

**EXHIBIT 24**  
**CONTOUR PROTECTION WITH CANANEA, SONORA, MEXICO**  
**KCDX CHANNEL 276C**  
**FLORENCE, ARIZONA**

The proposed facility is fully spaced to all domestic allocations and facilities; however, with regards to the allocations and facilities in Mexico, the proposed facility is short spaced with the allocation of Channel 276B at Cananea, Sonora, Mexico; however, the US/Mexican Treaty allows for such short spaced proposals as long as equivalent protection is afforded. Attached as EXHIBIT 24A is an engineering study, conducted pursuant to the procedures in the US/Mexican Treaty, demonstrating that equivalent protection is provided, with respect to the Mexican allocation, by the limitation of the proposed facilities for KCDX in the direction of the Mexican allocation. With respect to the allocation of 276B at Cananea, the KCDX facility would be limited to an ERP of 1.89 KW at 541.5 meters HAAT on the 162.4 degree radial.

While the proposed facility is fully spaced to all domestic allocations and facilities, a directional antenna is proposed in order to limit the station's power in the direction the Mexican allotment at Cananea. The proposed antenna system has a 17 db null on the 162.4 degree radial which is in full accordance with Section 1.4 of the US/Mexican Treaty which allows for such a such a maximum to minimum ratio where the "terrain may present a problem due to signal reflections". This is clearly the case here. The proposed KCDX transmitter site is located just north of the Santa Catalina Mountains whose highest peak is 2820 meters. With its radiating center at only 1712 meters, sending any significant power toward these mountains will cause massive signal reflections which would seriously degrade the received signal within the authorized KCDX coverage area. To demonstrate the problem, a profile graph of the 162.4 degree radial is attached as EXHIBIT 24B

**EXHIBIT 24A**  
**CONTOUR PROTECTION WITH CANANEA, SONORA, MEXICO**  
**KCDX CHANNEL 276C**  
**FLORENCE, ARIZONA**

**PROPOSED FACILITY**

COMMUNITY : FLORENCE, ARIZONA  
CHANNEL : 276  
CALL : KCDX-FM  
CLASS : C  
INTERNATIONAL : C  
COORDINATES : 32-46-44 110-57-46  
RADIATING CENTER : 11712 M RCAMSL(614 M HAAT)  
AZIMUTH TO PROTECTED FACILITY: 162.4 DEGREES  
STANDARD RADIALS : 135 HAAT: 508.6 M  
: 180 HAAT: 562.7 M  
INTERPOLATED : 162.4 HAAT: 541.5 M  
RESTRICTED POWER : 1.89 KW ON 162.4 DEGREES @541.5 HAAT  
INTERFERING CONTOUR : 34 DBU (50,10)  
**DISTANCE TO INTERFERING CONTOUR: 143.8 KM**

**PROTECTED ALLOCATION AT CANANEA, SONORA, MEXICO**

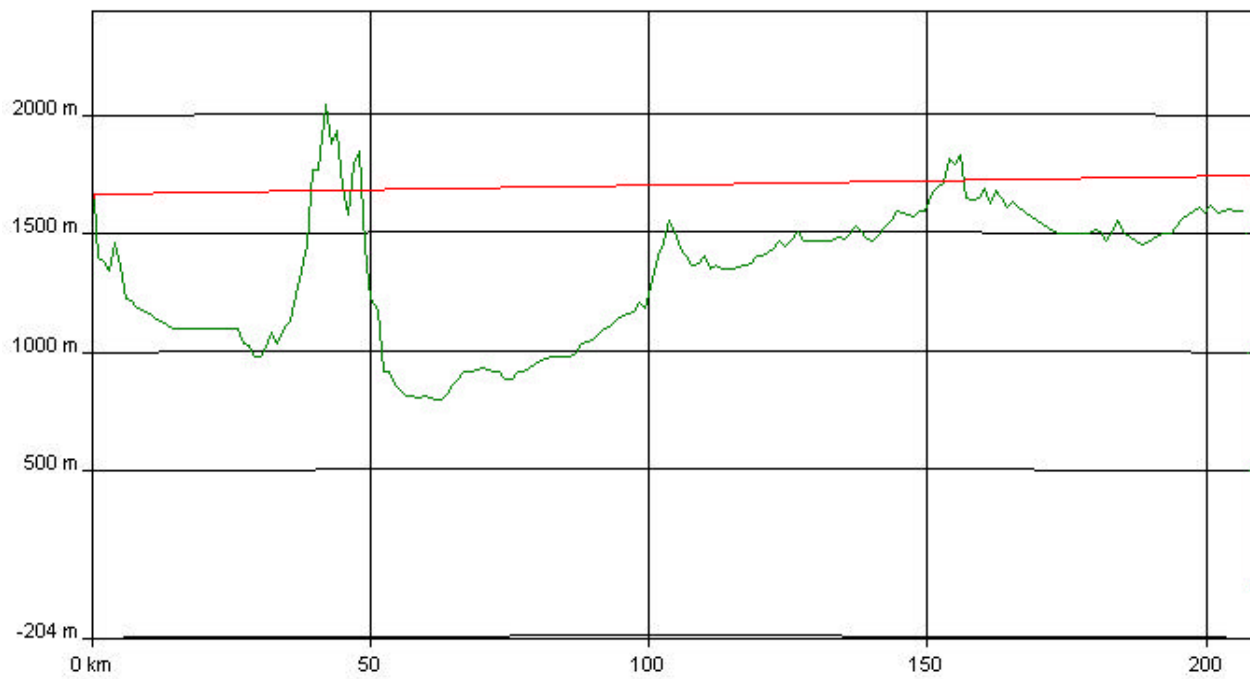
COMMUNITY : CANANEA, SONORA  
CHANNEL : 276  
CALL : VACANT CHANNEL  
CLASS : B  
INTERNATIONAL : B  
COORDINATES : 30-58-57 110-18-01  
MAXIMUM FACILITY : 150 M AT 50 KW  
RELATIONSHIP : CO-CHANNEL  
PROTECTED CONTOUR: **60 DBU (50,50)**  
**MAXIMUM DISTANCE ALLOWED TO PROTECTED CONTOUR: 65.0 KM**

**SUMMARY**

DISTANCE TO PROTECTED CONTOUR (CABORCA) : 65.0 KM  
DISTANCE TO RESTRICTED CONTOUR(KEAL) : 143.8 KM  
TOTAL DISTANCE RESTRICTED PLUS PROTECTED: 208.8 KM  
ACTUAL SPACING : 208.8 KM

**CLEARANCE 0.0 KM**  
**NO OVERLAP OF PROTECTED AND INTERFERING CONTOUR**

EXHIBIT 24B  
PATH PROFILE



***TX***

Lat: 32-46-44.0 N  
Lon: 110-57-46.0 W

***RX***

Lat: 30-58-57.0 N  
Lon: 110-18-01.0 W