

ALLOCATION STUDY

THE PROPOSED FACILITY PROVIDES CONTOUR PROTECTION TO ALL EXISTING STATIONS WITH THE EXCEPTION OF FACILITY ID 1089 (CHANNEL 258) AND FACILITY ID 25448 (CHANNEL 254). BOTH OF THESE STATIONS ARE SECOND OR THIRD ADJACENT TO THE PROPOSED TRANSLATOR. A U/D STUDY WILL SHOW THAT NO INTERFERENCE WILL BE CAUSED TO EITHER OF THESE STATIONS.

THE SIGNAL STRENGTH OF FACILITY ID 1089 AT THE PROPOSED SITE IS MORE THAN 100 DBU WHILE THE SIGNAL STRENGTH OF FACILITY ID 25448 AT THE SITE IS MORE THAN 96 DBU. USING A U/D RATIO OF 40 DB FOR SECOND/THIRD ADJACENT PROTECTION, THE 140 AND 136 DBU CONTOURS OF THE PROPOSAL WERE STUDIED.

DUE TO ANTENNA HEIGHT ABOVE GROUND (0.291 KM), THIS PROPOSAL FULLY PROTECTS BOTH FACILITY ID 59592 AND FACILITY ID 9618. USING THE FREESPACE FORMULA FOR 88 WATTS AND AN ANTENNA HEIGHT OF 291 METERS THE SIGNAL STRENGTH AT THE GROUND IS ONLY 98.975 DBU.

FROM THE STUDY IT CAN BE CONCLUDED THAT NOWHERE ON THE GROUND DOES THE SIGNAL EXCEED 140 DBU OR 136 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.

NOTE: THE PROPOSAL PROTECTS CANADA BY KEEPING THE 34 DBU FROM TOUCHING CANADIAN SOIL. NO CONCURRENCE IS REQUIRED.