



ENGINEER CHANGE ORDER (ECO) ANALYSIS FORM

Manufacturer: Dominion Voting Systems

System: ImageCast Precinct 2 (ICP2)

ECO Number: 100819

ECO Description: Added new Fujitsu thermal printer MCU due to the previous Fujitsu MCU version being commercially unavailable

Overview:

On the ICP2 Printer Control Board (version 1V3) for the Fujitsu thermal printer, the previous Fujitsu MCU chip (FTP-628CU601) is no longer commercially available and is being replaced by Fujitsu's replacement MCU chip (FTP-628CU311) that is part of the ICP2 Printer Control Board (version 2V0). Testing has been performed to qualify the replacement is functionally and electrically compatible with the previous version. Please see the supporting documentation for details.

For the PCOS-330A (DVS PN 180-000017), this change will be included under Production Configuration Number "5".

Products Affected: ImageCast Precinct 2 (ICP2)

Per Dominion, this change will be used with the following EAC certified Democracy Suite (D-Suite) systems: 5.5-B, 5.5-C

Per Dominion, this change will be used with the following state certified Democracy Suite (D-Suite) systems: 5.5-BT, 5.5-CS, 5.6-B, 5.6-C, 5.6-D, 5.10, 5.10-A, 5.15

Supporting Documentation:

ECO 100819 ICP2 Printer MCU.pdf (*Dominion ECO*)

ECO 100819 ICP2 Interface Board Fujitsu 2V0 Change Summary v1.0.pdf (*Change Summary*)

ICP2_Fujitsu2V0_RadiatedEmissions-Horizontal.pdf

ICP2_Fujitsu2V0_RadiatedEmissions-Vertical.pdf

PCOS-330A ESD Test Report - Fujitsu Interface Board 2V0 - v1.1.pdf

ITR-PR152663-2 REV0 Immunity.pdf (*NTS EMI Test Report*)

ETR-PR152663-1 REV0 Emissions.pdf (*NTS EMI Test Report*)

Engineering Recommendation:

Technical Documentation Review, review of Dominion-provided results for Radiated Emissions testing, abbreviated functional testing performed by Pro V&V, and electrical hardware testing (Conducted Emissions, Electrostatic Disruption, Conducted RF Immunity, Electromagnetic Susceptibility, Electrical Fast Transient, Lightning Surge, Magnetic Fields Immunity, and Power Disturbance) performed at National Technical Systems (NTS) and overseen by Pro V&V were all utilized to make the recommendation. Based on testing performed, Pro V&V determined the changes did not adversely affect system reliability, functionality, capability, or operation. Pro V&V recommends adding the new Fujitsu thermal printer MCU as a replacement component, as it was verified the new printer MCU is comparable to current component in form fit, and function.

This recommendation is based on: (1) no updates or impacts to software versions, (2) no new components being introduced, and (3) no changes are being introduced that have a reasonable or identifiable potential to impact the system's performance and compliance with the applicable voting standard.

Engineering Analysis: No Additional Testing Required

Reviewer:

Wendy Owens

Printed Name

Wendy Owens

Signature

03/15/2022

Date

Approver:

Michael L. Walker

Printed Name

Michael L. Walker

Signature

03/15/2022

Date