

# SPOL Pulse

**6/29/15**

Connected the spare Mitch Switch controller to the Mitch Switch in the Transmitter container to verify that the spare Mitch Switch wasn't giving me a problem, the controller still has a hiccup once in awhile. Set it up back in the Tech Lab, container 8 and did some more testing and adjusting of the Servo Amp. Added an earth ground from the power input terminal block to the chassis, this seems to have stifled the hiccups.

**6/28/15**

The Annex AC unit was not putting out cold air, it seemed to be running but not cooling. Bob Bowie reset the GFCI on the plug and all seems to be fine now, when the GFCI trips on the AC plug it only disables one leg of the 220. The Annex is cool now.

**6/27/15**

**1530 hr**

SPOL is running fine.

Nagios complained at 0956 hr that the annex temperature was too high, Mike Dixon was at the site and said the temp was normal. He checked the log and found that the sensor went wacky for a couple of seconds, 300 deg. Other than that all is good.

I will be checking the spare Mitch Switch Controller tomorrow with the Mitch Switch in the Transmitter Container, not that I don't trust the spare Mitch Switch.

The elusive dead rodent smell in the SCC/Annex has been located and eradicated.

**6/26/15**

**1300 hr**

SPOL is looking fine this afternoon, Jim Moore visited the site and took photos from up on the catwalk. This will be used to understand the terrain and what the radar is seeing in ground clutter. The spare Mitch Switch repairs are still coming along, it hiccups once in a while. Can't determine what may be causing this yet, the hiccup is worse than the original failure.

**6/25/15**

SPOL is running fine tonight.

Bob Bowie changed the oil & filters for Source 2 Generator and is ready to go when Source 1 Generator has reached it's time for an oil & filter change.

Troubleshooting and repairs of the spare Mitch Switch controller is coming along, changed the servo amp and seems to be working with some fine tuning.

**6/24/15**

SPOL is still running great, no OPS tonight.

SPOL will be available for remote use.

Mitch Switch spare is still down, phase lock board is the likely suspect.

Source 2 Generator (outside) will get an oil change tomorrow.

**6/23/15**

SPOL is running great, ready for OPS tonight.  
Started troubleshooting spare Mitch Switch.

**6/22/15**

SPOL is running and on line.  
Ordered fuel delivery for 6/23/15 early A.M.  
Main Fuel tank ran dry, Bob switched over to the auxiliary fuel tank (in Generator Container).  
Purchased 20 gallons diesel to insure we get through the night for OPS.

**6/21/15**

**1145 hr**

Source 2 Generator (outside)  
Source 2 Generator still running on line.  
Outside temperature: 91 deg F  
Generator Temperature: 194 deg F under load.

**1230 hr**

Outside temperature: 96.6 deg F  
Generator Temperature: 197 deg F under load.  
Removed the 4 side doors from the generator.

**1300 hr**

Outside temperature: 94.5 deg F  
Generator Temperature: 192 deg F under load.

**1324 hr**

Outside temperature: 96.8 deg F  
Generator Temperature: 195 deg F under load.

**1405 hr**

Outside temperature: 98.6 deg F  
Generator Temperature: 199 deg F under load.

**1433 hr**

Outside temperature: 99.1 deg F  
Generator Temperature: 197 deg F under load.

**1545 hr**

Outside temperature: 99.7 deg F  
Generator Temperature: 201 deg F under load.

**1555 hr**

Set a Box Fan up in one of the doorways of the generator enclosure

**1630 hr**

Outside temperature: 100.8 deg F

Generator Temperature: 201 deg F under load.

**1730 hr**

Outside temperature: 100.6 deg F

Generator Temperature: 199 deg F under load.

**1900 hr**

Outside temperature: 98.1 deg F

Generator Temperature: 197 deg F under load.

**2020 hr**

Outside temperature: 92.1 deg F

Generator Temperature: 188 deg F under load.

**6/20/15****1335 hr**

Source 2 Generator (outside)

Nagios reported site power transfer to Source 1 Generator (Inside).

Went out to the radar site, outside temperatures were up to 104 deg F.

Source 2 generator event log showed a Coolant Over Temp Fault.

The generator had been off for approximately 2 hours and cooled down. Bob Bowie and I checked the coolant and oil in the generator and they looked good and at the proper levels. We started the generator and put it on line. After 10 minutes the temperature was up to 203 deg F, about 30 seconds later it shut down again, the temperature was 212 deg F.

We let Source 2 Generator sit until the outside temperature drops to 90 deg or less and check it out again. Radar running on Source 1 Generator.

**2100 hr**

Started up Source 2 Generator.

Outside temperature: 87 deg F

Generator Temperature: 114 deg F no load.

**2130 hr**

Transferred radar to Source 2 Generator.

**2145 hr**

Generator Temperature: 190 deg F under load.

**2232 hr**

Generator Temperature: 186 deg F under load.

Source 2 Generator keeping at nominal temperature range of 186 to 190 deg F.

**6/19/15**

**1700 hr**

**Mitch Switch**

The Mitch Switch would periodically breaks lock with the transmitters T0-6 signal. The switch was questionable and suspect, I hooked up the spare switch to confirm. The spare switch exhibited the same problem, the controller is the failing link. Tried adjusting the servo amp in the controller to get a stable lock but was not successful. Option B is to replace the Mitch Switch Controller with the spare, this corrected the problem and SPOL was ready just in time for the nights IOP.

I will be troubleshooting and repairing the Mitch Switch Controller starting next week, this will then be our spare, hope we will not have to use it.

**6/16/15**

Rebuilt the Weather Station stand and brought the Weather Station back online.