JPL020A
RR JGTS ANBE LRID JOCC JFTL JMCT
DE JJPL 020A
04/1902Z (CORRECTED COPY)
FM JFTL/MPSETD
TO JGTS/STADIR/STAOPS
ANBE/STADIR/STAOPS
INFO LRID/STADIR/STAOPS
JOCC/CCOSPVR/OPSSVR/OPSCHF/MGNTRK/NATTRK/S BETHEL(NDC)
JFTL/OEASCOE/OEAOPS/MPMULTI/SYSRS/SYSTRK
JMCT/MGN ACE/J M STEWART/W HENRY/B COMPTON
DLD/A BERMAN/J HODDER/G WINN/J COVATE/A SALAZAR/S ASMAR/G GONZALEZ

CORRECTED COPY 1 (ADDS THE UWV INFO)

SUBJECT: BRIEFING MESSAGE FOR MAGELLAN RADIO SCIENCE ACTIVITIES SCHEDULED FOR DSS14 AND DSS43 ON DOY 279 PASS NR 1617.

PURPOSE: TO PROVIDE REQUIREMENTS AND CONFIGURATIONS FOR THE UPCOMING MAGELLAN BISTATIC RADAR EXPERIMENT.

INFORMATION: ON DOY 279 MAGELLAN PROJECT WILL CONDUCT A BISTATIC RADIO SCIENCE EXPERIMENT. A SPECIFIC TARGET ON THE SURFACE OF VENUS HAS BEEN CHOSEN TO BE ILLUMINATED BY THE S/C. S AND X BAND SIGNALS WILL BE POINTED AT THIS TARGET AND REFLECTED TO EARTH. THESE REFLECTED SIGNALS WILL BE RECEIVED ON EARTH BY THE OPEN-LOOP RECEIVERS AND RECORDED AT THE DSP. THERE WILL BE NO TLM, TRK OR MON REQUIREMENTS FROM EITHER DSS14 OR DSS43.

BELOW ARE THE START AND STOP TIMES FOR THE DSP RECORDINGS* AND THE CONFIGURATION REQUIREMENTS FOR THE DSP AND SSI. THE CONFIGURATION WILL BE THE SAME FOR BOTH DSS14 AND DSS43. INCLUDED BELOW ARE SOME SPECIFIC INSTRUCTIONS RE THE MICROWAVE CONFIGURATION.

AT RACK 1930/UWV-069 PLEASE CONNECT THE FOLLOWING:

S-BAND CONFIGURATION

AT THE "RECEIVER MODE CONTROL PANEL";
1) CONNECT THE SPD S-RCP TWM TO THE VLBI/RS DOWNCONVERTER (UPPER ROW OF SWITCHES).
2) CONNECT THE MOD III S-LCP TWM TO THE VLBI/RS DOWNCONVERTER (LOWER ROW OF SWITCHES)

X-BAND CONFIGURATION

AT THE "XRO CONE CONTROL PANEL"
1) CONNECT THE XRO1 AND XRO2 TO XRCP AND XLCP TWMS AND VLBI/RS DOWN CONVERTERS.

ATTENUATION SETTINGS SHOULD BE SUCH THAT OUTPUT IS 1 VOLT RMS.