

FAILURE MODES AND EFFECTS ANALYSIS PAGE 6 OF 6

REFERENCE DESIGNATOR:
 NAME/QUANTITY: Manual Valve-(1)
 DRAWING REFERENCE: SED46105222

PROJECT: Orbiter
 LRU NAME/QUANTITY: LBNPDS-(1)
 LRU PART NUMBER: SED46105885

SUBSYSTEM: LBNP
 EFFECTIVITY: All Orbiters

FAILURE MODE NUMBER LBNP-4		CRITICALITY 3/1R	FAILURE EFFECT	FAILURE DETECTION METHOD
FUNCTION Allows the LBNP tank to be pressurized to cabin pressure, (Manual control valve).			END ITEM LBNP chamber vacuum cannot be relieved after 3 other failures	FLIGHT 1. Unable to open valve 2. Pressure meter
FAILURE MODE AND CAUSE Unable to open Cause: 1. Defective Material 2. Binding 3. Contamination			MISSION Loss of DSO objective	GROUND Yes, EKG Measurement CORRECTIVE ACTION 1. Manually separate waist seal from crewmember 2. Disconnect any one of QD's #1-2
REDUNDANCY SCREENS A - PASS B - PASS C - PASS	REMAINING PATHS 1. Vent Solenoid Valve (First Failure) 2. Relief valve (Second Failure)		CREW/VEHICLE Possible crewmember injury if blood pressure and/or heart rate is reduced beyond acceptable limits.	REMARKS
MISSION PHASE	TIME TO EFFECT	TIME TO CORRECT		
ORBIT	SECONDS	SECONDS		

PREPARED BY:

REVISION: A

APP-LBNP - 4

SUPERSADING DATE: 11/89

DATE: 6/92