July 12, 2001

KST UHF operation memorandam for July 9-10 BY S. Nozawa
Experiment name: SP-NI-TG2 (cp1lt_tg2_ni)
Elan files: cp1lt_tg2_ni.elan, cp1lk_tg2_ni.elan, cp1ls_tg2_ni.elan
Directory: /kst/exp/cp1lt_tg2_ni (cp1lk_tg2_ni , cp1ls_tg2_ni)
Pulse scheme: cp1lt
Start time: 10:00 UT on July 9, 2001
End time: 12:15 UT on July 10, 2001
Participants: Satonoti Nozawa, Sawako Maeda (PI), Seiko Imaida
(ESR openration has been conducted by Yasunobu Ogawa)

Before our experiment: Nothing
We made a test from 7 UT to 9 UT on the same day, and found that
the receiver (or related matarials) were problematic.

After our experiment: Nothing

Note: (time in UT)

July 9
10:00 START without Kiruna: Kiruna has a problem with "polarizer"
1.2 MW -> 1.6 MW -> 1.2 MW
10:15 Antenna position is wrong: due to EROS bug
(After "stopexp" we need to logout EROS and restart EROS at any sites used.)
10:18 Tromso recovered
10:46 Sodankyla recovered

***** Failue due to "high power reflector" occured OFTEN *****

11:58 Transmitter failure: Kind of "safety lock":it takes 10 minutes to get the transmitter on
-12:14 1.6 MW

12:30 Tx down (means failue of transmitter occurred:usuall due to high reflected power)
12:43 Tx down
Tx = 1.2 MW
13:16 Tx down

13:39 Kiruna recovered (some time before)

14:14, 15:52, 16:04, 16:07, 16:17, 16:27, 16:53 Tx down
16:56 sod setclockdely (but, nothing happened)
17:03, 17:11, 18:22, 18:58, 19:13, 19:33, 19:48, 19:58 Tx down

20:07 Tx down and Power down to 1.1 MW
20:13 System stopped due to high room temperature (in antenna ?): it was above 40 deg !

20:25 RECOVERED
20:57 Tx down
1.8MW

July 10

0:07, 00:11-00:13, 00:27-00:30, Tx down
1.5 MW
00:42-00:46 Tx down
00:46 1.3MW

01:31 sod antenna position was strange:not followed by the command
AZACU 308.02 ELACU 18.01 <--- pointing
AZCOM 341.49 ELCOM 18.02 <--- command

This kind of "problem" occurred when tromso pointing north AND south, but NOT always.

01:32- 01:37 Txdown

02:07 Tx down
02:23- 02:33 Tx down: a electric board was changed ?
02:45, 02:50, 03:06 Tx down

03:46 sod Az got strange:
AZACU 308.02 ELACU 48.32 <--- pointing
AZCOM 243.60 ELCOM 35.11 <--- command

04:33 sod Az got strange
05:08 sod Az got strange

05:38, 06:07 Tx down
06:50 sodankyla Az got strange
07:06, 07:14, 08:05, 08:09, 08:43, 09:44 Tx down
1.6 MW ?
10:09, 10:11, 10:16, 10:22 Tx down

11:04 Connection with Kiruna down (they closed the connection due to thunderstorm ?)
11:55 I phoned Kiruna and confirmed Kiruna was running
12:07 Connection with Kiruna recorved

12:15 Tromso antenna got a problem. Serious!!!!!
During movement from FA to North
Observation is stopped

12:30 END

Summary:
Transmitter failue occured so often. So, we reduced the power and made experiment with 1.2 MW.
Very often we got no-spectra view with rtg at remote. I am not sure if this is a problem with data or just display (rtg), but it seems like a problem of "clockdelay" ?
