

**KRLW CONTINGENT APPLICATION
WITH KIYS (AMENDMENT TO BPH-20070726ADN)
ON 270C3 AT CRAWFORDSVILLE, AR**

This technical report has been developed in support of an application for a minor modification to KRLW-FM 292A at Walnut Ridge, AR, FCC file no. BLH-7403. A change in channel to non-adjacent same class channel 269A, following the rules set as a minor change in §CFR 73.3573, is requested, in addition to a change in tower site.

The following exhibits are provided for the form 301 minor modification:

- E-1 KRLW-FM Spacing study
- E-2 HAAT Calculation
- E-3 KRLW-FM 70 dBu Contour Plot
- E-4 ASR #1038562

KRLW-FM allocation study:

A channel study is included as Exhibit E-1, which demonstrates that KRLW-FM will be fully spaced at channel 269A with the grant of the contingent application by KIYS (amendment to BPH-20070726ADN) to 270C3 at Crawfordsville, AR. The facility is to be relocated at an existing tower, ASR #1038562 at coordinates:

36-03-44N 90-58-44W NAD27.

These coordinates also serve as the allocation reference point for the non-adjacent channel move, and will use an ERI FML-3E three bay full-wavelength nondirectional antenna at a COR AGL of 48 meters, and operate at an ERP of 3.0 kW.

Anderson Associates

Broadcast Consultants
1519 Euclid Avenue
Bowling Green, KY 42103

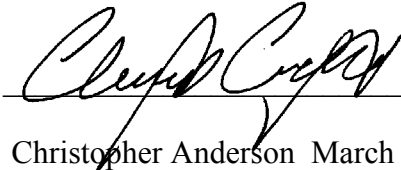
Exhibit E-3 shows that the modification to KRLW-FM will completely place a 70 dBu city-grade contour over Walnut Ridge, AR.

RF Exposure Calculation:

The RF produced by the modified facility was calculated using the Commission's FMMODEL program. The maximum RF produced at a height of 2 meters above ground was calculated to be $9.93 \mu\text{Watts/cm}^2$ at a distance of 23 meters from the tower, which is below 5% of the maximum $200 \mu\text{Watts/cm}^2$ permissible for general public exposure, and is allowed exclusion from consideration.

Conclusion:

It is concluded that the minor modification of KRLW-FM is in full compliance with the Commission rules and policies.



Christopher Anderson March 24, 2009
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E-1 KRLW-FM Spacing Study (application and allocation site)

REFERENCE		DISPLAY DATES
36 03 44.0 N.	CLASS = A	DATA 03-17-09
90 58 44.0 W.	Current Spacings to 3rd Adj.	SEARCH 03-24-09
----- Channel 269 - 101.7 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
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KIYS	LIC 270C	Jonesboro	AR	115.2	28.3	164.5	-136.2
KIYS	RSV 270C2	Crawfordsville	AR	135.4	108.4	105.5	2.9
KCTT-FM	LIC 269A	Yellville	AR	280.8	140.0	114.5	25.5
KIYS	APP-Z 270C3	Crawfordsville	AR	142.0	130.6	88.5	42.1**
KLLN	LIC 215C3	Newark	AR	228.2	56.4	11.5	44.9
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** A contingent modification to the KIYS 270C2 AP to C3 at ASR 1045576 is to be filed with the KRLW-FM Modification to 269A.

E-2 KRLW-FM HAAT Calculation

N. Lat. = 360344.0 W. Lng. = 905844.0

HAAT and Distance to Contour

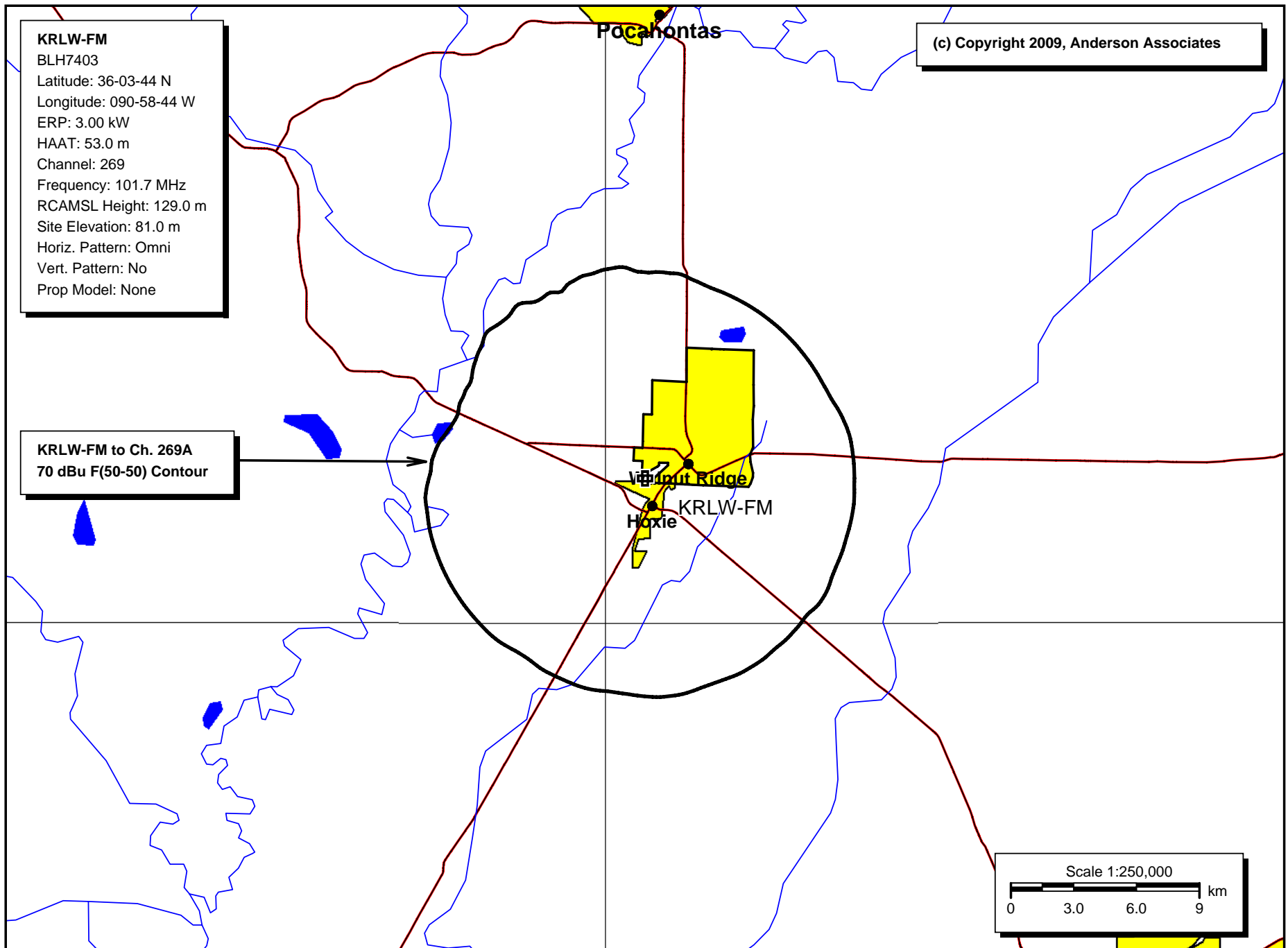
FCC, FM 2-10 Mi, 51 pts Method - NGDC 30 SEC

Azi. AV EL HAAT dBk 60-F5

000	77.7	51.3	4.77	17.48
045	79.0	50.0	4.77	17.23
090	76.7	52.3	4.77	17.67
135	75.6	53.4	4.77	17.88
180	74.1	54.9	4.77	18.15
225	73.5	55.5	4.77	18.25
270	75.8	53.2	4.77	17.84
315	75.9	53.1	4.77	17.83

Ave EI= 76.04 M HAAT= 52.96 M AMSL= 129 M

E-3 KRLW-FM Mod. 70 dBu Contour Plot



E-4 ASR 1038562

ASR Registration Search
Registration 1038562

 [Map Registration](#)

Registration Detail

Reg Number	1038562	Status	Constructed
File Number	A0045426	Constructed	01/01/1989
FAA Study		EMI	No
FAA Issue Date		NEPA	No

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Communications Purposes

Location (in NAD83 Coordinates)

Lat/Long	36-03-44.0 N 090-58-44.0 W	300 FRY DR
City, State	WALNUT RIDGE , AR	
Center of AM Array		

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
80.7	60.9
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
141.6	60.9

Painting and Lighting Specifications

None
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Owner & Contact Information

FRN	Licensee ID
Owner	
KEARBYS RADIO SHOP INC	P: (870)886-2171
Attention To: GARY D KEARBY	E:
P.O. Box 527	
WALNUT RIDGE , AR 72476	
Contact	
	P:
	E:
.	

Last Action Status

Status	Constructed	Received	01/20/1998
Purpose	New	Entered	01/28/1998
Mode	Mail In (Manual)		

Related Applications

01/20/1998	A0045426 - New (NE)
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Comments

Comments

None
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Automated Letters

None
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CLOSE WINDOW