

JOB 107131-AMD VER 1.1  
FAIRBANKS AK

# **CONSOLIDATED ENGINEERING EXHIBIT**

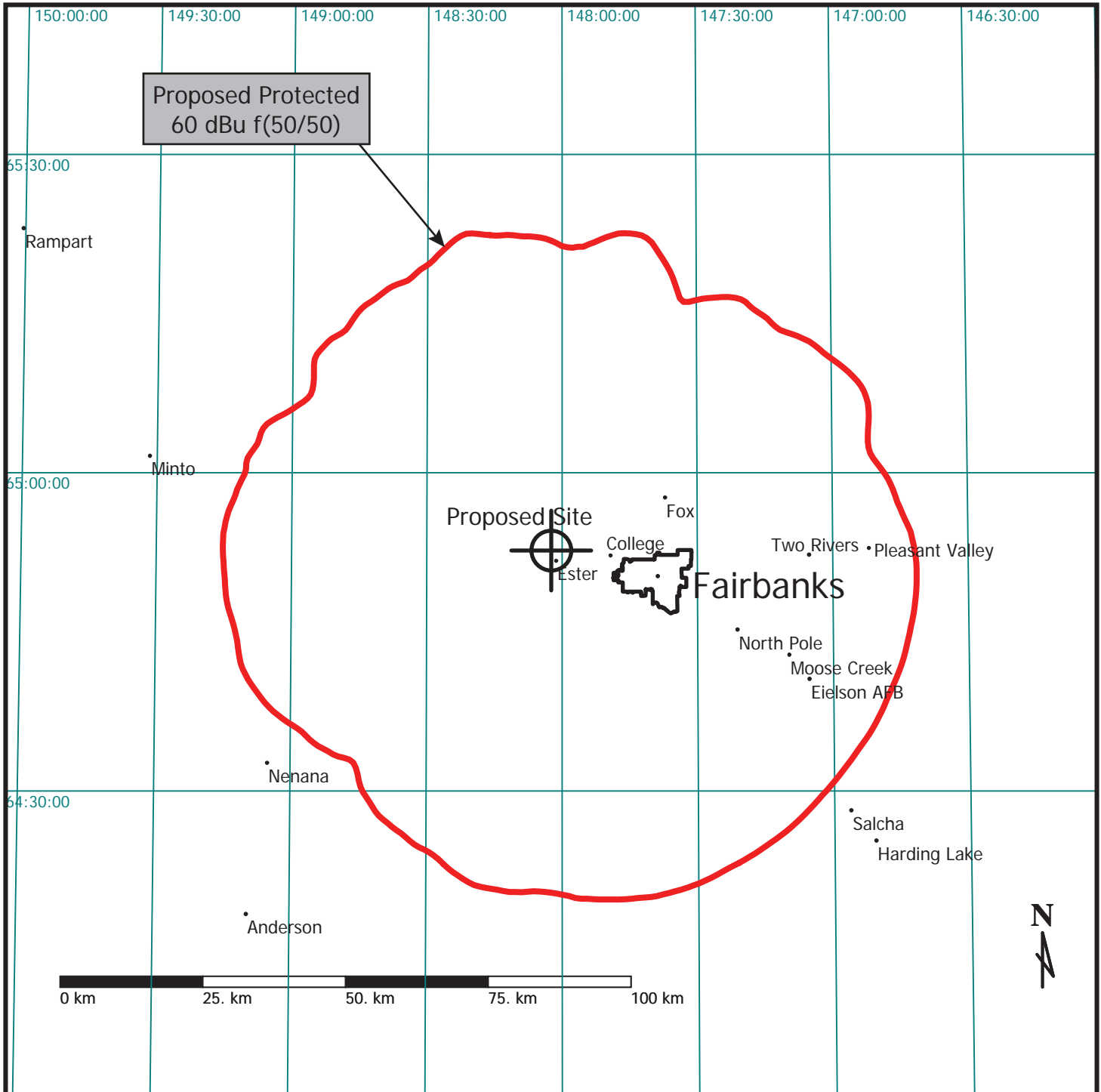
FCC Form 340 - Section VII - FM Engineering

**BROWN BROADCAST SERVICES**  
INCORPORATED  
Michael D. Brown 3740 S.W. Comus St. Portland, Oregon 97219-7418 503-245-6065

## Exhibit 14 - Community Coverage

Brown Broadcast Services, Inc.  
Job: NCE Fairbanks Co gp f o gpv'pqx2; .fmj  
Master Database: 200; \_Pqx\_4; .fmd  
Lat: N64:52:40 Lon: W148:02:25 NAD-27  
Scale: 1:1000000  
Channel: 208 Class: C1

rfInvestigator Version 3.2.41  
by rfSoftware, Inc.  
Date: 334; 422;



# EXHIBIT 16

## CONTOUR OVERLAP PROTECTION TO OTHER RESERVED-BAND STATIONS

Alaska Federation for Community Self Reliance (AFFCSR) hereby proposes a minor-amendment to its original application filed during the October 2007 filing window. AFFCSR proposes to modify the channel to 206C1, from 204C1. No other changes are proposed.

There are no other affected authorizations<sup>1</sup> within range of this proposed facility, This proposal is part of Mutually-Exclusive (MX) Group 300. This proposal meets the contour overlap requirements of §73.509 with respect to all other pending applications, with the exception of six co-channel and 2<sup>nd</sup>-adjacent-channel MX applications in Group 300, highlighted in yellow in the table below.

This proposal does not overlap pending application 20071017AFW at Anderson AK, 20071018AGA at Fairbanks AK, 20071019APR at Fairbanks AK, or 10071019AAI at College AK, but remains MX with them through a daisy chain.

No new mutual exclusivities would be created by this proposal.

Domestic stations considered:

ID	City	St	Chan	CL	Stat	ARN	Dist	Min 207	Clear 207	NOTES
20071022BHK	FAIRBANKS	AK	206	C1	APP	20071022BHK	0.63	245	-244.37	remains in MX group 300
20071022AZI	FAIRBANKS	AK	206	C1	APP	20071022AZI	0.63	245	-244.37	remains in MX group 300
20071018AGC	FAIRBANKS	AK	206	C1	APP	20071018AGC	16.18	245	-228.82	remains in MX group 300
20071017AFZ	CLEAR SKY	AK	206	C2	APP	20071017AFZ	66.89	224	-157.11	remains in MX group 300
20071018AVG	FAIRBANKS	AK	204	C1	APP	20071018AVG	0	82	-82	original app being modified by this amendment
KLUU	NORTH POLE	AK	204	C3	APP	20071022BVO	44.72	76	-31.28	remains in MX group 300
20071022ANU	NORTH POLE	AK	208	A	APP	20071022ANU	50.04	75	-24.96	remains in MX group 300

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<sup>1</sup>Co, 1<sup>st</sup>, 2<sup>nd</sup>, or 3<sup>rd</sup> adjacent, or I.F. related.

## EXHIBIT 22

### ENVIRONMENTAL PROTECTION ACT / NEIR ANALYSIS

The applicant proposes mounting a new antenna on an existing 34 meter tower. The proposed center of radiation is 20m AGL. The proposed antenna is a 0.76 wavelength 3-bay antenna. Calculations were made using FM Model for Windows, version 2.10, for the Shively 6810 series, the ERI "Rototiller" series, and the Jampro "Double V" series. The worst case results predicted a peak exposure of  $62.4\mu\text{w}/\text{cm}^2$ , at 20 meters from the tower. This represents 31% of the Maximum Permissible Exposure (MPE) of  $200\mu\text{w}/\text{cm}^2$  for uncontrolled environments. The other facilities at this site are non-broadcast in nature, and are not significant RF Exposure contributors for humans at ground level.

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.

No modification of the existing tower is proposed, other than side-mounting the antenna. The tower was constructed prior to March 16, 2001. The National Programmatic Agreement generally allows such a collocation without consultation or review under Section 106 and Subpart B of 36 CFR §800. The applicant believes that it is in full compliance with the Agreement, and that no further study is required.