

DATE: March 25, 1988
REV: May 11, 1988

ACCEPTANCE RATIONALE

DESIGN: Review of assembly documents GW70-580790, GW70-582434, GO70-582435 has provided design data points to be complied with for acceptance rationale.

Design data points:

Proof pressure to 400+ psig helium for 3 min with no visible deformation. Leak check with He of each assembled joint shall show no signs of leakage for one minute. Max leakage is 1×10^{-4} SCC/sec @ 275 psig. Freon 114 compatibility at flow rate of 10,000 lbs/hr. Envelope of 57 to 110 psig for 12.5 to 60° (supply) fahrenheit (30-100° for return). Max operating pressure of 255 psig.

TEST:

PRE-OPERATIONAL: Per OMI V3517
Pressurization to operating pressures and no visible signs of leakage or deformation (110 psig at 12.5° to 100° F).

INSPECTION:

ASSEMBLY: Per GO70-582434 & 35, OMI V6F21
Acceptance test: Flex Hoses shall be examined for compliance with assembly drawings in material, dimensions, constructions and identification markings.

PRE-INSTALLATION: Per OMI V6F21; Examination of product: No loose or missing components, identification of tags, decals, plates and safety critical markings. Hardlines/flexhoses appear to be suitably clamped or wrapped so to prevent damage due to vibration or chafing. Current proof pressure identification on flexhoses. No age deterioration, loss of resiliency or cracks in non-metallic.

AGE LIFE: Per OMI S6013, the assembly is inspected annually for compliance to the material and assembly specifications.

OPERATION:

Continual monitoring of pressure gages on the freon servicing unit and supply system reduces potential of extended discharge of freon.

DETECTION: Visual detection of leaking gas.

CORRECTION:

Isolation of flex hose assembly and replacement is only option. Flex hoses are not field reparable.

FAILURE HISTORY: Review of FRACA Data Base has provided no failure history on items 40000-0500 or R500200CC-162-0390.