

TECHNICAL EXHIBIT

CHANGE OF PRINCIPAL COMMUNITY

WDXB(FM)

Facility ID No. 2114

JASPER, ALABAMA

PELHAM, ALABAMA

Technical Narrative

This technical narrative and accompanying Figures have been prepared on behalf of station WDXB(FM), Jasper, Alabama, Facility ID No. 2114, in support of a minor change application to specify operations on channel 273C1 at Pelham, Alabama, in lieu of channel 273C1 at Jasper, Alabama.

As the requested change is mutually exclusive with the Station's current allotment, this modification is appropriately requested on a minor modification application. See 47 C.F.R. Sections 73.203(a), 73.3573(a)(i) and 73.3573(g).

The following is a summary of the merits of this proposal:

- The community of Pelham, Alabama (2000 Census population 14,639 persons) would be provided with its first local aural transmission service.
- The community of Jasper, Alabama (2000 Census population 14,052 persons) would continue to have local aural transmission service from WIXI(AM) (Facility ID No. 60508) and WLYJ(AM) (Facility ID No. 54798).
- The proposed channel 273C1 allotment site at Pelham, Alabama satisfies the Commission's allocations spacing rules for a fully spaced, full 100 kilowatt ("kW") Class C1 facility.¹

¹ The proposed allotment reference coordinates are the same as the present location, 33° 26' 38" North, 86° 52' 47" West. See this Exhibit

- The 60 dBu service area associated with the proposed operation of WDXB(FM) on channel 273C1 to Pelham, Alabama will not change.
- This proposal will not create any loss area.

Table of Figures Accompanying this Exhibit

Figure 1	WDXB(FM) Channel 273C1 Allocations Spacing Study
Figure 2	WDXB(FM) Present and Proposed 70 dBu Service
Figure 3	Map of Protected Service to Proposed Community of License
Figure 4	Table of Protected Service to Proposed Community of License

under the heading "Compliance With FCC Rules" for details on allocations considerations with respect to this site. Also see *Figure 1* accompanying this Exhibit for the allocations spacing study.

Proposed Change

Jasper is located in Walker County,² Alabama, and has a 2000 U.S. Census population of 14,052 persons. Jasper would continue to be served by local aural transmission services, specifically, AM stations WIXI and WLYJ.

Pelham is located in Shelby County,³ Alabama, and has a 2000 U.S. Census population of 14,639 persons. Pelham has no local FM or AM aural transmission service and, therefore, this proposal would bring a first local aural transmission service to Pelham.

Compliance With FCC Rules

The attached *Figure 1* is a tabulation of required separations pertinent to use of channel 273C1 at Pelham, Alabama. The site complies with the Commission's minimum distance separations contained in Section 73.207 of the FCC's rules to all existing, authorized and proposed stations and allotments as a full 100 kW Class C1 allotment, except for WDXB(FM)'s existing channel 273C1 operation at Jasper, Alabama, for which this proposal is a mutually exclusive substitute.

Operation from the channel 273C1 reference site would provide the requisite community grade (70 dBu) signal to all of Pelham. *Figure 2* is a map which depicts the community grade coverage (70 dBu) contour based on maximum class C1 facilities (ERP 100 kW/HAAT 299 meters) at the site. As shown, all (100%) of Pelham is located within the predicted 70 dBu community grade contour.

Proposed 60 dbu Area

There are and will be 1,225,660 persons residing within the proposed WDXB(FM) 60 dBu contour based on maximum Class C1 facilities; the area within WDXB(FM)'s proposed 60 dBu contour is and will be 16,265 square kilometers.

² Walker County is part of the Birmingham Arbitron Metro

³ Shelby County is part of the Birmingham Arbitron Metro

Proposed 70 dbu Area

There are and will be 882,356 persons residing within the proposed WDXB(FM)'s 70 dBu contour as calculated from the proposed allotment reference site and based on maximum Class C1 facilities; the area within WDXB(FM)'s 70 dBu contour is and will be 7,844 square kilometers.

60 dbu Gain and Loss Areas

There will be no change in 60 dBu area.

Urbanized Area Considerations

Both the existing and proposed channel 273C1 70 dBu contour encompasses more than 90% of the population and 85% of the area of the Birmingham, Alabama Urbanized Area.

Coverage Contours

The FM predicted coverage contours were calculated in accordance with the provisions of 47 C.F.R. Section 73.313, except that, in accordance with current FCC practice, uniform terrain was assumed in all directions. The AM predicted coverage contours were calculated in accordance with the provisions of 47 C.F.R. Section 73.182.

Population and Area

The population within the FM service contour (1 mV/m or 60 dBu) was calculated using a computer program that utilizes the 2000 U.S. Census database of "population centroids". The program adds the populations of those U.S. Census designated areas whose centroid lies within each service area.

Protected Service to Proposed Community of License

Pelham, Alabama, the proposed community of license, currently receives protected aural service from 30 radio stations, as shown in *Figures 6 and 7* (counting those

stations which provide protected service to at least 80 percent of the area of the community of license).

Conclusion

WDXB(FM) can be modified from operation on channel 273C1 at Jasper, Alabama, to operation on channel 273C1 at Pelham, Alabama, in compliance with all applicable Commission rules. The community of Pelham, Alabama would be provided with a first local aural transmission service, and the community of Jasper, Alabama would continue to have local aural transmission services. No service will be lost in any area, and no new underserved areas would be created as a result of this proposal. Therefore, the licensee requests the issuance of a construction permit for the minor modification of WDXB(FM) to specify operations on channel 273C1 at Pelham, Alabama.

Respectfully submitted,

Troy G. Langham
FCC Engineering Supervisor
October 8, 2005

Figure 1
Spacing Study

ComStudy 2.2 search of channel 273 (102.5 MHz Class C1) at 33-26-38 N, 86-52-47 W.

Callsign	State	City	Chnel	ERP_w	Class	Status	Dist_km	Sep	Clr
WDXB	AL	JASPER	273	90000	C1	LIC	0	245	-245
WELR-FM	AL	ROANOKE	272	0	C3	USE	143.54	144	-0.5
WGIB	AL	BIRMINGHAM	220	3500	C3	LIC	25.47	24	1.5
WELR-FM	AL	ROANOKE	272	8900	C3	LIC	150.41	144	6.4
W275AR	AL	BIRMINGHAM	275	10	D	CP MOD	8.12	0	8.1
WKXX	AL	ATTALLA	275	1100	A	LIC	85.77	75	10.8
WCKS	AL	FRUITHURST	274	1650	A	LIC	144.66	133	11.7
NEW	AL	ST. FLORIAN	274	10000	C3	CP	156.63	144	12.6
WAMI-FM	AL	FORT DEPOSIT	272	0	C1	RSV	193.21	177	16.2

Figure 2
Present and Proposed 70 dBu Service

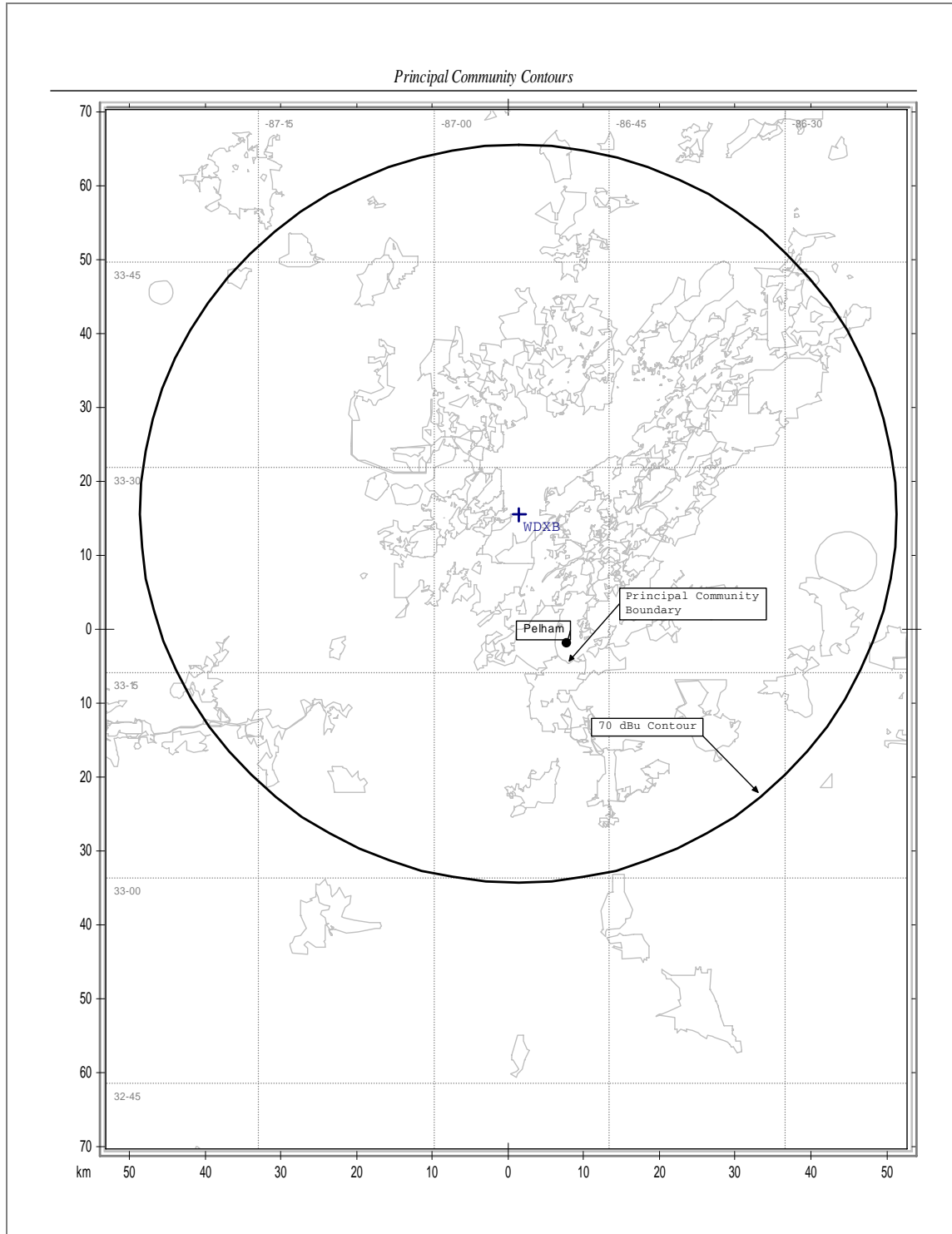


Figure 3
Map of Protected Service to Proposed Community of License

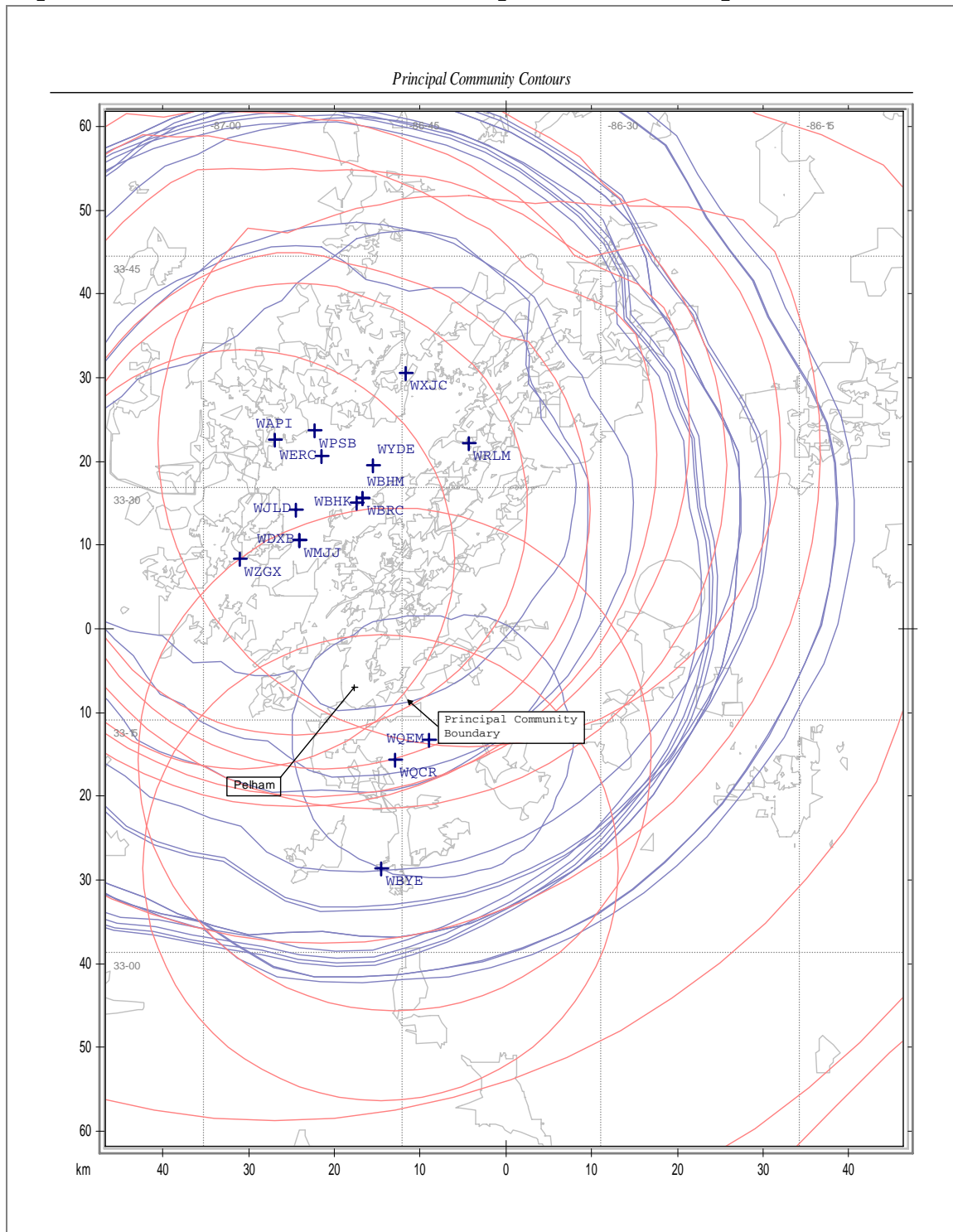


Figure 4
Table of Protected Service to Proposed Community of License

Call Sign	Facility_id	City	State
WBHM	4240	BIRMINGHAM	AL
WZZK-FM	48724	BIRMINGHAM	AL
WYSF	16901	BIRMINGHAM	AL
WENN	62278	HOOVER	AL
WZRR	16899	BIRMINGHAM	AL
WMJJ	2111	BIRMINGHAM	AL
WBHK	65227	WARRIOR	AL
WNCB	71417	GARDENDALE	AL
WQEM	41641	COLUMBIANA	AL
WDJC-FM	34819	BIRMINGHAM	AL
WUHT	6401	BIRMINGHAM	AL
WQEN	22997	TRUSSVILLE	AL
WDXB	2114	JASPER	AL
WBHJ	730	MIDFIELD	AL
WBRC	71221	BIRMINGHAM	AL
WBPT	5355	HOMEWOOD	AL
WPSB	6411	BIRMINGHAM	AL
WERC	2112	BIRMINGHAM	AL
WYDE	34822	BIRMINGHAM	AL
WZGX	4926	BESSEMER	AL
WBYE	71243	CALERA	AL
WRLM	726	IRONDALE	AL
WSPZ	16897	BIRMINGHAM	AL
WJLD	56299	FAIRFIELD	AL
WAGG	48717	BIRMINGHAM	AL
WXJC	74245	BIRMINGHAM	AL
WAYE	5354	BIRMINGHAM	AL
WQCR	72131	ALABASTER	AL
WAPI	16900	BIRMINGHAM	AL
WATV	5356	BIRMINGHAM	AL