



ENGINEER CHANGE ORDER (ECO) ANALYSIS

Manufacturer: Election Systems & Software (ES&S)

System: EVS ExpressVote v1.0 and v2.1

ECO Number: ECO-1228

ECO Description: Update DC power cord of external power supply assembly.

Overview:

This ECO updates the DC power cord of the ExpressVote external power supply assembly. Per the manufacturer, the 16-gauge cable was produced with a special OD size of 6.5mm to accommodate the 4PIN DIN Connector. To meet the current UL requirement for a 160Watt power supply with 4PIN DIN Connector, the cable will be switched to UL 2464/18AWG/4C+E.

Systems Affected:

Federal: EVS 5.2.0.0, EVS 5.2.0.3, EVS 5.2.1.0, EVS 5.2.1.1, EVS 5.2.2.0, EVS 5.2.4.0, EVS 6.0.2.0, EVS 6.0.2.1, EVS 6.0.4.0, EVS 6.0.4.3, EVS 6.0.6.0, EVS 6.1.0.0, EVS 6.1.1.0, EVS 6.2.0.0, EVS 6.3.0.0, EVS 6.4.0.0, EVS 6.5.0.0
 State: EVS 5.2.0.1, EVS 5.2.4.1, EVS 5.2.4.2, EVS 5.3.0.0, EVS 5.3.0.3, EVS 5.3.1.0, EVS 5.3.2.0, EVS 5.3.2.1, EVS 5.3.3.0, EVS 5.3.4.0, EVS 5.3.4.1, EVS 5.5.0.1, EVS 5.5.0.2, EVS 5.5.0.3, EVS 6.0.1.0, EVS 6.0.4.2, EVS 6.0.5.0, EVS 6.0.5.1, EVS 6.0.7.0, EVS 6.3.0.2, EVS 6.4.1.0, EVS 6.5.1.1, FL EVS 4.5.0.0, Version 4 (Revision 4), FL EVS 4.5.3.0, Version 2 (Revision 3), Florida EVS 6.3.1.0, Version 1 (Revision 4), Florida EVS 6.5.1.0, Version 1, Illinois EVS 5300, EVS 6.5.2.0

Supporting Documentation:

ECO 1228 ORIGINAL (*ES&S Engineering Change Order*)
 EAC ECO Required Questions (*ECO Supplemental Information*)
 RE_ES&S (PO# 37837)35K (P_N_290-00063_MDS160T-P240-0618) Order Confirmation (*Manufacturer Notice*)
 Element Materials Technology Denver-Longmont Test Report TR-PUS58003060, Revision 0 (*Hardware Test Report*)

Engineering Recommendation:

Pro V&V performed a review of the submitted technical documentation and of the previous EAC test campaign results and determined the submitted modification required certain electrical hardware tests (Lightning Surge, EFT, Power Disturbance, and Conducted Immunity) to ensure the change did not adversely impact the functionality, performance, accessibility, usability, safety, or security of the components or system or alter the overall configuration of the certified systems. Element Materials Technology Denver-Longmont Test Report TR-PUS58003060, Revision 0, documenting successful electrical hardware testing is attached to this ECO analysis. Based on the documentation review, previous test campaign results, and successful completion of electrical hardware tests, Pro V&V recommends the ECO for approval with no additional testing required.

No change to firmware/software is required. Per ES&S, there is no impact to election official documentation.

Pro V&V evaluated this ECO under Section 3.3.3 COTS Replacement of the Voting System Testing and Certification VVSG Lifecycle Policy.

Engineering Analysis: Minor Change – No additional testing required

Reviewer:

Wendy Owens

Printed Name

Wendy Owens

Signature

06/04/2026

Date

Approver:

Michael Walker

Printed Name

Michael L. Walker

Signature

06/04/2026

Date