

TECHNICAL EXHIBIT
MINOR AMENDMENT TO THE APPLICATION
FOR CONSTRUCTION PERMIT
STATION KTWB-DT (FACILITY ID 69571)
SEATTLE, WASHINGTON

MAY 29, 2001

CH 25 1000 KW 290 M

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Technical Narrative

This Technical Exhibit supports a minor amendment to the application for construction permit for digital television (DTV) station KTWB-DT on channel 25 at Seattle, Washington. Station KTWB-DT has an application pending to operate with a non-directional antenna effective radiated power (ERP) of 1000 kW and an antenna height above average terrain (HAAT) of 290 meters (BPCDT-19991022ABF).

Proposed Facilities

This amendment proposes ONLY to increase the overall height of the existing tower from the application on file. Changes are being made to FCC form 301, Section III-D, question 4 (tower registration) and question 6 (overall tower height). Operation at the current site (coordinates: 47-36-57 N, 122-18-26 W) with a non-directional ERP of 1000 kW and antenna HAAT of 290 meters is hereby proposed. There is no proposed change in site coordinates, ERP, antenna HAAT, antenna, allocation studies or coverage.

Allocation Study

Since there is no proposed change in the pending application KTWB-DT operating parameters (ERP, HAAT, site location, antenna, etc.) there is no change in the current allocation study and/or interference analysis. All previous allocation/interference studies included in the previous application of April 22, 2000 remain applicable. There are no changes that would impact Canada from the KTWB-DT application on file.

Radiofrequency Electromagnetic Field Exposure

The proposed KTWB-DT facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed DTV antenna is located 201.2 meters above ground level. The DTV ERP is 1000 kW. A conservative relative field of 0.1 was used for the calculation (see Figure 2B). Therefore, the "worst-case" calculated power density at a point 2 meters (6.6 feet) above ground level is 0.0084 mW/cm^2 . This is less than 3% of the FCC's recommended limit of 0.36 mW/cm^2 for channel 25 for an "uncontrolled" environment.

Access to the transmitting site will be restricted and appropriately marked with warning signs. As this is a multi-user site an agreement will control access. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down. The proposed KTWB-DT operation appears to be otherwise categorically excluded from environmental processing.

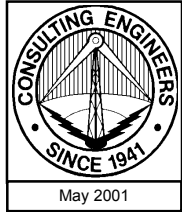
If there are questions concerning the technical portion of this application, please contact the office of the undersigned.

Jonathan N. Edwards

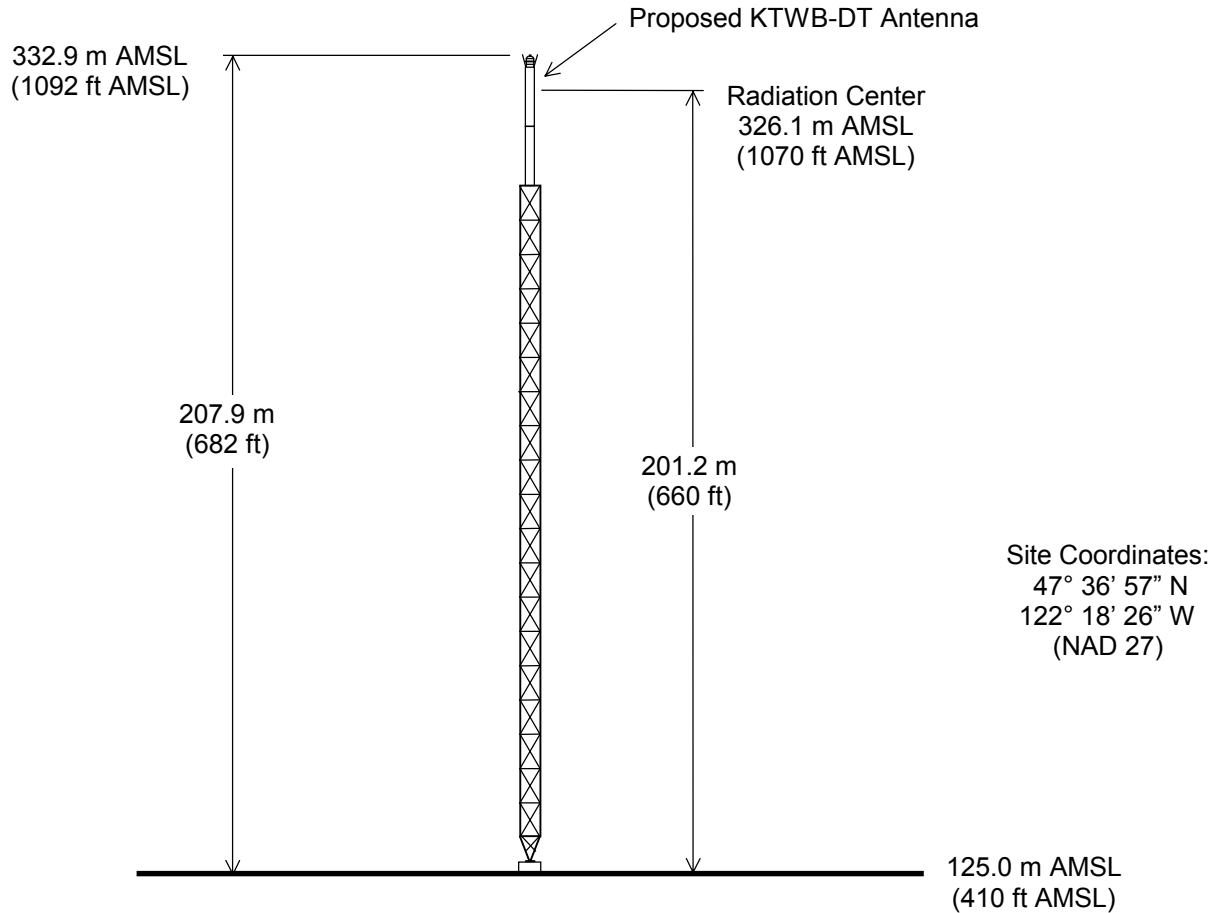
du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237
(941) 329-6000

May 29, 2001

Figure 1



Tower Reg. No. 1226015



Not to Scale

ANTENNA AND SUPPORTING STRUCTURE

STATION KTWB-DT

SEATTLE, WASHINGTON

CH 25 1000 KW 290 M

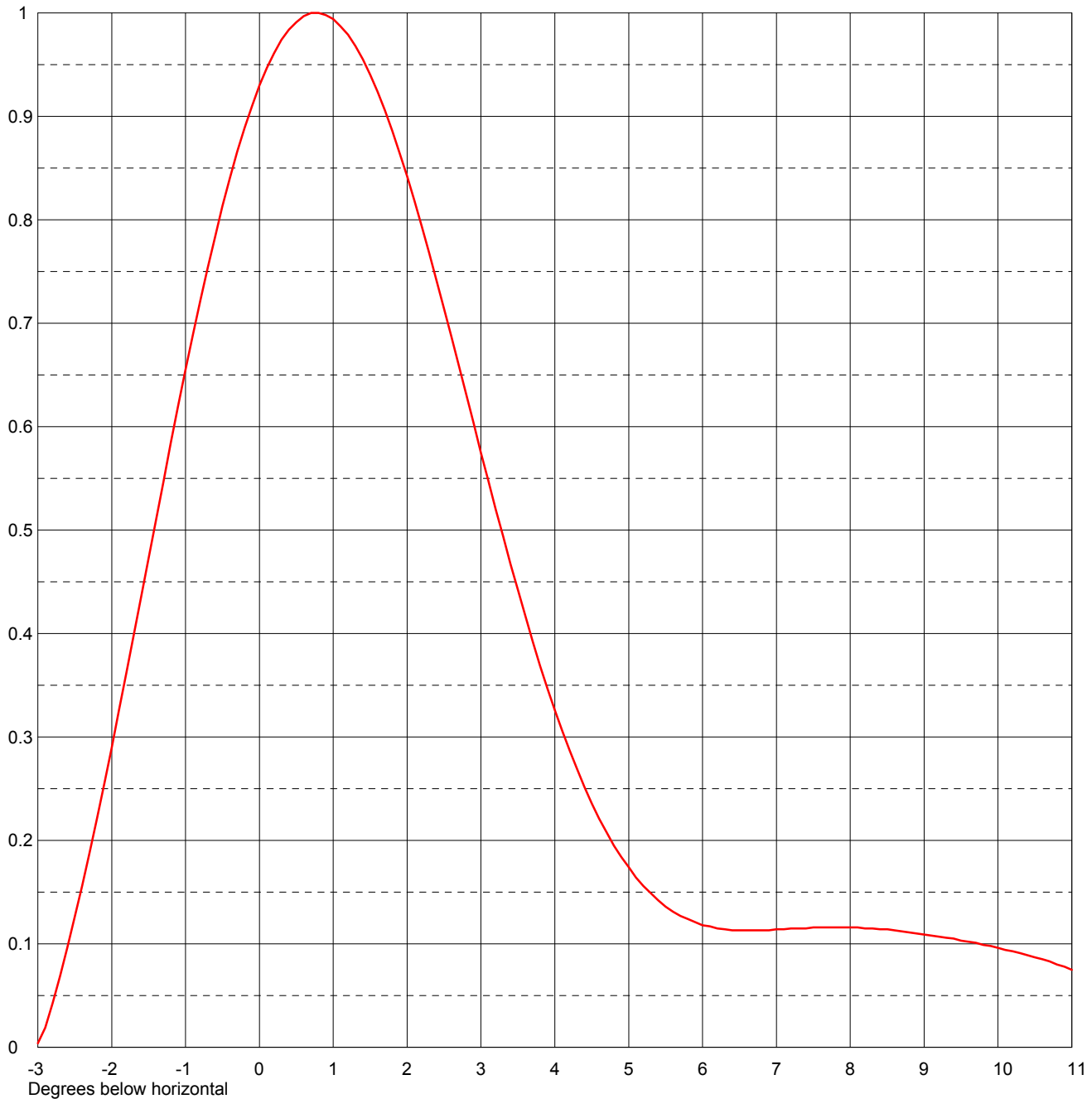
du Treil, Lundin & Rackley, Inc. Sarasota, Florida



Date	26 Apr 2001	
Call Letters	KTWB-DT	Channel
Location	Seattle, WA	
Customer		
Antenna Type	TFU-20GTH O4	

ELEVATION PATTERN

RMS Gain at Main Lobe	17.5 (12.43 dB)	Beam Tilt	0.75 Degrees
RMS Gain at Horizontal	15.1 (11.79 dB)	Frequency	MHz
Calculated / Measured	Calculated	Drawing #	20G175075



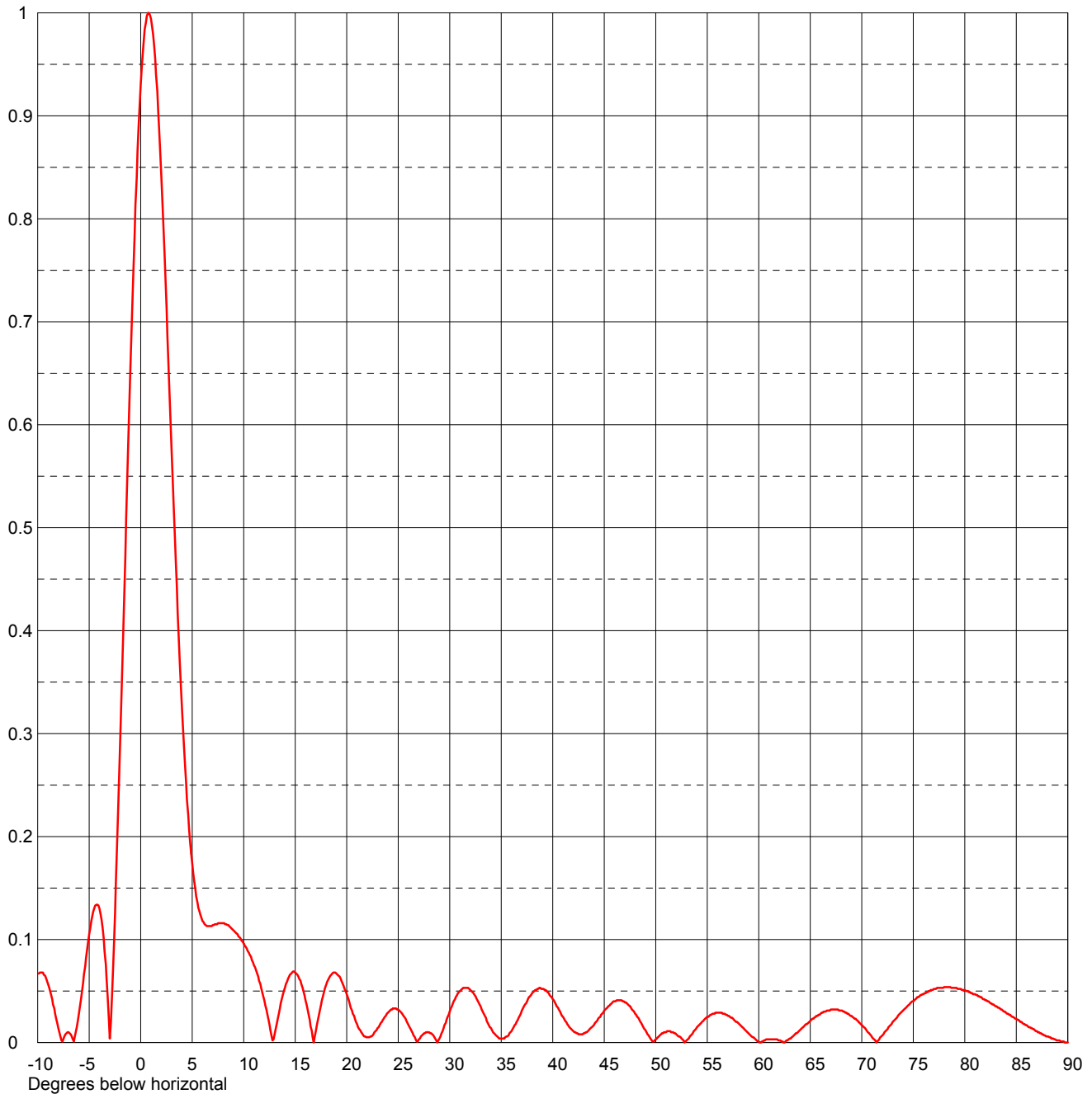
Remarks:



Date	26 Apr 2001	
Call Letters	KTWB-DT	Channel
Location	Seattle, WA	
Customer		
Antenna Type	TFU-20GTH O4	

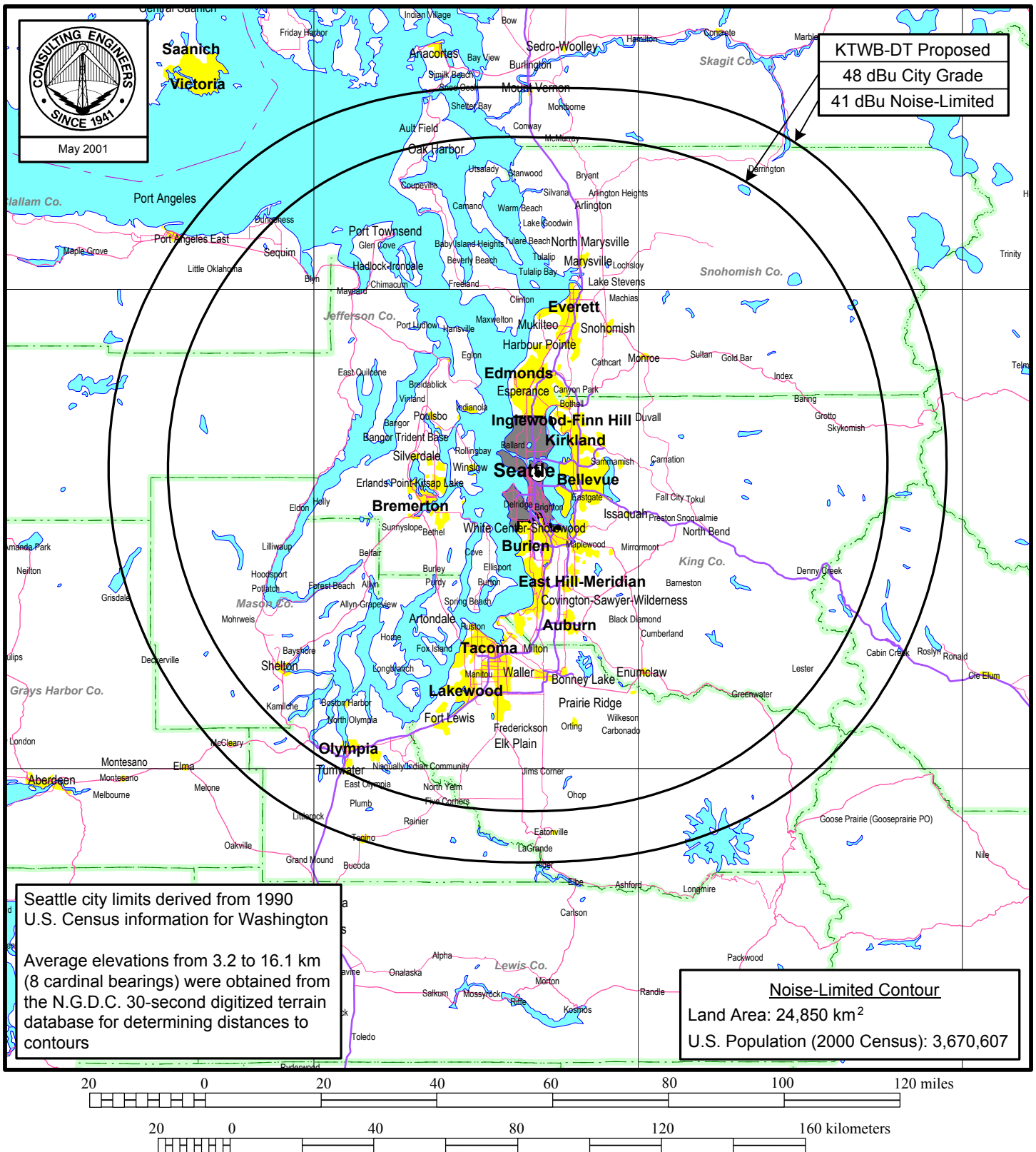
ELEVATION PATTERN

RMS Gain at Main Lobe	17.5 (12.43 dB)	Beam Tilt	0.75 Degrees
RMS Gain at Horizontal	15.1 (11.79 dB)	Frequency	MHz
Calculated / Measured	Calculated	Drawing #	20G175075-90



Remarks:

Figure 3



PREDICTED F(50,90) COVERAGE CONTOURS

STATION KTWB-DT

SEATTLE, WASHINGTON

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du Treil, Lundin & Rackley, Inc Sarasota, Florida