

8.2 FMEA Number - 02

- o Date - 9-9-86
- o Revision - N/C
- o System - Audio
- o Assembly - Very Lightweight Headset (VLHS)
- o Part Number - SED16101291-305
- o Item Name - Earphone
- o Reference Designation - None
- o Quantity per Assembly - 1
- o Function - Receives electrical signal and converts to audio signal
- o Failure Mode - Fails to convert electrical signal; loss of earphone module function
- o Failure Cause - Transducer or wiring failure; contamination, mechanical shock or transducer failure
- 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, HHM, 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 (HHM and LEH) are also on board each mission.

S40210L
ATTACHMENT -
Page 6 of 9

Page 4
9/26/86
Rev. N/C