

01/02/90 SUPERSEDES / /

ANALYST:

NAME P/N QTY	FUNCTION	FAILURE MODE & CAUSES	MISSION PHASE	FAILURE EFFECT	FAILURE DETECTION FLIGHT/GROUND	TIME TO EFFECT/ ACTIONS	CRIT	REMARKS/ HAZARD	REF
O217 PRESSURE TRANSDUCER, 116H 114 ----- SV767700-2 (1)	Measures suit pressure (sensor range 0-8 psid).	114FNOZ: Falls high, (full scale).  CAUSE: Failure (open) in the resistive coil between the wiper and ground. Mechanical shock causing misalignment between the resistive element and the wiper. Failure in the linkage bearing surfaces which causes high friction.	PREEVA  EVA	END ITEM: False indication of high suit pressure.  GFE INTERFACE: The CMS displays "RLF V FAIL", "STOP DEPRESS".  MISSION: None for single failure. The 112 and 215 primary and secondary oxygen pressure sensors will confirm whether a 114 sensor or other component failure exists. Terminate EFA for subsequent failure of 112 or 215 sensor, or other oxygen system failure.  CREW/VEHICLE: None for single or double failure. Possible loss of crewman with subsequent loss of SOP.	FLIGHT: Yes.  1) CMS Message: RLF V FAIL STOP DEPRESS 2) Visual inspection of gage 311.  GROUND: See FEMU-R-001, Para 7.3.3.2.1.1.19, Transducer & OCM Gage Calibration Check.	None.  TIME AVAILABLE: N/A  TIME REQUIRED: N/A	5/1R  A-PASS B-PASS C-PASS	The redundant paths are the ventilation, pressurization components and the SOP. The CMS status display provides the capability to check the pressure sensor with the suit pressure gauge, continue EVA and periodically check 311 suit pressure reading as a crew workload.	None.