementation of [system s] specific	see voi. II, 2.8.1 TDP, System Operations	EVS3000_SPD00, Section 2.1.5, System Audit	
			characteristics may vary from system to system, it is the	Procedures, Introduction		
			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			TDP
			description shall be incorporated in the System Operations			
1			Manual, which is part of the Technical Data Package.			
1						
49	2					
49	3	VI, 2.1.6	Election Management System			
			The Election Management System (EMS) shall generate and			
1			maintain a database, or one or more interactive databases, that			
1			enables election officials or their designees to perform the			
49	4		following functions:			
<u> </u>		g.	Accumulate vote totals at multiple reporting levels as indicated in	Vol. II. 2.8.4 System Operations Procedures	EVS5000_SED00_Section 2.1.6. Election management System	
49	5	o.	the system documentation.	Operational Features		TDP
<u> </u>	-	VI. 2.1.7	Vote Tabulating Program			
40	6	. 1, 2.1.7	· ··· · ······························			
10	7	VI 2171	Vote Tabulating Program Functions			
49	8	VI 2172	Voting Variations			
49	0	1, 2.1.7.2	The Technical Data Declarge agreements the sector 1	Val II 21 Description of the Tech Date D. 1		
1			anacifically identify which of the f-line is it is a line system shall	vol. 11, 2.1 Description of the Tech. Data Package,		
1			specificanty identify which of the following itemsan and cannot	scope		
40	_		be supported by the voting system, as well ashow the voting			
49	9		system can implement the items supported:			
	_		Closed primaries		EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations	TDP
50	U					
I.			Open primaries		EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations	TDP
50	1	1				1.01

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^	D	0	D		9
		Partisan offices		EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations	TDP
502					IBI
		Non-partisan offices		EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations	TDD
503					TDP
		Write-in voting		EV\$5000_SED00_Section 2.1.7.2 (not listed in contents). Voting Variations	
504		White-III Volling		EV5000_51 D00, Section 2.1.7.2 (not instea in contents), voting variations	TDP
504					
		Primary presidential delegation nominations		EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations	TDP
505					IBI
		Ballot rotation		EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations	TDD
506					TDP
		Straight party voting		EVS5000_SED00_Section 2.1.7.2 (not listed in contents). Voting Variations	
507		8 F9			TDP
307					
		Cross-party endorsement		EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), voting variations	TDP
508					
		Split precincts		EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations	TDD
509					IDF
		Vote for N of M		EVS5000_SED00_Section 2.1.7.2 (not listed in contents). Voting Variations	
510					TDP
010		Popell issues with options		EVS5000_SED00_Section 2.1.7.2 (not listed in contents) Visting Variations	
		Recall issues with options		EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), voting variations	TDP
511					
		Cumulative voting		EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations	TDD
512					IDP
		Support of ranked order voting		EVS5000_SED00_Section 2.1.7.2 (not listed in contents). Voting Variations	
513		support of numer of det formig		2 195000_01 200, Section 2.1.7.2 (not inseed in contents), Foring Fanations	TDP
515					
		Provisional or challenged ballots		EVS5000_SFD00, Section 2.1.7.2 (not listed in contents), Voting Variations	TDP
514					
515	VI, 2.1.10	Data Retention			
		All systems shall maintain integrity of voting and audit data	Vol. II, Sec. 2.3 System Functionality Description	EVS5000_SFD00, Section 2.1.10, Data Retention	77D D
516		during an election and for at least 22 months thereafter.			TDP
517	VI 2 2	Pre-Voting Canabilities			
510	VI. 2.2.1	P-U-t Deservation			
516	V1, 2.2.1	ballot Preparation			
519	VI, 2.2.1.1	General Capabilities			
		All systems shall provide the general capabilities for ballot			
520		preparation. All systems shall be capable of:			
	с.	Supporting the maximum number of potentially active voting	Vol. II. 2.2.2a, System Performance	EVS5000 SFD00, Section 2.2.1.1 (not listed in contents), General Capabilities	
521		positions as indicated in the system documentation		_ · · · · ·	TDP
522	VI 2212	Pallet Braduction			
522	1, 2.2.1.3	Mander de sum entetien fen mede enne entetene ek 11 i 1 i		EV65000 SED00 Section 2.2.1.2 (act lists in contents) Bellet Declaring	
		venuor documentation for mark sense systems shall include	see also Vol. II, 2.9.4.2 IDP, System Maintenance	E V SOUVU_SFLOUV, Section 2.2.1.5 (not listed in contents), Ballot Production	
		specifications for ballot materials to ensure that vote selections	Manual, Parts and Materials, Paper-based Systems		
		are read from only a single ballot at a time, without detection of	Vol. I, 4.1.4.2 a-b, Vote Recording Requirements,		TDD
		marks from multiple ballots concurrently (e.g., reading of bleed-	Paper-based Systems		1 DP
		through from other ballots).			
523		- ,			
524	VI 222	Pallat and Decement Installation and Control			
524	v1, 2.2.3	ballot and Frogram Installation and Control			
		All systems provide a means of installing ballots and programs of			
		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			
525		program installation:			
520	9	A detailed work plan or other decomponiation provider	san also Vol II 2850 TDP Sustan On mart -	EV\$5000_SED00_Section 2.2.3_Ballot Program Installation and Control	
	а.	A detailed work plan or other documentation providing a	see also voi II, 2.8.5g. IDP, System Operation	Ex55000_SFD00, Section 2.2.5, Ballot Program installation and Control	
		schedule and steps for the software and ballot installation,	Procedures, Operating Procedures		TDP
		including a table outlining the key dates, events, and deliverables			
526					
527	VI, Sec. 3	Usability and Accessibility Requirements			
528	3.1	Usability Requirements			
520	VI 211	Uashility Testing			
523	v1, 5.1.1	Usability resulig			

	Α	В	С	D	F	G
			The vendor shall conduct summative usability tests on the voting	EVS5000_SED00	EVS5000_OVR00_Appendix D_Common Industry Format for Usability Test Report - AutoMARK	
			system using individuals representative of the general population	E135000_01 200	EV\$5000_OVR00, Appendix D, common Industry Format for Usability Test Report - Nation Inter	
			The vendor shall document the testing performed and report the		2 195000_0 (Roo, Appendix 2), common industry formation coupling for Roport 25200	
			test results using the Common Industry Format. This			TDD
			documentation shall be included in the Technical Data Package			101
			submitted to the EAC for national cartification			
520			submitted to the EAC for national certification.			
530	5		Diamatica Victor and an an annial to an deat	EAC REL2007 02 1-1-10/5/07-2005 W//SC V-1-1	EVESSOO OVDOO Assessing D. Common Industry Format for Usekilter Test Depart AutoMADK	
			Discussion: voling system vehicles are required to conduct	EAC RF1 2007-05 dated 9/5/07: 2005 VVSG V01. 1	EV\$5000_OVN00, Appendix D, Common industry format for Usabily fest Report - AutoMARK	
			reansuc usability tests on the final product. For the present,	Sec. 5.1.1	E V S5000_O V K00, Appendix D, Common industry Pormat for Usability Test Report - DS200	TDD
			vendors can define their own testing protocols.			TDP
53	1					
		EAC RFI 2007	EAC Decision on Request for Interpretation 2007-03, 2005			
		03 dated Sept.	VVSG Vol. I Section 3.1.1			
	-	5, 2007				
532	2					
			Per EAC RFI 2007-03, the question was asked whether the		EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - AutoMARK	
			manufacturer is required to submit the summative usability		EVS5000_OVR00, Appendix D, Common Industry Format for Usabilty Test Report - DS200	
			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			TDP
			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)			
533	3					
			(continued from above)This interpretation is consistent with the		EVS5000 OVR00, Appendix D, Common Industry Format for Usability Test Report - AutoMARK	
			intent of the requirement which was to ensure that the voting		EVS5000_OVR00_Appendix D. Common Industry Format for Usability Test Report - DS200	
			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 to ensure that the report is			TDP
			present and reported in the common industry format. If the			
			VSTI 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 FAC"			
50			nsjinarreportio ne EAC .			
534	+		75			
535		v1, 3.2.2.1	rarual vision	Val. U. 2.1.1 Decomption of the TDP. Berning 1	EVISSOOD OVIDOD Appandix D. Common Inductor Format for Hashilty Test Paneet AutoMARK	
1		a.	The venuor shall conduct summative usability tests on the voting	Content	EV55000_OVR00, Appendix D, Common Industry Format for Usability Test Report - AutomARK	
1			system using partially signed individuals. The vendor shall	Coment	E Y 55000_0 Y K00, Appendix D, Common industry Format for Usabity Test Report - DS200	
1	1		the Common Industry Format. This documentation shall be		1	TDP
1	1		inc common mousely rormat. This documentation shall be			
			included in the Technical Data Package submitted to the EAC for			
536	D		national certification.			
1			Discussion: voting system vendors are required to conduct		EVS5000_OVK00, Appendix D, Common Industry Format for Usability Test Report - AutoMARK	
1			realistic usability tests on the final product. For the present,		E VS5000_O V K00, Appendix D, Common Industry Format for Usability Test Report - DS200	77D D
1	1		venuors can define their own testing protocols.			TDP
531	<u>/</u>	WI 2222	1			
530	C	v1, 3.2.2.2	Blindness			
1		a.	I ne vendor snail conduct summative usability tests on the voting	Vol. 11, 2.1.1 Description of the TDP, Required	EVS5000_OVK00, Appendix D, Common Industry Format for Usability Test Report - AutoMARK	
1			system using individuals who are blind. The vendor shall	Content	E VS5000_O V K00, Appendix D, Common Industry Format for Usability Test Report - DS200	
1	1		document the testing performed and report the test results using			TDP
1			the Common Industry Format. This documentation shall be			
			included in the Technical Data Package submitted to the EAC for			
539	9		national certification.			

		-	<u>^</u>	-	-	
	A	в	C	D	F	G
			Discussion: Voting system vendors are required to conduct	Fbl	EV\$5000_OVP00_Appendix D_Common Industry Format for Usability Test Penort_AutoMARK	
			Discussion. Voting system vendors are required to conduct	1 01	EV35005_OVR00, Appendix D, Common industry Format for Usability Fest Report - AutowARK	
			realistic usability tests on the final product. For the present,		EVS5000_OVR00, Appendix D, Common Industry Format for Usability Test Report - DS200	
			vendors can define their own testing protocols			TDP
			vendors can derine their own testing protocols.			151
540						
		_	All succine stations that musical and is successfully affected by the			
	C C	с.	All voting stations that provide audio presentation of the ballot			
541			shall conform to the following requirements:			
	6	c iv	A sanitized headphone or handset shall be made available to each		EVS5000_SED00_Section 2.1.11_Additional Overall Canabilities	
- 10		c. iv.	re santuzed neudphone of nandset shart be made avariable to each		E v 55000_51 D00, Section 2.1111, Additional Overan Capabilities	TDP
542			voter.			
			Discussion: this requirement can be achieved in various ways.		EVS5000 SFD00, Section 2.1.11, Additional Overall Capabilities	
			including the use of "throwever" headshopes, or of conitery			TDD
			including the use of throwaway headphones, of of saintary			IDF
543			coverings.			
544		VI. 3.2.3	Dexterity			
• • •	-	1,01210				
	8	a.	The vendor shall conduct summative usability tests on the voting	Vol. II, 2.1.1 Description of the IDP, Required	EVS5000_OVR00, Appendix D, Common Industry Format for Usability Test Report - AutoMARK	
			system using individuals lacking fine motor control. The vendor	Content	EVS5000 OVR00, Appendix D, Common Industry Format for Usabilty Test Report - DS200	
			shall document the testing performed and report the test results			
			shan document the testing performed and report the test results			TDP
			using the Common Industry Format. This documentation shall be			
			included in the Technical Data Package submitted to the EAC for			
E 4 E						
545			national certification.			
1			Discussion: Voting system vendors are required to conduct		EVS5000 OVR00, Appendix D, Common Industry Format for Usabilty Test Report - AutoMARK	
1			realistic usability tasts on the final product. For the present		EVS5000_OVP00_Appendix D_Common Industry Format for Usehilty Test Paport_DS200	
			reanstic usability tests on the final product. For the present,		EVS5000_OVR00, Appendix D, Common industry Pormat for Usability Test Report - DS200	
			vendors can define their own testing protocols.			
1						
546						
547		VI. 4	Hardware Requirements			
510		VI 412				
546		VI, 4.1.2	Environmental Requirements			
			The Technical Data Package supplied by the vendor shall include	also Vol. II, 2.4.1 TDP, System Hardware	EVS5000 SHS00 DS200, Section 2.1.2, Environmental Requirements	
			a statement of all requirements and restrictions regarding	Characteristics	EVS5000_SHS00_DS850_Section 2.1.2_Environmental Paguirements	
			a statement of an requirements and restrictions regarding	Characteristics	E v 5000_51500_5550, Section 2.1.2, Environmental Requirements	
			environmental protection, electrical service, recommended		AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1B, Physical Character	TDD
			auxiliary power, telecommunications service, and any other			IDP
			facility or recourse maying for the proper installation and			
			facinity or resource required for the proper instantation and			
549			operation of the system.			
550		VI 4132	Memory Stability			
550	_	v1, 4.1.3.2	Wellory Stability			
			Memory devices used to retain election management data shall	Vol. II, 2.3 System Functionality Description	EVS5000_SHS00_DS200, Section 2.1.3.2, Memory Stability	
			have demonstrated error-free data retention for a period of 22		EVS5000_SHS00_DS850_Section 2.1.3.2_Memory Stability	
					AutoMARK ESS Surter Hardware Societations AOS 19 5000 001 E	TDP
			montus.		AutoMARK_ESS_System_Hardware_Specifications_AQS-18-3000-001-P	
551						
552		VI 414	Vote Pecording Pequirements			
550		*1, 4.1.4	vote According Acquirements			
553		VI, 4.1.4.2	Paper Based Recording Requirements			
	a	a.iii.	The Technical Data Package shall specify the required paper	Vol. II. 2.9.4.2 TDP. System Maintenance Manual.	EVS5000 SHS00 DS200, Section 2.1.4.2, Paper-based Recording Requirments	
1			stock size shane onegity color watermarks field law	Parts and Materials Paper based Sustans	EVS5000 SHS00 DS850 Section 2.1.4.2 Paper based Pacording Paguirmonts	
1			stock, size, snape, opacity, color, watermarks, neld layout,	r ans ana materiais, Paper-basea Systèms	E v 55000_5r500_05650, Seculo 2.1.4.2, Paper-based Recording Requirments	
1			orientation, size and style of printing, size and location of mark	also Vol. I, 2.2.1.3 Ballot Production	AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F	
1			fields used for vote response fields and to identify unique ballot	1		
1			formate all compared of all and the line in the line of the line o			TDP
1			rormats, pracement of angument marks, ink for printing, and	1		
1			folding and bleed-through limitations for preparation of ballots			
1			that are compatible with the system			
			that are comparible with the system.			
554					<u> </u>	
	ŀ	b.	The Technical Data Package shall specify marking devices.	Vol. II. 2.9.4.2 TDP. System Maintenance Manual	EVS5000 SHS00 DS200, Section 2.1.4.2, Paper-based Recording Requirments	
1			which if used to make the preseried form of most	Danta and Materiala Barron based Sust	EVS5000 SUS00 DS950 Section 2.1.4.2 Decay based Baseding Dequirments	
1			which, it used to make the prescribed form of mark, produce	i ans ana materiais, r aper-basea Systems	E v 55000_51600_56000, Section 2.1.4.2, r aper-based recording Requirments	
1			readable marked ballots such that the system meets the	also Vol. I, 2.2.1.3 Ballot Production	AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F	
1			performance requirements for accuracy in Subsection 4.1.1			TDP
1			performance requirements for accuracy in Subsection 4.1.1.			1101
1			Marking devices can be either manual (such as pens or pencils) of			
1			electronic. These specifications shall identify:			
665				1		
500				L		
1			<ol> <li>Specific characteristics of marking devices that affect</li> </ol>	1	EVS5000_SHS00_DS200, Section 2.1.4.2, Paper-based Recording Requirments	
1			readability of marked ballots	1	EVS5000_SHS00_DS850_Section 2.1.4.2_Paper-based Recording Requirments	
1			reading of marked builds		A MADY FOR S A MALE S STATE A STATE AND A	TDP
1					AutoMAKK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F	
556						
			ii Barformanaa aanahilitiaa with regard to aaah abara taainti-		EV\$5000_SU\$00_D\$200_Section 2.1.4.2_Banar based Becording Begintments	
1			<ol> <li>renormance capabilities with regard to each characteristic</li> </ol>		E v 55000_5r500_05200, Section 2.1.4.2, Paper-based Recording Requirments	
1					EVS5000_SHS00_DS850, Section 2.1.4.2, Paper-based Recording Requirments	mp p
					AutoMARK FSS System Hardware Specifications AOS-18-5000-001-F	TDP
					. most net _052_53seni_tardware_pperiodations_r(g)-10-5000-001-r	
557						

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	A	D	U U	D	٢	G
			<ol> <li>For marking devices manufactured by multiple external</li> </ol>		EVS5000_SHS00_DS200, Section 2.1.4.2, Paper-based Recording Requirments	
			sources, a listing of sources and model numbers that are		EVS5000_SHS00_DS850, Section 2.1.4.2, Paper-based Recording Requirments	
			compatible with the system		AutoMARK FSS System Hardware Specifications AOS-18-5000-001-F	TDP
550			companiole with the system			
220	-					
		d.	Ballot boxes and ballot transfer boxes, which serve as secure			
			containers for the storage and transportation of ballots, shall:			
559						
			ii Incorporate locks and seals the specifications of which are	also Vol. II. 2942 TDP. System Maintenance	EVS5000_SSS07_PhysEquipmentSecurityBestPract	
			described in the system documentation	Manual Parts and Materials Paner based Systems	EVISION_SUSION_CONSTRUCTION Section 2.1.4.2. Danar based Decording Dequirmants	
			described in the system documentation.	Munual, Furis and Materials, Fuper-based Systems	E v 35000_SH500_D3200, Section 2.1.4.2, Paper-based Recording Requiring Regularities	77 D D
					EV\$5000_SHS00_D\$850, Section 2.1.4.2, Paper-based Recording Requirments	TDP
					AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F	
560						
561	1	VI. 4.1.5	Paper-based Conversion Requirements			
562		VI. 4.1.5 1	Pallot Handling			
302	-	v1, 4.1.5.1				
	4	a.	Ballot handling consists of a ballot card's acceptance, movement	Vol. II, 2.2.2 System Performance	EVS5000_SHS00_DS200, Section 2.1.5, Paper-based Conversion Requirements	
			through the read station, and transfer into a collection station or		EVS5000_SHS00_DS850, Section 2.1.5, Paper-based Conversion Requirements	
			receptacle. The capacity to convert the marks on individual		AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F	
			ballots into signals is uniquely important to central count systems			
			The connects for a control count system shall be documented			TDP
			The capacity for a central count system shan be documented			
			by the vendor. This documentation shall include the capacity for	1		
			individual components that impact the overall capacity.			
563						
564	1	VI. 4.1.6	Tabulation Processing Requirements			
565		VI 4161	Paper based System Processing Requirements			
505		v 1, 4.1.0.1	Prese based system rocessing Requirements	V-1 II 2 2 Sector Frenching life Decemination	EVICEORD SUISON DC200. Casting 2.1.6.1. Datas have a Sustain Drawing and	
		D.	Paper-based system memory devices, used to retain control	vol. 11, 2.5 System Functionality Description	E v 35000_HS00_DS200, Section 2.1.0.1, Paper-based System Processing Requirements	
			programs and data, shall have demonstrated error-free data		EV\$5000_SHS00_DS850, Section 2.1.6.1, Paper-based System Processing Requirements	
			retention for a period of 22 months, under the environmental		AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F	TDP
			conditions for operation and non-operation (i.e., storage).			
566			1 1 1 37			
500		VI 4162	DDE Santan December December of			
307	-	v1, 4.1.0.2	DRE System Processing Requirements			
			The DRE voting systems processing requirements address all			
			mechanical devices, electromechanical devices, electronic device			
			and software required to process voting data after the polls are			
568			closed.			
	1 5	0	DPE system memory devices used to retain control programs and	Vol. II. 2.3 System Functionality Description	EVS5000_SHS00_DS200_Section 2.1.6.1_Paper based System Processing Paguiraments	
		<b>c</b> .	DRE system memory devices used to retain control programs and	vol. 11, 2.5 System Functionality Description	Evolution_stable_basedo, section 2.1.0.1, i apertoased system i rocessing requirements	
			data shall have demonstrated error-free data retention for a period		EV\$5000_SHS00_DS850, Section 2.1.6.1, Paper-based System Processing Requirements	
			of 22 months. Error-free retention may be achieved by the use of		AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F	TDD
			redundant memory elements, provided that the capability for			IDF
			conflict resolution or correction among elements is included.			
560			8			
503						
570		V1, 4.1.7	Reporting Requirements			
5/1	4 4	<b>VI, 4.1.7.1</b>	Removable Storage Media			
1			In voting systems that use storage media that can be removed	Vol. II, 2.3 System Functionality Description	EVS5000_SHS00_DS200, Section 2.1.6.2, DRE System Processing Requirements	
1			from the voting system and transported to another location for	1	EVS5000_SHS00_DS850, Section 2.1.6.2, DRE System Processing Requirements	
1			readout and report generation, these media shall use devices with		AutoMARK ESS System Hardware Specifications AOS-18-5000-001-F	
			demonstrated array free retention for a pariod of 22 months under			
1			demonstrated error-nee retention for a period of 22 months under			
			the environmental conditions for operation and non-operation			TDP
			contained in Subsection 4.1.2. Examples of removable storage	1		
1			media include: programmable read-only memory (PROM),	1		
1			random access memory (RAM) with battery backup, magnetic	1		
1			media, or optical media.	1		
570			,			
572	4					
573	4	VI, 4.1.7.2	Printers			
1			All printers used to produce reports of the vote count shall be	Vol. II, 2.4 System Hardware		
574			capable of producing:			
	1 6	a.	Alphanumeric headers;		EVS5000 SHS00 DS200, Section 2.1.7.2, Printers	
1			*		EVS5000_SHS00_DS850. Section 2.1.7.2. Printers	
	1			1	AutoMARV ESS Sustan Hardware Specifications AOS 19 5000 001 E	TDP
					AutoMARK_ESS_System_Haituwate_Specifications_AQS-16-5000-001-F	

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Image: set in the set in th		1	b.	Election, office and issue labels; and		EVS5000_SHS00_DS200, Section 2.1.7.2, Printers	
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SPI     Image: specific specifi						AutoMARK ESS System Hardware Specifications AOS-18-5000-001-F	TDP
201     -     Applementic centre general a peri of the null scorel.     PSS00, SISO, PSS0, SiSO, 21, 12, Prime     TDP       777     14.2     Registal Characteristics     div Mr JR, 24.3 From Rindware Characteristic     Fill State	570					Autom ICK_EDS_System_Haldware_Specifications_AQS-10-5000-001-1	
Pictor     Applications control to grant of the staff record.     Proceeding and the staff record.     Proceeding an	576	-					
Note         Note         Note         Note         Note         Note         Note         Note           Note         No			с.	Alphanumeric entries generated as part of the audit record.		EVS5000_SHS00_DS200, Section 2.1.7.2, Printers	
Note         Available         Ava						EVS5000_SHS00_DS850, Section 2.1.7.2, Printers	TDD
127         1						AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F	TDP
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Process			VI 4 2	Physical Characteristics	also Vol II 2.4.1 System Hardware Characteristics		
2972 1973     Vi.4.2.1     Base means the second of	578		• 1, 4.2	r nyskar characteristics	also for 11, 2. 111 System Hardware enaracterisites		
27     Vi.L1     The set or sumschedulation on the size of any versus preparent, for the size of and hours doubted to compatible and is financial or and the locatin at which the exploration is the preparent, for the size of and hours doubted to compatible and is financial or and the locatin at which the exploration is the preparent, for the size of and hours doubted to compatible and is financial or and the locatin at which the exploration is the preparent, for the size of and hours doubted to any versus is financial or and the locatin at which the exploration is the preparent, for the versus of a compatible and the compatible with is sinced.     In the 2.4 System Lifethware, Specification, AQS:16 Stote 2.1, Size AMMARE, ESS.5, System, Lifethware, Specifications, AQS:16 Stote 0.21, Size AMMARE, ESS.5, System, Lifethware, Specifications, AQS:16 Stote 0.22, Transport Storega PVS5000, SIB00, JS500, Stote 0.23, Transport Storega PVS5000, SIB00, JS500, Stote 0	570			a.			
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Note         Note is instanda use and the location within the sequence is to be used.         AnewAdARE_ESS_System_Inferiors.AGS-16-3000-001-5. Section 1A, Performance         Image: control is instanda use and the indication within the sequence is to be used.         AnewAdARE_ESS_System_Inferiors.AGS-16-3000-001-5. Section 1A, Performance         Image: control is instanda use and the indication within the sequence is to be used.         AnewAdARE_ESS_System_Inferiors.AGS-16-3000-001-5. Section 1A, Performance         Image: control is instanda use and the indication within the sequence is to be used.         Image: control is instanda use and the indication within the sequence is to be used.         Image: control is instanda use and the indication within the sequence is to be used.         Image: control is instanda use and the indication within the sequence is to be used.         Image: control is instanda use and the indication within the sequence is to be used.         Image: control is instanda use and the indication within the sequence is to be used.         Image: control is instanda use and the indication within the sequence is to be used.         Image: control is instanda use and the indication within the sequence is to be used.         Image: control is instanda use and the indication within the sequence is to be used.         Image: control is instanda use and the indication within the sequence is to be used.         Image: control is instanda use and the indication within the sequence is to be used.         Image: control is instanda use and the indication within the sequence is to be used.         Image: control is indication within the sequence is indication wi				equipment, but the size of each voting should be compatible with		EVS5000_SHS00_DS850, Section 2.2.1, Size	TDD
S80     wield.     wield.     wield.     wield.     wield.     wield.       S81     Wield.				its intended use and the location at which the equipment is to be		AutoMARK ESS System Hardware Specifications AQS-18-5000-001-F, Section 1A, Performance	TDP
287     VI.4.22     Weight     Image: Comparison of the second system	580			used			
00     11 4 2 3 member of the state of the s	591		VI 422	Weight			
Markate     The first is mature in markate and the key is the first is marked in a set is the key is the k	301	-	v 1, 4.2.2				
No.         Number of the section of which we were section as which were secting as which were section as which were section as which were secti				There is no numerical limitation on the weight of any voting	vol. 11, 2.4 System Hardware	EV55000_SHS00_D5200, Section 2.2.1, Size	
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S22     No. 4 Composition is to be used.     Include in the composition of the sector.     Include				compatible with its intended use and the location at which the		AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1A, Performance	1101
953     Y.4.2.3     Transport and Storage of Precisity Systems     Interfactor Voltage Systems Ault:     Interfac	582			equipment is to be used.			
End     In Section 2015 system shall     Interview of statistic statistis statistic statistis statistic statistis statistic statist	583		VI 4 2 3	Transport and Storage of Precinct Systems			
000     N=000000000000000000000000000000000000	594	-	1, 4.2.5	All and signed and storage of Freehet Systems			
B     B <td>364</td> <td></td> <td></td> <td>All precinct voting systems shall:</td> <td></td> <td></td> <td></td>	364			All precinct voting systems shall:			
SN     Name     National second secon			b.	[precinct voting systems] Be capable of using, or be provided			
555         Notice is a securited with songe.         Well, II, 2.4.1.b., System Handware         EVSS00_SISt00_DSS00_Section 2.2.3, Transport Songe EVSS000_SISt00_DSS00_Section 2.2.3, Transport Songe EVSS000_SISt00_DSS00_Section 2.2.3, Transport Songe EVSS000_SISt00_DSS00_Section 2.2.4.7 Imagent Songe EVSS000_SISt00_DSS00_Section 2.3.4.7 Imagent Songe EVSS000_SISt00_DSS00_Section 2.3.2.7 Imagent Songe EVSS000_SISt00_DSS00_SEction 2.3.7 Imagent Songent Songent Songe EVSS000_SISt00_DSS00_SISt00_DSS00_SECtion 2.3.				with, a protective enclosure rendering the equipment capable of			
586     Vi. 1.2.1. Justicity is status associated with storage.     Vie. II. 2.4.1.6. System Hardware     EVS5000_S18500_D2520, Section 2.2.3. Transport Storage     TDP       586     Vi. 4.3     Design, Construction, and Maintenance Characteristics     Image: Characteristics <td< td=""><td>585</td><td></td><td></td><td>withstanding:</td><td></td><td></td><td></td></td<>	585			withstanding:			
Image: Section 2.3.1 manual state in the section and Maintenance Characteristics     Image: Section 2.3.1 manual state section and Maintenance Characteristics     Image: Section 2.3.1 manual state section and Maintenance Characteristics     Image: Section 2.3.1 manual state section and Maintenance Characteristics     Image: Section 2.3.1 manual state section and Maintenance Characteristics     Image: Section 2.3.1 manual state section and Maintenance Characteristics     Image: Section 2.3.1 Materials, Processes, and Parts     Image: Section 2.3.1 Materials, Processes, and P				ii Stacking loads associated with storage	Vol. II. 2.4.1.h. System Hardware	EVS5000_SHS00_DS200_Section 2.2.3_Transport_Storage	
Image: Section 14, Early Construction, and Maintenance Characteristics         Image: Analytic Construction, C				in Suching Islus associated with Storage.	7 on 11, 2.1.1 0, 5/sten Haraware	EVS500_SUE00_DS950_Section 2.2.2. Transport Storage	
SBR         Image: marking the mark street of the section definition definite section of the section of the s						Ex 5000_511500_5500, Section 2.2.5, Hainsport Storage	TDP
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SN-14         Nesse, Construction, and Maintenance Characteristic         Image: Construction, and Maintenance Characteristic <th< td=""><td>586</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	586						
S87 589     v     v     v     v     v     v     v     v       589     VI, 4.3.0     Materials, Processes, and Parts     u     u       580     v     Include, a, part of the accompanying TDP, an approved parts ist.     ev viii, 11, 29, 41, TDP, System Maintenance Manual, Parts and Materials     VS5000_SHS00_DS200_Section 2.3.1, Materials, Processes, and Parts EVS5000_SHS00_DS80_Section 2.3.1, Materials, Processes, and Parts ist.     TDP       590     v     v     v     v     v     v     v     v       600     v     v     v     v     v     v     v     v       601     v     v     v     v     v     v     v     v       601     v     v     v     v     v     v     v     v       601     v     v     v     v     v     v     v     v       601     v     v     v     v     v     v     v     v     v       602     v     v     v     v     v     v     v     v     v       603     v     v     v     v     v     v     v     v     v     v       603     v     v     v     v     v		1	VI, 4.3	Design, Construction, and Maintenance Characteristics			
558     VI.4.3.1     Materials, Processes, and Parts     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     EVS0000, SHS00, DS200, Section 2.3.1, Materials, Processes, and Parts     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     Image: Constraint of the accompanying TDP, an approved parts is defined and materials     Image: Constraint of the accompanying TDP, an approved parts is defined and the accompanying TDP, an approved parts is defined and the accompanying TDP, an approved parts is defined and the accompanying TDP, an approved parts is defined and the accompanying TDP, an approved parts is defined and the accompanying TDP, an approved pa	587						
Construction     Description     Des	588		VI 431	Materials Processes and Parts			
303       N1 Volus ystem shall:       ser Vol. II. 2.9.4.1 TDP, System Maintenance list.       EVS5000_SHS00_DS200, Section 2.3.1, Materials, Processes, and Parts EVS5000_SHS00_DDS200, Section 2.3.2, Darability       TDP         590       V1.4.5.2       Durability M10 totic evestive maintenance cost for Mendware Enservice without decironition and without evestive maintenance cost for Mendware Characteristics: EAC RF1 2008-05 cff, Date 7/2008-2005 VVSG       VS000_SHS00_DDS20, Section 2.3.2, Durability AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1C, Durability Vol.1 Sec. 4.3.2 Durability       TDP         593       VS05 V0.1 Section 4.3.2, Durability Section 4.3.2, Durability       April 05, 2012 Attestation Letter from Sue McKay       TDP         594       VS05 V0.1 Section 4.3.2, Durability system namingtacturers shall provide the VSTL with a signed statement of complicity of the statement undex VSTL engineering manybis and internet is social to evaluate this requirement? Per EAC?: Linit more research is done on this issue and class scale as evaluate, voting system maingtacturers shall provide the VSTL with a signed statement documpoints and internet with fielded versions of the certified volting system show obvious problems related to be lack of durability?       April 05, 2012 Attestati	500	-	1, 4.5.1	All sections enderses also			
50.     Include, as part of the accompanying 1DF, an approved parts ist,     see Vol. 11.29A 11DF, Spream Manitemace ist,     EVS5000_SISIOD_DS500_DS500_DS500_SScient 2.31, Maternals, Processes, and Parts AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 2.A, Materials     TDP       590     VI.4.3.2     Durability     Include, as part of the accompanying 1DF, an approved parts ist,     Vol. 11.2.4.1 System Hardware Design, System Without decironic and without excessive maintenance cost for fardware Characteristics: a period of ten years.     Vol. 11.2.4.1 System Hardware Design, System FLC RFT 2008 64 of g1 Due 73008: 2005 VVSG Vol. 11.2.4.1 System Hardware Cost of Star Die 73008: 2005 VVSG Vol. 11.2.4.1 System Hardware Cost of Star Die 73008: 2005 VVSG Vol. 11.2.4.1 System Hardware Cost of Star Die 73008: 2005 VVSG Vol. 11.2.4.1 System Hardware Specifications_AQS-18-5000-001-F, Section 1C, Durability     TDP       592     EAC RFT 2008 EAC Decision on Request for Interpretation 2008-05: 2005 05. effective to evaluate this requirement? Per EAC PF1 2008-05. Question: How are the VSTLs expected is done on this issue and elear scientific guidance is ovaliable, voting system manufacturers scientific guidance is ovaliable, voting system manufacturers dull provide the VSTL with a system distancem on doc copt means where device with field everytime is means VSTL engineering manufacture with the system distancem on doc copt with bit standard VSTL with a system distancem on doc copt with bit standard voltable, voting system into question. In addition, additional review with field everytime in done into scientific endance with field everytime in the compliance is non-bit is submater.     April 03, 2012 Attestation Letter from Sue McKay     TDP       594     VI.4.3.5     Avalability <td>009</td> <td></td> <td></td> <td>All voting systems shall:</td> <td></td> <td></td> <td></td>	009			All voting systems shall:			
Sel     Ist.     Manual, Parts and Mauel, Parts and			b.	Include, as part of the accompanying TDP, an approved parts	see Vol. II, 2.9.4.1 TDP, System Maintenance	EV\$5000_SHS00_D\$200, Section 2.3.1, Materials, Processes, and Parts	
See     Image: Section 2.4, Materials     Image: Section 2.4, Materials     Image: Section 2.4, Materials       See     V1, 4.3.2     Durability     Mode: Section 2.4, System: Hardware_Specifications_AQS-18-5000-001-F, Section 2.4, Materials     Image: Seciion 2.4, Materials.				list.	Manual, Parts and Materials	EVS5000_SHS00_DS850, Section 2.3.1, Materials, Processes, and Parts	TDD
S90       Image: Control of the press.       Description       Control of the press.       C						AutoMARK ESS System Hardware Specifications AQS-18-5000-001-F, Section 2A, Materials	TDP
591       VI, 4.3.2       Durability       Image: system shall be designed to withstand normal use without excessive maintenance cost for furgers: a period of ten years.       Vol. II. 2.4.1 System Hardware Design, System Hardware Characteristics; EVS5000_SHS00_DS200_Section 2.3.2., Durability EVS5000_SHS00_DS200_Section 2.3.2., Durability a period of ten years.       TDP         592       EAC RF1 2008       EAC Decision on Request for Interpretation 2008-05: 2005 VVSG Vol. VSG Vol. I Sec. 4.3.2 Durability (Vol. VSG Vol. VSG VOL VSG VSG VSG VSG VSG	590						
0301       V1, 4.3.2       Diaming       All phaning       Vol. II. 2.4.1 System Hardware Design, System       EVS5000_SHS00_DS200, Section 2.3.2, Durability       TDP         592       All phaning       All phaning       Vol. II. 2.4.1 System Hardware Design, System       EVS5000_SHS00_DS200, Section 2.3.2, Durability       TDP         592       EAC RF1 2008       EAC RF1 2008-05 cff. Due for 14ardware Characteristics:       EVS5000_SHS00_DS200, Section 2.3.2, Durability       TDP         593       EAC RF1 2008       EAC RF1 2008-05 cluston: How are the VSTLs expected       April 07, 2012 Attestation Letter from Sue McKay       TDP         593       Per EAC RF1 2008       Scient and clear scientific guidance is available, voing system majnetance with fielded       April 03, 2012 Attestation Letter from Sue McKay       TDP         594       V1, 4.3.5       Availability       April 04, 2015 Wide       April 03, 2012 Attestation Letter from Sue McKay       TDP         594       V1, 4.3.5       Availability       April 04, 2015 Wide       April 03, 2012 Attestation Letter from Sue McKay       TDP	591		VI 4 2 2	Dunability			
S82     All Yong Systems shall be designed to Withstand normal use a period of ten years.     Vol. 1.2.4.7 Systems Indraware Design, System a period of ten years.     EVX5000_Ste00_S.20.50, Section 2.3.2, Durability a period of ten years.     TDP       S82     EAC RFI 2008     EAC RFI 2008-05 eff. Date 7/30/08: 2005 VVSG Vol. 1 Section 4.3.2, Durability     AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1C, Durability AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1C, Durability     TDP       593     Fer EAC RFI 2008-05: Question: How are the VSTLs expected to evaluate this requirement? Per EAC."Intil more research is done on this Issue and clear scientific guidance is available, evoing system manufacturers shall provide the VSTL with a signed statement of compliance for this standard user the ware hardware shall be described on white signed statement of compliance for this standard to with the system in ouguests and clear scientific guidance is available, evoing system in ouguests and interaction with the system during the testing process would bring the durability of the system in ouguest for hardware shall be durability of the system in ouguest show obvious problems related to the lack of durability".     April 03, 2012 Attestation Letter from Sue McKay     TDP	551	-	v1, 4.J.2				
592     vibloud deterioration and wilhout excessive maintenance cost for Hardware Chardware Chardwar				All voting systems shall be designed to withstand normal use	Vol. 11, 2.4.1 System Hardware Design, System	E V S5000_SHS00_DS200, Section 2.3.2, Durability	
Signal     a period of the years.     EAC RF 12008-05 eff. Date 73008: 2005 VVSG Vol. 1 Sec. 4.3.2 Durability     AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section IC, Durability       532     EAC RF1 2008 (5, effective VVSG Vol. 1 Section 4.3.2, Durability (5) effective VVSG Vol. 1 Section 4.3.2, Durability     AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section IC, Durability       533     For EAC RF1 2008 (5, effective VVSG Vol. 1 Section 4.3.2, Durability     AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section IC, Durability       533     For EAC RF1 2008-05: Question: How are the VSTLs expected to evaluate this requirement? Per EAC."Unit more research is some on this issue and clear scientific guidance is available, voting system manufacturers shall provide the VSTLs with a signed statement of compliance for this standed.     April 03, 2012 Attestation Letter from Sue McKay       594     VI, 4.35     VI, 4.35     VI, 4.35     Availability				without deterioration and without excessive maintenance cost for	Hardware Characteristics;	EVS5000_SHS00_DS850, Section 2.3.2, Durability	TDP
592       Image: Section and sequence for Interpretation 2008-05: 2006       Vol. 1 Sect. 4.3.2 Durability         593       EAC RFI 2008       EAC Decision on Request for Interpretation 2008-05: 2006       April 03, 2012 Attestation Letter from Sue McKay         593       Per EAC RFI 2008-05: Question: How are the VSTLs expected to evaluate this requirement? Per EAC::::::::::::::::::::::::::::::::::::				a period of ten years.	EAC RFI 2008-05 eff. Date 7/30/08: 2005 VVSG	AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1C, Durablity	1101
EAC RFI 2008       EAC Decision on Request for Interpretation 2008-05: 2005       VSG Vol. I Section 4.3.2, Durability         593       05, effective date July 30, 2008       VSG Vol. I Section 4.3.2, Durability       April 03, 2012 Attestation Letter from Sue McKay         593       Per EAC RFI 2008-05: Question: How are the VSTLs expected is done on 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 of this standard. VSTLs should review the compliance statement and accept the statement unless VSTL engineering analysis and interaction with 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".       TDP         594       V1, 4.3.5       Availability       Image: Compliance statement state of the statement statement statement statement statement 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 state of the certified voting system show obvious problems related to the lack of durability".       Image: Compliance statement state of the certified voting system show obvious problems related to the lack of durability".       Image: Compliance statement statem	592				Vol. I Sec. 4.3.2 Durability		
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593       date July 30, 2008       loss number of the system and provide the VSTLs expected to evaluate this requirement? Per EAC."			05. effective	VVSG Vol. I Section 4.3.2. Durability			
593       Vit AlaC any 50, 2008       Contrast of the second seco			doto July 20	r 156 foir 1 Section noi2, Datability			
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Per EAC RF1 2008-05: Question: How are the VSTLs expected to evaluate this requirement? Per EAC." Until more research is done on this state 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 and unless VSTL engineering analysis and interaction with the system during the testing process would bring the durability of the system during the testing process would bring the durability of the system during the testing process would bring the durability of the system during the testing process would bring the durability of the system during the testing process would bring the durability of the system into question. In additional review may be required in those instances where experience with fielded versions of the certified voting system show obvious problems reduited to the lack of durability".       TDP         594       VI, 4.3.5       Availability       Image: Compliance State Stat	293	1	2008				
594       VI, 4.3.5       Availability       Io evaluate this requirement? Per EAC:"Intil 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 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       TDP				Per EAC RFI 2008-05: Question: How are the VSTLs expected		April 03, 2012 Attestation Letter from Sue McKay	
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".       TDP         594       VI, 4.3.5       Availability       Image: Complete C				to evaluate this requirement? Per EAC:" Until more research			
594       VI, 4.3.5       Availability       Image: Vision and contraction of the substance of the su				is done on this issue and clear scientific guidance is available.			
594       595       VI, 4.3.5       Availability       Image: State method in the state method in t				voting system manufacturers shall provide the VSTL with a			
Sugrest statements of complance for his statement of statement and coupling of the system during the testing process would bring the durability of the system during the testing process would bring the durability of the system into question. In addition, addition and be instances where experience with fielded versions of the certified voting system show obvious problems related to the lack of durability".       TDP         594       VI, 4.3.5       Availability       Image: Complex of the system show obvious problems related to the lack of durability.				signed statement of compliance for this standard VCTL should			
review me computance 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".       TDP         594       VI, 4.3.5       Availability       Maintability				signed sidement of compliance for this sidnadra. VSILS should			
Image: SVSIL 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".       TDP         594       VI, 4.3.5       Availability       Maintain Leview may be required to the lack of durability.       TDP				review ine compliance statement and accept the statement			
594         595       VI, 4.3.5       Availability				unless VSTL engineering analysis and interaction with the			TDP
the system into question. In 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".       Image: Constant of the certified voting system show obvious problems related to the lack of durability.         594       VI, 4.3.5       Availability       Image: Constant of the certified voting system show obvious problems related to the lack of durability.				system during the testing process would bring the durability of			
594     VI, 4.3.5     Availability     Image: Control of the contro				the system into question. In addition, additional review may be			
<ul> <li>versions of the certified voting system show obvious problems related to the lack of durability".</li> <li>VI, 4.3.5 Availability</li> </ul>				required in those instances where experience with fielded			
594     595     VI, 4.3.5     Availability     4     4				versions of the certified voting system show obviews problems			
594     rearea to me tack of aurability.       595     VI, 4.3.5       Availability				versions of the certified voting system show obvious problems			
594				related to the lack of durability".			
595 VI, 4.3.5 Availability	594						
	595	1	VI, 4.3.5	Availability			

	Α	В	С	D	F	G
		5	The availability of a voting system is defined as the probability	Vol 1 2 2 2 h System Performance:	·	
			that the acuinment (and supporting software) needed to perform	Vol. II. 2.0.5 a. c TDP. System Maintenance		
			diat the equipment (and supporting software) needed to perform	Manual Maintenance Facilities and Someant		
			designated voting functions will respond to operational command	manual, maintenance ractities and Support		
			and accomption each function. The voting system shart meet the			
500			availability standard for each of the following voting functions.			
590	-		Vandanashall anasifa da tani al matana anɗi mati a dati a t			
			vendors shall specify the typical system configuration that is to			
			be used to assess availability and any assumptions made with			
507			shall include at a minimum.			
597	-					
		e.	Recommended number and locations of spare devices or		EVS5000_SH500_DS200, Section 2.3.5, Availability	
			components to be kept on hand for repair purposes during periods		EVS5000_SH500_D58500, Section 2.3.5, Availability	TDP
500			of system operation.		AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1F, Availability	
290	-	c				
	-	1.	Recommended number and locations of qualified maintenance		EVS5000_SH500_DS200, Section 2.3.5, Availability	
			personnel who need to be available to support repair calls during		EVS5000_SH500_D58500, Section 2.3.5, Availability	TDP
500			system operation.		AutoMARK_ESS_system_Hardware_Specifications_AQS-18-5000-001-F, Section 1F, Availability	
599	-					
1		g.	Organizational affiliation (i.e., jurisdiction, vendor) of qualified		EVS5000_MIS00_US200, Section 2.3.5, Availability	
			maintenance personnel.		EVS5000_SH500_DS850, Section 2.3.5, Availability	TDP
					AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1F, Availability	
600						
601	4 4	VI, 4.3.7	Workmanship			
			To help ensure proper workmanship, all manufacturers of voting	Vol. I, 8.2 QA Requirements, General		
000			systems shall:	Requirements;		
602				Vol. II, 2.12 Quality Assurance		
	-	a.	Adopt and adhere to practices and procedures to ensure that their		EV\$5000_SH500_DS200, Section 2.3.7, Workmanship	
			products are free from damage or defect making them		EV\$5000_SHS00_D\$850, Section 2.3.7, Workmanship	TDP
			unsatisfactory for their intended purpose; and		AutoMARK_ESS_System_Hardware_Specifications_AQ8-18-5000-001-F, Section 1, System Hardware Char	
603	-					
		b.	Ensure that components provided by external suppliers are free	Vol. II, 7.5 Examination of Quality Assurance	EVS5000_SHS00_DS200, Section 2.3.7, Workmanship	
			from damage or defect making them unsatisfactory for their	Practices	EV\$5000_SHS00_D\$850, Section 2.3.7, Workmanship	TDP
			intended purpose.		AutoMARK_ESS_System_Hardware_Specifications_AQS-18-5000-001-F, Section 1, System Hardware Char	
604						
605		VI, Sec. 5	Software Requirements			
606	4	VI, 5.1.1	Software Sources			
			Configuration of software, both operating systems and	VII, 2.8.3, System Installation and Test	EV\$5000_SOP00_AMVAT	
			applications, is critical to proper system functioning	Specification	E V \$5000_\$0P00_\$\$200	
			Therefore, the vendors shall submit a record of all user selections		EV\$5000_SOP00_D\$850	
			made during software installation as part of the Technical Data		EVS5000_SOP00_ElectionWare01_Admin	
			Package.		EVS5000_SOP00_ElectionWare02_Define	
1					EVS5000_SOP00_ElectionWare03_Design	TDP
					EVS5000_SOP00_ElectionWare04_Deliver	101
1					EVS5000_SOP00_ElectionWare05_Results	
1					EVS5000_SOP00_ERM	
1					EVS5000_SOP00_NetworkConfigGuide	
1					EVS5000_SOP00_ELS	
607						
	I [		The vendor shall also submit a record of all configuration		EVS5000_SDS00_DS200, Section 2.5.6.1, Configurations and Operating Modes	
1			changes made to the software following its installation.		EVS5000_SDS00_DS850, Section 6.1, Configurations and Operating Modes	
1					EVS5000_SDS00_ERM, Section 6.1, Configurations and Operating Modes	TDD
1					EVS5000_SDS00_UELS, Section 6.1, Configurations and Operating Modes	IDP
1					EVS5000_SDS00_AutoMARK SDS Overview, Section 2.5.6.1, Configurations and Operating Modes	
608						
609		VI, 5.2.6	Coding Conventions			
1			Voting system software shall adhere to basic coding conventions.	also Vol. II, 2.5.4 e. TDP, Software Design and		
<b>.</b>			The coding conventions used shall meet one of the following	Specification, Software Standards and Conventions		
610			conditions:			

<u> </u>			_	-	-	-
	А	В	C	D	F	G
		a.	The vendors shall identify the published, reviewed, and industry-		EVS5000 SDS00 DS200 Section 2.5.4. Software Standards and Conventions	
					EVISEORO SDS00 DS950 Section 4 Sections Standard and Committing	
			accepted counting conventions used and the accredited test tab shar		E v 53000_535300_53630, Section 4, software standards and Conventions	
			test for compliance.		EVS5000_SDS00_ERM, Section 4, Software Standards and Conventions	TDD
					EVS5000_SDS00_UELS, Section 4, Software Standards and Conventions	1101
					EVS5000_SDS00_AutoMARK SDS Overview_Section 2.5.4_Software Standards and Conventions	
614						
011						
612		VI, 5.3	Data and Document Retention			
613			All systems shall:			
	ſ	a.	Maintain the integrity of voting and audit data during an election.	Vol. II. Sec. 2.3 System Functionality Description	EVS5000 SDS00 DS200, Section II, Additional Software Functions Referenced in the VVSG: Volume I, Section 5	
			and for at least 22 months thereafter a time sufficient to resolve	,	EV\$5000_SD\$00_D\$850_Section 6.5.1_Data and Document Patention	
			and for at least 22 months therearter, a time sufficient to resolve		Evisional approximation and a set of the set	
			most contested elections and support other activities related to the		EVS5000_SDS00_ERM, Section 6.3.1, Data and Doucment Retention	TDP
			reconstruction and investigation of a contested election.		EVS5000_SDS00_UELS, Section 6.3.1, Data and Doucment Retention	151
					EVS5000_SDS00_AutoMARK SDS Overview, Section 5.3, Data and Document Retention	
614						
014						
		v1, Sec. 7	Security Requirements	vol. 1, 2.1.1 Overall System, Security;		
				Vol. II, 2.6 Security Specifications;		
615				Vol. I, Sec. 6 Telecommunications Requirements		
616	ľ	VI. 7.2.1	General Access Control Policy			
		,	The yendor shall specify the general features and capabilities of	also Vol. II. 2.6.1 TDP. System Security	EVS5000_SSS00_Section 1_Access Control Policy	
1 1			the second shart specify the general reatures and capabilities of	Constitution Annual Control Deline	1+5500_55500, Sector 1, recess Contor Forey	TDD
			the access control policy recommended to provide effective votin	specification, Access Control Policy		TDP
617			system security.			
			Although the jurisdiction in which the voting system is operated it			
1			responsible for determining the access policies for each election			
			the wondor shall provide a description of recommanded policies			
			the vendor shall provide a description of recommended poncies			
618			for:			
		a.	Software access controls;		EVS5000_SSS00, Section 2.1.1, Software Access	TDD
619						TDP
		h	Hardwara access controls:		EVS5000 SSS00 Section 2.1.2 Hardware Access	
600		0.	Hardware access controls,		LV35000_55500, Section 2.1.2, Hardware Access	TDP
620						
		с.	Communications;		EVS5000_SSS00, Section 2.1.3, Communications	TDD
621						IDF
		d	Effective password management:		EVS5000_SSS00_Section 2.1.4_Effective Password Management	
622					_ · · · · · · · · · · · · · · · · ·	TDP
022						
		e.	Protection abilities of a particular operating system;		EVS5000_SSS00, Section 2.1.5, Protection Abilities of an Operating System	TDP
623						151
		f.	General characteristics of supervisory access privileges;		EVS5000_SSS00, Section 2.1.6, General Characteristics of Supervisory Access Privileges	
624						TDP
		<i>a</i>	Segregation of dution and		EVES000 SSS00 Section 2.1.7 Secretation of Duties	
COF		g.	Segregation of duties, and		L v 33000_335300, Section 2.1.7, Segregation of Dates	TDP
620						
		h.	Any additional relevant characteristics.		EVS5000_SSS00, Section 2.1.10, Additional Characteristics	TDD
626						IDF
627		VI. 7.2.1.1	Individual Access Privileges			
<u> </u>		,	Voting system vendors shall:	also Vol. II. 2.6.1 TDP. System Security		
600			roung system venuors snan.	Carrier Access Carrier D. P.		
020				specification, Access Control Policy		
1		a.	a. Identify each person to whom access is granted, and the		EVS5000_SSS00 Section, 1.10.5, Infividual Access Privileges	1
			specific functions and data to which each person holds authorized	1		TDP
629			access.			1
<u> </u>		h	h Specify whether an individual's authorization is limited to a		EVS5000_SSS00_Section_1_10_5_Infividual Access Privileges	
1 1		0.	o, opecity whence an individual s autionization is littlifted to a		E 155005_55505 Section, 1.10.5, initialital Access 1 inviteges	TDD
000			specific time, time interval, or phase of the voting or counting			IDP
630			operations.			
1		с.	c. Permit the voter to cast a ballot expeditiously, but preclude		EVS5000_SSS00 Section, 1.10.5, Infividual Access Privileges	
1			voter access to all aspects of the vote counting process			TDP
631						1
001		WT 5 4 1 4		V-L H 2 6 2 TDD Sector Consists Section		
000		v1, 7.2.1.2	Access Control Measures	vol. 11, 2.0.2 TDP, System Security Specification,		
632				Access Control Measures		
1 1			Vendors shall provide a detailed description of all system access		UNY 3020_SSS00 Section 2, Access Control Measures	1
1 1			control measures designed to permit authorized access to the			TDP
633			system and prevent unauthorized access			1
634			Examples of such measures include:			
004			Examples of such measures menude.			
		a.	Use of data and user authorization		UNY 3020_SSS00 Section 2, Access Control Measures	TDP
635				1		

<b>—</b>		-			-	
	A	в	C	D	F	G
	-	h	Program unit ownership and other regional boundaries		UNY 3020 SSS00 Section 2 Access Control Measures	
000		0.	riogram and ownership and outer regional boundaries		Crit 5020_55500 Section 2, recess Control Metalates	TDP
636						
		с.	One-end or two-end port protection devices		UNY 3020 SSS00 Section 2, Access Control Measures	
637			· · · · · · · · · · · · · · · · · · ·			TDP
037	-					
		d.	Security kernels		UNY 3020_SSS00 Section 2, Access Control Measures	TDD
638						IDP
000	F					
		e.	Computer-generated password keys		UN1 5020_SSS00 Section 2, Access Control Measures	TDP
639						121
	. I	f	Special protocols		UNV 3020 SSS00 Section 2 Access Control Measures	
0.40		1.	special protocols		on 1 5020_55500 Section 2, neess control measures	TDP
640						
		g.	Message encryption		UNY 3020 SSS00 Section 2, Access Control Measures	
6/1		0	5 51			TDP
041	-					
		h.	Controlled access security		UNY 3020_SSS00 Section 2, Access Control Measures	TDD
642						IDP
0.2	- F					
			vendors also shall define and provide a detailed description of th	1	UN1 5020_SSS00 Section 2, Access Control Measures	
			methods used to prevent unauthorized access to the access control			TDP
643			canabilities of the system itself			
010						
644	L	VI, 7.3	Physical Security Measures			
1 1	[		Security procedures shall address physical threats and the	Vol. II, 2.6.3 TDP, System Security Specification,		
645			corresponding means to defeat them	Equipment and Data Security		
040	Ļ		corresponding means to deteat dielli.	Бутртен ини Биш Зесинну		
646		VI, 7.3.1	Polling Place Security			
	[		For polling place operations, vendors shall develop and provide	Vol. II. 2.6.3 Eauipment and Data Security	EVS5000 SSS00, Section 3, Equipment and Data Security	
			detailed decomposite of account to each a self mediate to	ron n, 2.0.0 Equipment and Bata Security	2 vosoo_oooo_oooooooooooooooooooooooooooo	
			detailed documentation of measures to enable poll workers to			
			physically protect and perform orderly shutdown of voting			TDP
			aguinment to counteract vandalism civil disobedience and			
- · -			equipment to counteract valuansin, civit disobedience, and			
647			similar occurrences.			
			The measures shall allow the immediate detection of tampering		EVS5000 SSS00 Section 3.2 Polling Place Equipement Security	
			The measures shall allow the miniculate detection of tampering		2 v55005_55500, Section 5.2, Poining Place Equipoint Security	TDD
			with vote casting devices and precinct ballot counters.			IDP
648						
	Ē		They shall also control physical access to a telecommunications		EV\$5000_\$\$\$00_Section 4.2.2_ES&S_Alart Monitoring	
			They shall also control physical access to a telecommunications		E V55000_55500, Section 4.2.2, Estes Aiert Monitoring	TDP
649			link if such a link is used.			
650		VI. 7.3.2	Central Count Location Security			
	- F	,	Vendensehell develen end de envente in deteil the measure to be	V-1 II 263 Eminerature 1 Dete Security	EVICE000 SECON Section 2 Environment and Date Security	
			vendors shall develop and document in detail the measures to be	voi. 11, 2.0.5 Equipment and Data Security	EVS5000_SSS00, Section 5, Equipment and Data Security	
			taken in a central counting environment. These measures shall			
			include physical and procedural controls related to the handling of			TDP
			include physical and procedular controls related to the handling o	1		1111
			ballot boxes, preparing of ballots for counting, counting			
651			operations and reporting data.			
652		VI 7 4	C-Bernard Committee			
052		V1, 7.4	Sonware Security			
			Voting systems shall meet specific security requirements for the	Vol.II, 2.6.4 TDP, System Security Specification,		(
1 1			installation and for protection against malicious software	Software Installation		
650			pullist manerous sortivale.			
653	Ļ					
654	ŀ	VI, 7.4.1	Software and Firmware Installation			
	ŀ		The system shall meet the following requirements for installation	also Vol II 264 TDP System Security		
1 1	l		The system shart meet the following requirements for installation	also vol.11, 2.0.4 1D1, System Security		
1 1			of software, including hardware with embedded firmware.	Specification, Software Installation		
655	l					
	ŀ	9	If coffware is resident in the system as firmware, the way does have		EVS5000_SSS00_Section 4.1_Software and Eirmware Installation	
1 1		a.	in software is resident in the system as miniware, the vendor shall		E v55000_55500, Section 4.1, Software and Filliware installation	
1 1			require and state in the system documentation that every device is	4	1 1	TDD
1 1	l		to be retested to validate each ROM prior to the start of elections	1	1	1 DP
GEC	l		operations	1	1	
000	Ļ		operations.			
1 1	ľ	b.	To prevent alteration of executable code, no software shall be	1	EVS5000_SSS00, Section 4.1, Software and Firmware Installation	
1 1			nermanently installed or resident in the voting system unless the	1	1 1	
1 1	l		resident in the voting system unless the	1	1	
1 1			system documentation states that the jurisdiction must provide a	1	1 1	TDP
1 1			secure physical and procedural environment for the storage.	1	1 1	1 DF
1 1			handling preparation and transportation of the system hardware	1	1 1	
1			nanoning, preparation, and transportation of the system nardware.	1	1 1	
657				1	1 1	
658	l l	VI.7.4.2	Protection Against Malicious Software			
000	ŀ	, /				
1 1	l		voung systems shall deploy protection against the many forms of	voi. 11, 2.0.4 IDP, System Security Specification,	E V SOUU_SSSUU, Section 4.2, Protection Against Malicious Software	
1 1	l		threats to which they may be exposed such as file and macro	Software Installation	1	
1 1	l		viruses worms Trojan horses and logic hombs. Vandors shall	1	1	
1 1			viruses, worms, rrojan noises, and logic bomos. Vendors shall	1	1 1	TDP
1 1	l		develop and document the procedures to follow to ensure that	1	1	
1 1			such protection against is maintained in a current status.	1	1 1	
650				1	1 1	
009			1	1		

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660	١	VI, 7.4.3	Software Distribution and Setup Validation			
661			Voting system software is considered to be all executable code and associated configuration files critical for proper operation of the voting system regardless of the location of installation and functionality provided. This includes third party software such as operating systems, drivers, and database management systems.	Vol.II, 2.6.4 TDP, System Security Specification, Software Installation		
662	N	VI, 7.4.4	Software Distribution			
663	a	а. 	The vention shard document an software including voting system software, third party software (such as operating systems and drivers) to be installed on the certified voting system, and installation programs.	vo. II. 2004 IDF, system Security Specytication, Software Installation	AutoMARK ESS Ballot Scanning and Printing Specification AQS-18-5002-007-S.pdf AutoMARK ESS Ballot Scanning and Printing Specifications AQS-18-5002-007-S.pdf AutoMARK ESS Coll Design Specifications AQS-18-5001-005-R AutoMARK ESS Operating Software Design Specifications AQS-18-5001-005-R AutoMARK ESS Operating Software Design Specifications AQS-18-5001-002-R AutoMARK ESS Operating Software Design Specifications AQS-18-5001-005-R AutoMARK ESS Software Design Specifications Details AQS-18-5001-004-S AutoMARK ESS Software Development Environment AQS-18-5001-006-R AutoMARK ESS Software Development Environment AQS-18-5001-006-R AutoMARK ESS Software Diagnostics Specifications AQS-18-5001-006-R AutoMARK ESS Software Diagnostics Specification AQS-18-5001-006-R AutoMARK ESS Software Standards Specification AQS-18-5001-006-R AutoMARK ESS Software Standards Specification AQS-18-4000-000-S EVS5000_SDS00_DS2000_Flowcharts EVS5000_SDS00_DS20001_Flowcharts EVS5000_SDS00_DS20002_Reports EVS5000_SDS00_DS20002_Reports EVS5000_SDS00_DS20002_Reports EVS5000_SDS00_DS20005_System Messages EVS5000_SDS00_DS2000_Seystem Messages EVS5000_SDS00_DS2000_ElectionWare01_EW Specification and Interfaces EVS5000_SDS00_DS2000_ElectionWare02_PB Specification and Interfaces EVS5000_SDS00_ElectionWare02_PB Specification and Interfaces EVS5000_SDS00_ElectionWare03_PostGreSQL Description EVS5000_SDS00_ElectionWare12_VB Specification and Interfaces EVS5000_SDS00_ElectionWare12_AutoMARK Media Desc EVS5000_SDS00_ElectionWare13_DS200 and DS850 Media Desc EVS5000_SDS00_ElectionWare13_Stem Messages EVS5000_SDS00_ElectionWare13_Stem Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_Elect	TDP

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			i. The documentation shall have a unique identifier (such as a	Vol. II, 2.6.4 TDP, System Security Specification,	AutoMARK ESS Ballot Image Processing Specification AQS-18-5002-003-S.pdf	
			serial number or part number) for the following set of	Software Installation	AutoMARK ESS Ballot Scanning and Printing Specification AQS-18-5002-007-S.pdf	
			information: documentation, software vendor name, product		AutoMARK ESS Driver API Specification AQS-18-5000-002-F.pdf	
			name, version, the certification application number of the voting		AutoMARK ESS Embedded Database Interface Specifications AQS-18-5002-005-S	
			system, file names and paths or other location information (such		AutoMARK ESS GUI Design Specifications AQS-18-5001-005-R	
			as storage addresses) of the software.		AutoMARK ESS Operating Software Design Specifications AQS-18-5001-002-R	
					AutoMARK ESS Operations and Diagnostic Log Specs AQS-18-5002-004-S	
					AutoMARK ESS Programming Specifications Details AQS-18-5001-011-R	
					AutoMARK ESS Software Design Spec AQS-18-5001-004-S	
					AutoMARK ESS Software Development Environment AQS-18-5001-006-R	
					AutoMARK ESS Software Diagnostics Specifications AQS-18-5000-004-F	
					AutoMARK ESS Software Standards Specification AQS-18-4000-000-S	
					EVS5000_SDS00_AutoMARK SDS Overview	
					EVS5000_SDS00_DS200	
					EVS5000_SDS00_DS20001_Flowcharts	
					EVS5000_SDS00_DS20002_Reports	
					EV\$5000_SD\$00_D\$20005_System Messages	
					EVS5000_SDS00_DS20006_Results Media XMLs	TDP
					EVS5000_SDS00_DS850	
					EVS5000_SDS00_ElectionWare	
					EVS5000_SDS00_ElectionWare01_EW Specification and Interfaces	
					EVS5000_SDS00_ElectionWare02_PB Specification and Interfaces	
					EVS5000_SDS00_ElectionWare05_System Process Flowchart	
					EVS5000_SDS00_ElectionWare07_PostGreSQL Description	
					EVS5000_SDS00_ElectionWare08_Reports	
					EVS5000_SDS00_ElectionWare11_DS200 and DS850 Media Desc	
					EVS5000_SDS00_ElectionWare12_AutoMARK Media Description and Structure	
					EVS5000_SDS00_ElectionWare13_ERM Media Description	
					EVS5000_SDS00_ElectionWare14_System Messages	
					EVS5000_SDS00_ERM	
					EVS5000_SDS00_ERM01_Appendices	
					EVS5000_SDS00_UELS	
664						
004						

Г	A	В	С	D	F	G
	V V O L U V N N T A R V V O T	B	C ii. The documentation shall designate all software files as static, semi-static, or dynamic.	D Vol. 1, 2.6.4 TDP, System Security Specification, Software Installation	F           AutoMARK ESS Ballot Image Processing Specification AQS-18-5002-007-S.pdf           AutoMARK ESS Ballot Scanning and Printing Specification AQS-18-5002-007-S.pdf           AutoMARK ESS Driver API Specification AQS-18-5000-002-F.pdf           AutoMARK ESS CUI Design Specifications AQS-18-5001-005-R           AutoMARK ESS Operations and Diagnostic Log Specs AQS-18-5001-002-R           AutoMARK ESS Operations and Diagnostic Log Specs AQS-18-5001-002-R           AutoMARK ESS Operations and Diagnostic Log Specs AQS-18-5001-002-R           AutoMARK ESS Programming Specifications Details AQS-18-5001-001-R           AutoMARK ESS Software Development Environment AQS-18-5001-006-R           AutoMARK ESS Software Diagnostic Specifications AQS-18-5000-004-F           AutoMARK ESS Software Diagnostic Specification AQS-18-4000-000-S           EVS5000_SDS00_DAutoMARK SDS Overview           EVS5000_SDS00_DS2000           EVS5000_SDS00_DS2000_Rebuts           EVS5000_SDS00_DS20002_Reports           EVS5000_SDS00_DS20002_Reports           EVS5000_SDS00_DS20006_Results Media XMLs           EVS5000_SDS00_DS20006_Results Media XMLs           EVS5000_SDS00_DSS00_DElectionWare01_EW Specification and Interfaces           EVS5000_SDS00_DSDS00_ElectionWare05_System Process Flowchart           EVS5000_SDS00_ElectionWare05_PB Specification and Interfaces           EVS5000_SDS00_ElectionWare05_System Process Flowchart	G
	R Y V O T I				EVS5000_SDS00_ElectionWare02_PB Specification and Interfaces EVS5000_SDS00_ElectionWare05_System Process Flowchart EVS5000_SDS00_ElectionWare07_PostGreSQL Description EVS5000_SDS00_ElectionWare08_Reports EVS5000_SDS00_ElectionWare11_DS200 and DS80 Media Desc EVS5000_SDS00_ElectionWare12_AutoMARK Media Description and Structure EVS5000_SDS00_ElectionWare13_ERM Media Description EVS5000_SDS00_ElectionWare14_System Messages EVS5000_SDS00_ElectionWare14_System Messages	
e	N G 565 X				EVS5000_SDS00_ERM01_Appendices EVS5000_SDS00_ERM01_Appendices	

	Α	В	С	D	F	G
			Discussion: Static voting system software such as executable		AutoMARK FSS Ballot Image Processing Specification AOS-18-5002-003-S ndf	-
	S		code does not change based on the election being conducted or the		AutoMARK FSS Ballot Scanning and Printing Specification AOS-18-5002-007-5 pdf	
	Т		code does not enange based on the election being conducted of a	1	AutoMARK ESS Driver API Specification AOS 18 5000 002 E off	
	м		voting equipment upon which it is instance. Semi-static voting		AutoMARK ESS Diversal Art Spectration Agis 16:5000-00271 put	
			system software contains configuration information for the voting	5	AutoMARK ESS Embedded Database interface spectrications AQS-18-5002-005-5	
	~		system based on the voting equipment that is installed and the		AutoMARK ESS GUI Design Specifications AQS-18-5001-005-K	
	G		election being conducted. Semi-static software is only modified		AutoMARK ESS Operating Software Design Specifications AQS-18-5001-002-R	
	U		during the installation of (a) the voting system software on voting		AutoMARK ESS Operations and Diagnostic Log Specs AQS-18-5002-004-S	
	1		equipment or (b) the election-specific software such as ballot		AutoMARK ESS Programming Specifications Details AQS-18-5001-011-R	
	D		formats. Dynamic voting system software changes over time		AutoMARK ESS Software Design Spec AQS-18-5001-004-S	
	-		once installed on voting equipment. However, the specific time of	t i i i i i i i i i i i i i i i i i i i	AutoMARK ESS Software Development Environment AQS-18-5001-006-R	
	-		value of the change in the dynamic software is usually unknown		AutoMARK ESS Software Diagnostics Specifications AQS-18-5000-004-F	
	L		in advance, making it impossible to create reference information		AutoMARK ESS Software Standards Specification AQS-18-4000-000-S	
	1		to verity the software.		EVS5000 SDS00 AutoMARK SDS Overview	
	Ν				EV\$5000_\$D\$00_D\$200	
	F				EVS5000 SDS00 DS20001 Elowcharts	
	- -				EVSSOO_SDSOD_DS20002_Reports	
	3				EVESTOD SDS00_DS20002_Lepter	
					EV55000_SDS00_DS20003_System Messages	TDP
					EV SOUO_SDS00_DS20006_Results Media AMLS	1101
1	V				EV55000_5L5500_15850	
1	0				EVS5000_SDS00_ElectionWare	
	ĩ				EV\$5000_SD\$00_ElectionWare01_EW Specification and Interfaces	
					EVS5000_SDS00_ElectionWare02_PB Specification and Interfaces	
	U				EVS5000_SDS00_ElectionWare05_System Process Flowchart	
	М				EVS5000_SDS00_ElectionWare07_PostGreSQL Description	
	Е				EVS5000_SDS00_ElectionWare08_Reports	
					EVS5000 SDS00 ElectionWare11 DS200 and DS850 Media Desc	
					EVS5000 SDS00 ElectionWare12 AutoMARK Media Description and Structure	
	•				EVS5000_SDS00_ElectionWare13_ERM_Media_Description	
					EVESTOD SDS00_ElectionWare14_Sustam Maesages	
					EV55000_SDS00_EECH0FWatc14_System Mcssages	
	V				EV55000_SDS00_ERM0	
	F				EVS2000_SDS00_EKM01_Appendices	
	-				EVS5000_SDS00_UELS	
	R O					
666	S					
000	Т					
667	0	V1, 7.4.6	Software Setup Validation			
	Ν	b.	The vendor shall have a process to verify that the correct	Vol. II, 2.6.4 TDP, System Security Specification,	EVS5000_SSS00, Section 4.3.3, Software Setup Validation	
			software is loaded, that there is no unauthorized software, and	Software Installation		
			that voting system software on voting equipment has not been			TDP
1			modified, using the reference information from the NSRL or from	<b>h</b>		
668	•		a State designated repository.			
	0		ii. The vendor shall document the process used to verify softwar		EVS5000_SSS00, Section 4.3.3, Software Setup Validation	TDD
669			on voting equipment.			TDP
		f.	Setup validation methods shall verify that registers and variables		EVS5000 SSS00, Section 4.3.3, Software Setup Validation	
1			of the voting system equipment contain the proper static and			TDP
670			initial values			
			ii. The vendor shall document the values of all static registers		EVS5000_SSS00_Section 4.3.3_Software Setup Validation	
1			and variables, and the initial starting values of all domentic		Ex55000_55500, Section 4.5.5, Software Setup Validation	
1			and variables, and the initial starting values of all dynamic			77D D
1			registers and variables listed for voting system software, except			TDP
-			for the values set to conduct a specific election.			
671						
672		VI, 7.5	Telecommunications and Data Transmission			
673		VI, 7.5.2	Protection Against External Threats			
		a.	Voting systems that use public telecommunications networks	Vol. II, 2.6.5 Telecommunications and Data		
1			shall implement protections against external threats to which	Transmission Security		
			commercial products used in the system			
674			may be susceptible.			

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	$\sim$	D.				9
		b.	Voting systems that use public telecommunications networks	Vol. II, 2.6.5 TDP, System Security Specification,	N/A - EVS5000 does not use public telecommunications networks	
			shall provide system documentation that clearly identifies all	Telecommunications and Data Transmission		
			COTS hardware and software products and communications	Security;		
			services used in the development and/or operation of the voting	Vol. II. 2.2.1 e. System Description		TDD
			system including operating systems, communications routers			TDP
			modern drivers, and diel up networking software			
			modelii drivers, and diai-up networking software.			
674	5					
073	,					
070	_		1. Such documentation shall identify the name, vendor, and		IV/A - EV\$5000 does not use public telecommunications networks	TDP
676	S		version used for each such component.			
677	7	VI, 7.5.3	Monitoring and Responding to External Threats			
			Therefore, vendors of such [voting systems that use public	also Vol. II, 2.6.5 TDP, System Security		
			telecommunications] shall document how they plan to monitor	Specification, Telecommunications and Data		
			and respond to known threats to which their voting systems are	Transmission Security		
			vulnerable. This documentation shall provide a detailed			
			description including scheduling information of the procedures			
07			description, including scheduling information, of the procedures			
678	3		the vendor will use to:			
		a.	Monitor threats, such as through the review of assessments,		EVS5000_SSS00, Section 4.2.2, ES&S Alert Monitoring	
			advisories, and alerts for COTS components issued by the			
1	1 1		Computer Emergency Response Team (CERT), the National			
1	1 1		Infrastructure Protection Center (NIPC), and the Federal			TDP
1	1 1		Computer Incident Besponse Carshility (EndCIDC):			
0-			computer incluent Response Capability (redCIRC);			
679	9					
		b.	Evaluate the threats and, if any, proposed responses;		EVS5000_SSS00, Section 4.2.2, ES&S Alert Monitoring	TDD
680	C					IDF
		c.	Develop responsive updates to the system and/or corrective		EVS5000 SSS00, Section 4.2.2, ES&S Alert Monitoring	
681	1		procedures:			TDP
00	<u>.</u>	1	Exhauit the annual measure to test labe and annualists states		EVERADO SERVICE 4.2.2 ES & Alext Municipal	
		a.	Submit the proposed response to test fabs and appropriate states		EV\$3000_55500, Section 4.2.2, ES&S Alert Monitoring	
			for approval, identifying the exact changes and whether or not			TDP
682	2		they are temporary or permanent;			
		e.	After implementation of the proposed response is approved by th		EVS5000_SSS00, Section 4.2.2, ES&S Alert Monitoring	
			state, assist clients, either directly or through detailed written			
			procedures how to undate their systems and/or to implement the			TDP
			active procedures within the timeframe established by the			101
0.00			confective procedures within the unienance established by the			
68.	5		state.			
684	4	f.	Address threats emerging too late to correct the system by:			
			i. Providing prompt, emergency notification to the accredited tes		EVS5000_SSS00, Section 4.2.2, ES&S Alert Monitoring	
			labs and the affected states and user jurisdictions;			TDP
685	5		-			
	-		ii Assisting client jurisdictions directly or advising them		EVS5000_SSS00_Section 4.2.2_ES&S_Alert_Monitoring	
1	1 1		through datailed written procedures, to disable the public		S 15500 _55500, Sector 1.5.2, Eddo Mert Molling	TDD
000			anough detaned written procedures, to disable the public	1		IDP
686	c		telecommunications mode of the system; and			
1	1 1		iii. Modifying the system after the election to address the threat,		EVS5000_SSS00, Section 4.2.2, ES&S Alert Monitoring	
1	1 1		submitting the modified system to an accredited test lab and the			
1	1 1		EAC or appropriate state certification authority for approval, and	1		
1	1 1		assisting client jurisdictions directly or advising them through	1		TDP
1	1 1		detailed written procedures to undate their systems and/or to	1		
1	1 1		implament the corrective procedures ofter opprov-1	1		
000			implement the confective procedures after approval.			
687	<u>′</u>					
688	3	VI, 7.6	Use of Public Communications Networks			
689	9	VI, 7.6.2	Casting Individual Ballots			
690	C	VI, 7.6.2.1	Documentation of Mandatory Security Activities			
	7		Vendors of voting systems that cast individual ballots over a	Vol. II, 2.6.5 TDP, System Security Specification.		
1	1 1		public telecommunications network shall provide detailed	Telecommunications and Data Transmission		
601	1		descriptions of	Security		
09	4			becany		
1		a.	All activities mandatory to ensuring effective system security to		EA22000-22200	
1	1 1		be performed in setting up the system for operation, including			TDP
692	2		testing of security before an election.			
	1 1	b.	All activities that should be prohibited during system setup and		EVS5000_SSS00	
1	1 1		during the time frame for voting operations, including both the			
1	1 1		hours when polls are open and when polls are closed			TDP
601	3		real point and open and when point are crosed.			
090						
1094	+	V1, 7.7	wireless Communications			

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-		U	Wireless is defined as any means of communications that occurs			Ŭ
			without wires. This normally source the entire electromagnetic			
			without wires. This normany covers the entire electromagnetic			
00	_		spectrum. For the purposes of this section, wireless includes			
65	D		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		
65	0			Transmission Security		
		a.	If wireless communications are used in a voting system, then the		N/A - EVS5000 does not use wireless communications	
			vendor shall supply documentation describing how to use all			TDP
			aspects of wireless communications in a secure manner. This			
69	7		documentation shall include:			
			<ol> <li>A complete description of the uses of wireless in the voting</li> </ol>		N/A - EVS5000 does not use wireless communications	
			system including descriptions of the data elements and signals			TDP
69	8		that are to be carried by the wireless mechanism.			
			ii. A complete description of the vulnerabilities associated with		N/A - EVS5000 does not use wireless communications	
			this proposed use of wireless, including vulnerabilities deriving			TDD
			from the insertion, deletion, modification, capture, or suppression			IDP
69	9		of wireless messages.			
			iii. A complete description of the techniques used to mitigate the		N/A - EVS5000 does not use wireless communications	
			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			TDP
			fully described, including a description of cryptographic key			
			generation, management, use, certification, and destruction.			
70	D					
	-		iv. A rationale for the inclusion of wireless in the proposed		N/A - EVS5000 does not use wireless communications	
			voting system, based on a careful and complete description of the			
			perceived advantages and disadvantages of using wireless for the			TDP
			documented uses compared to using non-wireless approaches.			
70	1					
Ê	-		iv. Discussion: In general, convenience is not a sufficiently		N/A - EVS5000 does not use wireless communications	
			compelling reason, on its own, to justify the inclusion of wireless			
			communications in a voting system. Convenience must be			TDP
			halanced against the difficulty of working with cryptographic			151
70	2		kevs			
-	-	h	The details of all cryptographic protocols used for wireless		N/A - EVS5000 does not use wireless communications	
			communications including the specific features and data shall be			TDP
70	3		documented			151
H	-	e.	If a voting system includes wireless capabilities, then the voting		N/A - EVS5000 does not use wireless communications	
1			system shall be able to accomplish the same function if wireless			
1			capabilities are not available due to an error or no service			TDP
70	4					
H	-		i. The vendor shall provide documentation how to accomplish		N/A - EVS5000 does not use wireless communications	
70	5		these functions when wireless is not available.			TDP
70	6	VI. 7.7.2	Identifying Usage			
F	-	,	If a voting system provides wireless capabilities, then the type of	see also Vol. II. 2.6.5 TDP. System Security	N/A - EVS5000 does not use wireless communications	
			wireless communications used (such as radio frequencies) shall b	Specification. Telecommunications and Data		
1			identified either via a label or via the voting system	Transmission Security		TDP
70	7		documentation.			
70	8	VI. 7.9	Voter Verifiable Paper Audit Trail Requirements			
Ě	-	,	VVPAT is not required for national certification. However, these			
1			requirements will be applied for certification testing of DRF			
1			systems that are intended for use in states that require DPEs to			
70	a		provide this capability			
H	Ĭ	VI 792	Voter Verifiable Paper Audit Trail Requirements Approve o			
71	n	• 1, 7.9.2	Void the Paper Record			
11	-		tolu me i aper Record			

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		e.	Vendor documentation shall include procedures to enable the	Vol. II, 2.3 System Functionality Description	N/A - EVS5000 does not utilze VVPAT	
			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			TDP
			the electronic and paper records			
714			the electronic and paper records.			
/ 11						
		VI, 7.9.3	Voter Verifiable Paper Audit Trail Requirements, Electronic			
712			and Paper Record Structure			
		e.	iii. The voting system vendor shall provide documentation as to	Vol. II, 2.7.2e, National Certification Test	N/A - EVS5000 does not utilze VVPAT	
			the structure of the exported ballot image records and how they	Specifications		TDP
713			shall be read and processed by software.			
		e.	v. The voting system vendor shall provide full documentation of	Vol. II. 2.2.2 b. System Performance	N/A - EVS5000 does not utilze VVPAT	
			procedures for exporting electronic ballot image records and	· · · · · · , _ · · _ · · · · · · · · ·		
			reconciling these records with the paper oudit records			TDP
744			reconcining mose records with the paper audit records.			
714						
/15		VI, 7.9.4	Equipment Security and Reliability	Vol. II, 2.2.2 b. System Performance		
		k.	Vendor documentation shall include procedures for investigating		N/A - EVS5000 does not utilze VVPAT	
			and resolving printer malfunctions including, but not limited to;			TDP
			printer operations, misreporting of votes, unreadable paper			IDI
716			records, and power failures.			
		1.	Vendor documentation shall include printer reliability		N/A - EVS5000 does not utilze VVPAT	
			specifications including Mean Time Between Failure estimates			
			and shall include recommendations for appropriate quantities of			TDP
747			and shall include recommendations for appropriate quantities of			
717			backup printers and supplies.			
718		VI, Sec. 8	Quality Assurance Requirements			
719		VI, 8.1	Scope			
720		VI, 8.2	General Requirements			
			The voting system vendor is responsible for designing and	also Vol. II, 2.12 TDP, Quality Assurance		
			implementing a quality assurance program to ensure that the	Program;		
			design, workmanship, and performance requirements are achieve	also Vol. II. 7.5 Examination of Ouality Assurance		
			in all delivered systems and components At a minimum this	Practices		
721			program shall:	1 recirces		
121						
		a.	include procedures for specifying, procuring, inspecting,		ESSTS_M_P_1000_MNPQuantyAssurancePlan, Section 1, General Quanty Assurance Requirements	
			accepting, and controlling parts and raw materials of the requisite		ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1, General Quality Assurance Requirements	TDP
722			quality;			
		b.	Require the documentation of the hardware and software		ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1, General Quality Assurance Requirements	
			development process;		ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1, General Quality Assurance Requirements	TDP
723						
724		с.	Identify and enforce all requirements for:			
			i. In-process inspection and testing that the manufacturer		ESSSYS M P 1000 MNFQualityAssurancePlan, Section 1, General Quality Assurance Requirements	
			deems necessary to ensure proper fabrication and assembly of		ESSSYS O. P. 0100 SoftwareQualityAssuranceProgram Section 1. General Quality Assurance Requirements	TDP
725			hardware		2555 15_Q_1_5000_5011mmeQuanty1.nonumeerrogram, 500101 1, 50101m Quanty1.nonumeerroquiteinents	IDI
125						
			<ol> <li>Installation and operation of software and firmware</li> </ol>		ESSYS_M_P_1000_MINFQuaityAssurancePlan, Section 1, General Quaity Assurance Requirements	
					ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1, General Quality Assurance Requirements	TDP
726						
		d.	Include plans and procedures for post-production environmental		ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1, General Quality Assurance Requirements	
			screening and acceptance testing		ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1, General Quality Assurance Requirements	TDP
727						
		e.	Include a procedure for maintaining all data and records required		ESSSYS M P 1000 MNFQualityAssurancePlan, Section 1, General Quality Assurance Requirements	
1 1			to document and verify the quality inspections and tests		ESSSYS O P 0100 SoftwareOualityAssuranceProgram, Section L General Ouality Assurance Requirements	TDP
728						
720		VI 9 2	Components from Third Parties			
129		1, 8.5	Components from Third Parties	V-L II 2 12 Our liter Arrows and	CCSSVS M. D. 1000. MNEOvality Assumption Direct Section 1. Convert Ovality Assumption Devicement in	
1 1			A vendor who does not manufacture all the components of its	voi. 11, 2.12 Quality Assurance	ESSIS_M_T_1000_winrQuantyAssurancePian, Section 1, General Quanty Assurance Kequirements	
1 1			voting system, but instead procures components as standard		ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1, General Quality Assurance Requirements	
1			commercial items for assembly and integration into a voting		1	
			system, shall verify that the supplier vendors follow documented			TDP
1			quality assurance procedures that are at least as stringent as those			
1 1			used internally by the voting system vendor.		1	
730					1	
731		VI. 8.4	Responsibility for Tests			
101		,	101 1000			

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732			The manufacturer or vendor shall be responsible for performing all quality assurance tests, acquiring and documenting test data, and providing test reports for examination by the test lab as part of the national certification process. These reports shall also be provided to the purchaser upon request.		ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1, General Quality Assurance Requirements ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1, General Quality Assurance Requirements	TDP
733	3	VI, 8.5	Parts and Materials Special Tests and Examinations			
734	Ļ.		In order to ensure that voting system parts and materials function properly, vendors shall:	also Vol. II, 2.12 .2, Quality Assurance Program, Parts and Materials Tests; Vol. II, 7.5.2 Parts and Materials Tests	ESESSE M. D. 1000 MNE/bushin Assumes Disp. Section 5 Darts and Matanials Texts	
735	ō	a.	select parts and materials to be used in voting systems and components according to their suitability for the intended application. Suitability may be determined by similarity of this application to existing standard practice or by means of special tests.		ESSS15_m_P_1000_WirrQualityAssuranceProgram, Section 9, Parts and Materials Tests ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 9, Parts and Materials Tests	TDP
736	6	b.	Design special tests, if needed, to evaluate the part or material under conditions accurately simulating the actual voting system operating environment.		ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1.2, Specifying, Procuring, Inspecting, Accepting ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1.2, Specifying, Procuring, Inspecting, Accepting	TDP
737	,	с.	Maintain the resulting test data as part of the quality assurance program documentation.		ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 1.2, Specifying, Procuring, Inspecting, Accepting ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 1.2, Specifying, Procuring, Inspecting, Accepting	TDP
738	3	VI, 8.6	Quality Conformance Inspections			
720			The vendor performs conformance inspections to ensure the overall quality of the voting system and components delivered to the test lab for national certification testing and to the jurisdiction for implementation. To meet the conformance inspection requirements, the vendor or manufacturer shall:	see Vol. II, 2.12.3, Quality Assurance Program, Quality Conformance Inspections; Vol. II, 7.5.3 Quality Conformance Inspections		
740	)	a.	Inspect and test each voting system or component to verify that it meets all inspection and test requirements for the system.		ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 6, Quality Conformance Inspection ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 10, Quality Conformance Inspection	TDP
741		b.	Deliver a record of tests or a certificate of satisfactory completion with each system or component		ESSSYS_M_P_1000_MNFQualityAssurancePlan, Section 6, Quality Conformance Inspection ESSSYS_Q_P_0100_SoftwareQualityAssuranceProgram, Section 10, Quality Conformance Inspection	TDP
742	2	VI, 8.7	Documentation			
743	8		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:	<ul> <li>Vol. II, 2.1.1.1 TDP, Scope, Required Content for Initial Certification;</li> <li>Vol. II, 2.1.1.2 Required Content for System Changes and Recertification;</li> <li>Vol. II, 2.12.4 Quality Assurance Program, Documentation;</li> <li>Vol. II, 7.5.4 Quality Assurance, Documentation</li> </ul>		
744	Ŀ		System overview		EV55000_OVR04_AppxD_CIF-AutoMark EV55000_OVR05_AppxD_CIF-DS200 EV55000_OVR07_AppxE_ConformityStatement	TDP
745	5		System functionality description		EVS5000_SFD00	TDP

	Α	В	С	D	F	G
			System hardware specification		EV\$5000 SHS00 D\$200	-
					EVS5000_SHS00_DS850	
					AutoMARK_ESS_System_Hardware_Overview_AQS-18-5002-000-S	
					AutoMARK_ESS_System_Hardware_Specification_AQS-18-5000-001-F	
					EVS5000_SHS00_AutoMARK01_MODELS	
					EVS5000_SHS00_AutoMARK02_BOM	
					EVS5000_SHS00_DS20001_BOM	
					EVS5000_SHS0_DS85001_BOM	
					EVS5000_SHS01_AutoMARK1.1-1.2 BOM	
					EV55000_SH501_AUI0MARK1.5 BOM	
					CARLE PHASE2	
						TDP
					5K509175-LA	
					5K509177-L-	
					5K509618_SIP_B	
					PEB_RevB	
					PSB_RevB	
					SBC_640117-4000C-2AGP	
					Scanner_PI211MC-B4DR May04	
					SD_GGB_REV_A	
					SIB_A3	
					USD-A-SCH	
746						
			Software design and specifications		AutoMARK ESS Ballot Image Processing Specification AQS-18-5002-003-S.pdf	
					AutoMARK ESS Ballot Scanning and Printing Specification AQS-18-5002-007-S.pdf	
					AutoMARK ESS Driver API Specification AQS-18-5000-002-F,pdf	
					AutoMARK ESS Embedded Database Interface Specifications AQS-18-5002-005-S	
					AutoMARK ESS GUI Design Specifications AQS-18-5001-005-R	
					AutoMARK ESS Operations and Disgnestic Los Specifications AQS-18-2001-002-K	
					AutoMARK ESS Operarming Specifications Details AQS-16-5002-004-5	
					AutoMARK ESS Software Design Spec AOS-18-5001-004-S	
					AutoMARK ESS Software Development Environment AOS-18-5001-006-R	
					AutoMARK ESS Software Diagnostics Specifications AQS-18-5000-004-F	
					AutoMARK ESS Software Standards Specification AQS-18-4000-000-S	
					ESSSYS_D_D_0100_Coding Standards	
					ESSSYS_SG_P_1000_SystemDevProgram	
					EVS5000_SDS00_AutoMARK SDS Overview	
					EV\$5000_\$D\$00_D\$200	
					EVS5000_SDS00_DS20001_Flowcharts	TDD
					EVS5000_SDS00_DS20002_Keports	IDF
					EV55000_SDS00_DS20005_System Messages	
					EV55000_SDS00_DS2000_Results Media AMLS	
					EV55000_BD500 ElectionWare	
					EVS5000_SDS00 ElectionWare01 EW Specification and Interfaces	
					EVS5000_SDS00_ElectionWare02_PB Specification and Interfaces	
					EVS5000_SDS00_ElectionWare05_System Process Flowchart	
					EVS5000_SDS00_ElectionWare07_PostGreSQL Description	
					EVS5000_SDS00_ElectionWare08_Reports	
					EVS5000_SDS00_ElectionWare11_DS200 and DS850 Media Desc	
					EVS5000_SDS00_ElectionWare12_AutoMARK Media Description and Structure	
					EVS5000_SDS00_ElectionWare13_ERM Media Description	
					EVS5000_SDS00_ElectionWare14_System Messages	
					EVS5000_SDS00_ERM	
					EVS5000_SDS00_ERM01_Appendices	
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_			System security specification		EVS5000_STP00	•
			by seeing specification		EVSSOO TCO AutoMARK	
					EVSS00_TC00_ElectionWare01_Manage	
					EVSS00_TC00_ElectionWare02_Define	TDD
					EVSS00_TC00_Electionware03_Design	IDF
					EVSS00_TC00_Electionware04_Deliver	
					EVS5000_TC00_Electionware05_Delver	
	~				EV35000_1C00_EKW	
74	-8					
			System test and verification specification		AutoMARK ESS System Security Specification AQS-18-5002-001-S	
					EV\$5000_\$\$\$00	
					EVS5000_SSS01_JSP Template	
					EVS5000_SSS002.08_AutoMARK Quick Hash Procedure	
					EVS5000_SSS02.01_EMS_PC_SecScriptDesc	
					EVS5000_SSS02.01_UbuntuLiveCD	
					EVS5000_SSS02.05_EMSWorkstation Validation Guide	
					EVS5000_SSS02.06_DS200Quick Hash Procedure	
1					EVS5000_SSS02.07_DS850Quick Hash Procedure	
					EVS5000_SSS02_Hardening Procedures	
					EVS5000 SSS03 Voting System Validation Guide01 File Listing DS200	
					EVS5000 SSS03 Voting System Validation Guide02 File Listing AutoMARK	
					EVS5000 SSS03 Voting System Validation Guide04 File Listing ElectionWare	TDD
					EVS5000 SSS03 Voting System Validation Guide05 File Listing RMS	IDF
					EVS500_SSS03_Voting System Validation Guide06_File_Listing_ELS	
					EVSS00_SSS03_Voting System Validation Guide07_File Listing VATPreview	
					EV55000_SSS0_Voting System Validation Guide/The Esting_VATIenter	
					EV5500_SSS0_Voling System Validation Guide06_File Listing_EKM	
					EV\$5000_SSS03_voling System valuation Guideoy_File Listing_DS850	
					EVS2000_SSS0/_PrysequipmentSecurityBestPract	
					EV55000_SS509_winOS_SECBaseSettings	
					EV\$5000_SSS02.01_HardeningScripts [Folder]	
					EVS5000_SSS02.07.01_DS850QuickHashScripts [Folder]	
					EVS5000_SSS02.08.01_AutoMARKHashTools [Folder]	
74	.9					
-	-		System operations procedures		EVS5000 SOP00 AMVAT	
			bystem operations procedures		EVSS00_SOP00_DS200	
					EVSS00_SOP00_ElactionWare01_Admin	
					EVS5000_SOP00_Election water_Admin	
					E VS000_SOP00_Election water_Define	
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1					EV\$5000_SOP00_EKM	
1	1				EVS5000_SOP00_NetworkConfigGuide	
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1	1				EVS5000_SOP00_AMVAT.01_VerficationElection [Folder]	
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1	1				EVS5000_ORPT02_BallotProductionGuide [In Above Folder]	
75	0					
F	-1		System maintenance procedures		EVS5000 SMM00 AMVAT	
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1	1				EV\$5000_SMM00_DS850	TDP
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Ĥ	-		Personnal danloyment and training requirements		ESSSYS T. D. 1000 TrainingProgram	
75	2		a croomer deproyment and training requirements		155515_11000_11alling110g1alli	TDP
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		Configuration management plan		I Second Program	0
753	A B	C Configuration management plan Quality assurance program	D	F           ESSSYS_CMC_P_1000_ESSCMProgram           ESSSYS_DOC_P_1000_TDProgram           EV\$5000_CMP10_BULD DOCUMENTATION [Folder]           EV\$5000_CMP10_BLD01_SEC01_EMSBuildProcedure           EV\$5000_CMP10_BLD02_SEC02_AutoMARKBuildEnvironment           EV\$5000_CMP10_BLD02_SEC01_AutoMARKBuildEnvironment           EV\$5000_CMP10_BLD02_SEC01_AutoMARKBuildEnvironment           EV\$5000_CMP10_BLD02_SEC01_DS200AcillaryBuildProcedure           EV\$5000_CMP10_BLD05_SEC01_DS200AcillaryBuildProcedure           EV\$5000_CMP10_BLD05_SEC01_DS200FirmwareBuildProcedure           EV\$5000_CMP10_BLD05_SEC01_DS200FirmwareBuildProcedure           EV\$5000_CMP10_BLD05_SEC01_DS200FirmwareBuildProcedure           EV\$5000_CMP10_BLD07_SEC01_DS200FirmwareBuildProcedure           EV\$5000_CMP10_BLD07_SEC01_DS200FirmwareBuildProcedure           EV\$5000_QAP00_MNN3_ECOPolicies and Procedures           EV\$5000_QAP01_SU07_SU01_WorkguiltyAssurancePlan           ESSSYS_M_P_1000_SUPPI_Software Firmware_Acceptance           EV\$5000_QAP01_JSO cert Pivot           EV\$5000_QAP07_DataWin (Quality Assurance Manual           EV\$5000_QAP07_DAtaWin (Quality Assurance Manual	G TDP TDP
				EV\$5000_QAP00_MN01.01_AcceptanceTestProcedure_D\$200.pdf EV\$5000_QAP00_MN02.01_AcceptanceTestProcedure_D\$850.pdf	
/54		System change notes		Nona	
755	1	system enange notes			TDP
756	VI, Sec. 9	Configuration Management Requirements	see Vol. II, 2.11 TDP, Configuration Management Plan		
757	VI, 9.1	Scope			
		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			
758		system certification.			
759	VI, 9.1.1	Configuration Management Requirements			
		Configuration management addresses a broad set of record	Vol. II, 2.11 TDP, Configuration Management Plan		
	1	knowledge and control of a system and its components. These			
760		activities include:			
704		Identifying discrete system components.		ESSSYS_CM_P_1000_ESSCMProgram, Section 1.1, Identify Discrete System Components	TDP
/61	1		1		

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762		Creating records of a formal baseline and later versions of		ESSSYS_CM_P_1000_ESSCMProgram, Section 1.2, Creating Records of a Formal Baseline and Later Version of Components	TDP
763		Controlling changes made to the system and its components.		ESSSYS_CM_P_1000_ESSCMProgram, Section 1.3, Controlling Changes Made to the System and Its Components	TDP
764		Releasing new versions of the system.		ESSSYS_CM_P_1000_ESSCMProgram, Section 1.4, Releasing New Versions of the System	TDP
765		Auditing the system, including its documentation, against configuration management records.		ESSSYS_CM_P_1000_ESSCMProgram, Section 1.5, Auditing the System Against Configuration Management Records	TDP
766		Controlling interfaces to other systems.		ESSSYS_CM_P_1000_ESSCMProgram, Section 1.6, Controlling Interfaces to Other Systems	TDP
767		Identifying tools used to build and maintain the system.		ESSSYS_CM_P_1000_ESSCMProgram, Section 1.7, Identifying Tools Used to Build and Maintain the System	TDP
768	VI, 9.1.3	Application of Configuration Management Requirements			
769		Requirements for configuration management apply to all components of voting systems regardless of the specific technologies employed. These components include:	Vol. II, 2.11 TDP, Configuration Management Plan		
770		Software		ESSSYS_CM_P_1000_ESSCMProgram, Section 2.1.7.1, System Software/Firmware	TDP
771		Hardware		ESSSYS_CM_P_1000_ESSCMProgram, Section 2.1.7.2, System Hardware	TDP
772		Communications		ESSSYS_CM_P_1000_ESSCMProgram, Section 2.1.3, Communications	TDP
773		Documentation		ESSSYS_DOC_P_1000_TDProgram, 2.1.4, Documentation	TDP
774		Identification and naming and conventions (including changes to these conventions) for software programs and data files;		ESSSYS_CM_P_1000_ESSCMProgram, Section 4 Configuration Identification	TDP
775		Development and testing artifacts such as test data and scripts		ESSSYS_CM_P_1000_ESSCMProgram, Section 2.1.6 Development and Testing Artifacts	TDP
776		File archiving and data repositories.		ESSSYS_CM_P_1000_ESSCMProgram, Section 2.1.7, File Archiving and Data Repositories	TDP
777	VI, 9.2	Configuration Management Policy			
778		The vendor shall describe its policies for configuration management in the Technical Data Package. This description shall address the following elements:	Vol. II, 2.11.1 TDP, Configuration Management Plan, Configuration Management Policy; Vol. II, 7, 4,1 Configuration Management Policy		
779		Scope and nature of configuration management program activitie	s	ESSSYS_CM_P_1000_ESSCMProgram, Section I.1.1, Scope	TDP
		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 extent to which policies and practices of suppliers apply to particular components, subsystems or other defined system elements		ESSSYS_CM_P_1000_ESSCMProgram, Section 3.1, Breadth and Application	TDP
780					
781	VI, 9.3	Configuration Identification Configuration identification is the process of identifying, naming and acquiring configuration items. Configuration identification encompasses all system components.			
783	VI, 9.3.1	Structuring and Naming Configuration Items			
784		The vendor shall describe the procedures and conventions used to classify configuration items into categories and subcategories, uniquely number or otherwise identify items and name configuration items.	Vol. II, 2.11.2 TDP, Configuration Identification; Vol. II, 7.4.2 Configuration Identification	ESSSYS_CM_P_1000_ESSCMProgram, Section 4.1.1, Classification and Naming Conventions	TDP
785	VI, 9.3.2	Version Conventions			
786		When a system component is part of a higher level system element such as a subsystem, the vendor shall describe the conventions used to:	Vol. II, 2.11.2 TDP, Configuration Identification; Vol. II 7.4.2 Configuration Identification		
787	a.	Identify the specific versions of individual configuration items and sets of items that are used by the vendor to identify higher level system elements such as subsystems:		ESSSYS_CM_P_1000_ESSCMProgram, Section 4.1.2, Versioning Conventions	TDP
788	b.	Uniquely number or otherwise identify versions; and		ESSSYS_CM_P_1000_ESSCMProgram, Section 4.1.2.1, Unique Identifiers	TDP

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		c	Name versions.		ESSSYS CM P 1000 ESSCMProgram. Section 4.1.2.2. Version Naming Conventions	-
789		-			,	TDP
790		VI 94	Baseline and Promotion Procedures			
		,	The vendor shall establish formal procedures and conventions for	Vol. II. 2.11.3 TDP. Configuration Management		
			establishing and providing a complete description of the	Plan Baseline and Promotion: Vol. II. 7.4.3		
			procedures and related conventions used to:	Resolute Promotion and Domotion Procedures		
701			procedures and related conventions used to.	busenne, i romonon, una Demonon i roccuares		
731			Establish a particular instance of a component as the starting		CESSYS CM D 1000 ESSCMDroomen Section 5.4 Establishing Droingt Deceling	
702		a.	hosalina		ESSS15_CM_1_1000_ESSCMI logram, Section 5.4, Establishing Project Baselines	TDP
102		h	Promote subsequent instances of a component to baseline status		ESSEVS CM D 1000 ESSCMProgram Section 5.4.1 Baseline Promotion to VSTL Testing	
		0.	as development progresses through to completion of the initial		LSSS IS_CM_I_1000_LSSC MI logitum, Section 5.4.1, Dasenne Fromotion to VSTE Testing	
			completed version released to accredited test lab for qualification			TDP
703			testing: and			
135		c	Bromote subsequent instances of a component to baseline status		ESSSVS_CM_D_1000_ESSCMDroaram_Section 5.4.2_Component Maintanance until Patirement	
		c.	as the component is maintained throughout its life cycle until		ESSS15_CW_1_1000_ESSCW110gram, Section 5.4.2, Component Maintenance until Refrencent	
			sustam retirement (i.e., the system is no longer sold or maintaine			TDP
704			by the yandor)			
7.94		VI 0 5	Configuration Control Proceedings			
195		v1, 9.5	Configuration control is the process of approving and	Vol. II. 2.11.4 TDB. Configuration Management		
			configuration control is the process of approving and	Plan Carformation Control Providence		
			implementing changes to a configuration fiem to prevent	Vila, Configuration Control Procedures;		
			unautionized additions, changes of deletions. The vendor shall	vol. 11, 7.4.4 Configuration Control Procedures		
			establish such procedures and related conventions, providing a			
700			complete description of those procedures used to:			
796						
		a.	Develop and maintain internally developed items;		ESSSYS_CM_P_1000_ESSCMProgram, Section 6.4, Development and Maintenance of Internally Developed Items	TDP
797		-				
		b.	Acquire and maintain third-party items;		ESSSYS_CM_P_1000_ESSCMProgram, Section 6.5, Acquisition and Maintenance of Third Party Items	TDP
798						
		с.	Resolve internally identified defects for items regardless of their		ESSSYS_CM_P_1000_ESSCMProgram, Section 6.6, Resolving Internally Identified Defects	TDP
799			origin; and			
		d.	Resolve externally identified and reported defects (i.e., by		ESSSYS_CM_P_1000_ESSCMProgram, Section 6.7, Resolving Externally Identified and Reported Defects	TDP
800			customers and accredited test labs).			
801		VI, 9.6	Release Process			
			The release process is the means by which the vendor installs,	Vol. II, 2.11.5 TDP, Configuration Management		
			transfers, or migrates the system to the accredited test lab and,	Plan, Release Process;		
			eventually, to its customers. The vendor shall establish such	Vol. II, 7.4.5 Release Process		
			procedures and related conventions, providing a complete			
802			description of those used to:			
		a.	Perform a first release of the system to an accredited test lab;		ESSSYS_CM_P_1000_ESSCMProgram, Section 7.1, First Release to an Accredited Test Lab	TDP
803						
		b.	Perform a subsequent maintenance or upgrade release of the		ESSSYS_CM_P_1000_ESSCMProgram, Section 7.2, Maintenance or Upgrade Release to an Accredited Test Lab	
			system, or a particular components, to an accredited test lab;			TDP
804						
		с.	Perform the initial delivery and installation of the system to a		ESSSYS_CM_P_1000_ESSCMProgram, Section 7.3, Initial Installation and Deliver to a Customer	1
1. 1			customer, including confirmation that the installed version of the			TDP
805			system matches exactly the certified version			
]	[	d.	Perform a subsequent maintenance or upgrade release of the		ESSSYS_CM_P_1000_ESSCMProgram, Section 7.4, Maintenance or Upgrade Release to a Customer	
			system, or a particular component, to a customer, including			TDP
			confirmation that the installed version of the system matches			101
806			exactly the qualified system version.			l
807		VI, 9.7	Configuration Audits			
808		VI, 9.7.1	Configuration Audits, Physical Configuration Audit			
			The Physical Configuration Audit is conducted by the accredited	Vol. II, 2.11.6 TDP, Configuration Management		
			test lab to compare the voting system components submitted for	Plan, Configuration Audits;		
			certification to the vendor's technical documentation. For the	Vol. II, 6.6 System Integration Testing, Physical		
			PCA, a vendor shall provide:	Configuration Audit;		
809				Vol. II, 7.4.6 Configuration Audits		
	ľ	a.	Identification of all items that are to be a part of the software		ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.1, Identification of Items Included in the System	TDD
810			release			TDP
	Ī	b.	Specification of compiler (or choice of compilers) to be used to	see Vol. II, 2.5.5.2 Software Environment	ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.2, Specification of Compilers	ТГЪР
811			generate executable programs			IDr

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		с.	Identification of all hardware that interfaces with the software		ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.3, Identification of All Hardware Interfaces	TDD
812						IDP
813		d.	Configuration baseline data for all hardware that is unique to the system		ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.4, Baseline Configuration Data for All Unique Hardware	TDP
		e.	Copies of all software documentation intended for distribution to		ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.5, End User Documentation	
			users, including program listings, specifications, operations			
			manual, voter manual, and maintenance manual			TDP
814						
		f.	User acceptance test procedures and acceptance criteria		ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.6, User Acceptance Test Procedures and Criteria	TDP
815						151
		g.	Identification of any changes between the physical configuration		ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.7, Identification of Physical Changes Made Between PCA and FCA Systems	
			of the system submitted for the PCA and that submitted for the			TDP
016			FCA, with a certification that any differences do not degrade the			
010	-	h	Complete descriptions of its procedures and related conventions			
817			used to support this audit by:			
•			i. Establishing a configuration baseline of the software and		ESSSYS CM P 1000 ESSCMProgram, Section 8.1.8.1, Establishing a Configuration Baseline of the Software and Hardware	
818			hardware to be tested			TDP
			ii. Confirming whether the system documentation matches the		ESSSYS_CM_P_1000_ESSCMProgram, Section 8.1.8.2, Confirming that Documentation Matches System Components	TDD
819			corresponding system components			IDF
820		VI, 9.7.2	Configuration Audits, Functional Configuration Audit			
			The Functional Configuration Audit is conducted by the	Vol. II, 2.11.6 TDP, Configuration Management		
			accredited test lab to verify that the system performs all the	Plan, Configuration Audits;		
			functions described in the system documentation. The vendor	Vol. II, 6.7 System Integration Testing, Functional		
921			snaii:	Configuration Audit; Vol. II. 7.4.6 Configuration Audits		
021		2	Completely describe its procedures and related conventions used	vol. 11, 7.4.0 Conjiguration Aualis	ESSSVS_CM_P_1000_ESSCMProgram_Section 8.2.1_ECA Proceedures and Conventions	
822		a.	to support this audit for all system components		ESSS15_CM_1_1000_ESSCALLOGIAL, SECTOR 62.1, FCA Freedules and Conventions	TDP
823		b.	Provide the following information to support this audit:			
			i. Copies of all procedures used for module or unit testing,		ESSSYS_CM_P_1000_ESSCMProgram, Section 8.2.1, FCA Procedures and Conventions	
824			integration testing, and system testing		_	TDP
			ii. Copies of all test cases generated for each module and		ESSSYS_CM_P_1000_ESSCMProgram, Section 8.2.1, FCA Procedures and Conventions	
			integration test, and sample ballot formats or other test cases used			TDP
825			for system tests			
			<li>iii. Records of all tests performed by the procedures listed above</li>		ESSSYS_CM_P_1000_ESSCMProgram, Section 8.2.1, FCA Procedures and Conventions	TDP
826		VT 0.9	Including error corrections and retests			
021	-	v1, 9.8	Vandam may always the specific [automated] tools they use to	Vol. II. 2.11.7 TDB. Configuration Management		
			perform the record keeping, auditing, and reporting activities of	Plan Configuration Management Resources: VII		
			the configuration management standards. The resources	7.4.7 Configuration Management 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			
000			information about:			
828			Press (6 - to - 1 - rest of a rest of the		ESSEVE ON D 1000 ESSEVENTER Section 0.1 Tests Hard	
829		a.	Specific tools used, current version, and operating environment;		ESS515_UM_r_1000_ESSUMProgram, Section 9.1, 100is Used	TDP
		b.	Physical location of the tools, including designation of computer		ESSSYS_CM_P_1000_ESSCMProgram, Section 9.2, Tool Location	TDP
830			directories and files; and			101
		с.	Procedures and training materials for using the tools.		ESSSYS_CM_P_1000_ESSCMProgram, Section 9.2. Tool Location	TDP
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