



Detect the Difference

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To: Federal Communications Commission

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This is an explanation to item 6b and 6c in the application form 442.

The antenna system is located at the Detroit Metropolitan Wayne County Airport (DTW)

NOTE: The system equipment and locations are inclusive of the prior experimental license issued under call sign WC2XOZ.

The transmit locations which are identified in this application were previously installed for use in the experimental license under the call sign WC2XOZ. The locations are needed to perform the characteristics necessary to track aircraft via transponder information.

Figure 1 shows the one (1) Reference Transmitter (RefTran) location as a purple triangle. The location of this transmitter is crucial since the entire system works on a line-of-sight basis and the RefTran provides a 1090MHz signal to keep the entire system in synchronization. This is critical to receive only and the (R/T) receive-transmit units.

Figure 2 shows the three (3) R/T (receive-transmit) transmitter locations (1030MHz) as blue dots in the center of diamonds. The placement of these antennas is crucial since these units interrogate aircraft transponders for identification information. The locations cover the complete movement area (runways, taxiways) of the airport which is necessary in order to provide a situational awareness to the airlines for increased efficiency for operational purposes.

The remaining ten antennas of this system are receive only and therefore not listed in the application.

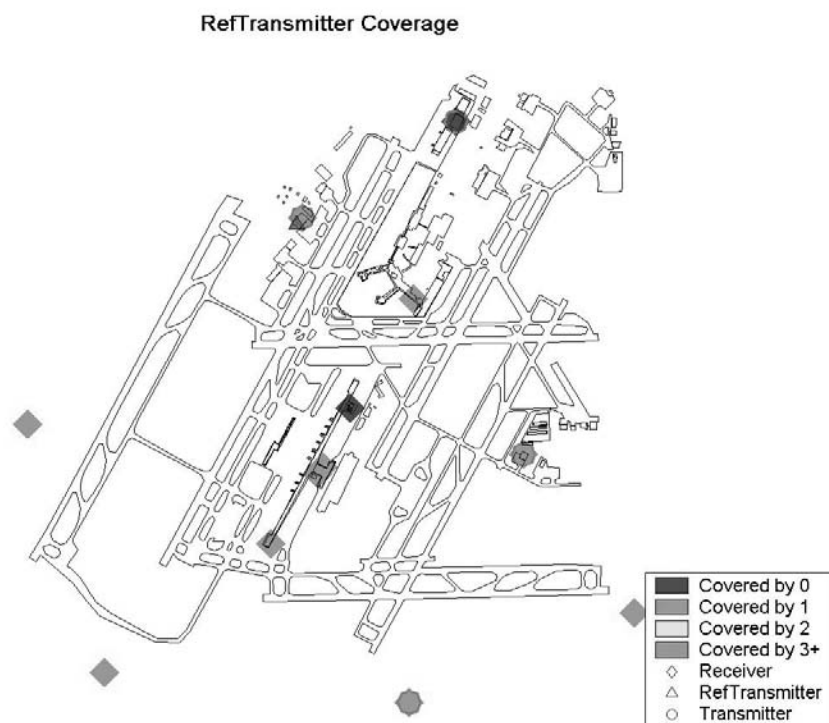


Figure 1: Reference Transmitter (RefTran) Coverage

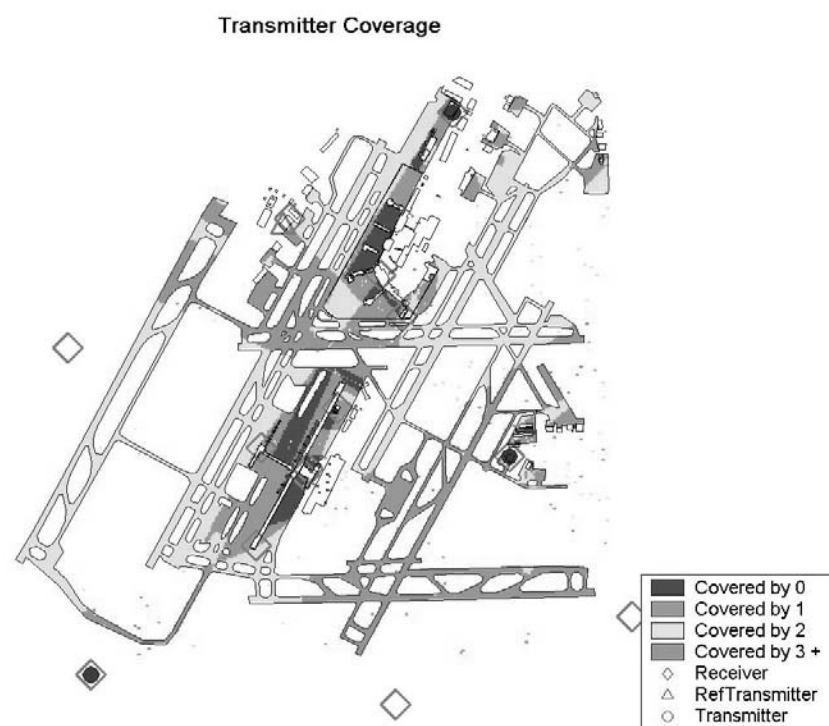


Figure 2 (R/T) Transmitter Coverage