VOLUNTARY VOTING SYSTEM GUIDELINES DOCUMENT COMPARE SECTION 7

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7 Quality Assurance <u>Requirements</u>	
7.1 Scope	Deleted: q
Quality Assurance provides continuous confirmation that a voting system conforms with the <u>Guidelines</u> and to the requirements of	Deleted: Standards
state and local jurisdictions. Quality Assurance is a vendor function with associated practices that is initiated prior to system	
development and continues throughout the maintenance life cycle of the voting system. Quality <u>assurance</u> focuses on building quality	Deleted:
into a system and reducing dependence on system tests at the end of the life cycle to detect deficiencies, thus helping ensure the	Deleted: Assurance
system:	
Meets stated requirements and objectives;	
Adheres to established standards and conventions;	
• Functions <u>consistently</u> with related components and meets dependencies for use within the jurisdiction; and	Deleted: consistent
• Reflects all changes approved during its initial development, internal testing, <u>national certification</u> , and, if applicable, <u>state</u>	Deleted: qualification
certification processes.	Deleted: additional
7.2 General Requirements	
The voting system vendor is responsible for designing and implementing a quality assurance program to ensure that the design,	
workmanship, and performance requirements of this standard are achieved in all delivered systems and components. At a minimum,	Deleted:
this program shall:	

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a. Include procedures for specifying, procuring, inspecting, accepting, and controlling parts and raw materials of the requisite	
quality;	
b. Require the documentation of the hardware and software development process;	
c. Identify and enforce all requirements for:	Deleted:
1) In-process inspection and testing that the manufacturer deems necessary to ensure proper fabrication and assembly of	
hardware, and	Deleted:
2) Installation and operation of software (including firmware).	
d. Include plans and procedures for post-production environmental screening and acceptance test; and e_Include a procedure for	Deleted: 4
maintaining all data and records required to document and verify the quality inspections and tests.	Deleted:
7.3 Components from Third Parties	
A vendor who does not manufacture all the components of its voting system, but instead procures components as standard commercial	Deleted: s
items for assembly and integration into a voting system, shall verify that the supplier vendors follow documented quality assurance	Deleted: should
procedures that are at least as stringent as those used internally by the voting system vendor.	
7.4 Responsibility for Tests The manufacturer or vendor shall be responsible for a Performing all quality assurance tests; b	Deleted: 4
Acquiring and documenting test data; and c. Providing test reports for review by the test lab, and to the purchaser upon request.	Deleted: q
7.5 Parts and Materials Special Tests and Examinations	Deleted: _
In order to ensure that voting system parts and materials function properly, vendors shall: a. Select parts and materials to be used	Deleted: 4
in voting systems and components according to their suitability for the intended application. Suitability may be determined by	Deleted: _
similarity of this application to existing standard practice, or by means of special tests;	Deleted: q
b. Design special tests, if needed, to evaluate the part or material under conditions accurately simulating the actual operating	Deleted:
environment; and c. Maintain the resulting test data as part of the quality assurance program documentation.	Deleted: ITA
7.6 Quality Conformance Inspections The vendor performs conformance inspections to ensure the overall quality of the voting	Deleted: &
system and components delivered to the <u>test lab</u> for testing and to the jurisdiction for implementation. To meet the conformance	Deleted: q
inspection requirements the vendor or manufacturer shall:	Deleted: q
a. Inspect and test each voting system or component to verify that it meets all inspection and test requirements for the system;	Deleted:
and	Deleted: 4
b. Deliver a record of tests, or a certificate of satisfactory completion, with each system or component.	Balata da yeu

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7.7

Documentation

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Vendors are required to produce documentation to support the development and formal testing of voting systems. To meet documentation requirements, vendors shall provide complete product documentation with each voting systems or components, as described Volume II, Section 2. This documentation shall:

a. Be sufficient to serve the needs of the test lab, voters, election officials, and maintenance technicians;

b. Be prepared and published in accordance with standard commercial practice for information technology and electronic and

b. Be prepared and published in accordance with standard <u>commercial</u> practice for information technology and electronic and mechanical equipment; and

- c. Consist, at a minimum, of the following:
- 1) System overview;
- 2) System functionality description;
- 3) System hardware specification;
- 4) Software design and specifications;
- 5) System security specification;
- 6) System test and verification specification;
- 7) System operations procedures;
- 8) System maintenance procedures;
- 9) Personnel deployment and training requirements;
- 10) Configuration management plan;
- 11) Quality assurance program; and
- 12) System change notes.

Deleted: Change Notes.

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