

# Antonio Feed update

## 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
    - More GPUs arrived
- General update
  - LNF 6 spare LNAs ORDER PLACED (expected in Feb.)
  - Components for RFSoC enclosure ordered ARRIVED
    - Enclosure done
    - Coaxial cables ordered
    - Missing optocoupler PCB design
    - IF gain Control
- Feeds
  - 5 feed bases ready for installation
- 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
- Other:
  - Quote arrived for 4 glass domes
  - Diaphragm pump repair
  - Updating Maps for HCRO

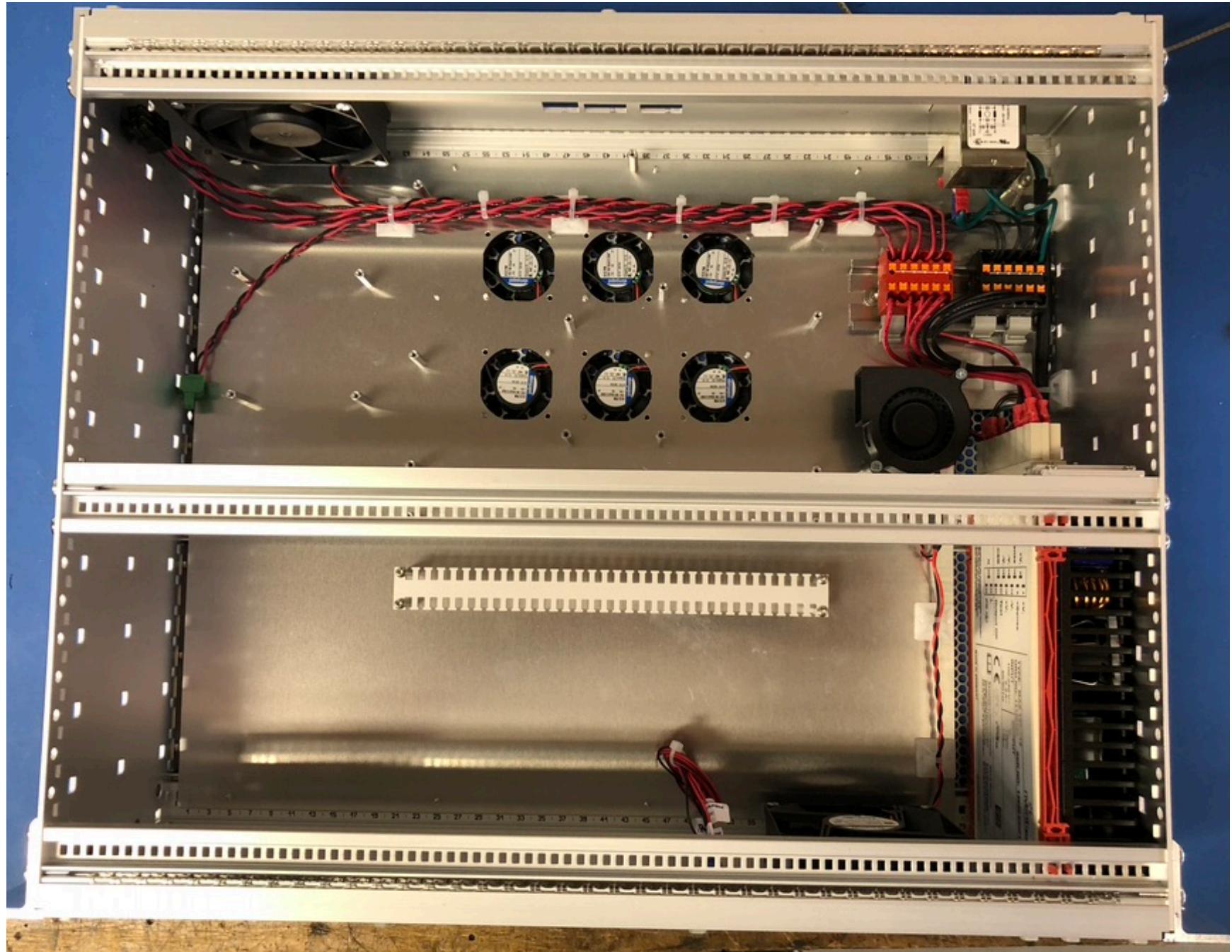


# RFSoC Enclosure



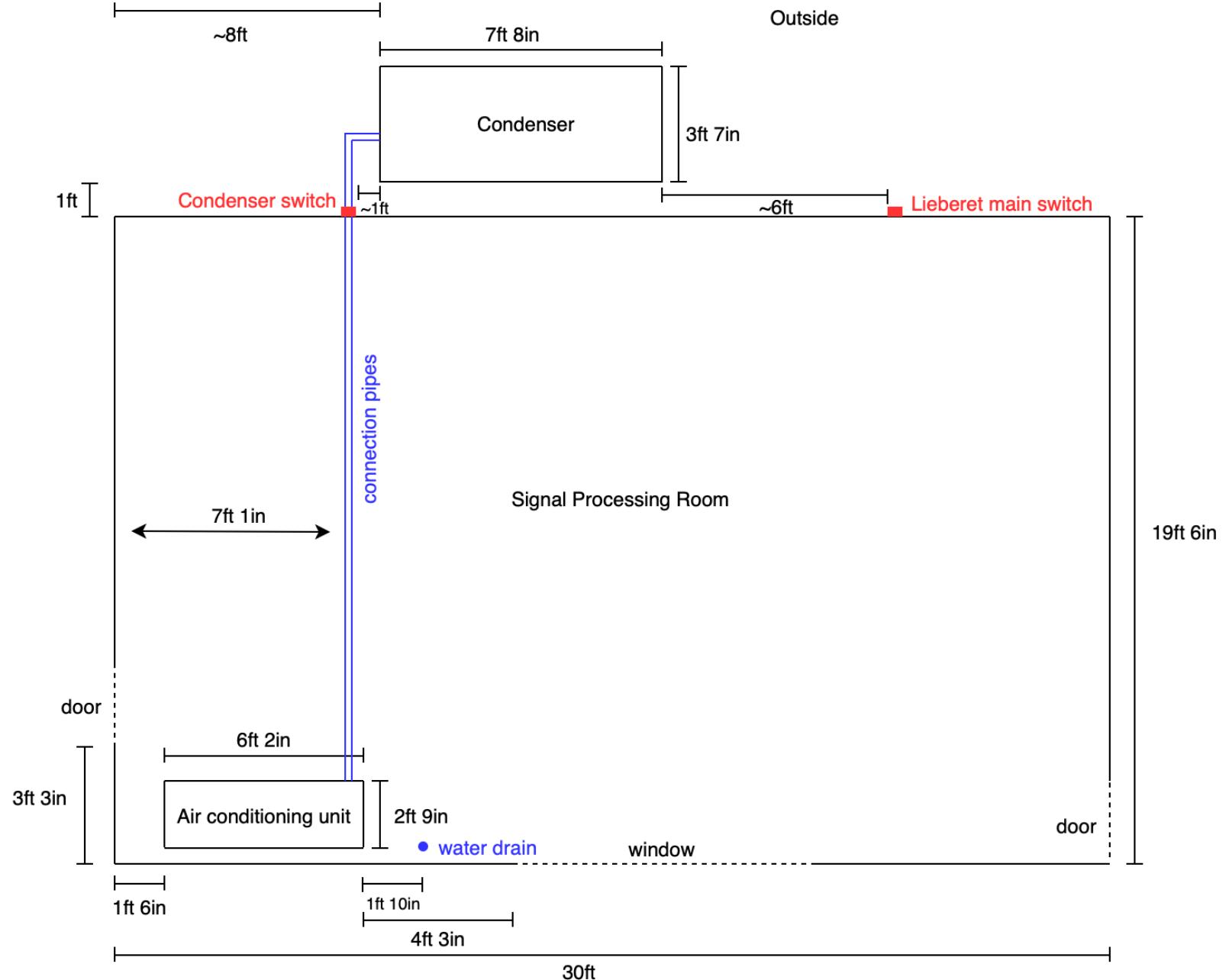
# RFSoC Enclosure

- Coaxial cables ordered
- Received delivery address from HTG



# SPR removal of old hardware !









# 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 \$600 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**

Device:	Current heat load			
	1 total	1500 W	1.5 kW	
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	
		<b>19.75 kW</b>		
		<b>43.55 kW</b>		

PDU

