ENGINEER CHANGE ORDER (ECO) ANALYSIS FORM

Manufacturer:	Dominion Voting Systems
System:	Democracy Suite (D-Suite) ImageCast Evolution (ICE)
ECO Number:	100803
ECO Description:	Added new Apacer memory module part number as a replacement for the current Swissbit and Smart Modular memory modules, which are no longer commercially available.

Overview:

Added new Apacer Technology DDR2 SDRAM Memory Module (PN D32.0608DN.001) as a replacement for the current Swissbit memory module (PN SEU01G72T1BG1SA-30R) and the Smart Modular memory module (PN SH1287UD212852SJ) due to these parts no longer being commercially available for purchase. For the PCOS-410A unit production, the PCN will be incremented to 53.

Added Apacer Technology D32.0608DN.001 to the following DVS PN:
DVS PN 123-000595   MEMORY MODULE, DDR2 PC2-5300 1GB ECC 240PIN UDIMM

Products Affected: ImageCast Evolution (ICE)

The new memory module has been tested for use with the following EAC certified D-Suite systems: 5.5-B, 5.5-C

This change will also be used with the following state certified D-Suite systems: 5.4, 5.4-Complete, 5.10, 5.10-A

Supporting Documentation:
ECO 100803 ICE Memory Module.pdf *(Dominion ECO)*
D32.0608DN.001_DDR2_ECC_DIMM_5300-5_128x8_1GB_NTC_G.PDF *(New Apacer Datasheet)*
SH1287UD212852SJ.pdf *(Old Smart Modular Datasheet)*
dataSEU01G72T1BG1SA_1GB_Rev.1.0_RoHS.pdf *(Old Swissbit Datasheet)*
Apacer DDR2 Module D32.0608DN.001 - Engineering Qualification Test Report v1.1.pdf *(Dominion Test Report)*

Engineering Recommendation:
Technical Documentation Review performed for recommendation. Pro V&V determined testing performed by Dominion was sufficient for evaluation. Replacement component is comparable to current component in form fit, and function; therefore, modification should not adversely affect system reliability, functionality, capability, or operation.

Engineering Analysis: De Minimis – No Testing Required

Reviewer:	Approver:
Wendy Owens	*Michael L. Walker*
Printed Name	Printed Name
Wendy Owens	*Michael L. Walker*
Signature	Signature
1/18/2022	1/18/2022
Date	Date