

TECHNICAL EXHIBIT
CHANGE OF PRINCIPAL COMMUNITY
WSOL-FM

Brunswick, Georgia
Yulee, Florida

Technical Narrative

This technical narrative and accompanying Figures have been prepared on behalf of station WSOL-FM, Brunswick, Georgia, Facility ID No. 23830, in support of a minor change application to specify operations on channel 268C at Yulee, Florida, in lieu of channel 268C at Brunswick, Georgia, with no change in technical parameters.

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:

- WSOL-FM can be modified from operation on channel 268C at Brunswick, Georgia, to operation on channel 268C at Yulee, Florida, in compliance with the Commission's allocations spacing rules for a fully-spaced, full 100 kilowatt ("kW") Class C facility.¹
- No service would be lost in any underserved area and no new underserved areas would be created as a result of this proposal.
- The community of Brunswick, Georgia has a (2010 Census) population of 15,383 persons, and is located within the Brunswick, GA Urbanized Area.

¹ The allotment reference coordinates for WSOL-FM at Yulee, FL are 30° 49' 16.0" North, 81° 44' 14.0" West. Also see *Figure 1* accompanying this Exhibit for the allocations spacing study.

- The community of Yulee, Florida has a (2010 Census) population of 28,798 persons, and is located within the Jacksonville, FL Urbanized Area.
- The Brunswick, GA Urbanized Area has a (2010 Census) population of 51,024 persons.
- The Jacksonville, FL Urbanized Area has a (2010 Census) population of 1,065,219 persons.
- The Brunswick, GA Urbanized Area currently is served by 4 AM and 12 FM full power radio stations (counting radio stations that either encompass 50% or more of the Urbanized Area with a 70 dBu contour and/or whose community of license is geographically located within the Urbanized Area).
- Consequently, for the Brunswick, GA Urbanized Area, currently, there is one radio station for every 3,189 persons (that is, total Urbanized Area population of 51,024 persons divided by 16 stations).
- The Jacksonville, FL Urbanized Area currently is served by 15 AM and 18 FM full power radio stations (counting stations that either encompass 50% or more of the Urbanized Area with a 70 dBu contour and/or whose community of license is geographically located within the Urbanized Area).
- Consequently, for the Jacksonville, FL Urbanized Area, currently, there is one radio station for every 32,279 persons (that is, total Urbanized Area population of 1,065,219 persons divided by 33 stations).
- With this proposed change, the ratio of radio stations per Urbanized Area population would go from 3,189 per station to 3,402 persons per station in the Brunswick, GA Urbanized Area, altering the ratio of persons served per station to add 213 persons to be served per station.
- In contrast, with this proposed change, the ratio of radio stations per Urbanized Area population would go from 32,279 persons per station to 31,330 persons per station in the Jacksonville, FL Urbanized Area, an

improvement in the ratio of persons served per station of 949 persons.

- This proposed community of license change satisfies the Commission's FM allotment Priority (4), other public interest factors, by allowing more radio stations to serve the greater population of the Jacksonville, FL Urbanized Area, thereby improving the ratio of persons served per station, while still leaving the population of the Brunswick, GA Urbanized Area comparatively well served.

Table of Figures Accompanying this Exhibit

Figure 1	WSOL-FM Channel 268C Allocations Spacing Study
Figure 2	AM Services to Brunswick, GA UA
Figure 3	FM Services to Brunswick, GA UA
Figure 4	AM Services to Jacksonville, FL UA
Figure 5	FM Services to Jacksonville, FL UA
Figure 6	Map of City Grade Contour to Yulee, Florida
Figure 7	Map of Possible Modified Facility City Grade Contour to Yulee, Florida and the Jacksonville, FL UA

Proposed Change

Brunswick, Georgia (a U.S. Census city) is located in Glynn County, Georgia. Brunswick, Georgia has a (2010 Census) population of 15,383 persons, and is part of the Brunswick, GA Urbanized Area.

Yulee, Florida (a U.S. Census county division) is located in Nassau County, Florida. Yulee, Florida has a (2010 Census) population of 28,798 persons. Yulee, Florida is part of the Jacksonville, FL Urbanized Area. Moreover, with Yulee as its community of license, WSOL-FM can be modified to an existing tower to cover more than 50% of the Jacksonville, FL Urbanized Area with a 70 dBu contour.

Compliance With FCC Rules

The attached *Figure 1* is a tabulation of the required separations pertinent to use of channel 268C at Yulee, Florida. The allotment reference 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 C allotment, except for WSOL-FM's existing channel 268C operation at Brunswick, Georgia, for which this proposal is a mutually exclusive substitute.

Operation of WSOL-FM from the channel 268C reference site would provide the requisite community grade (70 dBu) signal to all of Yulee.² *Figure 6* is a map which depicts the community grade coverage (70 dBu) contour. As shown, all (100%) of Yulee, Florida is located within the predicted 70 dBu community grade contour of WSOL-FM from the reference site.

Urbanized Area Considerations

The current Brunswick, Georgia channel 268C 70 dBu contour encompasses 100% of the population and 100% of the area of the Brunswick, GA Urbanized Area.

As demonstrated in *Figure 7*, with a designated community of Yulee, Florida, WSOL-FM can be modified so

² See Figure 6 herein.

that the WSOL-FM 70 dBu contour encompasses more than 50% of the Jacksonville, FL Urbanized Area.³

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 each 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.

Respectfully submitted,

Troy G. Langham
Vice President,
Technical Regulator Affairs
17 December 2018

³ WSOL-FM at Yulee, Florida can change transmitter location and class to an existing tower identified by Antenna Structure Number 1049478, which is currently the auxiliary antenna site of commonly-owned station WJBT(FM), Callahan, Florida.

Figure 1. Spacing Study at Allocation Site

WSOL-FM Allocation Study								
Citicasters Licenses, Inc., As Debtor In Possession								
REFERENCE							DISPLAY DATES	
30 49 16.0 N.							DATA	12-10-18
81 44 14.0 W.	CLASS = C						SEARCH	12-11-18
----- Channel 268 - 101.5 MHz -----								
Call	Channel	Location		Azi	Dist	FCC	Margin	
WSOL-FM	LIC	268C	Brunswick	GA	0.0	0.00	289.5	-289.5
WDVH-FM	CP -Z	269C3	Trenton	FL	218.7	171.86	175.5	-3.6
WXSR	LIC-N	268C2	Quincy	FL	262.1	247.08	248.5	-1.4
WYUM	LIC	269A	Mount Vernon	GA	337.1	168.64	164.5	4.1
WDVH-FM	LIC	269A	Trenton	FL	218.7	171.94	164.5	7.4
WTMG	APP	267A	Williston	FL	206.8	174.02	164.5	9.5
WTMG	LIC	267A	Williston	FL	206.8	174.14	164.5	9.6
WAYR-FM	LIC-D	214C3	Brunswick	GA	29.4	47.54	30.5	17.0
WPNG	LIC	270C3	Pearson	GA	297.9	121.34	95.5	25.8
WQLC	LIC	271C3	Watertown	FL	237.7	121.47	95.5	26.0
WJKV	LIC	215C2	Jacksonville	FL	164.7	62.65	34.5	28.2
WQIL	LIC	267C2	Chauncey	GA	323.4	217.22	187.5	29.7
WZAT	LIC	271C0	Tybee Island	GA	15.3	142.28	104.5	37.8
WLVH	LIC-Z	266C2	Hardeeville	SC	15.5	146.85	104.5	42.4
WFOI	LIC	268C	St. Petersburg	FL	188.8	336.56	289.5	47.1
WXJZ	LIC	265A	Gainesville	FL	202.9	142.80	94.5	48.3
WAFT	LIC	266C1	Valdosta	GA	272.1	158.60	104.5	54.1
WLYU	LIC	265A	Lyons	GA	336.6	156.42	94.5	61.9
WAVF	LIC	269C1	Hanahan	SC	38.5	285.36	208.5	76.9
WQVE	LIC	269A	Albany	GA	291.8	246.67	164.5	82.2

All separation margins include rounding

NOTE: WDVH-FN and WXSR are 73.215 stations

Figure 4. AM Services to Jacksonville, FL UA

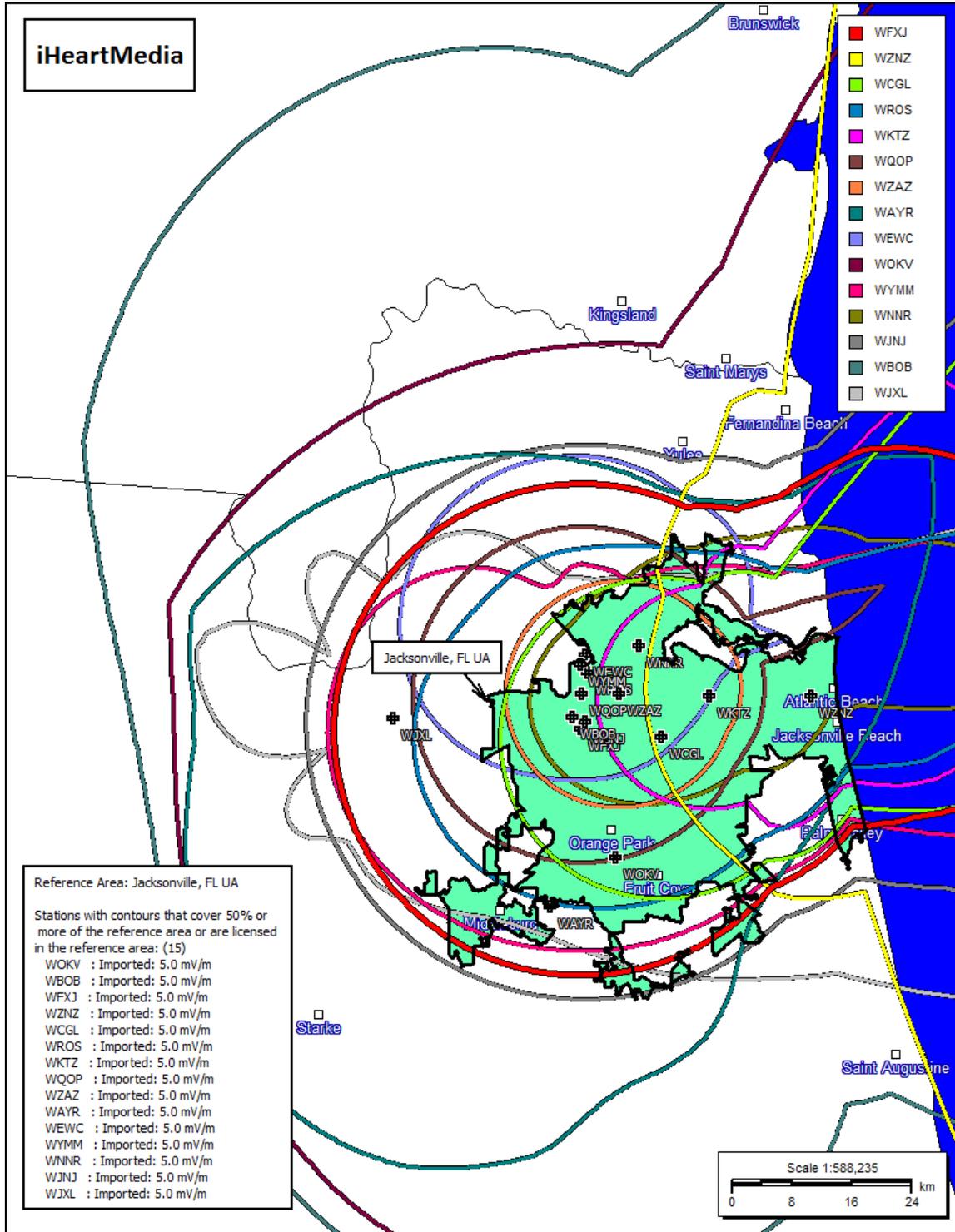


Figure 5. FM Services to Jacksonville, FL UA

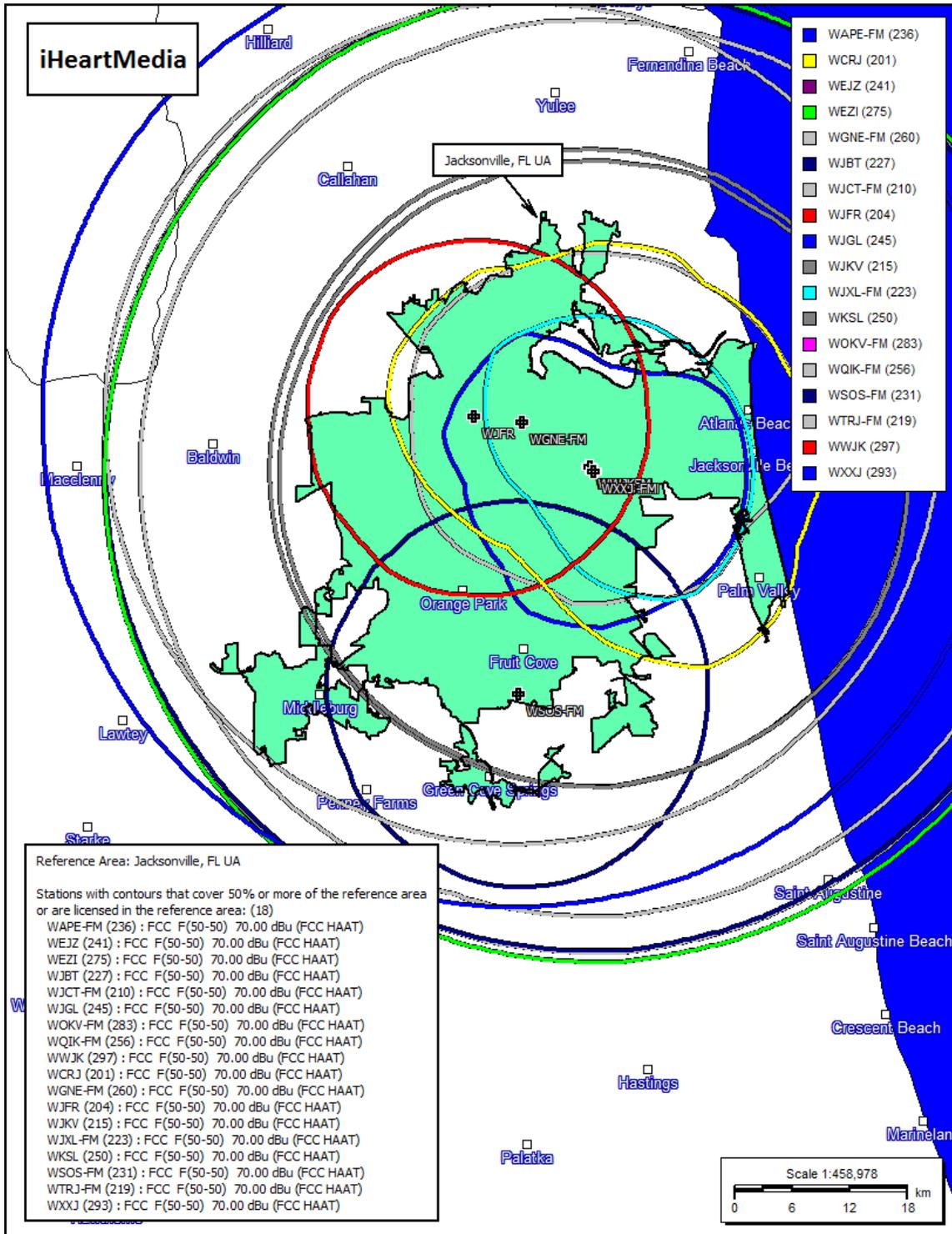


Figure 6. Map of 70 dBu Contour to Yulee, Florida

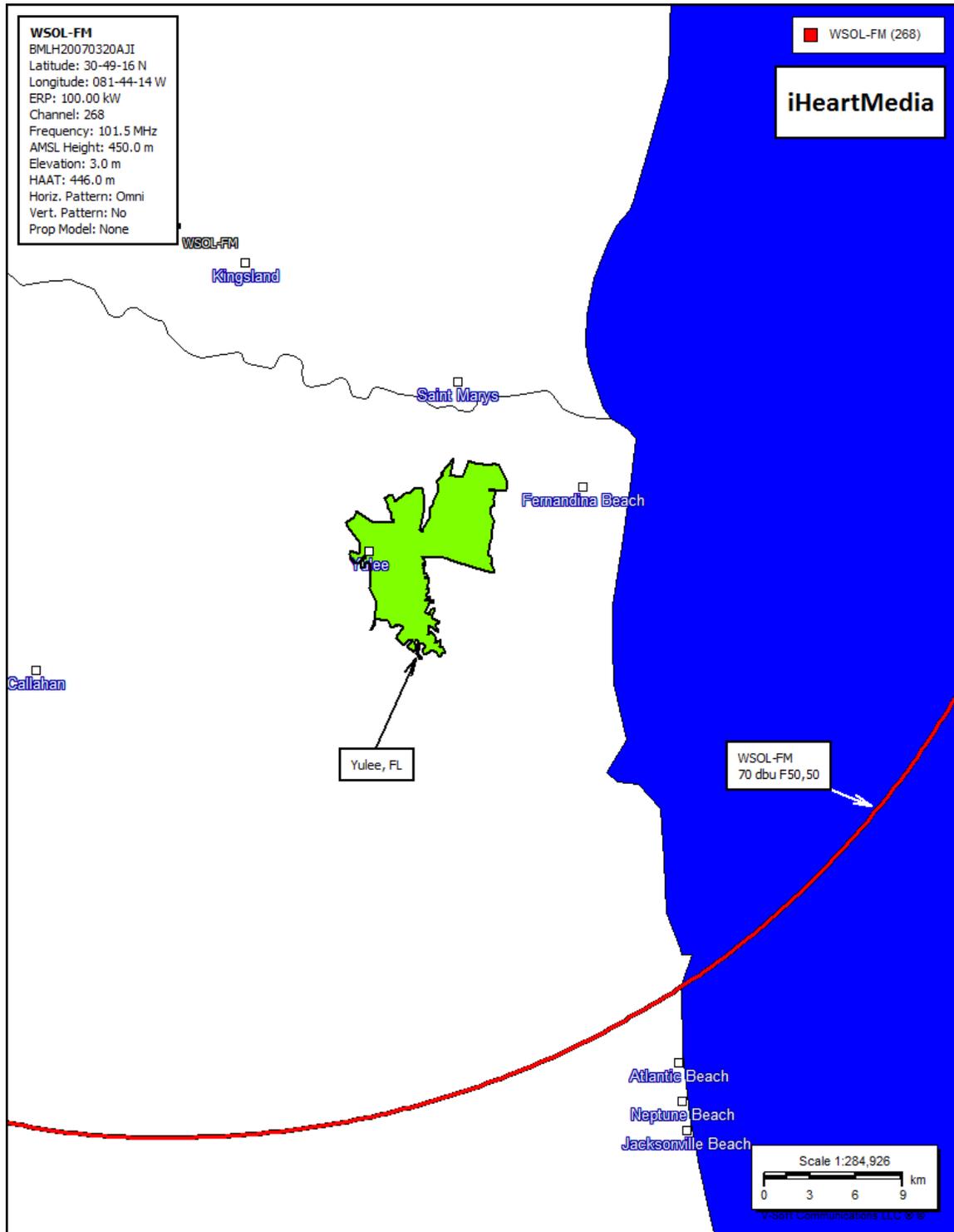


Figure 7. Map of Possible Minor Modification 70 dBu

