

**Engineering Narrative
In Support of an
Application for a Construction Permit
For a New AM, Dunbar, West Virginia**

General

RAMS I is hereby filing an application seeking to construct a new AM facility in Dunbar, West Virginia.

Exhibits Explained

Exhibit E, Figure 1 is a daytime allocation map of the facility showing no contour overlap. The service contours for the new facility are represented in Exhibit E, Figure 2. Exhibit E, Figures 3 and 4 involve the nighttime facility. Figure 3 is a root sum square study and Figure 4 is a map of the nighttime interference free contour showing 82.2% of the community of license is covered. A blanketing contour map is shown in Exhibit E, Figure 5. Finally, Exhibit E, Figures 6, and 7 present maps of topography and site layout while Figure 8 shows a vertical sketch.

Human Exposure to Radiofrequency Radiation (No Exhibits)

The facility is proposing to triplex on the same tower as WBES and WVTN and operates at 114.5 degrees (electrical height) and has an ERP of 1.0 kilowatt. A fence (should an adequate one not already be installed), 1.52 meters tall, will be placed 1 meter from the base of the radiator which meets the requirements on the AM Fencing Table, RF Worksheet #2, FCC Form 301. The fence will have appropriate signage notifying the public of the hazards of RF radiation.

Conclusion

The exhibits in this application show that the proposed facility meets the FCC's requirements for new Class C AM stations.

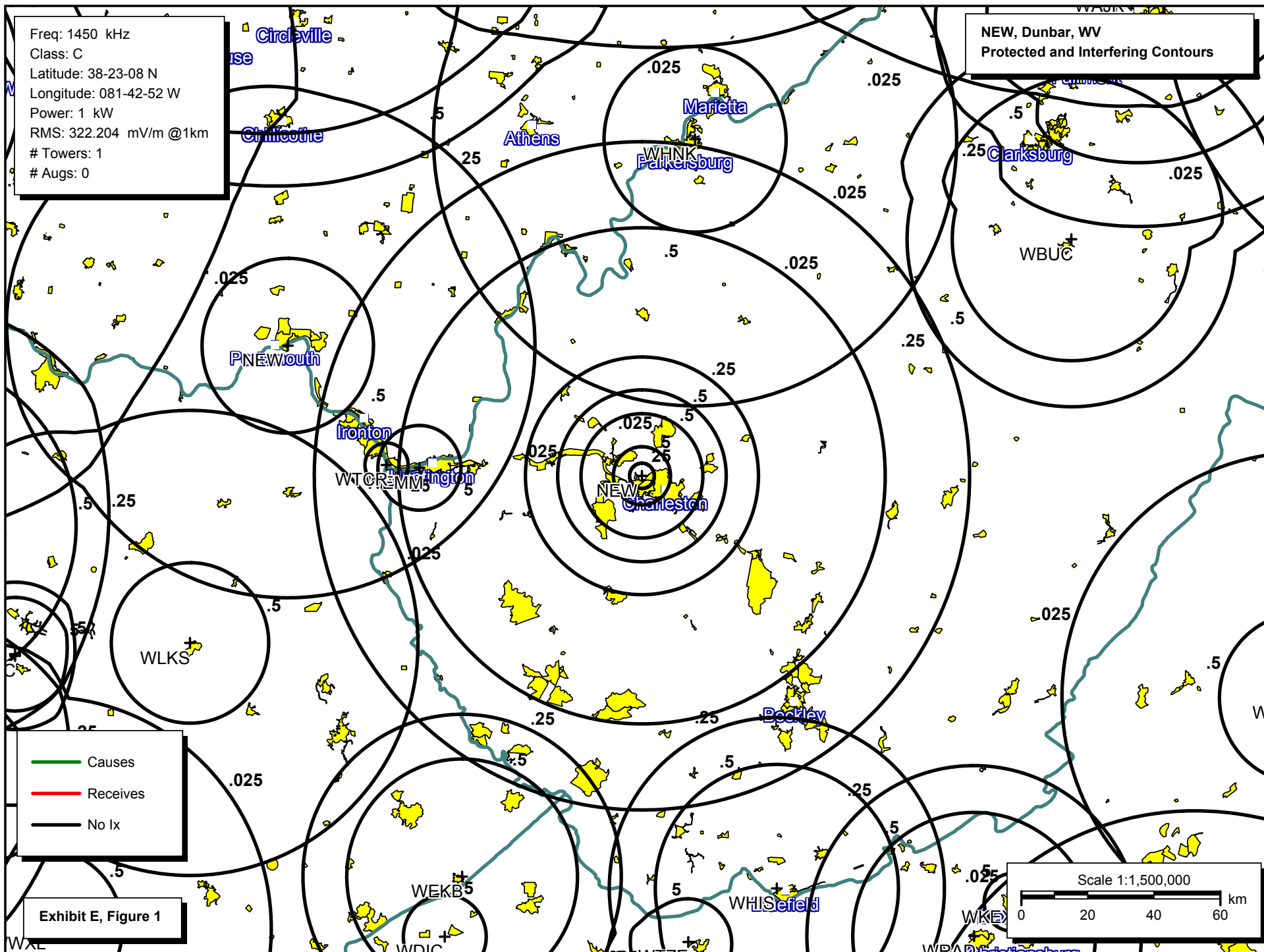
For RTA:



Alex Welsh

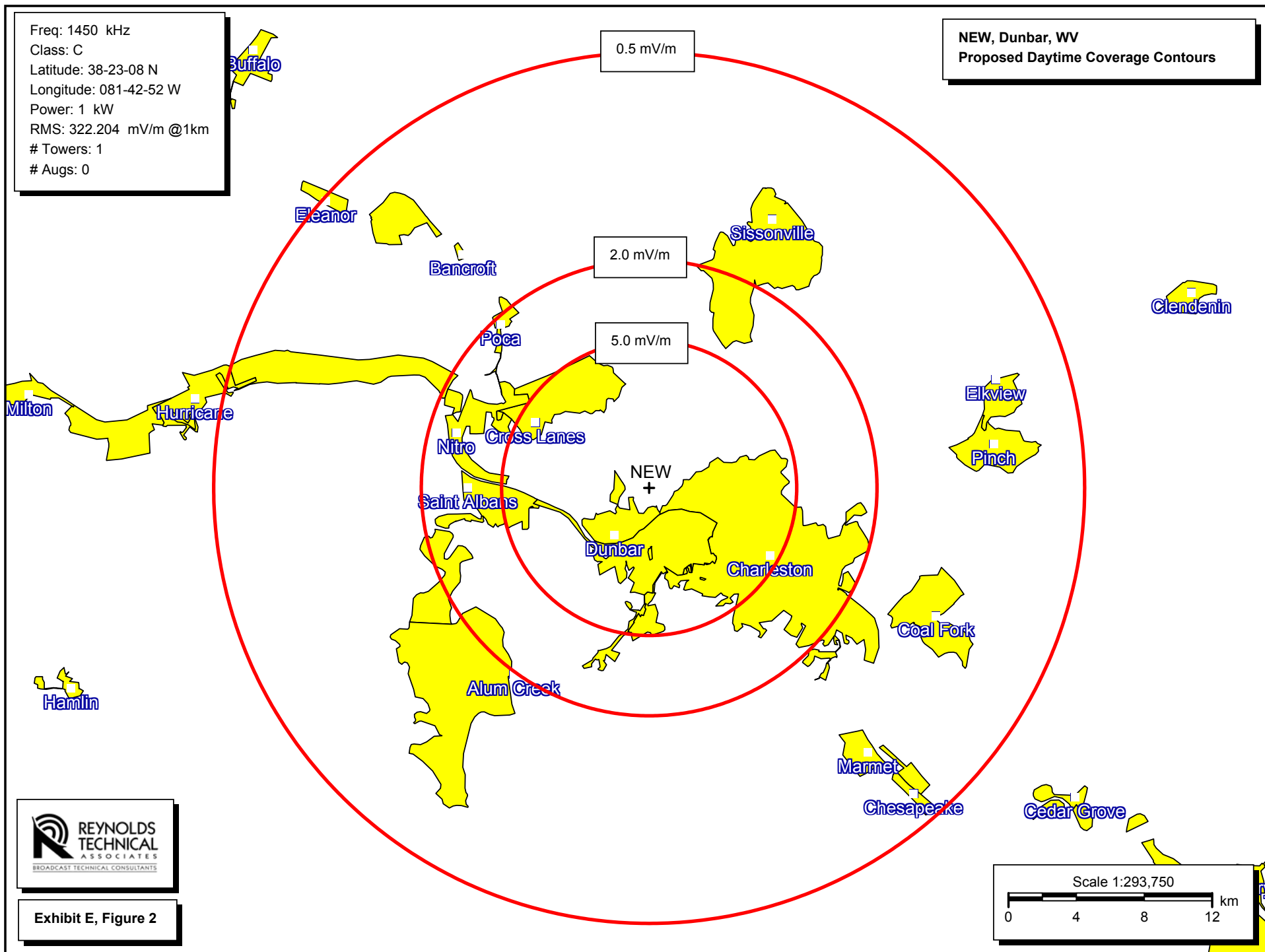
September 21st, 2007

6930 Cahaba Valley Road, Suite 202
Birmingham, Alabama 35242
(205) 618-2020



Freq: 1450 kHz
Class: C
Latitude: 38-23-08 N
Longitude: 081-42-52 W
Power: 1 kW
RMS: 322.204 mV/m @1km
Towers: 1
Aucs: 0

NEW, Dunbar, WV
Proposed Daytime Coverage Contours



**Engineering Statement
In Support of an
Application for a Construction Permit**

NEW, 1450 kHz, Dunbar, WV

Proposed Nighttime RSS Study

Call: NEW
Freq: 1450 kHz
DUNBAR, WV, US
Lat: 38-23-08 N
Lng: 081-42-52 W
Power: 1.0 kW
Theo RMS: 322.20 mV/m @ 1km

Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Contributors:

RSS							
Freq			Limit			Limit	
Call	(kHz)	City	St	Ct	(mV/m)	(%)	(mV/m)
WREL	1450	LEXINGTON	VA	US	13.437	100.0	13.437
WLKS	1450	WEST LIBERTY	KY	US	13.085	97.4	18.756
WWXL	1450	MANCHESTER	KY	US	12.462	66.4	22.518
WJPA	1450	WASHINGTON	PA	US	11.536	51.2	25.301 **
WVAX	1450	CHARLOTTESVILLE	VA	US	11.507	45.5	27.795
WTBO	1450	CUMBERLAND	MD	US	11.440	41.2	30.057

** denotes Interference Free Contour

NEW

Freq: 1450 kHz

Class: C

Latitude: 38-23-08 N

Longitude: 081-42-52 W

Power: 1 kW

RMS: 322.204 mV/m @1km

Towers: 1

Augs: 0

Percentage of Dunbar Covered by NIF: 82.2%

NEW, Dunbar, WV
Proposed Nighttime
Interference Free Contour

25.30 mV/m NIF

NEW
+

South Charleston

Dunbar

Charleston

Exhibit E, Figure 4

Scale 1:60,416

0 0.83 1.67 2.5 km

NEW

Freq: 1450 kHz

Class: C

Latitude: 38-23-08 N

Longitude: 081-42-52 W

Power: 1 kW

RMS: 322.204 mV/m @1km

Towers: 1

Augs: 0

Population Inside the 1000 mV/m: 30

NEW, Dunbar, WV

Proposed Nighttime Blanketing Contour

1000 mV/m Blanketing Contour

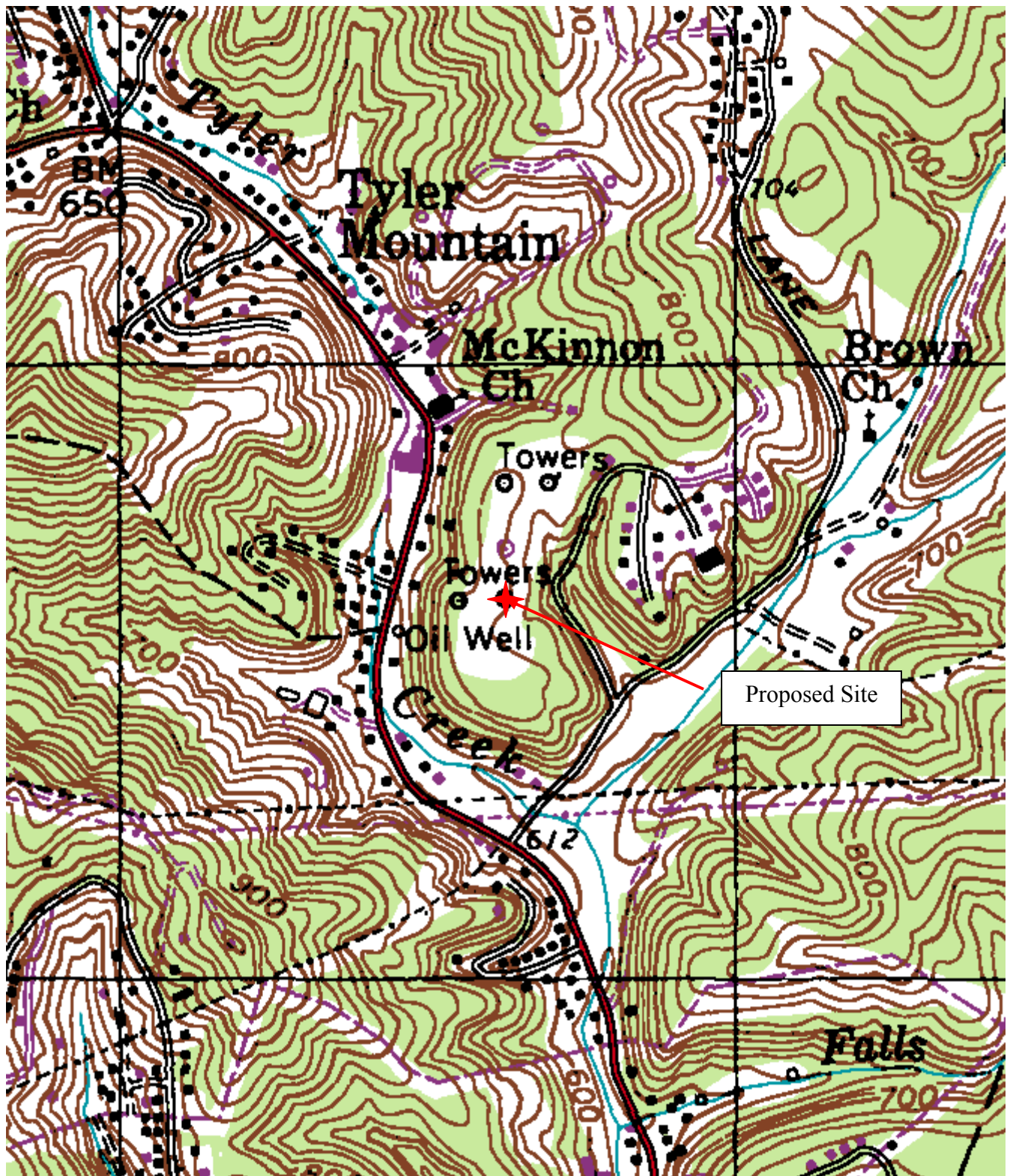
NEW⁺

Exhibit E, Figure 5

Scale 1:4,293

0 0.03 0.07 0.1 km

©



0 0.1 0.2 0.3 0.4 0.5 km
 0 0.09 0.18 0.27 0.36 0.45 mi
 38° 23' 08"N, 81° 42' 52"W (NAD27)
 WQBE-AM (Charleston), USGS Pocatlico (WV) Quadrangle

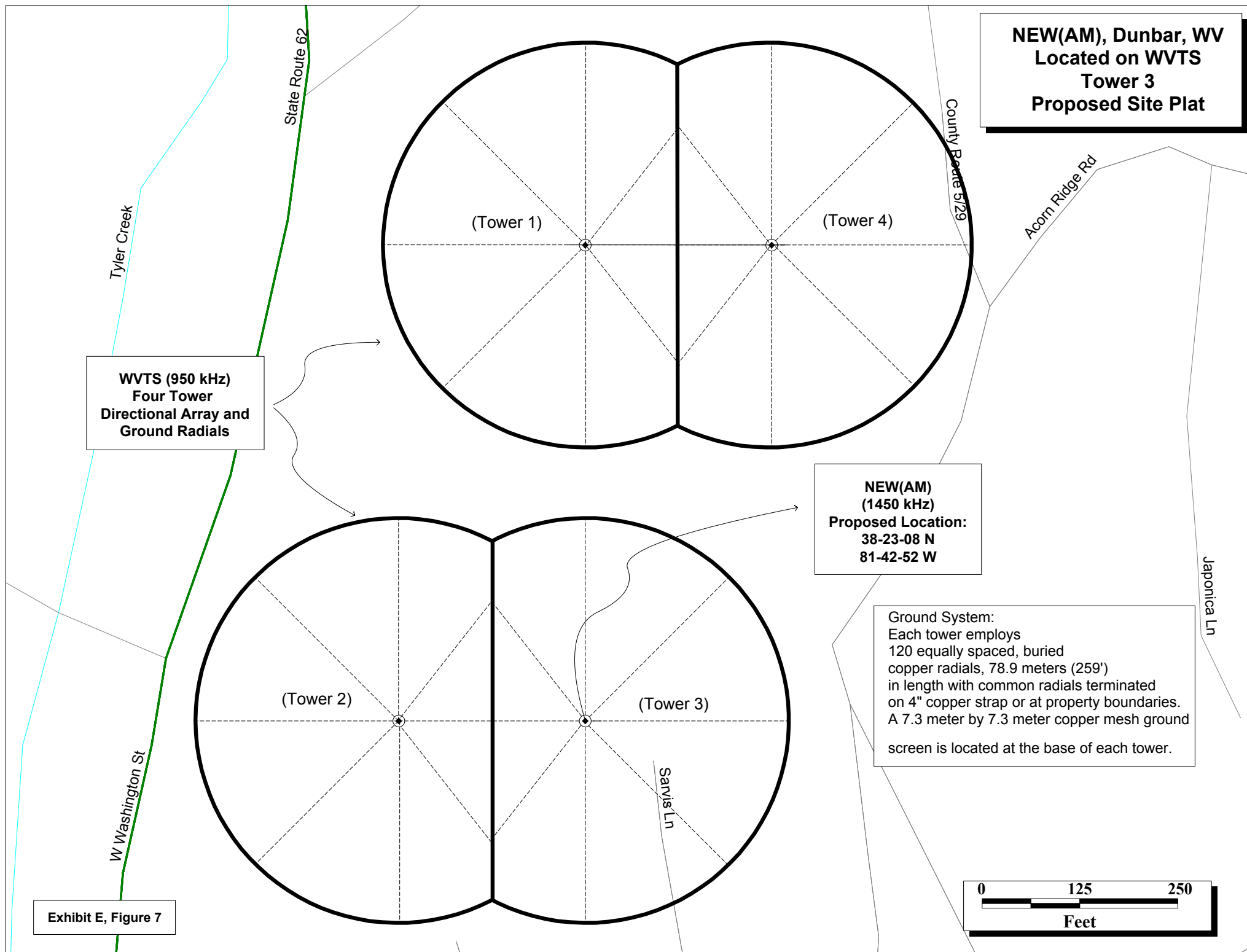
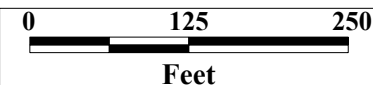
**NEW(AM), Dunbar, WV
Located on WVTS
Tower 3
Proposed Site Plat**

**WVTS (950 kHz)
Four Tower
Directional Array and
Ground Radials**

**NEW(AM)
(1450 kHz)
Proposed Location:
38-23-08 N
81-42-52 W**

Ground System:
Each tower employs
120 equally spaced, buried
copper radials, 78.9 meters (259')
in length with common radials terminated
on 4" copper strap or at property boundaries.
A 7.3 meter by 7.3 meter copper mesh ground
screen is located at the base of each tower.

Exhibit E, Figure 7



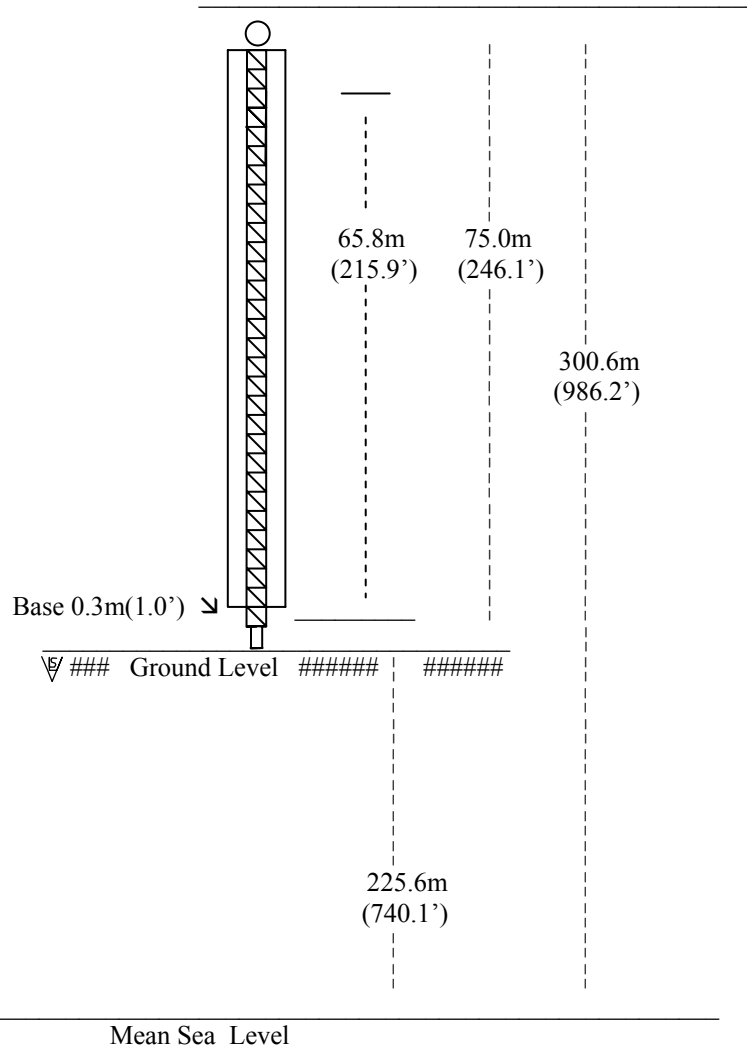
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Aerial Photo of Proposed Site.



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Vertical Sketch



Coordinates for Proposed Location - 38° 23' 08" N. Lat., 81° 42' 52" W. Long. (NAD 27)

NOT DRAWN TO SCALE

The facility (1450 kHz) is proposing to co-locate on Tower 3 of the WVTS (950 kHz) array. The total height of the tower is 75 meters (246.1 feet), including a 0.3 meter (1.0 foot) base. The proposed facility will have a height of 65.8 meters (215.9 feet), 114.5 electrical degrees.