

General Update

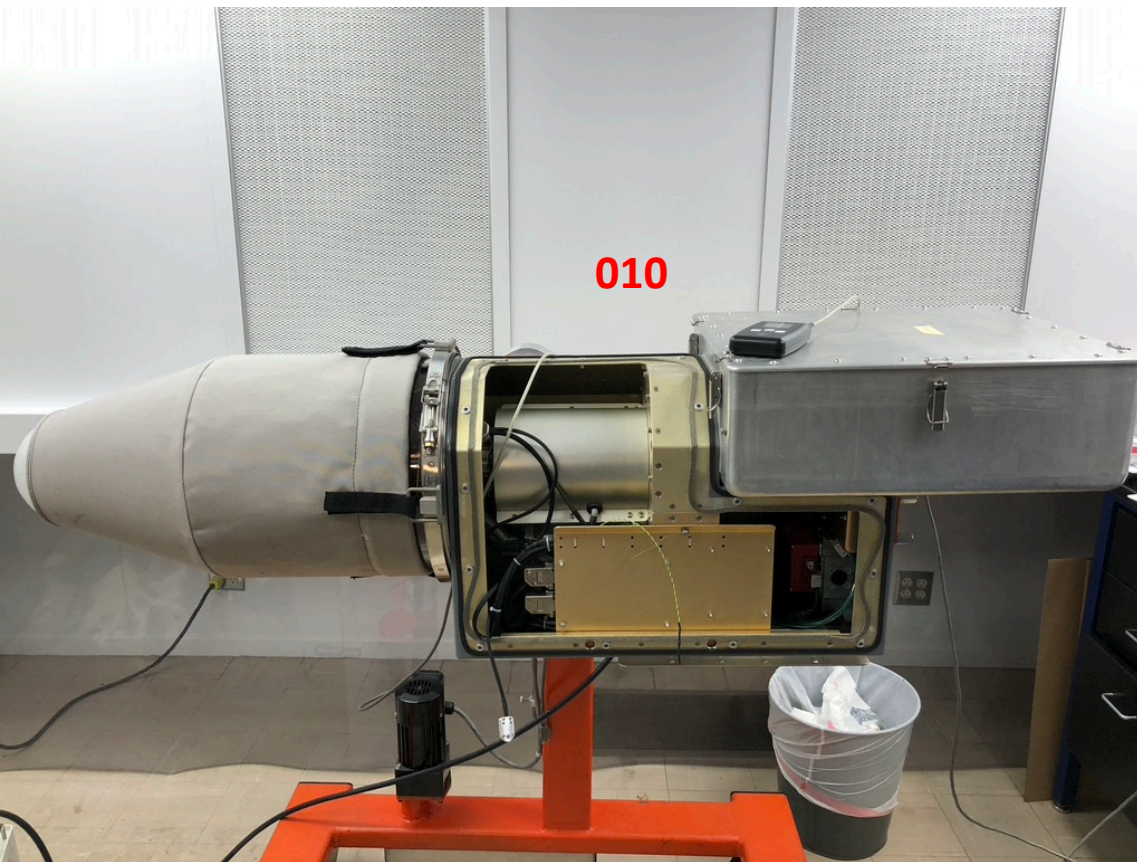
- SPR
 - Removal of legacy system
 - Replaced old PDUs
 - Electric panel work started
 - Planning of tone measurement of RFCBs
 - Planning of power measurement after RF 4-way splitter
 - Investigate IF ripples
- Observing Campaign
 - SETI-nodes OS INSTALLED
 - NVME buffer ready (74.14 Gbps)
 - Fixed problem with u.2 boot, 1/4
 - Change disk raid 5 to raid 0
- General update
 - LNF 6 spare LNAs ORDER PLACED
 - Components for RFSoc enclosure ordered ARRIVED
 - Will start assembling enclosure next week
 - Missing optocoupler PCB design
 - IF gain Control

Antonio Feed update

- Feeds
 - 004 installed on 2B
 - 020 installed on 3C
- Retrofit feed base:
 - started on second round of retrofits
- MINEX:
 - two more will follow
 - Waiting for quotes for:
 - 7 feeds (inner)
 - 2 new build (inner)
 - 4 glass domes

Feed List		Feed Revision Overview							
Number	Installed Ant.	Tip-Link: R03	Temp S. Isolation	New Harness	Bellow Removed	Cryo Tuned	Firmware 5.4	Gold-Plated	Preconditioned Coax
5C4-002	Minex								
5C4-003	Feed Lab (5B)		x	x	x	In Progress	x		
5C4-004	2B	x	x	x	x	x	x	x	x
5C4-005	2A								
5C4-006	4J	x	x	x	x	x	x	x	x
5C4-007	Minex								
5C4-008	Feed Lab (1G)	In Progress	x	x	x	x	x	x	In Progress
5C4-009	Feed Lab		In Progress	In Progress	In Progress				
5C4-010	Feed Lab	In Progress	x	x	x	x	x	x	Needs X-Pol LNA replacement
5C4-011	Feed Lab (3L)	In Progress	x	x	x	x	x	x	In Progress
5C4-012	1K	x	x	x	x	x	x	x	NA
5C4-013	1H	x	x	x	x	x	x	x	x
5C4-014	Feed Lab (2J)	In Progress	x	x	x	In Progress	In Progress	x	In Progress
5C4-015	Feed Lab		In Progress	In Progress	In Progress				
5C4-016	Feed Lab		In Progress	In Progress	In Progress				
5C4-017	Feed Lab		In Progress	In Progress	In Progress				
5C4-018	2H	x	x	x	x	x	x	x	NA
5C4-019	1C		x	x	x	x			
5C4-020	3C	x	x	x	x	x	x	x	x

Next round of retrofits



Parts missing for final build out

- Feed Base
 - 1 Glass Dome (quote for 4)
 - 6 diaphragm pumps
 - 15+ in need of service
 - New one \$2k
 - Pfeiffer service \$700 each
 - Minex service \$200 each
- 2 new build pyramids (20 total)
- 6 SS coax cables from LNA to base
- 3 48V power supplies to be installed at antennas (collected from Minex)
- 4 LNAs (6 ordered)
- UT-034-95 coax cable ordered (60ft)



AC requirements

- Existing cooling capacity:

• HVAC	10tons	35kW
• AC1	4tons	14kW
• AC2	4tons	14kW
		63kW

- Current heat load

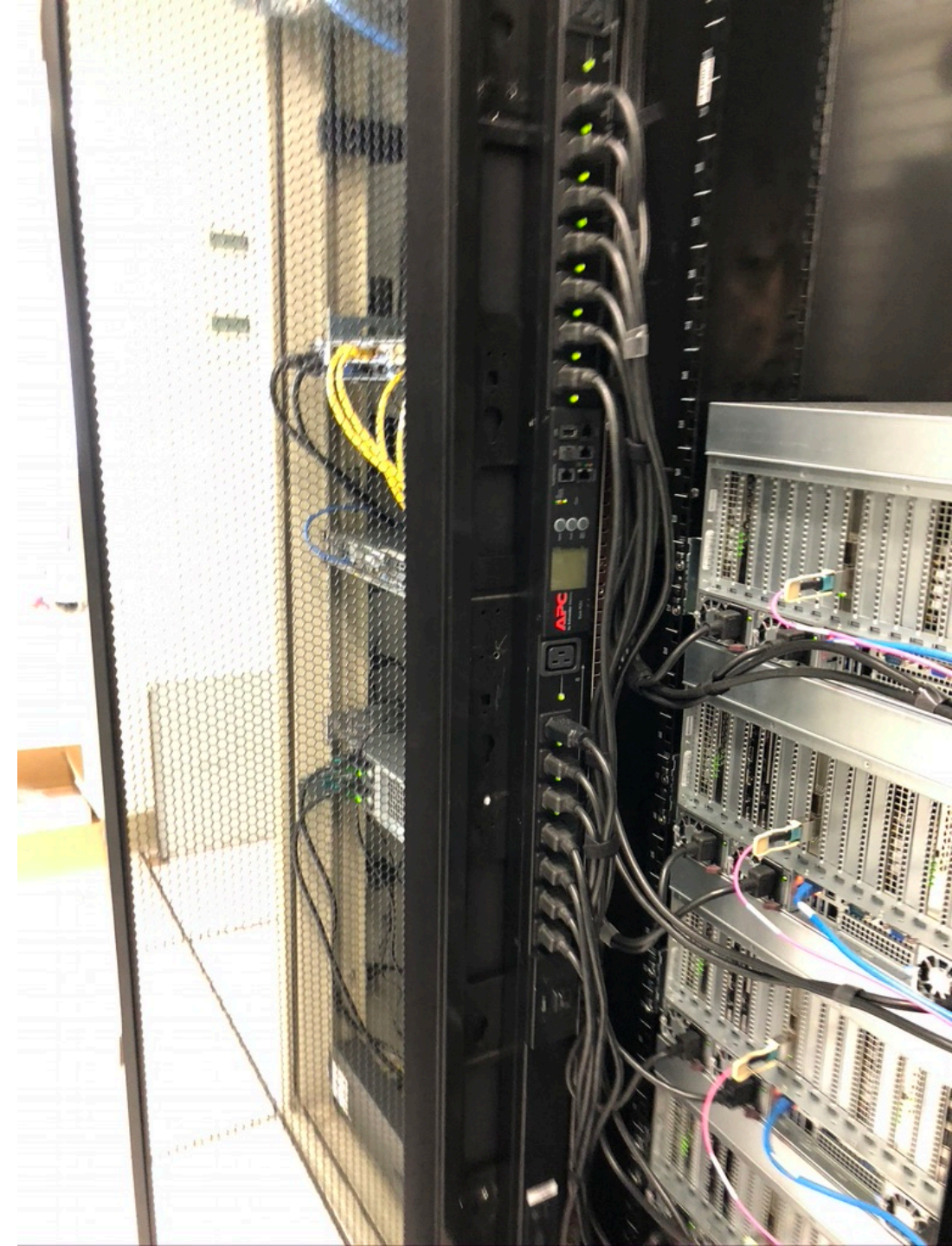
20kW
43kW

- Full build heat load

75kW
-12kW

Current heat load			
Device:			
LO Rack	1 total	1500 W	1.5 kW
FW Rack	1 total	2000 W	2 kW
RFCB Rack	1 total	1500 W	1.5 kW
Array Control	1 each	500 W	0.5 kW
FRB-nodes	6 each	600 W	3.6 kW
SETI-nodes	4 each	1300 W	5.2 kW
Storage-node	1 each	500 W	0.5 kW
Obs-node	1 each	600 W	0.6 kW
Gnu-Radio	2 each	600 W	1.2 kW
Simulation-node	1 each	500 W	0.5 kW
Other-nodes	4 each	250 W	1 kW
Network Switches	1 total	1000 W	1 kW
SNAP	12 each	50 W	0.6 kW
IF Gain Control	1 each	50 W	0.05 kW
			<u>19.75 kW</u>
			<u>43.55 kW</u>

PDU



SPR removal of old hardware !

