**Feed Status**

|  |  |
| --- | --- |
| Document last update | 2021-06-28 |
| Feed ser. num. (rev) | 5C4-005-A |
| Last worked on | 2015-10-20 |
| Antenna (previous/current) | 2A |
| Original build date | 2015-9-08 |
| Number of cooldown cycles | 2 (2016-02-04) |
|  |  |

**Critical Component Summary**

|  |  |
| --- | --- |
| ATA Feed  Control Board | S.N. 22a |
| Sunpower CryoTel GT  Cryocooler | S.N. GT15-14 |
| Sunpower GT Gen II  Cryo Controller | S.N. 50031064062 |
| Pfeiffer Hi Pace 80  Turbo Pump | S.N. 15532367 |
| Pfeiffer TC 110  Electronic Drive Unit | S.N. 79422352 |
| Pfeiffer MVP 006-4  Diaphragm Pump | S.N. 28370796 |
| H.S. Martin  Borosilicate Glass Radome | S.N. 008 |
| Pyramid | S.N. 005 |

**Retrofits**

|  |  |
| --- | --- |
| Temp S. Isolation | NA |
| New Wire Harness | NA |
| Bellow Removed | NA |
| Cryo Tuned | NA |
| Firmware 5.4 | NA |

**Vibration Measurements**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Before Tuning | Tuned | Re-tune #1 | Re-tune #2 | Re-tune #3 |
| X | NA | NA |  |  |  |
| Y | NA | NA |  |  |  |
| Z | NA | NA |  |  |  |

|  |  |
| --- | --- |
| **Chassis Up-Dates** | **Vac & Cryo Up-Dates** |
| 15 pin Hermetic Feedthur Filter | RTD Wire Routing |
| 48v Through Control Board | Buna-n O-Rings |
| Vibration System (Metal Flex) | Turbo Centering Ring w/Screen |
| Control Board 12v Jumper |  |
| Control Board Firmware 3.12 |  |
| Foreline/Valve Layout Change |  |
|  |  |
|  |  |
|  |  |

Sunpower SeonYoung.Kim 2014-03-06

The GT cooler will be on vacuum over the weekend before charge/purge, and then be charged with 99.9999% Helium next week. So I expect it to be shipped back to you next week.

**HISTORY**

2015-10-01 Chassis, Cooler vibration system up-date, Metal Flex bellows 347/304ss, cryo cooler, vacuum system, pax box & basic wire completed. Some sub-assemblies completed for Pyramid/LNA assembly. Dome is 008 typical 0.050 thick. X & Y poles Vg adjustments did not work. Error in cable FH17 at 8 pin quench connector Yel & Blk swapped 2 places. A correction was made at FH15 Dewar connector, pins 2 & 4 were swapped and pins 6 & 8 were swapped.

2015-10-23 Delivered to HC(2of3), installed on antenna 2A, 24+48v power supply up-dates added to Rim Box, all systems working properly.

2015-10-29 Feed Test Report sent to HC (Elin).