

GFE Electrical Components Feed Box D

Item	Serial Number
HTS Lead #1	09
HTS Lead#2	06
HTS Lead#3	15
HTS Lead#4	12
HTS Lead#5	13
HTS Lead#6	14
VCL Lead 600 AMP 1-6	3W0825B
VCL Lead 600 AMP 7-12	3W0825C
VCL Lead 600 AMP 13-14	3W0825D
VCL Lead 120 AMP 1-10	3W0825A
MQX1	25I448-7
MBX1	25I448-2
MQX2	02
MBX2	DH02

Feed Box D Data Package Per M989 Rev A

- LHe Tank
 - Heat log and CMTRs for LHe tank
 - Weld Filler Metal CMTR (2.1.1.1)
 - LHe tank radiographs. (2.1.1.2)
 - LHe tank dye penetrant report. (2.1.1.3)
 - Charpy Impact test reports (2.1.1.4)
 - Lead Chimney straightness. (2.1.4.1)
 - Lead Chimney bellows offset. (2.1.4.2 & 2.1.5.1)
 - LHe Tank, chimney photos (2.1.5.1)
 - MBX1 and MQX1 position (2.1.8). See Final Inspection Report.
 - Cold shock. (2.2.2.1)
 - Bus duct pressure test. (2.2.2.2)
 - Bus duct and LHe tank pressure test together. (2.2.2.3)
 - Leak check (2.2.2.5)
- Piping and Flex Hoses
 - Diameter and wall thickness (2.1.2)
 - Weld Filler Metal CMTR (2.1.2)
 - Piping assemblies free of obstruction (2.1.3)
 - Pipe Clearance (2.1.6)
 - Pipe Clearance Photos (2.1.6.1)
 - Cold shock. (2.2.1.1)
 - Pressure test. (2.2.1.2)
 - Leak check. (2.2.1.3)
- Top Plate Distortion (2.1.7.1)
- MQX2 and MBX2 Instrumentation Lines
 - Pressure test MQX2 (2.2.3.1)
 - Leak test MQX2 (2.2.3.2)
 - Pressure test MBX2 (2.2.3.1)
 - Leak test MBX2 (2.2.3.2)
- Electrical Tests (LHe tank open)
 - Continuity of busses and leads (2.3.1.1)
 - Continuity of power leads voltage taps (2.3.1.4)
- Electrical Tests (LHe tank closed)
 - Hipot in helium power leads and busses. (2.3.2.1)
- Electrical Tests MQX2 and MBX2
 - Continuity test MQX2 (2.3.3.1)
 - Continuity test MBX2 (2.3.3.1)

- Hipot in helium MQX2 (2.3.3.2)
- Hipot in helium MBX2 (2.3.3.2)
- Thermometer sensors
 - Electrical resistance of thermometer sensors. (2.3.1.2 & 2.3.4.1)
 - Thermometer sensors Hipot Test (2.3.4)
- Final Dimensional Inspections (3.1)
 - Position of Talyor Hobson "spheres" (3.1.1)
 - Roll angle of top plate tooling plate. (3.1.2)
 - Q3 flange and pipe positions. (3.1.3)
 - D1 flange and pipe positions. (3.1.4)
 - JC1 jumper flange and pipe positions (3.1.5)
 - JC2 jumper flange and pipe positions. (3.1.5)
- Final Leak Tests and Pressure Tests (3.2)
 - Vacuum Vessel Pressure Test (3.2.1)
 - Vacuum Vessel Leak Test (3.2.2)
 - Leak test of pressurized LHe tank and bus ducts and all other piping with helium to evacuated vacuum vessel. (3.2.3 & 3.2.4)
 - Back fill with nitrogen report. (3.3.1)
 - Ambient pressure and temperature report. (3.3.4)
- Material Reports
 - CMTRs and COCs for remaining material. (See G Box Data Package)
- Copy of final travelers.
- HTS Leads Installation Reports
- GFM Documents
 - HTS leads documentation (Fermi)
 - AMI leads documentation