**Feed Status**

|  |  |
| --- | --- |
| Document last update | 2021-06-28 |
| Feed ser. num. (rev) | 5C4-011-A |
| Last worked on | 2018-11-19 |
| Antenna (previous/current) | 3L, 2J |
| Original build date | 2015-12-01 |
| Number of cooldown cycles | 2 (2015-12-17) |
|  |  |

**Critical Component Summary**

|  |  |
| --- | --- |
| ATA Feed  Control Board | S.N. 5a |
| Sunpower CryoTel GT  Cryocooler | S.N. GT15-89 |
| Sunpower GT Gen II  Cryo Controller | S.N. 50031064064 |
| Pfeiffer Hi Pace 80  Turbo Pump | S.N. 15863638 |
| Pfeiffer TC 110  Electronic Drive Unit | S.N. 73063346 |
| Pfeiffer MVP 006-4  Diaphragm Pump | S.N. 28382508 |
| H.S. Martin  Borosilicate Glass Radome | S.N. 010 |
| Pyramid | S.N. 011 |

**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 | 0.24 | 0.07 |  |  |  |
| Y | 0.05 | 0.05 |  |  |  |
| Z | 0.19 | 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, 155watts) (data saved), HC PAX set-up & installed.

2015-12-17 Delivered to HC (5of5), installed on antenna 3L, 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).

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

2018-08-01 HC Trip Rob S., Feed has a loud Diaphragm pump but cooling to 65K/240watts, Vac 90k/16watts, ran out of time & parts, will replace the Diaphragm pump when we return in the fall to install new Feeds.

2018-11-(14-19) Jon Richards has taken a Diaphragm pump up to H.C. & replace the loud one in the Feed, vacuum & cryo are good, but to be on the safe side we will replace it, Diaphragm pump replaced, Feed working fine, Cryo 65K.