**Feed Status**

|  |  |
| --- | --- |
| Document last update | 2021-06-28 |
| Feed ser. num. (rev) | 5C4-008-A |
| Last worked on | 2018-08-01 |
| Antenna (previous/current) | 1G, 2M |
| Original build date | 2015-12-01 |
| Number of cooldown cycles | 4 (2018-07-31) |
|  |  |

**Critical Component Summary**

|  |  |
| --- | --- |
| ATA Feed  Control Board | S.N. 25a |
| Sunpower CryoTel GT  Cryocooler | S.N. GT15-97 |
| Sunpower GT Gen II  Cryo Controller | S.N. 50031064076 |
| Pfeiffer Hi Pace 80  Turbo Pump | S.N. 15862488 |
| Pfeiffer TC 110  Electronic Drive Unit | S.N. 74481644 |
| Pfeiffer MVP 006-4  Diaphragm Pump | S.N. ~~28405368~~  new # ? |
| H.S. Martin  Borosilicate Glass Radome | S.N. 007 |
| Pyramid | S.N. 008 |

**Retrofits**

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

**Vibration Measurements**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Before Tuning | Tuned | Re-tune #1 | Re-tune #2 | Re-tune #3 |
| X | 0.19 | 0.09 |  |  |  |
| Y | 0.05 | 0.04 |  |  |  |
| Z | 0.18 | 0.16 |  |  |  |

|  |  |
| --- | --- |
| **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 |  |
|  |  |
|  |  |
|  |  |

**HISTORY**

2015-12-(01-11) Rob A’s board latest software & 12v jumper (rev a on board sn),

Cooler vibration system, Metal Flex bellows 347/304ss, no vac gage, emi filter at hermetic d-sub, Buna-n O-rings at SS base plate & borosilicate glass installed. Noise test completed, very good results, vac good (9-10watts) & cryo good (65K, 168watts) (data saved), HC PAX set-up & installed.

2015-12-17 Delivered to HC (2of5), installed on antenna 1G, 24+48v power supply

up-dates added to Rim Box. Turbo, Cryo & LNAs working properly, Noise test preformed for X & Y (data saved).

2015-12-21 Feed Test Report sent to HC (Elin).

**-----------------------------------------------------------------------------------------------------------**

2018-07-31 HC Trip Rob S. Feeds has been off for 6 months, Vac system won’t start-up properly, Turbo starts but Diaphragm pump doesn’t, inspected, tried multiple start-ups with no success. Replaced Diaphragm pump, Diaphragm pump & Turbo started up correctly, Turbo reached 90k rpms at 17watts, Cryo cooler started & reached 65K at 220watts in 6-7 hrs. Foreline valve/system & 48v through Control board up-dated.

2018-08-01 Feed working properly & Elin has it back in the system.