

S62 Rev137 Rings Occ

9/13/10

Ingreu & Greu

S62 Rev137

DSS-55, DSS-63, DSS-25, DSS-24

(1)

Ops Room: Aseel, Danny, John, Elias, Don  
1st shift

Essam

David R. on phone

DSN: Originally 15. S-band down. Switched to 24  
14 down for maintenance.

NOPE: Jack, Sandy (even)

Madrid weather: Cloudy. Calm wind. Kind of rainy

5s use PI (NOT LQG)

Model not updated (4th order)

Ingreu

Prdx: 1-way

1125 alt auto

1130 rec. enable

1135 Mitch & Jack called  
Mitch did phase noise  
test. Said X was good  
at DSS-24, but S was  
fluctuating. May not have  
good S @ 24.

fgain

63X	60	LCP	40
63S	50	LCP	30
55X	52		
55K	55		
25X	52		
25K	55		
24X	54		
24S	42		

114630 Asked 63 & 55 to enable SNT

1148 SNT meas.

63X	15.765
63S	16.963
55X	54.6
55Ka	38.1

1149 Asked NCPG. SS X SNT higher than Ka. Not usual. Any idea? → No. It's a function of few things.. Which LNA

114930 Asked stations to disable SNT

1150 55 asking if they should disable X SNT then re-enable

⇒ OK (No change)

1153 Told 63 we see S-band signal (115217) then X (115321 open) open then told 55 Ka

1155 55 & 63 in lock (closed-loop)

1200 Pc/No

63XR	52.37	63XL	16.25
63SR	42.73	63SL	11.12
55XR	47.7		
55Ka	46.7		

1202 SS mon. enable ... Drive antenna off point

120220 Asked SS to disable .. signal level low

120230 Asked to clear offsets .. Any idea why signal dropped? ⇒ will est maintenance



1205 NOPE asking if he should  
 have SS Censcan on X then  
 enable monopulse  
 ⇒ how long?  
 ⇒ 3 cycles .. 6 mins  
 ⇒ OK

~~120708~~ Start Censcan on X

121222 SS completed Censcan 3 cycles  
 Nope suggested leaving Censcan offsets,  
 configure for monopulse, then  
 enable on right receiver (7)  
 SS said technicians suggested to put  
 7 mdeg offset first before enabling  
 monopulse

⇒ OK with what SS want to do

1214 SS Did test calibrated phase, ready for mon  
 ⇒ go ahead. Can u repeat what u did?  
 ⇒ put offset to modify Tan Value  
 mon. warning.. no imp. in Power, Signal level  
 lower than what we started w/ @ bees.

1219 Told NOPE 63 X not looking good & SS is more stable.

1220 NOPE said sees closed-loop is u2dB.  
 ⇒ But also fluctuating

1222 Told NOPE SS ka not looking good. want to clear (try  
 1222 SS disable mon., clear offsets, clear  
 Censcan offsets, then enable mon. again

122320 Man. enabled again  
fluctuations @ Ka-band. Ceased by  
manopulse?

Discussing w/ David whether to keep man.  
or not.

1236 Told SS seeing a lot of flux. w/ man.  
enabled. Try w/o man. & clear offsets

1237 Man disabled, offsets clear  
w 1 dB down

1239 Asked SS to enter manual offset  
-5 mdeg in cross EL  $\Rightarrow$  Nope!

124030 Asked SS to reverse the sign  
+5 mdeg in cross EL  $\Rightarrow$  Not good!

124130 Asked SS to clear offsets, re-enable Man.

1247 Asked SS to disable man. & clear  
offsets  $\Rightarrow$  Bad Ka

Signal a little better .. SNR improving  
Problem partly due to weather.



DRs we requested

a/3  
862 Rev137

③

M105931 63 DR for fluctuating  
x-band signal levels

M105932 55 DR for manipulse

Didn't appear to be working properly  
Lu said 55 do their own cal & not  
on-point phase cal so they input an  
offset. Will try to schedule cal.

1546 NOPE asking 55 to put x-ray band  
in open-loop mode so that values  
continue to record in NMC log.

160530 Asked 55 & 63 to enable SNT

1607 SNT measurement

63X 16.724

63S 18.654

55X 55.5

55Ka 36.8

Playback Ingress: 1130-1610

# Eggers

DSS 25 & 24

Weather clear & calm

DSS-25 4th order pointing model updated

Problem quitting RSR (were used by mitch).

Eventually, Mitch rebooted them & RSRs (1A & 2A) lost the fictitious login name (name assigned when first login). Even though Mitch logged out after his 24 test, RSR didn't quit.

184730 Asked 25 & 24 to enable SNT

1848 SNT measurement

25X 24.968

25Ka 61.944

24X 31.3

24S 52.8

184937 RSR3B S-band alt auto (needed one)

1925 alt auto

1930 Start rec

1955 24 1/L on X & S

19520 25 1/L

2016 25 put X in open-loop mode

9/3  
Sb2 Rev137  
④

2100 P<sub>c</sub>/N<sub>0</sub>

25X	48.04
25Ka	47.85
24X	47.05
24S	34.15

212800 Mon. enabled  
w. 4 dB improvement

Playback 1830-2200

2155 Asked stations to enable SNT

2158 SNT meas.

25X	$\frac{32.651}{60.644}$
25Ka	59.463
24X	29.5
24S	37.3

Goodbye Rings!  
See you in 2012