

TNEA  
END FAILURE MODE, EFFECT ANALYSIS

01/02/90 SUPERSEDES / /

ANALYST:

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Date: 04/10/90

NAME P/N QTY	FUNCTION	FAILURE MODE & CAUSES	MISSION PHASE	FAILURE EFFECT	FAILURE DETECTION FLIGHT/GROUND	TIME TO EFFECT/ ACTIONS	CRIT	REMARKS/ HAZARD	REF
PRIMARY OXYGEN PRESSURE SENSOR, (TEM 012 SV778528-1, SV778528-2 (1))	Measures the primary O2 bottle pressure. Pressure sensor range is 0-1100 psia.	112FW02: Erroneous output (full scale).  CAUSE: Open (electrical) in the resistive element electrical lead or connector on the ground lead.	PREEVA  EVA	END ITEM: Sensor output voltage will indicate a full scale pressure (1100 psia).  GFE INTERFACE: False indication of high tank pressure and low O2 consumption rate.  MISSION: None for single failure. Terminate EVA when periodic status check reveals high primary O2 pressure and over 100% O2 left. Failure of primary O2 supply would not result in loss of crew or vehicle.  CREW/VEHICLE: Possible loss of crewman with loss of SOP.	FLIGHT: Yes. CMS will tell crewman when SOP comes "ON" or can be detected during periodic status checks "O2 P 1100" and a E oxygen left greater than 10%.  GROUND: Yes. TEMU-2-001, Para. 7.3.3.2.1.1.19, Transducer and OCM Gage Calibration Check.	None.  TIME AVAILABLE: N/A  TIME REQUIRED: N/A	3/18  A-PASS B-PASS C-PASS	Redundant item for mission success is the oxygen supply. For mission success RIDS will allow ground personnel to monitor sensor data and alert crewman of failure.	None.

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