

## INTERFERENCE STUDY

THE PROPOSED FACILITY PROVIDES CONTOUR PROTECTION TO ALL EXISTING STATIONS WITH THE EXCEPTION OF FACILITY ID 72529 (CHANNEL 263). THIS STATION IS THIRD ADJACENT TO THE PROPOSED TRANSLATOR. A U/D STUDY WILL SHOW THAT NO INTERFERENCE WILL BE CAUSED TO THIS STATION.

THE SIGNAL STRENGTH OF FACILITY ID 72529 AT THE PROPOSED SITE IS MORE THAN 76 DBU (SEE U/D MAP AT TX). USING A U/D RATIO OF 40 DB FOR SECOND/THIRD ADJACENT PROTECTION, THE 116 CONTOUR OF THE PROPOSAL WAS STUDIED.

DUE TO ANTENNA HEIGHT ABOVE GROUND (0.126 KM), THIS PROPOSAL FULLY PROTECTS FACILITY ID 72529. ATTACHED IS FREESPACE INTERFERENCE STUDY USING THE FREESPACE FORMULA FOR CALCULATING DISTANCE TO CONTOURS. THE SIGNAL STRENGTH AT THE GROUND IS ONLY 112.23 DB.

FROM THE STUDY IT CAN BE CONCLUDED THAT NOWHERE ON THE GROUND DOES THE SIGNAL EXCEED 116 DBU. BECAUSE THE INTERFERENCE IS ENTIRELY ABOVE GROUND, NO POPULATION AFFECTED BY THIS PROPOSAL.

THIS APPLICATION THEREFORE FULLY MEETS THE REQUIREMENTS OF 74.1204(D) FOR A NO-INTERFERENCE SHOWING.