This Presentation

Update on EAC certification related activities.

– Current testing
– Certified systems
– New Certification Manual
## Current Systems Under Test

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Voting System (Name/Version)</th>
<th>Testing Application</th>
<th>Phase of Testing</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES&amp;S</td>
<td>EVS 5.4.0.0</td>
<td>2/16/15</td>
<td>Test Plan received by EAC 6/30/15</td>
</tr>
<tr>
<td>ES&amp;S</td>
<td>EVS 5.2.0.3</td>
<td>7/01/15</td>
<td>Test Plan approved. Test Report received.</td>
</tr>
</tbody>
</table>
Systems Certified by EAC in Past 12 Months

1. Election Systems and Software EVS 5.2.0.0 - Modification 07/02/14 -- Certificate of Conformance
2. Election Systems and Software EVS 5.0.1.0 - Modification 03/18/14 -- Certificate of Conformance
3. Election Systems and Software Unity 3.4.1.0 - Modification 04/04/14 -- Certificate of Conformance
4. Unisyn Voting Solutions OpenElect Ver. 1.3 - Modification 01/12/15 -- Certificate of Conformance
5. Hart InterCivic Verity Voting 1.0 - New 05/12/15 – Certificate of Conformance
7. MicroVote EMS 4.1 - Modification 07/16/15-- Certificate of Conformance

www.eac.gov
Test Readiness Review

- Used by the EAC to ensure that test and evaluation resources not committed to a voting system that is not ready for testing by a VSTL.

- TRR consists of VSTL checking:
  - TDP: (All elements present?)
  - System components: (Can system be physically configured per TDP?)
  - Preliminary source code review: (No less than 1% total LOC for each SW package)
  - Mark reading: (Can it reliably read a fully filled mark area if Op Scan system?)
  - Summary of COTS components
90 days of inactivity = termination of campaign

Deficiency criteria

- Metrics to determine if systems under test by a VSTL shall be removed from the program and returned to the manufacturer for further work and/or QA testing.
  - Metrics include:
    - Duration of time a system is in a VSTL for testing
    - Significant delays/inactivity during a test campaign
    - Type or significance of deficiencies found
    - Total number of deficiencies, excluding source code coding convention deficiencies
    - Defect Density Ratio
    - A maximum number of errors in each of four categories
• Software de minimis change
  – Under no circumstance shall a change be considered de minimis if it has reasonable and identifiable potential to impact the system’s performance and compliance with the VVSG.
  – As with HW de minimis changes, VSTL will review and make an engineering judgment followed by EAC review of change.
• Product advisory requirement
  – Manufacturers required to provide any technical bulletins or product advisories issued on EAC certified systems to the EAC within 24 hours of the time they are issued to jurisdictions.

• Technology testing agreement
  – Pen testing
  – Quality Assurance audit of manufacturer
Questions?

Brian Hancock
Director, Testing and Certification
bhancock@eac.gov