



ENGINEER CHANGE ORDER (ECO) ANALYSIS FORM

Manufacturer: Unisyn
System: OpenElect Freedom Vote Scan (FVS)
ECO Number: 17059
ECO Description: FVS Ballot Diverter

Overview:

The current ballot diverter is made from flat plastic. The process of repeatedly adding the designed curvature was not perfected; therefore multiple vendors reported to Unisyn they were not able to reproduce it repeatedly. To eliminate the issue, Unisyn is implementing replacing the heat formed ABS plastic sheet part with a precision bent aluminum part that is more easily repeated during manufacturing and is an exact match to the designed plastic piece. It is a drop in part replacement with no other changes required to implement.

Products Affected: Freedom Vote Scan (FVS) , P/N 2003-10519

Parent P/N 2003-93282 Sub Assy, Ballot Diverter FVS:
Delete: P/N 8133-0071 Guide, Ballot Diverter, FVS
Add: P/N 8053-93325 Guide, Ballot Diverter, Aluminum, FVS

Supporting Documentation:

ECO 17059 Guide Ballot Diverter Aluminum.pdf (*Unisyn ECO*)
8133-00071 Rev A2 Guide Ballot Diverter FVS.pdf (*Current Part*)
8053-93325 Rev A Ballot Diverter Aluminum FVS.pdf (*Replacement Part*)
McMaster 87265K13.pdf (*Current Part Material*)
FVS_Aluminum piece_Scan_Test Jue29_June30_2022.xlsx (*Unisyn Test Cases*)

Engineering Recommendation:

Technical documentation review performed to approve change. Upon review of provided technical documentation, it was determined that the new ballot diverter should not negatively impact system functionality. Furthermore, due to the location of the diverter, the upgrade does not warrant a hardware evaluation. The replacement component will not adversely impact the certified systems; therefore, no testing is required.

Engineering Analysis: De Minimis

Reviewer:

Wendy Owens

Printed Name

Wendy Owens
Signature

07/06/2022

Date

Approver:

Michael L Walker

Printed Name

Michael L Walker
Signature

07/06/2022

Date