

8.4 FMEA Number - 03-2

- o Date 9-9-85
- o Revision - N/C
- o System - Audio
- o Assembly - Very Lightweight Headset (VLHS)
- o Part Number - SED16101291-305
- o Item Name - Interface Cable
- o Reference Designation - None
- o Quantity per Assembly - 1
- o Function - Transfer electrical power and signals between interface and transducers
- o Failure Mode - Fails to transfer audio signal; loss of microphone function
- o Failure Cause - Electrical wire failure (open or short circuit), Connector failure; Physical abuse or stress
- o Mission Phase - Orbit
- o Failure Effect on End Item - Loss of Communication
- o Failure Effect on Interface - None
- o Failure Effect on Mission - None
- o Failure Effect on Crew - None
- o Failure Effect on Vehicle - None
- o Failure Detection on Ground - Performance Test, Voice Test
- o Failure Detection during Flight - Voice Test
- o Correcting Action - Use spare VLHS, HMM, or LEH
- o Criticality (Hardware/Functional) - 3/1R
- o Time Required to take Corrective Action - Estimated 5 minutes
- o Time Available to take Corrective Action - Variable
- o Remarks/Hazards - The VLHS has proven to be a reliable communication device throughout the Shuttle Program. Spare units are flown for use in case of a failure, and two other means of communication (HMM and LEH) are also on board each mission.

S40210L
ATTACHMENT -
Page 6 of 9

Page 6
9/26/86
Rev. N/C