

**Broadcast Engineering Services of Bonny Doon, Inc.**

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**Engineering Statement  
in support of a Minor Change  
New Ch 292A Marlinton, WV  
BNPH-20130722ADQ**

Ohana Broadcast Company LLC (Ohana), licensee of the construction permit for a new FM in Marlinton, West Virginia (Facility ID 191497), is requesting a minor change to the construction permit, this to move to a new site, change the RCAMSL and antenna. The city of license will continue to be 100% encompassed by the proposed 70 dbu contour of this modification.

An allocation study, along with detail maps, is attached to this statement.

There are no other broadcast stations co-located on this tower. The proposed antenna system is a Shively model 6812C, a single bay, circularly polarized, full wave spaced design, mounted 18 meters above ground. Operating at 60 watts ERP, this antenna will produce a calculated worst-case RFR energy field of 3.3 mW/cm<sup>2</sup> microwatts per squared centimeter at a distance of 17 meters from the base of the tower support structure. This equals less than 1% of the public limit (200 mW/cm<sup>2</sup>) at the tower site, and will be in compliance with FCC rules concerning RFR exposure.

Respectfully submitted,



Donald E. Mussell Jr. NCE-CBT  
Consulting Engineer  
August 1, 2016

Broadcast Engineering Services of Bonny Doon, Inc.  
Don Mussell NCE-CBT  
New Marlinton  
Pocahontas Communications Cooperative Corporation

REFERENCE		DISPLAY DATES
38 14 04.6 N.	CLASS = A	DATA 07-26-16
80 09 21.0 W.	Current Spacings to 3rd Adj.	SEARCH 08-01-16
----- Channel 292 - 106.3 MHz -----		

Call	Channel	Location	Azi	Dist	FCC	Margin
NEW %	CP 292A	Marlinton	WV 96.3	6.87	115.0	-108.1
WWLW	LIC-Z 293B	Clarksburg	WV 346.8	117.23	113.0	4.2
WSWW-FM	LIC 239B1	Craigsville	WV 301.7	38.41	12.0	26.4
WHKX	LIC 292A	Bluefield	VA 220.0	142.12	115.0	27.1
WSFF	LIC-N 291A	Vinton	VA 172.0	106.53	72.0	34.5
WTNJ	LIC 290B	Mount Hope	WV 252.8	105.98	69.0	37.0
WAMX	LIC-N 292B1	Milton	WV 280.2	181.95	143.0	39.0
WMNA-FM	LIC 292A	Gretna	VA 153.2	162.57	115.0	47.6

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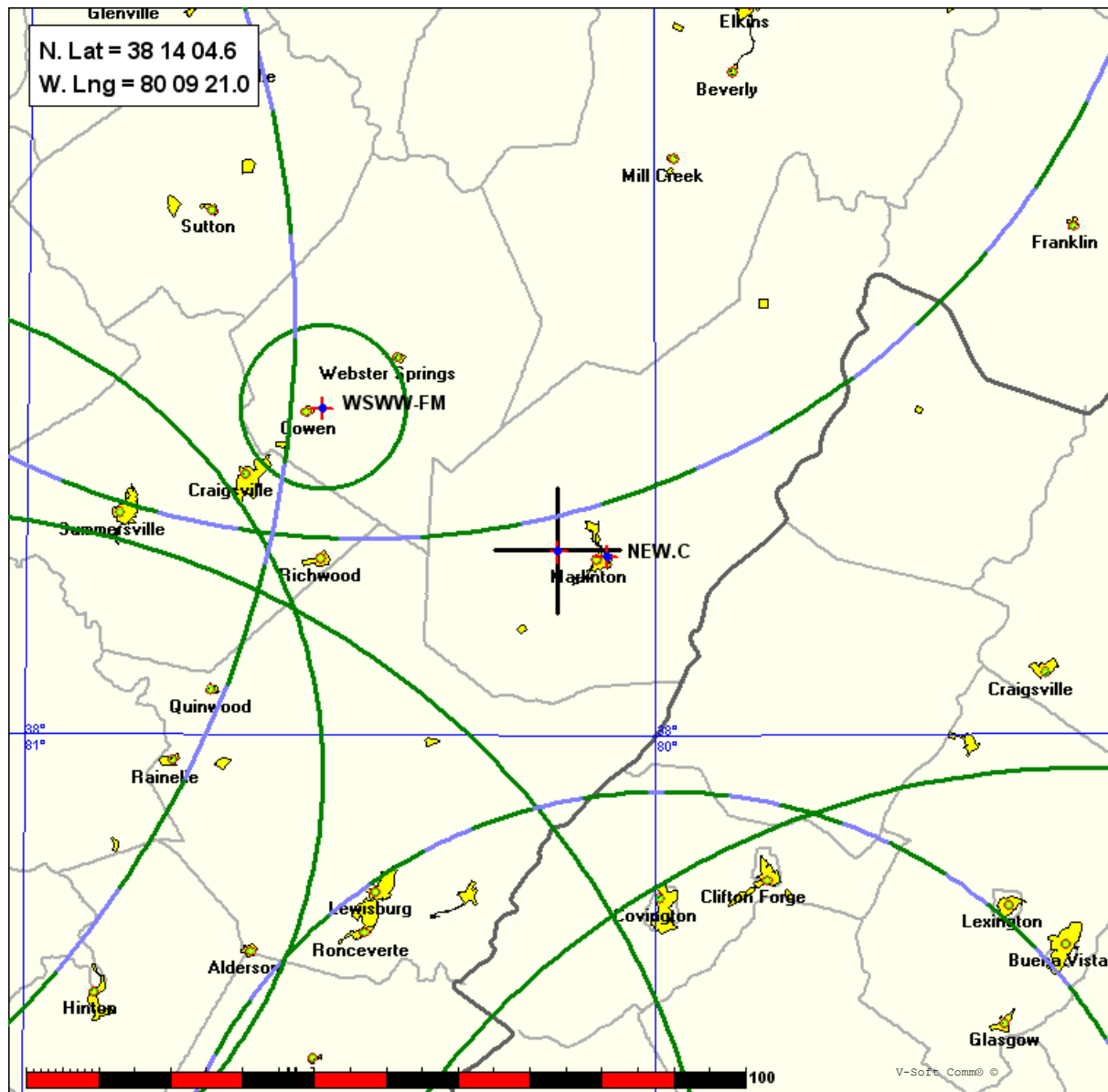
Reference station has protected zone issue: WV Quiet Zone  
% = Station Fails minimum 73.215 spacings

CH 292 A 106.3 MHz

Current Spacings to 3rd Adj.

New Marlinton

Pocahontas Communications Cooperative Corporation



Data		Date:07-26-16	Job	Date:08-01-16				
Call	CH#	Type	Location		Azi	D-KM	FCC	Margin
NEW.C	% 292A	CP	Marlinton	WV	96.3	6.87	115.0	-108.1
WWLW	293B	LIC-Z	Clarksburg	WV	346.8	117.23	113.0	4.2
WSWW-FM	239B1	LIC	Craigsville	WV	301.7	38.41	12.0	26.4
WHKX	292A	LIC	Bluefield	VA	220.0	142.12	115.0	27.1
WSFF	291A	LIC-N	Vinton	VA	172.0	106.53	72.0	34.5
WTNJ	290B	LIC	Mount Hope	WV	252.8	105.98	69.0	37.0
WAMX	292B1	LIC-N	Milton	WV	280.2	181.95	143.0	39.0
WMNA-FM	292A	LIC	Gretna	VA	153.2	162.57	115.0	47.6

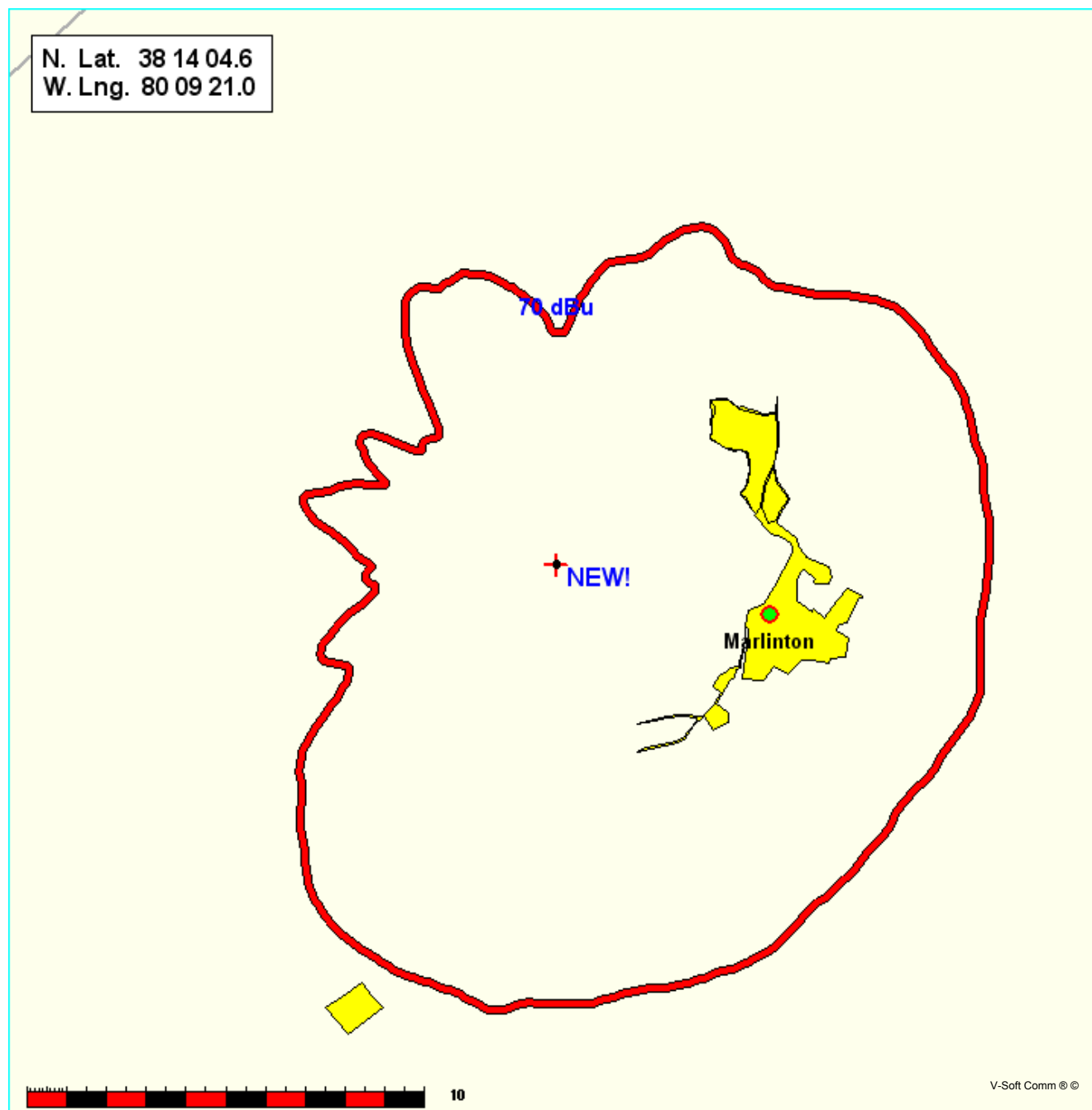
(Reference station has protected zone issue): WV Quiet Zone

% -Station Fails minimum 73.215 spacings

New Marlinton  
Pocahontas Communications Cooperative Corporation

Coverage Study - FCC NGDC 30 Sec  
08-01-2016

NEW! CH292 A , 0.06 kW, 333.9m HAAT, 1291.0m COR AMSL  
Service Contour = 70 dBu. Population = 2,249



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Consulting Engineer  
August 1, 2016