

APPLICATION FOR NEW STATION

Engineering Proposal File Number: BSFH 20040806AKX

Facility ID Number: 164244

CH 262C1, Gwinn, MI.

Radioactive, LLC

Technical Narrative

This engineering statement has been prepared in support of an application for a new station to operate on channel 262C1 at Gwinn, MI. This allocation was auctioned in FCC Auction 37.

One Step Upgrade:

This allocation was auctioned as CH 262C3. The applicant proposes a one step upgrade to CH 262C1 with 46-22-34 North, 87-20-26 West as reference coordinates. These coordinates are fully spaced to all current and proposed facilities as shown by Exhibit 25A. These coordinates are 14.4km from the farthest edge of the city limits of Gwinn, well within the normal 72km distance to the 70 dBu contour of a Class C1 station operated at maximum facilities.

Proposed Transmitter Location and Facilities:

The proposed transmitter location is an existing tower site located at 46-34-13 North, 87-33-57 West using the NAD 27 database. The applicant proposes to extend the existing structure to accommodate the antenna of the proposed station. Form 7460-1 is being filed with the FAA concurrently with this FCC filing notifying them of this proposed change in the antenna structure. The current Antenna Site Registration number is 1008385.

Allocation Study:

Exhibit 29A is a spacing study at the proposed Channel at the proposed transmitter location. It shows that location at the proposed coordinates will satisfy the Commission's minimum separation distance requirements, specified in Section 73.207(b) of the Rules, to all existing and proposed stations except for a 2.5km short spacing to the licensed site of WRHN Rhinelander, WI and a 1.1km short to an application by WRHN. Exhibit 29B is a map showing the relevant Service and Interfering contours for the Proposed station and WRHN. No prohibited contour overlap occurs, which satisfies the requirements of Section 73.215 of the Rules. The applicant is therefore respectfully requesting processing under section 73.215 of the FCC rules.

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FCC Predicted Coverage:

The predicted coverage contours (60 dBu F(50,50) and 70 dBu F(50,50)) were calculated, using 72 radials evenly spaced at 5 degree angles.

Exhibit 23 is a map showing the predicted coverage contours. As can be seen, the FCC predicted 70 dBu contour completely encompasses the City of Gwinn, MI.

RFR Compliance:

The proposed facilities were evaluated using the FCC RF worksheet number 1 and were found to reach 3.3% of the worst case controlled/occupational limit for RF exposure. It is therefore believed that this proposal is in compliance with OET Bulletin 65 as required.

Exhibit 25A Spacing Study

Radioactive, LLC

Channel: 262C1
100.3 MHz
Latitude: 46-22-34 N
Longitude 87-20-26 W

Call Sign	State	City	FCC File No:	Freq	Channel	ERP_w	Class	Status	Distance/ km	Sep	Clr
CHAS FM W260 AG W265 BN WNCY -FM WNCY -FM	MI	CARNEY	BSFH 20040806AKX	99.9	260	0	A	APP	90.64	75	15.6
	MI	GWINN	BSFH 20040806AKX	100.3	262	0	C3	APP	9.74	211	-201.3
	ON	SAULT STE MARIE	BSFH 20040806AKX	100.5	263	14000	C		230.91	230	0.9
	MI	ISHPEMING	BSFH 20040806AKX	99.9	260	5	D	LIC	24.47	0	24.5
	MI	ISHPEMING	BSFH 20040806AKX	100.9	265	80	D	CP	27.6	0	27.6
	WI	NEENAH-	BSFH 20040806AKX	100.3	262	0	C2	USE	250.95	224	27
	WI	MENASHA	BSFH 20040806AKX	100.3	262	45000	C2	LIC	244.8	224	20.8
	MI	CRYSTAL FALLS	BSFH 20040806AKX	100.7	264	0	C1	USE	82.26	82	0.3
	MI	CRYSTAL FALLS	BSFH 20040806AKX	100.7	264	100000	C1	LIC	82.18	82	0.2
	MI	MANISTIQUE	BSFH 20040806AKX	99.9	260	0	A	USE CP	96.5	75	21.5
WPIQ	MI	MANISTIQUE	BSFH 20040806AKX	99.9	260	6000	A	MOD	99.99	75	25
WRHN	WI	RHINELANDER	BSFH 20040806AKX	100.1	261	0	C1	USE	178.01	177	1
WRHN	WI	RHINELANDER	BSFH 20040806AKX	100.1	261	100000	C1	APP	179.46	177	2.5
WRHN	WI	RHINELANDER	BSFH 20040806AKX	100.1	261	100000	C1	LIC	178.01	177	1