\$402 to T ATTACHMENT -Page 25 of 34 .

SHUTTLE CRITICAL ITEMS LIST - ORSITER

SUBSYSTEM : EPD&C - ATCS/FCL FMEA NO 05-6WD-3001 -2 REV:06/10/88

VEHICLE

EFFECTIVITY:

ASSEMBLY :PANEL 017

:ME452-0102-7203

P/N RI P/N VINDOR:

QUANTITY :2 (TWO),

:ONE REQUIRED

CRIT. FUNC:

CRIT. HDW:

103

102 104

X X

PHASE(S): ₽Ĺ LOXOOX DO LS

PREPARED BY: DES

A BROWN M HOVE

J COURSEN

DES REL

QΕ

APPROVED BY: CI HON 6-6-88 9.0 Comes (3) 58

REDUNDANCY SCREEN: A-APPROVED BY (NASA):

SSM REL

OE Consulle Eroc som of h from the work

ITEM:

REL

QE

SWITCH, TOGGLE. FREON SIGNAL CONDITIONER.

FUNCTION:

PROVIDES POWER SWITCHING FROM AC BUS 2 OR AC BUS 3 TO FREON SIGNAL CONDITIONERS A AND B. 33V73A17S10,811

FAILURE MODE:

SHORT TO CASE (GROUND) (TWO CONTACTS)

CAUSE (S) :

PIECE PART STRUCTURAL FAILURE, MECHANICAL SHOCK, VIBRATION, CONTAMINATION, PROCESSING ANOMALY

EFFECT(S) ON:

- (A) SUBSYSTEM (B) INTERFACES (C) MISSION (D) CREW/VEHICLE
- (A) LOSS OF BOTH SIGNAL CONDITIONERS.
- (B) LOSS OF BOTH FREON COOLANT LOOP MEASUREMENTS.
- (C) ABORT DECISION FOR LOSS OF BOTH SETS OF MEASUREMENTS.
- (D) NO EFFECT

DISPOSITION & RATIONALE:

(A) DESIGN (B) TEST (C) INSPECTION (D) FAILURE HISTORY (E) OPERATIONAL USE

(A-D) DISPOSTION AND RATIONALE

REFER TO APPENDIX A, ITEM NO. 1 - TOGGLE SWITCH.

(B) GROUND TURNAROUND TEST

SWITCH AND FREON SIGNAL CONDITIONERS ARE VERIFIED PRIOR TO EACH FLIGHT.

(E) OPERATIONAL USE

EARLY END OF MISSION DUE TO THE INABILITY TO MONITOR STATUS OF FREON LOOPS.

05-6WD-8