

APPLICATION FOR CONSTRUCTION PERMIT INFORMATION  
RADIO STATION WMTN  
MORRISTOWN, TENNESSEE

1300 KHZ 5 KW-D 96 W-N U ND

September 29, 2015

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RADIO STATION WMTN  
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Executive Summary - WMTN

The technical exhibit of which this narrative is part has been prepared on behalf of Radio Acquisition Corp., licensee of AM broadcast station WMTN at Morristown, Tennessee. WMTN is licensed as a Class D station for operation on 1300 kilohertz with power of 5 kilowatts daytime and with a 96 watt secondary nighttime authorization. A non-directional antenna is utilized during both daytime and nighttime hours. By means of this present application, the licensee proposes to update the transmitter site location coordinates as given on the existing license and describe the ground system following changes made to accommodate lower frequency station WCRK that is simultaneously filing an application for construction permit to duplex at the site.. No other changes are proposed with this application.

This update was recently found to be necessary by comparison of the licensed transmitter site coordinates - which date from when the station was first constructed - with the more recently determined coordinates.

The updated NAD27 coordinates as determined from satellite imagery analysis are:

36-12-25 N  
83-19-59 W

The current license states the station's coordinates as:

36-12-15 N  
83-19-57 W

The ground system of the existing WMTN tower will accommodate the co-location of WCRK with 120 equally-spaced buried copper wire radials surrounding the tower within the property boundaries having an average length of 65.2 meters – exceeding the requirements for a standard ground system at the WMTN frequency. An additional 120 copper wire radials, 15.2 meters in length, will be interspersed with the longer radials about the tower base.

When comparing the licensed with the updated coordinates, a discrepancy of 10 second in the North Latitude and 2 seconds in West Longitude exists. Item 1, shows the coordinates plotted on a satellite photo. As can be seen on Item 1, the updated coordinates are correct. Also, a daytime allocation study, as shown on Item 2, is included supporting a conclusion that this proposal comports with all interference protection requirements.

There is no actual change in the contour overlap between WMTN and other stations, as the tower location is not changed, but Item 2 shows that there would be a net reduction in grandfathered overlap if an actual change were being made.

It is requested that a construction permit be issued with the new set of coordinates but that the requirement for antenna resistance measurements be suspended as the station's physical location has not changed and no changes are being made to the licensed antenna system.



Matthew Folkert

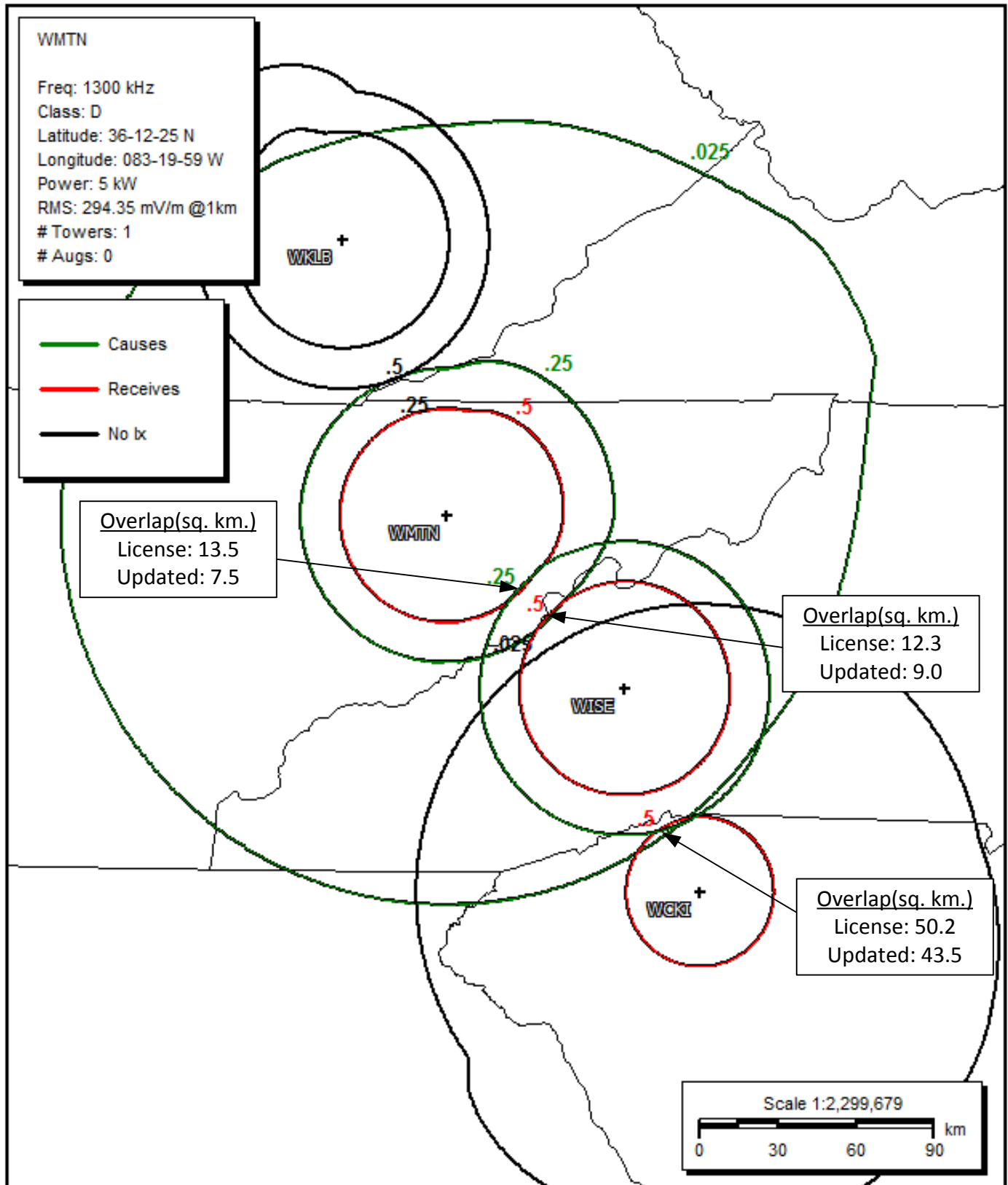
September 29, 2015



## SITE LOCATIONS

RADIO STATION WMTN  
MORRISTOWN, TENNESSEE  
1300 KHZ 5 KW-D 96 W-N U ND

du Treil, Lundin & Rackley, Inc. Sarasota, Florida



## DAYTIME ALLOCATION STUDY

RADIO STATION WMTN  
 MORRISTOWN, TENNESSEE  
 1300 KHZ 5 KW-D 96 W-N U ND

du Treil, Lundin & Rackley, Inc. Sarasota, Florida