

## Exhibit 13

### Radio Training Network Inc.

P O Box 7217  
Lakeland, FL 33807-7217

#### Channel Spacing Report for Channel 276 Williston, FL

ComStudy 2.2 search of channel 276 (103.1 MHz Class D)  
at 29-25-04.0 N, 82-32-58.0 W.

CALL	CITY	ST	CHN	CL	DIST	SEP	BRNG	CLEARANCE
NEW	WILLISTON	FL	276	D	0.00	0.00	90.0	-20.00 dB*
WRUF-FM	GAINESVILLE	FL	279	C1	35.65	0.00	24.8	-16.11 dB**
NEW	WILLISTON	FL	277	D	25.13	0.00	37.5	0.42 dB
NEW	WILLISTON	FL	277	D	14.84	0.00	62.0	-0.76 dB***
WRGO	CEDAR KEY	FL	274	C3	49.88	0.00	240.4	5.25 dB
WFJV-LP	CITRONELLE	FL	276	LP100	48.77	24.00	183.5	11.58 dB
WXXJ	JACKSONVILLE	FL	275	C	134.56	0.00	44.6	19.93 dB
WHKQ	WINDERMERE	FL	276	C2	133.15	0.00	135.6	23.57 dB
WFJV-LP	CITRONELLE	FL	277	LP100	48.77	13.00	183.5	25.58 dB
WNDT	ALACHUA	FL	223	A	39.02	10.00	23.8	29.0
WHKQ	WINDERMERE	FL	276	C2	145.05	0.00	132.0	29.52 dB

\*Short Form app for this Facility.

\*\*See attached waiver request showing protection of WRUF-FM

\*\*\*This is the short form application which passed the singleton review. The long form application for Ch 277 is fully spaced.

## **WAIVER REQUEST, SECTION 74.1204**

The proposed FM translator is located within the protected 60dbu contour of WRUF-FM on third adjacent channel 279, Gainesville, FL. The predicted F (50-50) field strength of WRUF-FM at the proposed translator site is 75 dbu or greater. Therefore, the respective interfering contour generated by the proposed FM Translator site is 115 dbu and extends less than 65 meters from the transmit antenna horizontal and less distances at elevation angles below the horizon.

Radio Training Network, Inc plans to use a 2 bay Dielectric DCR-L2 -  $\frac{3}{4}$  wave spaced antenna at 76 meters above ground to reduce the signal level at ground level. The maximum signal 6 meters above ground level will be 101.5 dBu. This is 13 db below the threshold for interference to the WRUF-FM facility.

The area surrounding the proposed translator site is farm land with the nearest single family residence 200 meters from the tower. See the attached aerial photo and topo map included to show the nature of the buildings in the area.

Therefore, Radio Training Network Inc. Respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

Should any actual interference occur, then Radio Training Network, Inc will promptly suspend operation of this translator in accordance with 47 C.F.R. 74.1203.

# RADIO TRAINING NETWORK

Williston, FL

Radio Training Network, Inc proposes to use a Dielectric DCRL-2C75 antenna to reduce signal levels on ground near the tower. This work sheet shows expected signal levels on the ground and at a safety plane 6 meters AGL. Distances and signal levels are computed for every 5 degrees below horizontal at antenna center of radiation. This safety plane is based on the highest likely receiver elevation AGL. Distance from Antenna is also computed to the intercept of the safety plane or ground level and a line from the antenna center of radiation.

**0.027 Kilowatts ERP**

**Antenna Make: Dielectric**

**76 Meters AGL to Radiation Center**

**Antenna Model: DCRL2-75**

**6 Meters AGL of Highest Receiver ( Safety Plane)**

**115 dbu Interfering contour**

Angle Below Horizontal	Antenna Rel. Field	ERP Kwatts	ERP DbK	Distance from Antenna to Interfering	Dist.From Ant. to Safety Plane	Field Strength In dbu at Safety Plane	Dist.From Ant. to Ground Level	Field Strength In Dbu at Ground Level
0	1.000	0.0270	-15.69	65 m	INF m		INF	
5	0.975	0.0257	-15.91	63 m	803.2 m	<b>92.9 dbu</b>	872.0 m	92.2 dbu
10	0.902	0.0220	-16.58	58 m	403.1 m	<b>98.2 dbu</b>	437.7 m	97.5 dbu
15	0.788	0.0168	-17.76	51 m	270.5 m	<b>100.5 dbu</b>	293.6 m	99.8 dbu
20	0.645	0.0112	-19.50	42 m	204.7 m	<b>101.2 dbu</b>	222.2 m	100.5 dbu
25	0.486	0.0064	-21.95	32 m	165.6 m	<b>100.6 dbu</b>	179.8 m	99.9 dbu
30	0.325	0.0029	-25.45	21 m	140.0 m	<b>98.5 dbu</b>	152.0 m	97.8 dbu
35	0.174	0.0008	-30.88	11 m	122.0 m	<b>94.3 dbu</b>	132.5 m	93.6 dbu
40	0.042	0.0000	-43.22	3 m	108.9 m	<b>83.0 dbu</b>	118.2 m	82.2 dbu
45	0.065	0.0001	-39.43	4 m	99.0 m	<b>87.6 dbu</b>	107.5 m	86.9 dbu
50	0.149	0.0006	-32.22	10 m	91.4 m	<b>95.5 dbu</b>	99.2 m	94.8 dbu
55	0.196	0.0010	-29.84	13 m	85.5 m	<b>98.4 dbu</b>	92.8 m	97.7 dbu
60	0.216	0.0013	-29.00	14 m	80.8 m	<b>99.8 dbu</b>	87.8 m	99.1 dbu
65	0.218	0.0013	-28.92	14 m	77.2 m	<b>100.2 dbu</b>	83.9 m	99.5 dbu
70	0.203	0.0011	-29.54	13 m	74.5 m	<b>99.9 dbu</b>	80.9 m	99.2 dbu
75	0.176	0.0008	-30.78	11 m	72.5 m	<b>98.9 dbu</b>	78.7 m	98.2 dbu
80	0.143	0.0006	-32.58	9 m	71.1 m	<b>97.3 dbu</b>	77.2 m	96.6 dbu
85	0.110	0.0003	-34.86	7 m	70.3 m	<b>95.1 dbu</b>	76.3 m	94.4 dbu
90	0.100	0.0003	-35.69	6 m	70.0 m	<b>94.3 dbu</b>	76.0 m	93.6 dbu

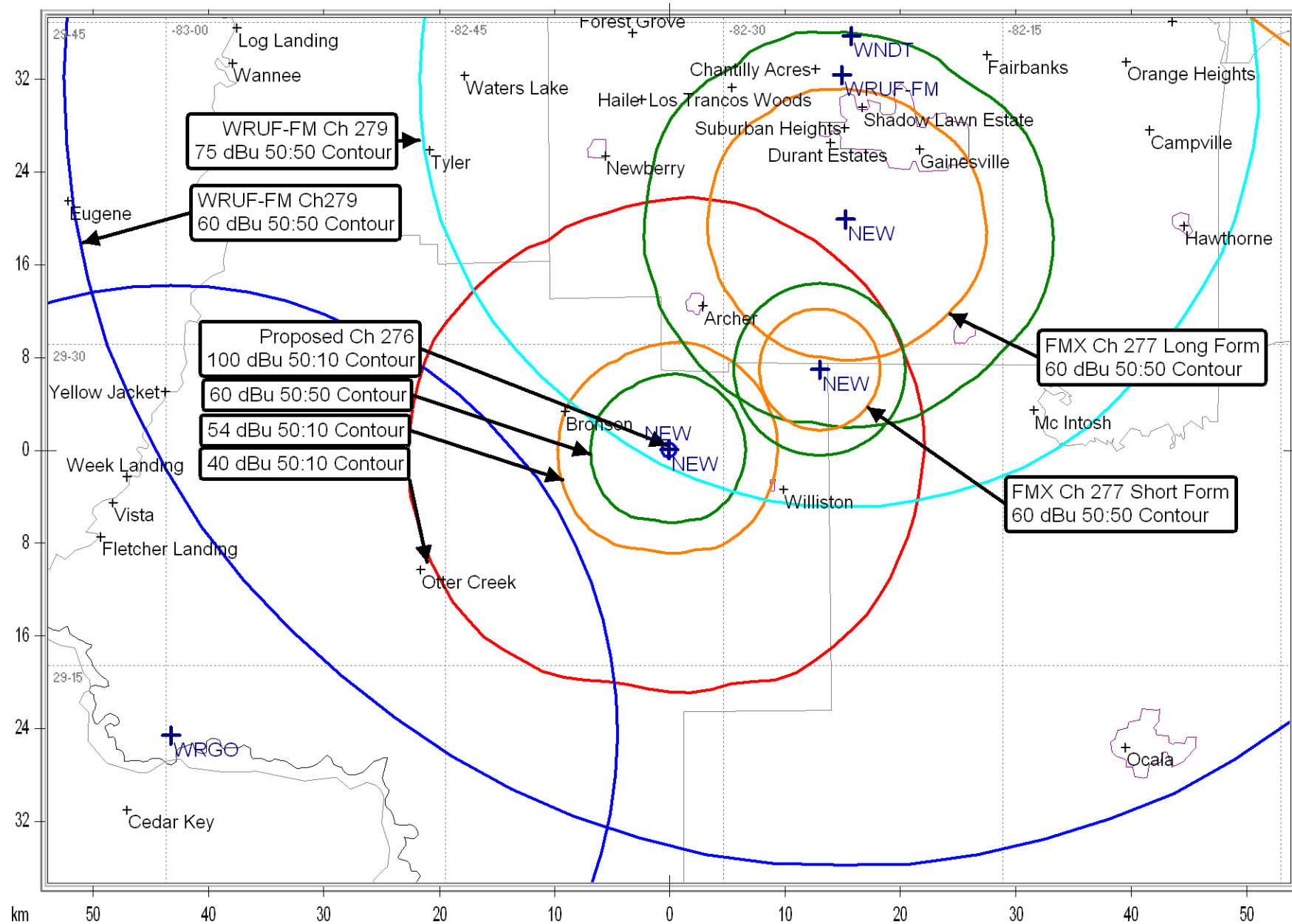
Formulas used

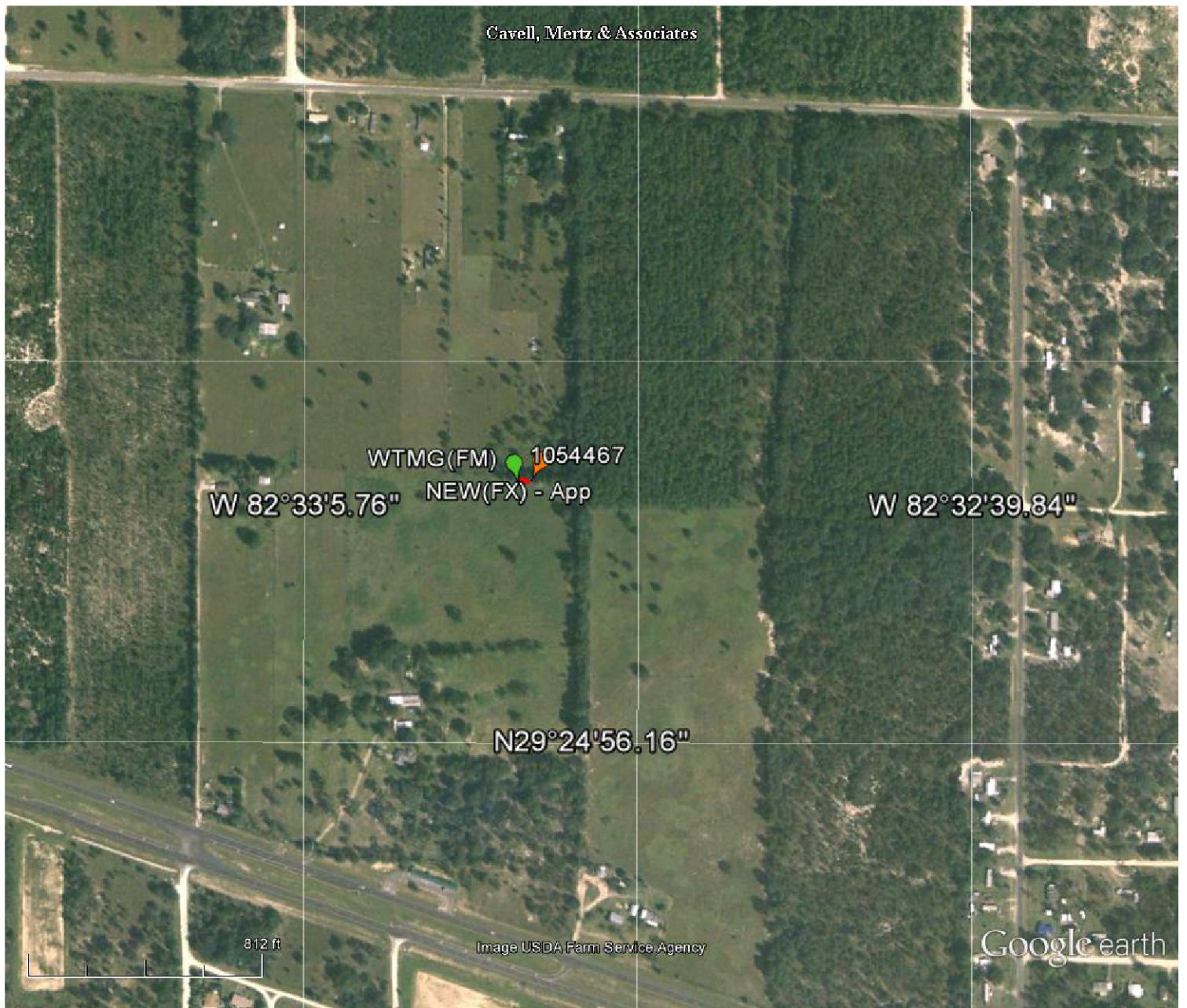
Distance to Contour =

Field Strength=

$(10^{((106.92 - [\text{desiredDbu}] + [\text{ERP in DbK}]) / 20)) * 1000}$   
 $106.92 - (20 * (\text{LOG}([\text{DistKm}] / 1000))) + ([\text{ERP in DbK}])$

## Williston FL Ch 276 Long Form 349





Google earth

