

CONSOLIDATED ENGINEERING EXHIBIT

FCC Form 340 - Section VII - FM Engineering

Brown Broadcast Services

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

Exhibit 14 - Community Coverage

Brown Broadcast Services, Inc.
Job: NCE Fairbanks Update 09242007.fmj
Master Database: 2007_Sep_24.fmd
Lat: N64:52:40 Lon: W148:02:25 NAD-27
Scale: 1:1000000
Channel: 204 Class: C1

rfInvestigator Version 3.2.41
by rfSoftware, Inc.
Date: 9/24/2007 3:52:42 PM

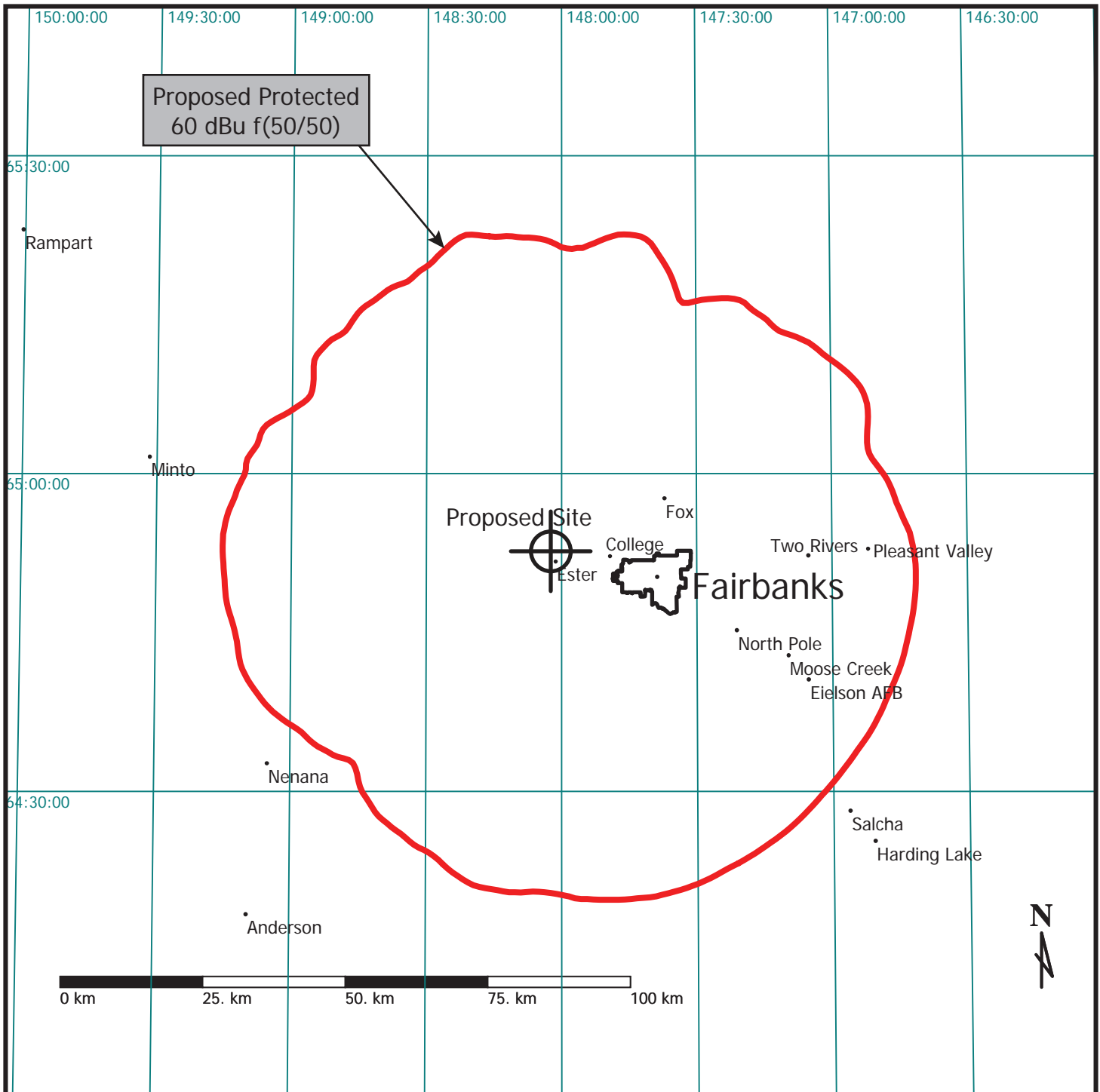


EXHIBIT 16
CONTOUR OVERLAP PROTECTION
TO OTHER RESERVED-BAND STATIONS

The proposed facility meets the contour overlap requirements of §73.509 with respect to all other reserved-band stations, as shown by the attached contour maps.

All contour calculations were made using the methods and procedures described in 47 CFR §73.313(c). FCC 30 second terrain data was employed. Areas were calculated using a spline integration in one-degree increments. Population totals were calculated by testing each U.S. Census-defined block-centroid population point in the region with a point-in-polygon method. The population was summed for each point within the polygon using data from the 2000 Census.

There are no affected stations.

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 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.

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