

<b>Feed Box A 24C351 GFM Serial Numbers</b>		
<b>VCL Leads</b>	<b>SN</b>	
Lead 1-10	3W1118A	
Lead 1-6	3W1118B	
Lead 7-12	3W1118C	
Lead 13-14	3W1118D	
<b>HTS Leads</b>	<b>SN</b>	
1	19	
2	10	
3	30	
4	27	
<b>Bus Duct SN</b>		
251448-09		
<b>Beam Tube SN</b>		
25I5106-06		
<b>MQX2 SN</b>		
MQX2-05		
<b>Thermometers</b>	<b>SN</b>	
TT812	X17955	
TT819a	X17958	
TT819b	X17949	
TT831	X17957	
TT890	X17930	

Feed Box A 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)
  - 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 Instrumentation Lines
  - Pressure test MQX2 (2.2.3.1)
  - Leak test MQX2 (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)
  - Hipot in helium MQX2 (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