**Feed Status**

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| --- | --- |
| Document last update | 2019-01-07 |
| Feed ser. num. (rev) | 5C4-010-A |
| Last worked on | 2016-01-25 |
| Antenna (previous/current) | Ant. 2B |
| Original build date | 2015-12-01 |
| Number of cooldown cycles | 3(2016-02-04) |
|  |  |

**Critical Component Summary**

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| --- | --- |
| ATA Feed  Control Board | S.N. 24a |
| Sunpower CryoTel GT  Cryocooler | S.N. GT15-91 |
| Sunpower GT Gen II  Cryo Controller | S.N. 50031135058 |
| Pfeiffer Hi Pace 80  Turbo Pump | S.N. 15862518 |
| Pfeiffer TC 110  Electronic Drive Unit | S.N. 74482788 |
| Pfeiffer MVP 006-4  Diaphragm Pump | S.N. 28404545 |
| H.S. Martin  Borosilicate Glass Radome | S.N. 014 |

**LNA Summary**

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| X Pole LNF LNA | S.N. C-0028A |
| Biasing Minex | Vm -.50v / Vg .14v / Vd 1.20v / Id 25.2ma |
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| Y Pole LNF LNA | S.N. C-0041A |
| Biasing Minex | Vm -.50v / Vg .05v / Vd 1.20v / Id 25.4ma |

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| **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 |  |
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**HISTORY**

2015-12-(01-10) 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 up-date, Buna-n O-rings at SS base plate & borosilicate glass installed. Noise test completed, very good results, vac good (9-10watts) & cryo had to be set to 70K, if set at 65K cryo cooling would not stop when pump shutdown (data saved), HC PAX set-up & installed.

2015-12-17 Delivered to HC (4of5), installed on antenna 2B, 24+48v power supply up-dates added to Rim Box, X pole failed (data saved), removed from antenna to return to Minex.

2015-12-(21-22) Checked X & Y poles, hot load test with indication of broken input lead on X pole, photos show X pole input coax center conductor pull back up to 0.020" and break.

2015-12-29 Disassemble Dewar & remove Pyramid, remove LNA assy, examined LNA shows no issues.

2016-01-18 Replaced input coax assy, re-assembled Pyramid, installed Pyramid & Glass on Feed, started pumpdown & cooldown, all working properly.

2016-01-22 Noise test completed, both poles working very well, vac & cryo(70K) working properly (data saved).

2016-01-27 Delivered to HC (2of2), installed on antenna 2B. Turbo, Cryo & LNAs working properly, Noise test preformed for X & Y (data saved).

2016-02-04 Feed Test Report sent to HC (Elin).