

CONSOLIDATED

ENGINEERING EXHIBIT

FCC Form 349 Long Form - Section III-A - Engineering

ENGINEERING STATEMENT

LONG-FORM APPLICATION FOR A NEW FM TRANSLATOR

AT McCALL, ID

SUMMARY:

The Boise Community Radio Project, Inc. (BCRP) hereby submits a 349 Long-Form application, to serve McCall, ID. The original Short-Form submission was BNPFT-20030317MDJ. A minor-change in site is proposed, so an LPFM Preclusion Study is included as Attachment 1.

Exhibit 13a shows that the proposed site move qualifies as a minor-change, in that the Long-Form is mutually-exclusive with the Short-Form.

BCRP is a non-profit organization. This proposal would rebroadcast KRBX, Caldwell, ID, an NCE FM radio station. KRBX would be received through the air. This is not a fill-in proposal.

MAXIMUM ERP COMPLIANCE

The proposed site is west of the Mississippi River. The maximum HAAT along each of the 12 cardinal radials, is 288.6m, along the 210 degree radial. A non-directional antenna is proposed. In compliance with 74.1235(b)(2), the ERP will be limited to 28 watts.

Radial	Radial HAAT(m)
000	-36.5
030	-233.7
060	-431.5
90	-366.2
120	-102.4
150	46.7
180	164.2
210	288.6
240	266.4
270	250.7
300	238.1
330	236.3

EXHIBIT 13

FM OVERLAP REQUIREMENTS

INTERFERENCE PROTECTION

Stations considered:

ID	City	St	Ch	CL	Stat	Prefix	ARN	FID	Dist	Notes
Co-Channel										
20030317MDJ	MCCALL	ID	275	DX	APP	BNPFT	20030317MDJ	156831	22.5	Current app
1st Adjacent Channel										
KPHD	MELBA	ID	274	C	CP	BPH	20111011AJS	164141	119.6	
2nd & 3rd Adjacent Channel										
KSAS-FM	CALDWELL	ID	278	C	CP	BPH	20081205AFC	63920	119.6	
KSAS-FM	CALDWELL	ID	277	C	LIC	BLH	19961121KB	63920	119.6	

There are no co-channel stations within range. Contour protection to first-adjacent stations is shown by **Exhibit 13b**. Contour protection to second- & third-adjacent stations is shown by **Exhibit 13c**. There are no I.F.-spaced stations within range, and this proposal is exempt from I.F. spacing requirements in that the proposed ERP is less than 100 watts.

BROWN BROADCAST SERVICES
INCORPORATED

Michael D. Brown

3740 S.W. Comus St.

Portland, Oregon 97219-7418

503-245-6065

Exhibit 13a - Prop. vs. 20030317MDJ App.

Brown Broadcast Services, Inc.
Job: 20030317MDJ McCall.fmj
Master Database: 2013_Mar_11.fmd
Lat: N44:49:46 Lon: W116:00:12 NAD-27
Scale: 1:333333
Channel: 275 Class: A

rfInvestigator Version 3.5.25
by rfSoftware, Inc.
Date: 3/24/2013 05:15:34 PM

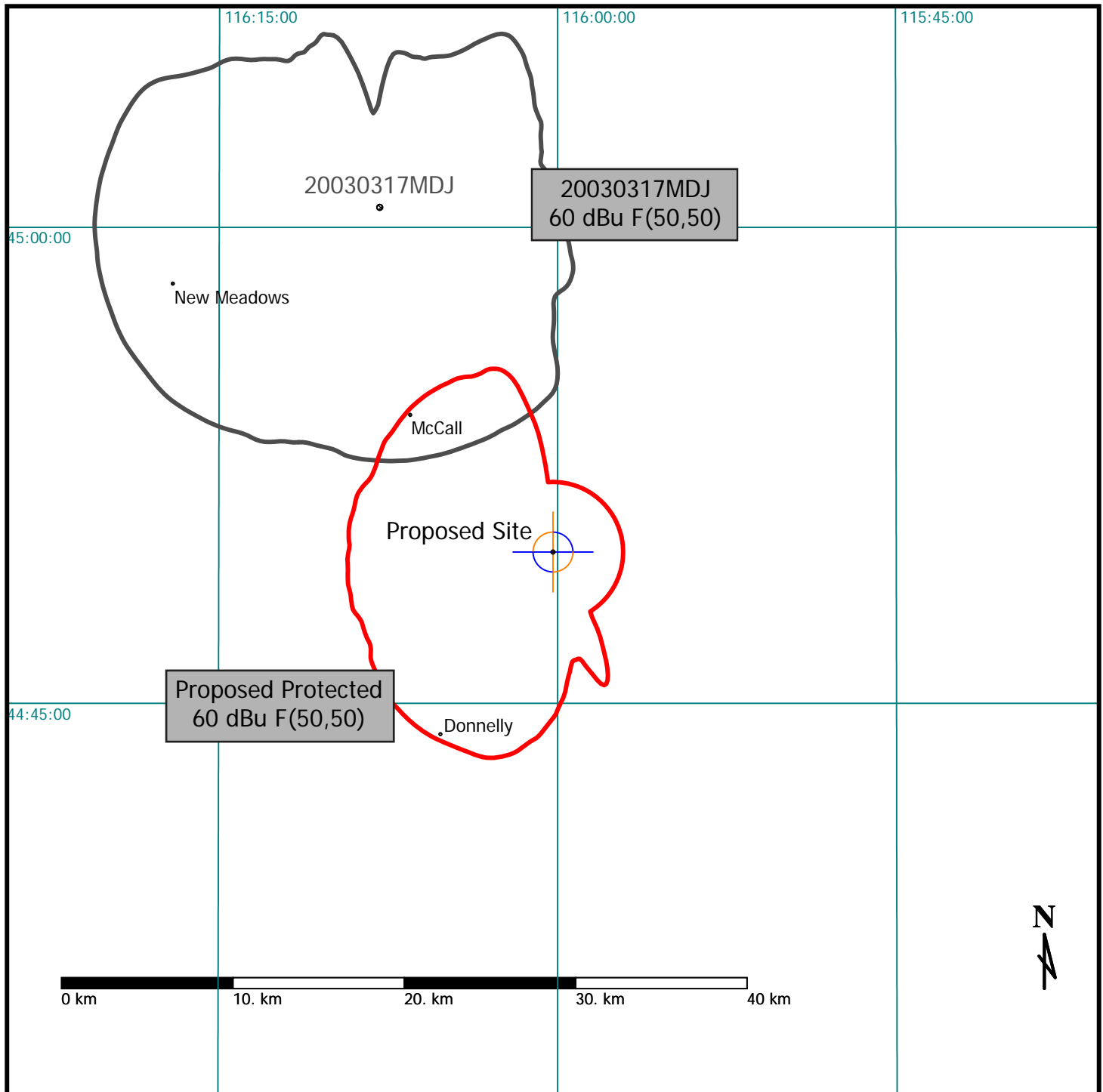


Exhibit 13b - 1st Adjacent Contour Protection

Brown Broadcast Services, Inc.
Job: 20030317MDJ McCall.fmj
Master Database: 2013_Mar_11.fmd
Lat: N44:49:46 Lon: W116:00:12 NAD-27
Scale: 1:1500000
Channel: 275 Class: DX

PROPOSED
Interfering: 54dBu F(50,10)
AFFECTED
Protected: 60dBu F(50,50)

rfInvestigator Version 3.5.25
by rfSoftware, Inc.
Date: 3/24/2013 05:24:01 PM

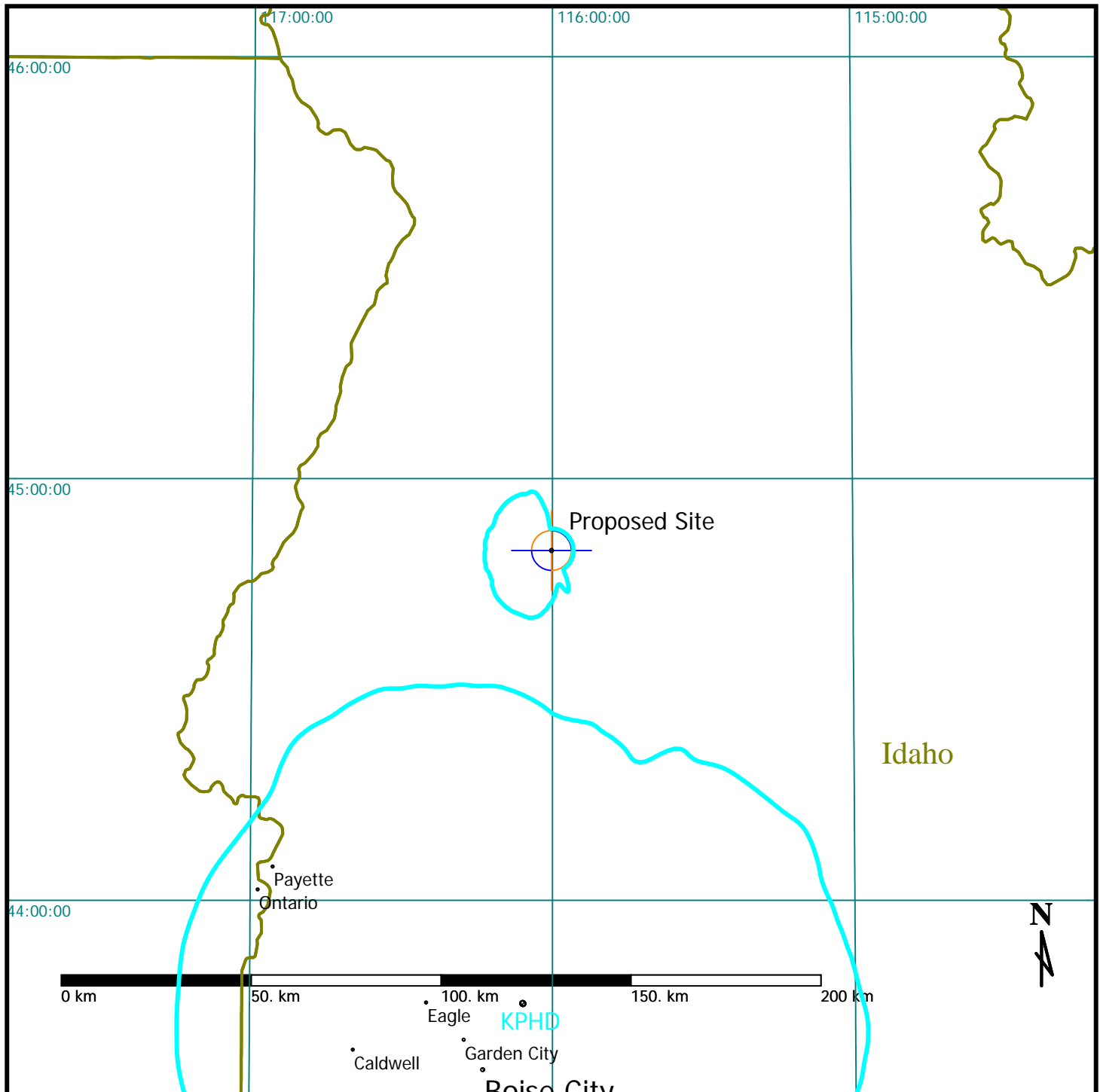


Exhibit 13c - 2nd & 3rd Adjacent Contour Protection

Brown Broadcast Services, Inc.
Job: 20030317MDJ McCall.fmj
Master Database: 2013_Mar_11.fmd
Lat: N44:49:46 Lon: W116:00:12 NAD-27
Scale: 1:1500000
Channel: 275 Class: DX

PROPOSED

Interfering: 100dBu F(50,10)

AFFECTED

Protected: 60dBu F(50,50)

rfInvestigator Version 3.5.25
by rfSoftware, Inc.
Date: 3/24/2013 05:25:37 PM

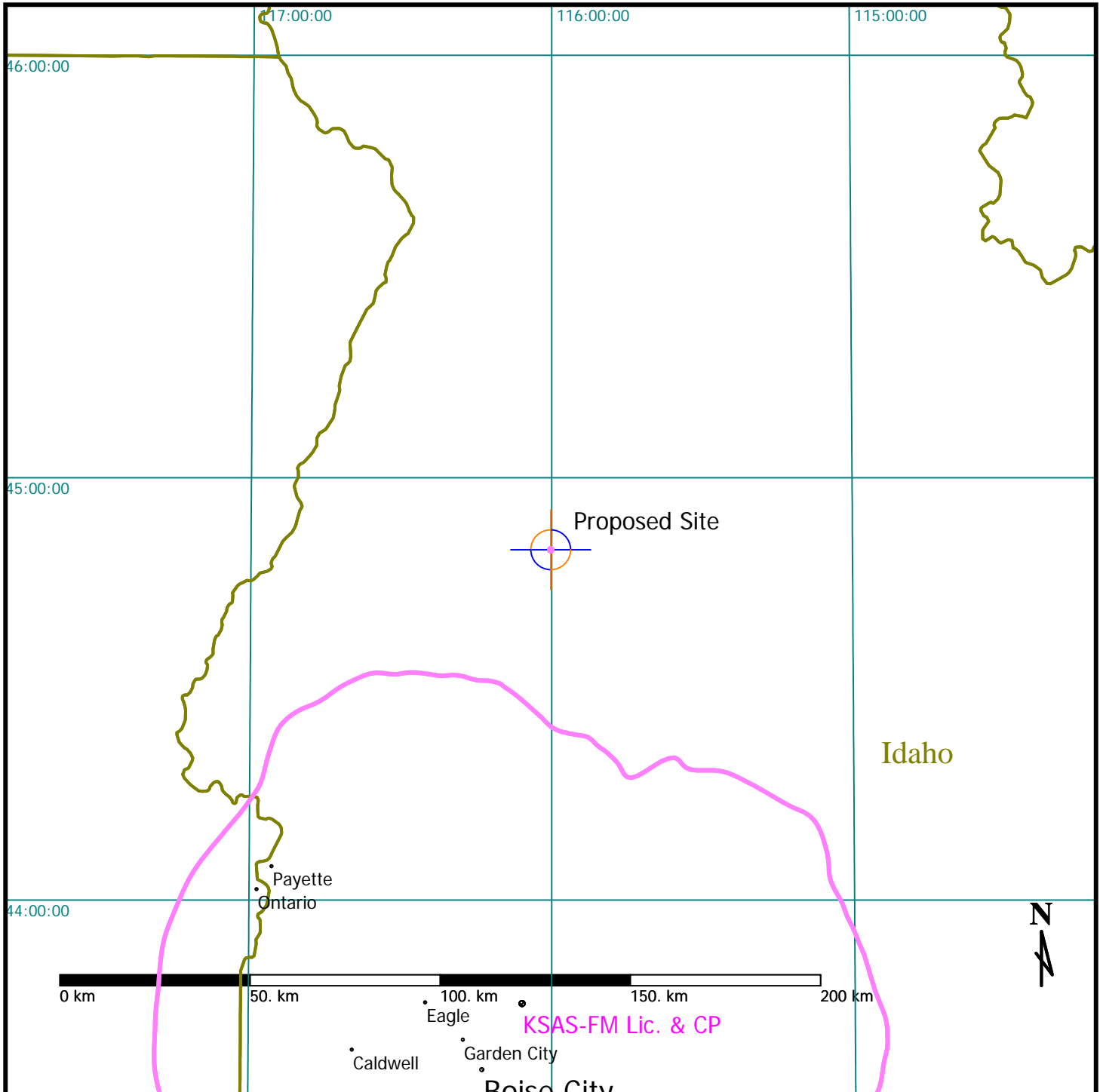


EXHIBIT 17

ENVIRONMENTAL PROTECTION ACT / NIER ANALYSIS

The applicant proposes mounting a new antenna on a 9 meter pole. The proposed center of radiation is 6m AGL. An SWR FMEC/1 antenna is anticipated. Calculations were made using FM Model for Windows, version 2.10, using the “Jampro “Double V” (EPA)” setting. FM Model predicted a peak exposure of $32.1\mu\text{W}/\text{cm}^2$, at 4.0 meters from the tower. This represents 16.5% of the Maximum Permissible Exposure (MPE) of $200\mu\text{W}/\text{cm}^2$ for uncontrolled environments. There are no other RF contributors at or near this site.

The applicant will ensure that public access to the tower is restricted by fencing, anti-climb devices, or other appropriate measures. The site will be posted with appropriate RF exposure warning signs. If tower climbing by authorized personnel becomes necessary, transmitter power will be reduced or operation will cease, as necessary, so as to not exceed the RF exposure limits.