PRO V&V

ENGINEER CHANGE ORDER (ECO) ANALYSIS FORM

Manufacturer:	Dominion Voting Systems
System:	ImageCast X Prime
ECO Number:	100669
ECO Description:	Added RRC battery as an AVL replacement for the ICX Prime battery due to long lead times on the previously used Totex battery

Overview:
Added RRC 2054-2 battery as an AVL for the ICX Prime replacement battery due to long lead times on the previously used Totex U80510 battery. This battery will also be used by Avalue in new production of the ICX Prime unit (DVS PN 190-000056).
Products Affected: ImageCast X Prime
Added RRC 2054-2 battery as an AVL to the following DVS PNs:
DVS PN 117-000540 BACKUP BATTERY - ICX PRIME-B1R (ALUMINUM MODEL)
DVS PN 117-000531 BACKUP BATTERY – ICX PRIME – LITHIUM ION INSTALLED WITH BATTERY TRAY (2HRS)
The new battery has been tested for use with the following EAC certified Democracy Suite (D-Suite) systems:
5.5, 5.5-A, 5.5-B
The substitute model has been tested for use with the following state level D-Suite systems:
5.4, 5.4-E, 5.4-F, 5.4-NJ, 5.4-Complete, 5.6, 5.6-B, 5.7, 5.7-A, 5.10, 5.11, 5.12-LA, 5.12-NV, 5.12-A

Supporting Documentation:
ECO 100669 ICX Prime Battery AVL.pdf *(Dominion ECO)*
HID-21V-BTX-B1R new Battery reliability test report_20191105.pdf *(Reliability Test Report)*
ESD_HID-21V-1-201900805.pdf *(ESD Test Report)*
EMC_HID-21V-1-20190808.pdf *(EMC Test Report)*
RRC to Totex Comparison-Back.jpg, RRC to Totex Comparison-Front.jpg *(comparison photos)*
RRC2054-2-det-Batt-Spec-RevB.pdf, SP01774R01.pdf *(Product Datasheets)*
NTS ESD PR114380-4-2.pdf *(ESD Datasheet)*
NTS Power Disturbance PR114380-4-11.pdf *(Power Disturbance Data Sheet)*

Engineering Recommendation:
Technical Documentation Review and abbreviated electrical testing (Electrical Supply, ESD, and Power Disturbance) performed for recommendation. All tests were successfully completed. No additional testing required.

Engineering Analysis: No Additional Testing Required

Reviewer:	**Approver:**
Wendy Owens Printed Name	Michael L. Walker Printed Name
Wendy Owens Signature	*Michael L Walker* Signature
4/6/2020 Date	4/6/2020 Date