

TECHNICAL EXHIBIT
MINOR MODIFICATION APPLICATION
STATION KIMA-DT (FACILITY ID 56033)
YAKIMA, WASHINGTON

JUNE 28, 2006

CH 33 20 KW (MAX-DA) 278 M

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Technical Narrative

This Technical Exhibit supports a minor modification application for digital television station KIMA-DT on channel 33 at Yakima, Washington. Station KIMA-DT is authorized to operate with a non-directional antenna visual effective radiated power (ERP) of 1000 kW and an antenna height above average terrain (HAAT) of 279 meters (BPCDT-19991027ACN).

The modification to the construction permit will include changing to a directional antenna, a reduction in ERP and a slight reduction in antenna height. There is no proposed change in channel (33), transmitter site or city of license (Yakima). The site coordinates remain (NAD27): 46-31-58 N, 120-30-33 W. A directional antenna maximum ERP of 20 kW and antenna HAAT of 278 meters is proposed. The antenna structure registration number (ASRN) is 1032433.

The proposed facility will not result in any extension of the authorized noise-limited contour as shown in Figure 1. Therefore, the proposal meets the terms of the FCC Filing Freeze for digital television stations.¹ The proposal complies with Section 73.622(f)(8) concerning maximum power and antenna heights.

Allocation Considerations

An interference analysis using the provisions of the FCC's OET-69 program was conducted. The OET-69 results indicate that no new interference will be caused to other station.

¹ See August 2004 Filing Freeze PN, DA 04-2446 (MB released Aug. 3, 2004).

Request for Waiver of the Replication/Maximization Interference Protection Deadline

Although the proposed KIMA-DT operation will come close to meeting the applicable maximization requirements it will not meet the precise requirements set forth in paragraph 78 of the *Second DTV Periodic Review and Report and Order* ("Order"). Therefore, a waiver of the interference protection deadline is respectfully requested. Figure 1 depicts the authorized and proposed 41 dBu contours. The authorized 41 dBu contour provides service to 234,717 persons (from Table 1 of FCC Public Notice dated December 21, 2004, DA 04-3922). The proposed 41 dBu contour will provide service to 225,453 persons (based on OET-69 Bulletin). Thus, the proposed 41 dBu contour will encompass 96% of the population within the authorized 41 dBu contour which is considered to be substantial compliance.

US-Canadian LOU Compliance

The proposed KIMA-DT transmitter site is located within the US-Canadian border area. However, as the proposal does not involve a change in the authorized transmitter site or extension of authorized coverage, it is not believed that Canadian coordination is necessary. It is also noted that the KIMA-DT transmitter site complies with the minimum distance separation requirements applicable to Canadian NTSC and DTV allotments contained in Appendix 2 of the Letter of Understanding between the FCC and Industry Canada related to use of DTV along the common border (September 2000).

Radiofrequency Electromagnetic Field Exposure

The proposed KIMA-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 antenna is located 29 meters above ground level with a maximum ERP of 20 kW. A conservative relative field value of 0.2 was assumed for the calculation (see Figure 2). The calculated power density at a point 2 meters above ground level will be 0.037 mW/cm². This is 9% of the FCC's recommended limit of 0.39 mW/cm².

for channel 33 for an “uncontrolled” environment. Once constructed, RF measurements will be taken to ensure the proposed operation is in compliance with the FCC’s guidelines.

Access to the transmitting site will be restricted and appropriately marked with warning signs. 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. It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner as part of the tower registration process.

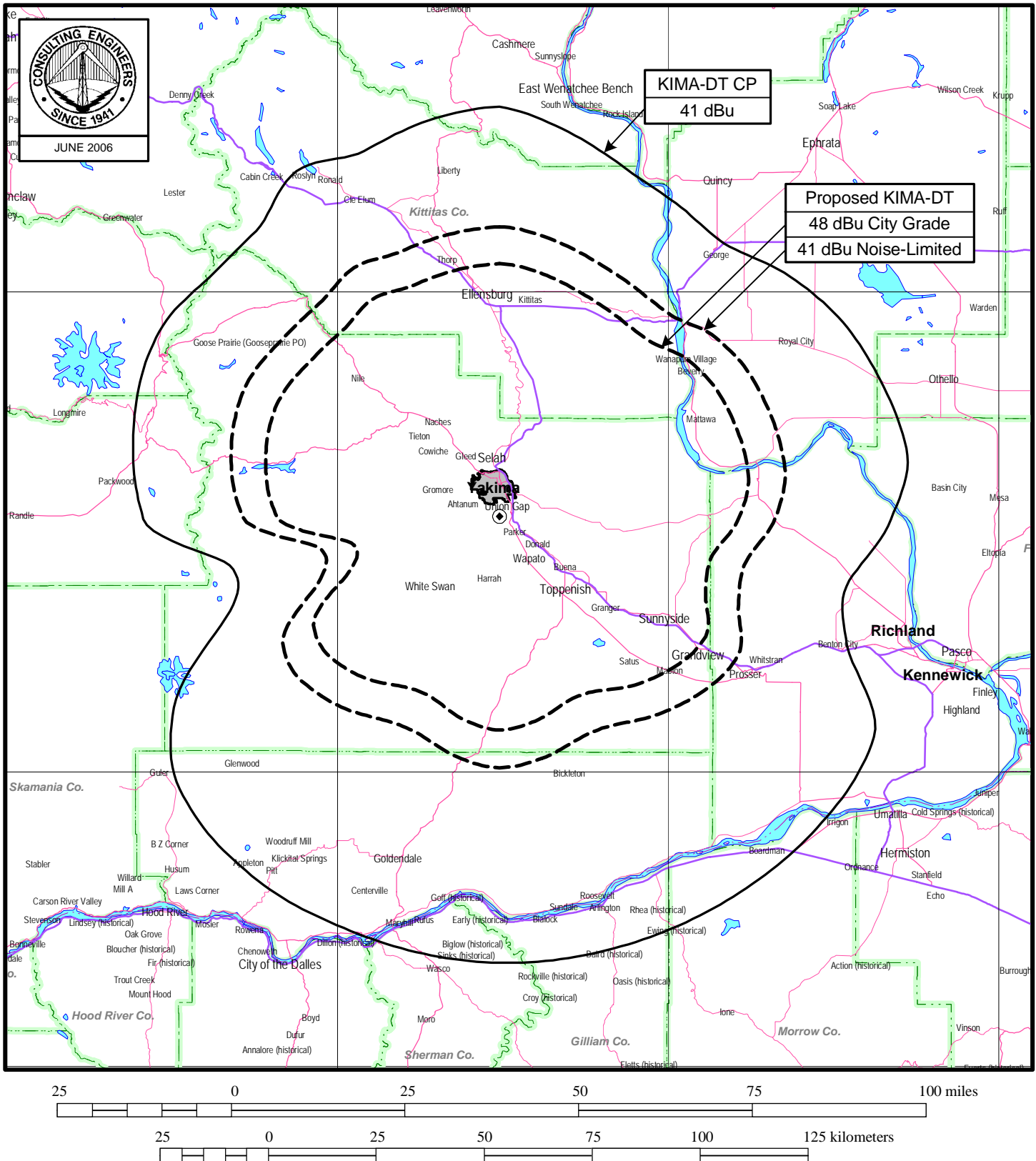


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Figure 1



PREDICTED COVERAGE CONTOURS

STATION KIMA-DT

YAKIMA, WASHINGTON

CH 33 12.5 KW (MAX-DA) 278 M

du Treil, Lundin & Rackley, Inc Sarasota, Florida



Date	28 Jun 2006
Call Letters	KIMA-DT
Location	
Customer	
Antenna Type	TLP-16M
Channel	33

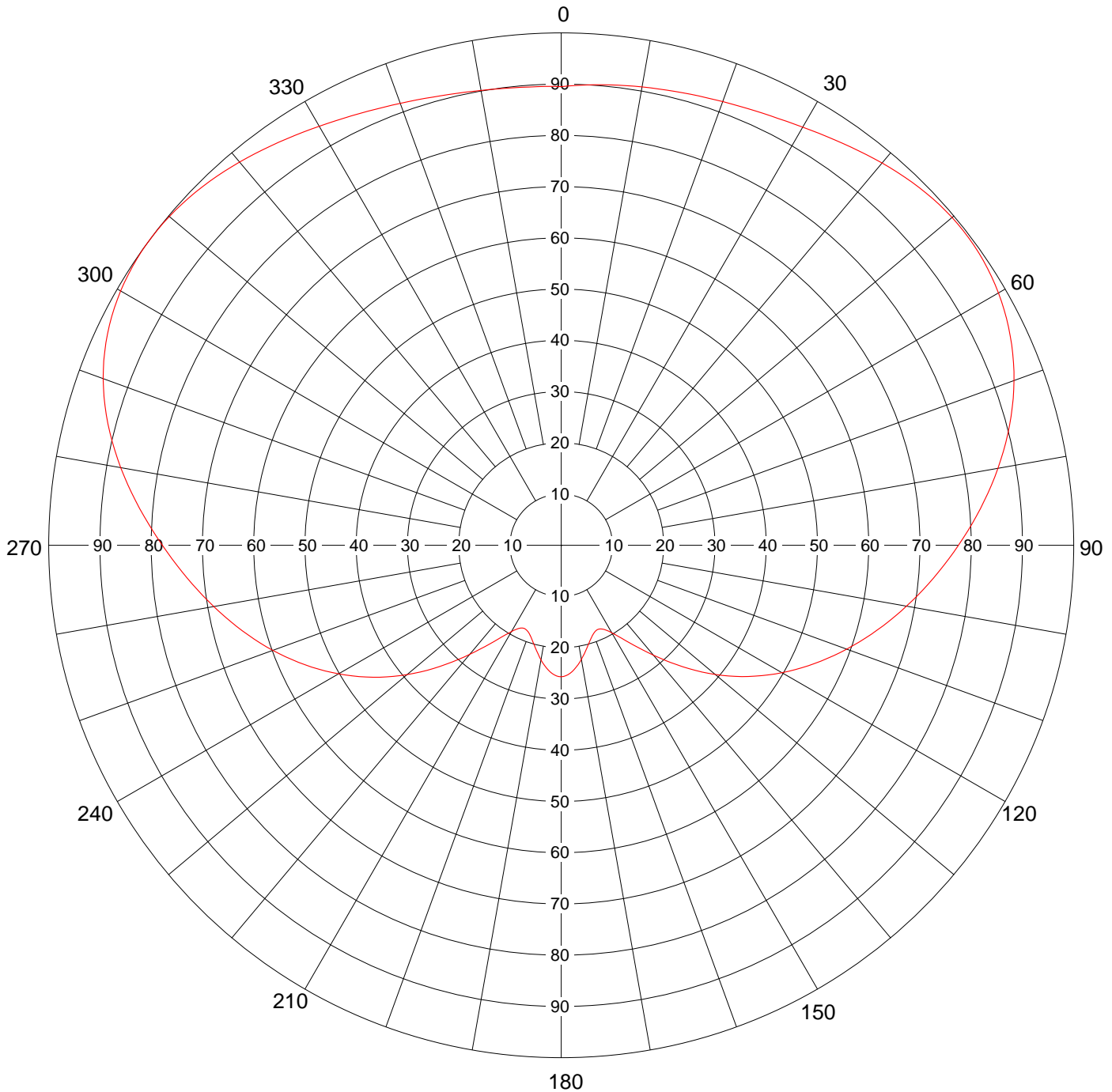
AZIMUTH PATTERN

Gain
Calculated / Measured

1.90 (2.79 dB)
Calculated

Frequency
Drawing #

587 MHz
TLP-M



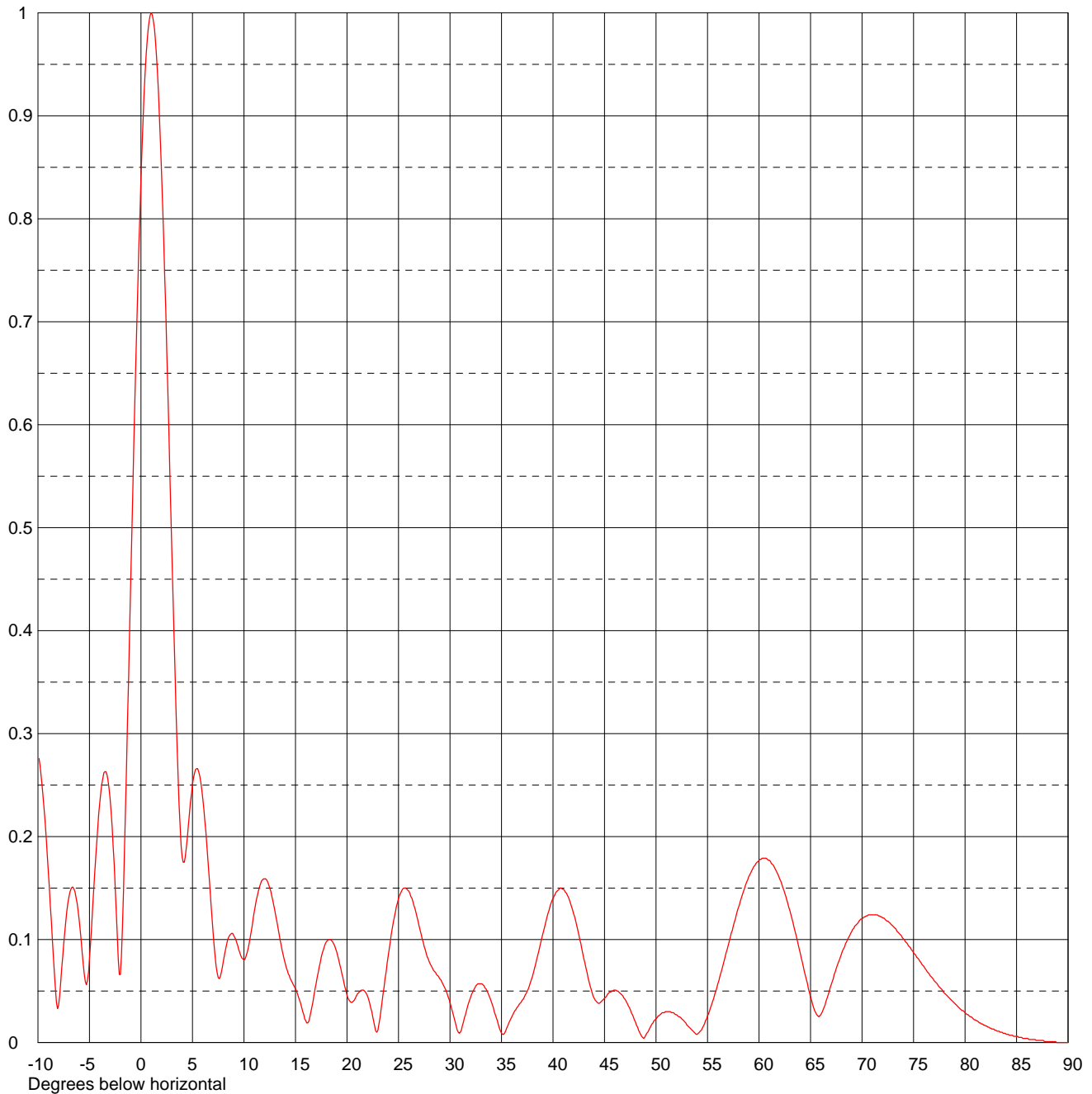
Remarks:



Date	28 Jun 2006	
Call Letters	KIMA-DT	Channel 33
Location		
Customer		
Antenna Type	TLP-16M	

ELEVATION PATTERN

RMS Gain at Main Lobe	16.0 (12.04 dB)	Beam Tilt	1.00 Degrees
RMS Gain at Horizontal	11.3 (10.53 dB)	Frequency	587.00 MHz
Calculated / Measured	Calculated	Drawing #	16L160100-90



Remarks: