

ENGINEERING EXHIBIT  
MODIFICATION OF APPLICATION  
ONE-STEP CLASS 268C to 268C0  
FILE NUMBER BNPH-20060310AFH  
FACILITY ID No; 166027  
DRUMMOND,MT

This instant modification application requests a “one-step” Section 73.203(b) class change from Class “C” to Class “C0” on channel 268 at Drummond, Montana and specification of a different antenna height than in the original Application for a Construction Permit File Number BNPH-20060310AFH. FCC facility identification number (FacID) 166207.

Modification of the allocation at Drummond, MT may be accomplished via the FCC’s one –step procedure by specification of allotment coordinates 46-55-11 North, 113-41-18 West. A spacing study utilizing Section 73.207 is attached below as Figure 1, indicating the proposed allocation location is fully spaced with all known stations, permits and allocations.

It is proposed to locate FacID 166027 at a height of 20 meters above ground level on an existing tower identified by antenna structure registration number (ASR) 1003787. From this location and height, FacID 166027 will have a height above average terrain (HAAT) of 320 meters. Figure 2 below is a spacing study from the proposed location that demonstrates compliance with Section 73.207 to all stations, permits, and allocations with the exception of KZMT, Helena, MT, to which the use of spacing in accordance with Section 73.215 is respectfully requested. Figure 3 is a map demonstrating compliance with Section 73.215 by use of an antenna height lower than the maximum height allowed for Class C0 stations with respect to class maximum facilities. Community coverage in accordance with Section 73.315 is demonstrated by the map in Figure 4 below.

Study within 1 km of the proposed site reveals no other likely non-exempt RF sources. The ground level NIER values near the base of the structure have been calculated using the program “FM Model”.

The proposed antenna system is a Shivley 6810 10 bay half wave spaced antenna, mounted with its center of radiation 20 meters above ground level on an existing tower, and operating with an effective radiated power of 100 kilowatts in both the horizontal and vertical planes. The system will result in a 74uW/cm sq. @ 180 meters, or 7.4% of the controlled limit. The applicant proposes to take measurements after the proposed facilities are constructed, and before Program Testing begins to determine the fencing required to protect the public from prohibited RFR in excess of that permitted by OET Bulletin 45. The proposed antenna is in a remote location. Fencing adequate to protect the public from prohibited RFR will be installed prior to program tests. Additionally, the

applicant will see that signs are posted in the vicinity of the tower warning of potential radio frequency hazards. All station personnel and contractors will be required to follow appropriate safety procedures before any work is started on the tower, including reduction of power or discontinuance of operation.

Figure 1

ComStudy 2.2 Search of channel 268C0 at 46-55-11N, 113-41-18W										
Callsign	State	City	Freq	Channel	ERP_w	Class	Status	Distance_km	Sep	Clr
NEW	MT	DRUMMOND	101.5	268	100000	C	APP	19.86	281	-261.1
	MT	DRUMMOND	101.5	268	0	C	APP	72.33	281	-208.7
NEW	MT	DRUMMOND	101.5	268	0	C	RSV	72.28	281	-208.7
NEW	MT	DRUMMOND	101.5	268	0	C	APP	72.33	281	-208.7
KATW	ID	LEWISTON	101.5	268	100000	C1	LIC	259.67	259	0.7
KATW	ID	LEWISTON	101.5	268	0	C1	USE	259.67	259	0.7
KZMT	MT	HELENA	101.1	266	90500	C	LIC	105.39	105	0.4
KZMT	MT	HELENA	101.1	266	0	C	USE	105.4	105	0.4
NEW	MT	BELT	101.7	269	13100	C1	CP	205.23	196	9.2
NEW	MT	BELT	101.7	269	0	C1	USE	216.15	196	20.2

Figure 2

Comstudy 2.2 Search of channel 268C0 at 46-44-49N, 113-37-19W										
Callsign	State	City	Freq	Channel	ERP_w	Class	Status	Distance_km	Sep	Clr
NEW	MT	DRUMMOND	101.5	268	100000	C	APP	0	281	-281
NEW	MT	DRUMMOND	101.5	268	0	C	RSV	52.5	281	-228.5
	MT	DRUMMOND	101.5	268	0	C	APP	52.55	281	-228.5
NEW	MT	DRUMMOND	101.5	268	0	C	APP	52.55	281	-228.5
KZMT	MT	HELENA	101.1	266	90500	C	LIC	98.73	105	-6.3
KZMT	MT	HELENA	101.1	266	0	C	USE	98.75	105	-6.3
KATW	ID	LEWISTON	101.5	268	100000	C1	LIC	262.04	259	3
KATW	ID	LEWISTON	101.5	268	0	C1	USE	262.04	259	3
NEW	MT	BELT	101.7	269	13100	C1	CP	203.99	196	8
NEW	MT	BELT	101.7	269	0	C1	USE	217.1	196	21.1

Figure 3.

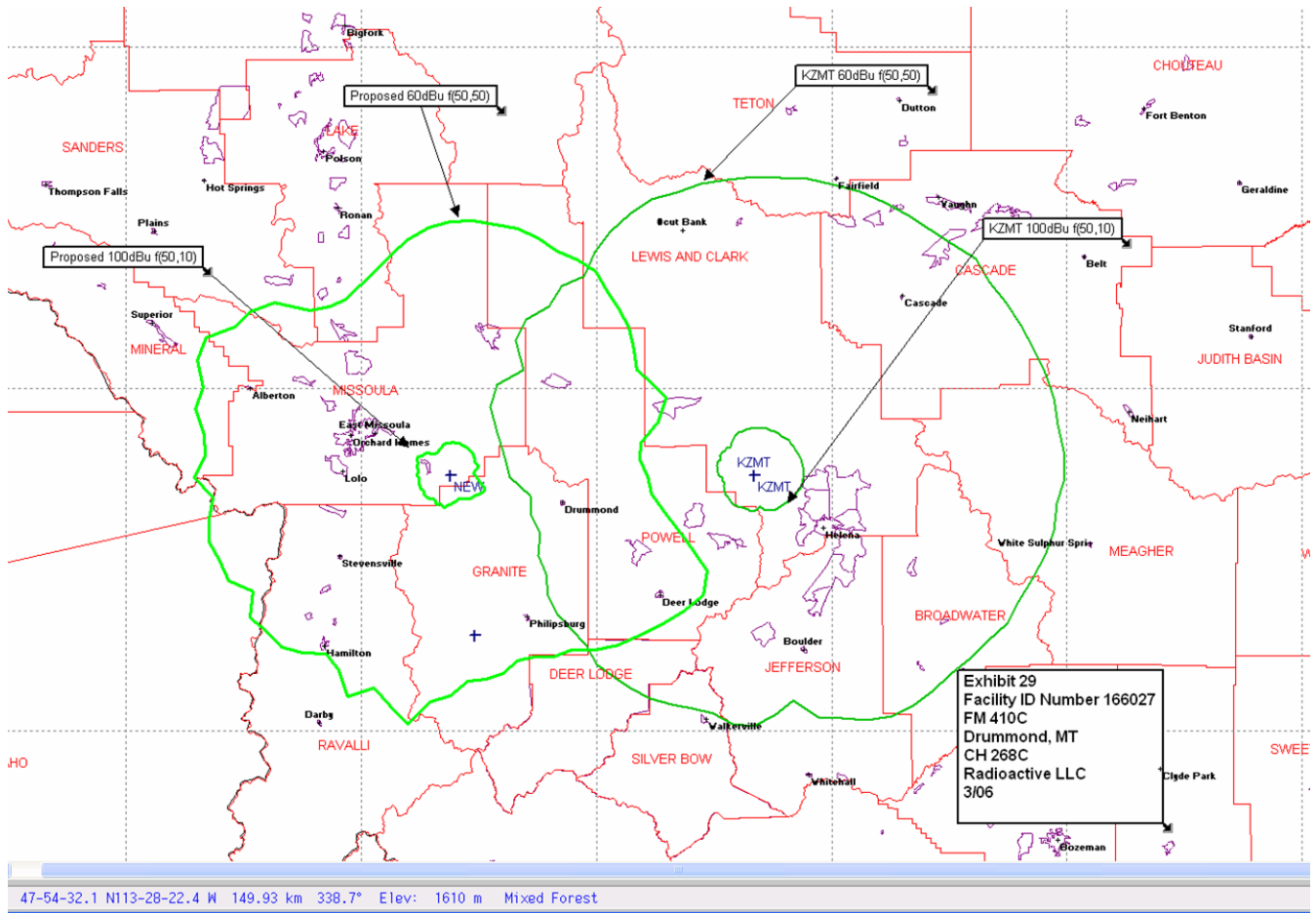


Figure 4.

