

# General Update

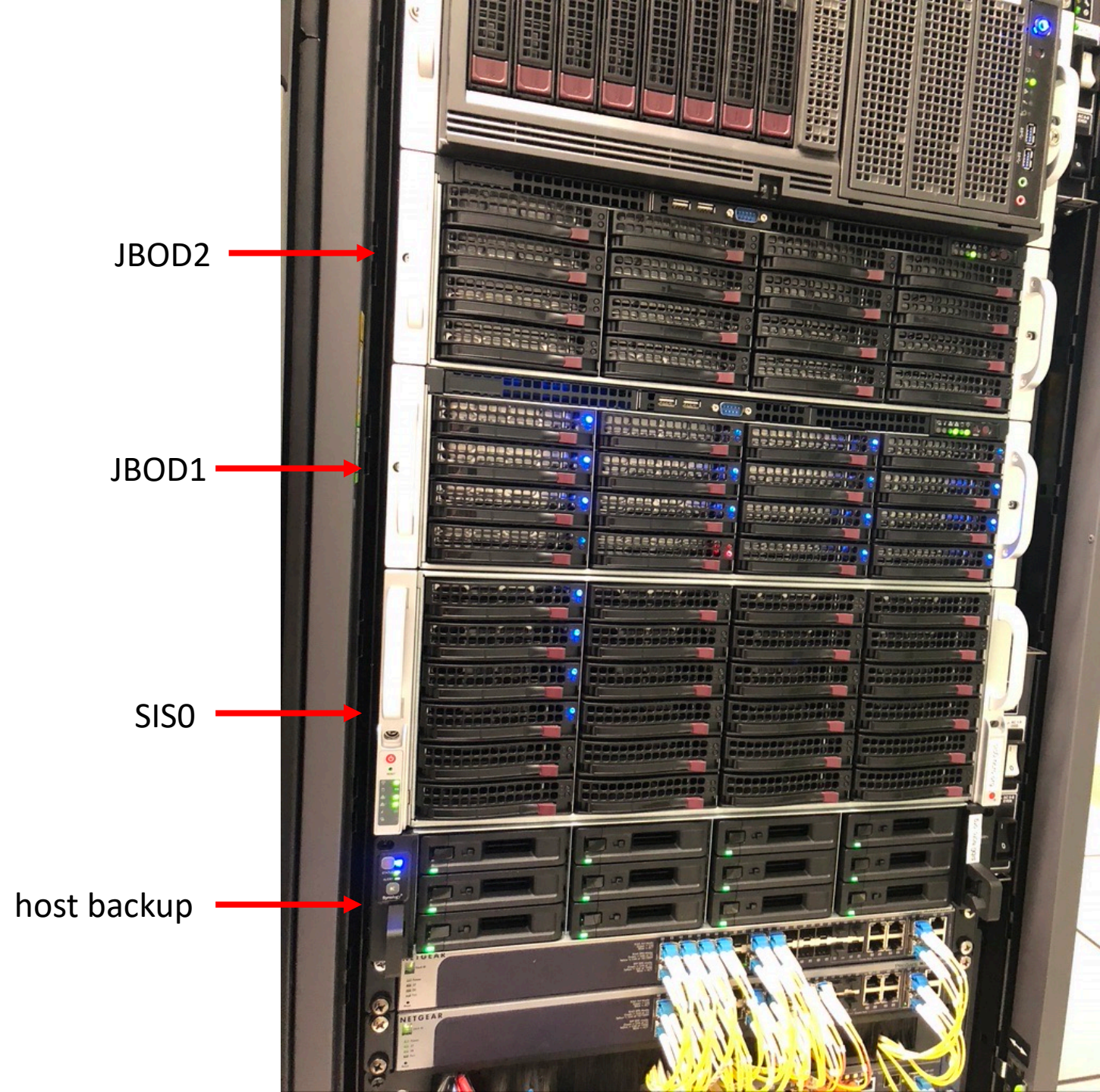
- SPR
  - AC replacement week of 16<sup>th</sup> of August
  - New Storage JBODs installed in rack
- Other
  - Array reboot
  - Antenna control box retrofit
  - Antenna drive box retrofit (spare parts)
  - Attenuator modules construction
  - Wire harness construction for Antonio Feeds
  - 12m antenna quote for pedestal
  - Weather Station PSU and monitor design
  - Documentation:
    - Uploaded memos to GitHub
    - In process of writing up Attenuator and RFSOC design
- Antonio Feed
  - PY-018 ready
  - PY-001 will be ready by Saturday
  - Update on open POs from Minex
- Last quote for LNAs is still missing

# JBOD extension:

- Installed 2 JBODs with 16x 16 TB drives
- Existing storage server has 36x 16TB drives
- Current configuration on SIS0:
  - 2x 200TB RAID6 with 2 hot spare each
- Planned configuration:
  - 1x 200TB RAID6 JBOD1
  - 1x 200TB RAID6 JBOD2
  - 2x 200TB RAID6 SIS0
  - 4x Global Hot Spare

## Tests done on RAID system:

- Power off JBOD while data transfer
- Removed SAS cable while data transfer
- Rebuild time with 400TB RAID, longer than 4 days



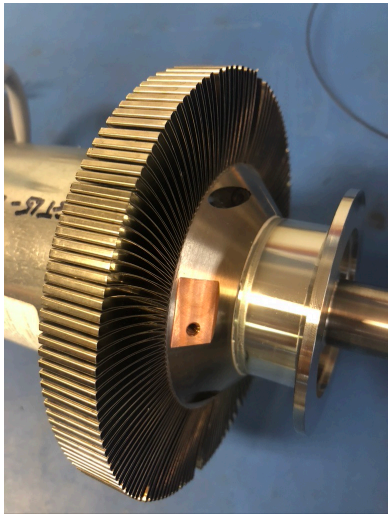
- Antonio Feed Overview
  - 21 Antennas fully operational
  - 17 / 19 Antonio Feeds

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
5C4-001	Feed Lab	x	x	x	x	x	x	x	x
<a href="#">5C4-002</a>	2H	x	x	x	x	x	x	x	x
<a href="#">5C4-003</a>	1G	x	x	x	x	x	x	x	x
<a href="#">5C4-004</a>	2B	x	x	x	x	x	x	x	x
<a href="#">5C4-005</a>	2A	NA	NA	NA	NA	NA	NA	NA	NA
<a href="#">5C4-006</a>	4J	x	x	x	x	x	x	x	x
5C4-007	3L	x	x	x	x	x	x	x	x
<a href="#">5C4-008</a>	2M	x	x	x	x	x	x	x	x
<a href="#">5C4-009</a>	Feed Lab		x	x	x	x	x		
<a href="#">5C4-010</a>	2C	x	x	x	x	x	x	x	x
<a href="#">5C4-011</a>	2J	x	x	x	x	x	x	x	x
<a href="#">5C4-012</a>	1K	x	x	x	x	x	x	x	NA
<a href="#">5C4-013</a>	1H	x	x	x	x	x	x	x	x
<a href="#">5C4-014</a>	2E	x	x	x	x	x	x	x	x
<a href="#">5C4-015</a>	1E	x	x	x	x	x	x	x	x
5C4-016	5B	x	x	x	x	x	x	x	x
<a href="#">5C4-017</a>	3D	x	x	x	x	x	x	x	x
5C4-018	Feed Lab	x	x	x	x	x	x	x	NA
<a href="#">5C4-019</a>	1C	NA	x	x	x	x	NA	NA	NA
<a href="#">5C4-020</a>	3C	x	x	x	x	x	x	x	x

# Antonio Feed:

- Minex outstanding POs overview:

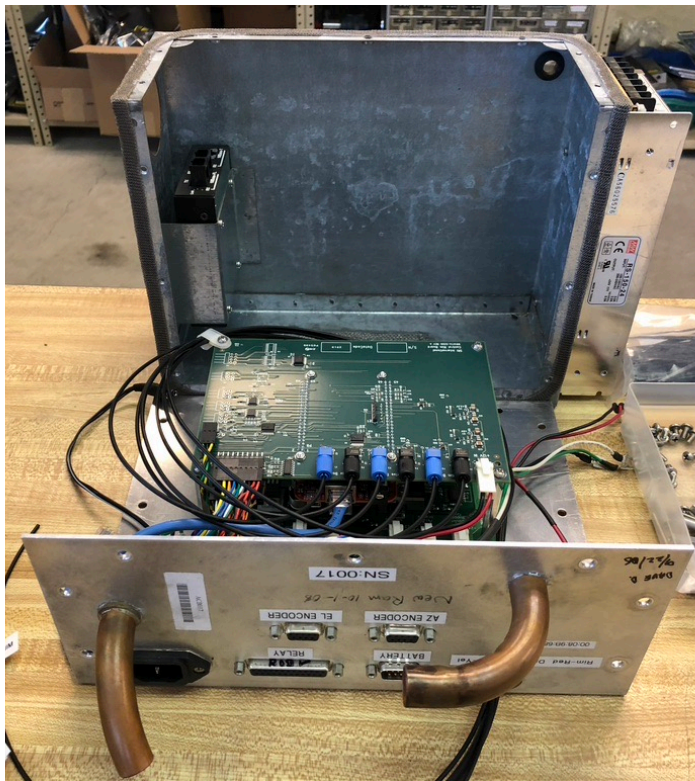
6	Each	Pyramid Assembly, solder up machined parts
24	Each	Arm Assembly, single arm (4 required per pyramid)
3	Each	Fabric Cover for Glass Dome
20	Each	Machine flat on cryo-cooler for temp. sensor mount
1	Each	Repair feed pyramid 018 and (001)





# Array Reboot:

- Reboot and recovery of all antennas took about half a day.
- Only old control boxes did not recover directly.
- Upgrading all Control boxes to new version, so there is only one design in the field.

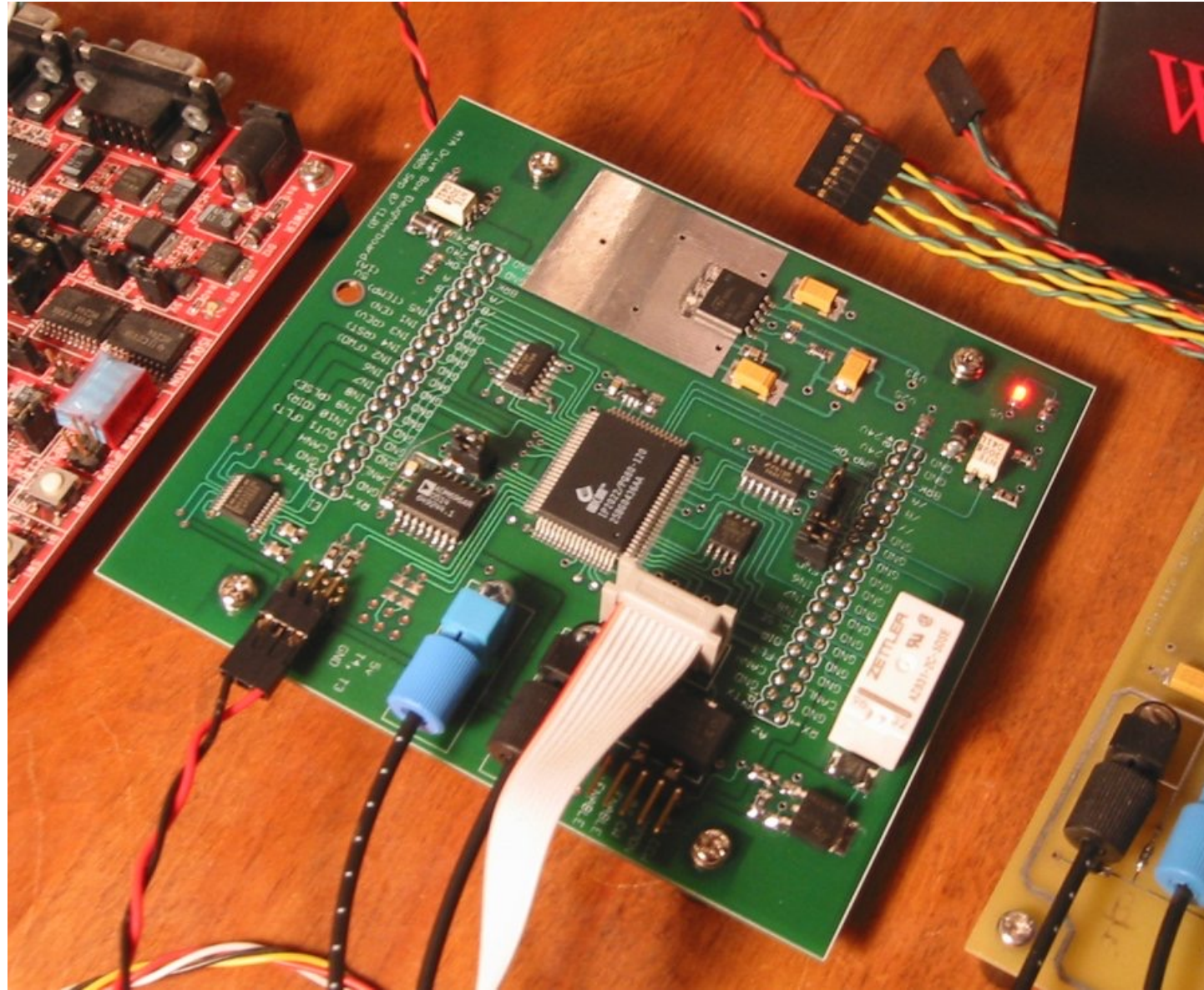


System	Status	Explanation			
ATA Syst...	Disarme...	(none): (none)			
Wind 10m Avg/30m Max/10m Avg Dir				Outside Temp	SPR T
04/08 mph 323.9 deg				27.6C/81F	0.0C/32F
Local		UT		LST	
5-Aug-21 11:33:31.592		2021-08-05T18:34:08.592Z		7.429	
Name	Status	Source	Pointing	Command	Error
ant0a	Down				
ant1a	Running	AzEl	0.00, 18.00	0.00, 18.00	0.000, 0.001
ant1b	Running	AzEl	180.00, 18.00	180.00, 18.00	-0.001, 0.001
ant1c	Running	AzEl	0.00, 18.00	0.00, 18.00	0.000, 0.000
ant1d	Running	AzEl	180.00, 18.00	180.00, 18.00	-0.003, -0.002
ant1e	Running	AzEl	180.00, 18.00	180.00, 18.00	0.000, -0.000
ant1f	Running	AzEl	-0.00, 18.00	0.00, 18.00	-0.000, 0.003
ant1g	Running	AzEl	180.00, 18.00	180.00, 18.00	0.000, -0.002
ant1h	Running	AzEl	0.00, 18.00	0.00, 18.00	0.000, -0.000
ant1j	Running	AzEl	180.00, 18.00	180.00, 18.00	0.000, 0.003
ant1k	Stopped	Stay put	14.88, 28.16	14.88, 28.16	0.000, 0.000
ant2a	Running	AzEl	-0.00, 18.00	0.00, 18.00	-0.000, -0.001
ant2b	Running	AzEl	0.00, 18.00	0.00, 18.00	0.000, 0.000
ant2c	Running	AzEl	180.00, 17.99	180.00, 18.00	0.002, -0.005
ant2d	Running				
ant2e	Running	AzEl	180.00, 18.00	180.00, 18.00	0.000, 0.001
ant2f	Running	AzEl	180.00, 18.00	180.00, 18.00	-0.000, -0.000
ant2g	Running	AzEl	179.99, 18.00	180.00, 18.00	-0.008, 0.001
ant2h	Running	Stay put	266.86, 16.53	266.86, 16.53	0.000, 0.000
ant2j	Running	AzEl	180.00, 18.00	180.00, 18.00	0.000, 0.001
ant2k	Running	AzEl	180.00, 18.00	180.00, 18.00	-0.001, -0.000
ant2l	Running	AzEl	180.00, 18.00	180.00, 18.00	-0.003, -0.003
ant2m	Running	AzEl	180.00, 18.00	180.00, 18.00	0.002, 0.003
ant3c	Running	AzEl	180.00, 18.00	180.00, 18.00	0.001, -0.003
ant3d	Running	Stay put	266.84, 29.10	266.84, 29.10	0.000, 0.000
ant3e	Running	AzEl	180.00, 18.00	180.00, 18.00	-0.000, -0.004
ant3f	Down				
ant3g	Down				
ant3h	Down				
ant3j	Running	AzEl	180.00, 18.00	180.00, 18.00	-0.003, -0.003
ant3l	Running	AzEl	180.00, 18.00	180.00, 18.00	-0.000, 0.000
ant4e	Running	AzEl	180.01, 14.88	180.00, 18.00	0.012, -3.115
ant4f	Running	AzEl	180.00, 17.77	180.00, 18.00	-0.002, -0.227
ant4g	Running	Stay put	266.84, 29.11	266.84, 29.11	0.000, 0.000
ant4h	Running	AzEl	180.00, 18.00	180.00, 18.00	-0.001, -0.001
ant4j	Running	AzEl	0.00, 18.00	0.00, 18.00	0.002, 0.001
ant4k	Running	AzEl	180.00, 18.00	180.00, 18.00	0.003, 0.000
ant4l	Running	AzEl	180.00, 18.00	180.00, 18.00	-0.003, 0.000
ant5b	Running	AzEl	180.00, 18.00	180.00, 18.00	0.003, 0.002
ant5c	Running	AzEl	0.00, 18.00	0.00, 18.00	0.002, 0.001
ant5e	Running	AzEl	180.00, 18.00	180.00, 18.00	-0.000, 0.002
ant5g	Running	AzEl	180.00, 18.00	180.00, 18.00	-0.002, -0.001
ant5h	Running	AzEl	180.00, 18.00	180.00, 18.00	-0.000, -0.001
Tuning A		Tuning B	Tuning C	Tuning D	
9120.0		8450.0	1500.0	1400.0	



## Drive Box:

- No complete source code available
- Easiest way moving forward would be to apply the same upgrade design to the drive box as has been done with the control box.
- Part list available and we need replacement servo drivers.





# 12m pedestal:

- 45 page proposal
- \$775k




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