

PRO V&V



ENGINEER CHANGE ORDER (ECO) ANALYSIS FORM

Manufacturer:	Dominion Voting Systems
System:	Democracy Suite (D-Suite)
ECO Number:	100459
ECO Description:	Added new power supply module for new ImageCast Evolution production to meet DoE Level VI requirements

Overview:

Products Affected: ImageCast Evolution (ICE)

Replaced FranMar FRA120-S18-4 (Level V) with FranMar STD-19063 (Level VI) power supply module on ImageCast Evolution BoM for new production. Per Dominion, this new power supply module can be used as a service replacement with all previously manufactured ImageCast Evolution units.

Add:
DVS PN 117-000536 SWITCHING POWER SUPPLY - 19V 6.3A (120W) LEVEL VI COMPLIANT

Remove:
DVS PN 117-001005 SWITCHING POWER SUPPLY - 19V 6.3A (120W) LEVEL V COMPLIANT

Supporting Documentation:

- ECO 100459 ICE Power Adapter (2018-04-12).pdf
- Efficiency-standards-for-external-power-supplies.pdf
- FRA120-S18-4 EL_V-117-001005.pdf & FranMar STD-19063 EL_VI.pdf (*Radiated Emissions reports*)
- FRA120-Syy-z_Electrical_Spec.pdf & STD-19063.pdf (*Data Sheets*)

Engineering Recommendation:

Technical documentation review performed to approve change. A comparison was performed of the manufacturer's data sheets and the Radiated Emission test results. Per the analysis, the new power supply is comparable in form, fit, and function to the original power supply with electrical specifications that meet or exceed the previous model; therefore, the system will not be adversely impacted by the modification. No additional testing required.

Engineering Analysis: De Minimis

Reviewer:

Wendy Owens
Printed Name

Wendy Owens
Signature

11/13/18
Date

Approver:

JACK COBB
Printed Name

Jack Cobb
Signature

11/13/18
Date