

TECHNICAL EXHIBIT
APPLICATION FOR FM CONSTRUCTION PERMIT
FM BOOSTER
RADIO STATION KOAS(FM)
HENDERSON, NEVADA

SEPTEMBER 2, 2003

CH 289 0.099 KW

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Technical Narrative

The technical exhibit of which this narrative is part was prepared in support of an application for construction permit to modify an existing FM booster assigned to Henderson, Nevada for station KOAS(FM).¹ This proposed 99 watt non-directional booster will continue to provide service to the Henderson, Nevada area.

The proposal would not be subject to environmental processing in accordance with Section 1.1306 of the Commission's Rules. An existing supporting structure with an overall height of less than 200 feet is proposed.

Proposed Transmitter Location

An ERI non-directional transmitting antenna is proposed.

The location is uniquely described by the following geographic coordinates:

35° 56' 45" North Latitude
115° 02' 34" West Longitude

¹ This proposal modifies FCC File Number: BLFTB-20010809AAY.

A sketch showing the proposed antenna and supporting structure is shown on Figure 1.

Coverage Contours

Figure 2 is a map showing the proposed booster station's 60 dBu (1.0 mV/m) coverage contour encompassed by the primary station's (KOAS(FM), Channel 289C, Dolan Springs) 60 dBu protected contour.²

Allocation Study

The proposed booster facility appears to satisfy the protection requirements toward first adjacent channel stations as required by Section 74.1204(i) of the Commission's Rules as to all facilities.

Radiofrequency Electromagnetic Field Exposure

The proposed facility has been evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level in accordance with OST Bulletin No. 65, "Evaluating compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields."³ The proposed calculated power density at the base of the tower was calculated using the appropriate equation on Page 23 of the Bulletin.

² The KOAS(FM) construction permit facility, BPH-20021030AAP, is used to define the primary station.

³ OET Bulletin 65, Second Edition 97-01, August, 1997.

The proposed FM facility was 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 ERI "rototiller" type 1 bay antenna is located 56 meters above ground level. The proposed effective radiated power is 0.198 kilowatt (combined horizontal and vertical polarizations). Using a "worst-case" downward relative field value of 1.0, the ground level power density is not predicted to exceed 0.005 mW/cm². This is less than five percent of the Commission's guideline in an uncontrolled environment for a FM radio station.⁴

Pursuant to Section 1.1307(b) of the Commission's Rules, the power density contributions of co-located and nearby broadcast stations are not required to be calculated as the proposed translator's power density contribution is less than five percent of the guideline value.

Access to the transmitting site is restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency electromagnetic fields will not exceed the FCC guidelines.

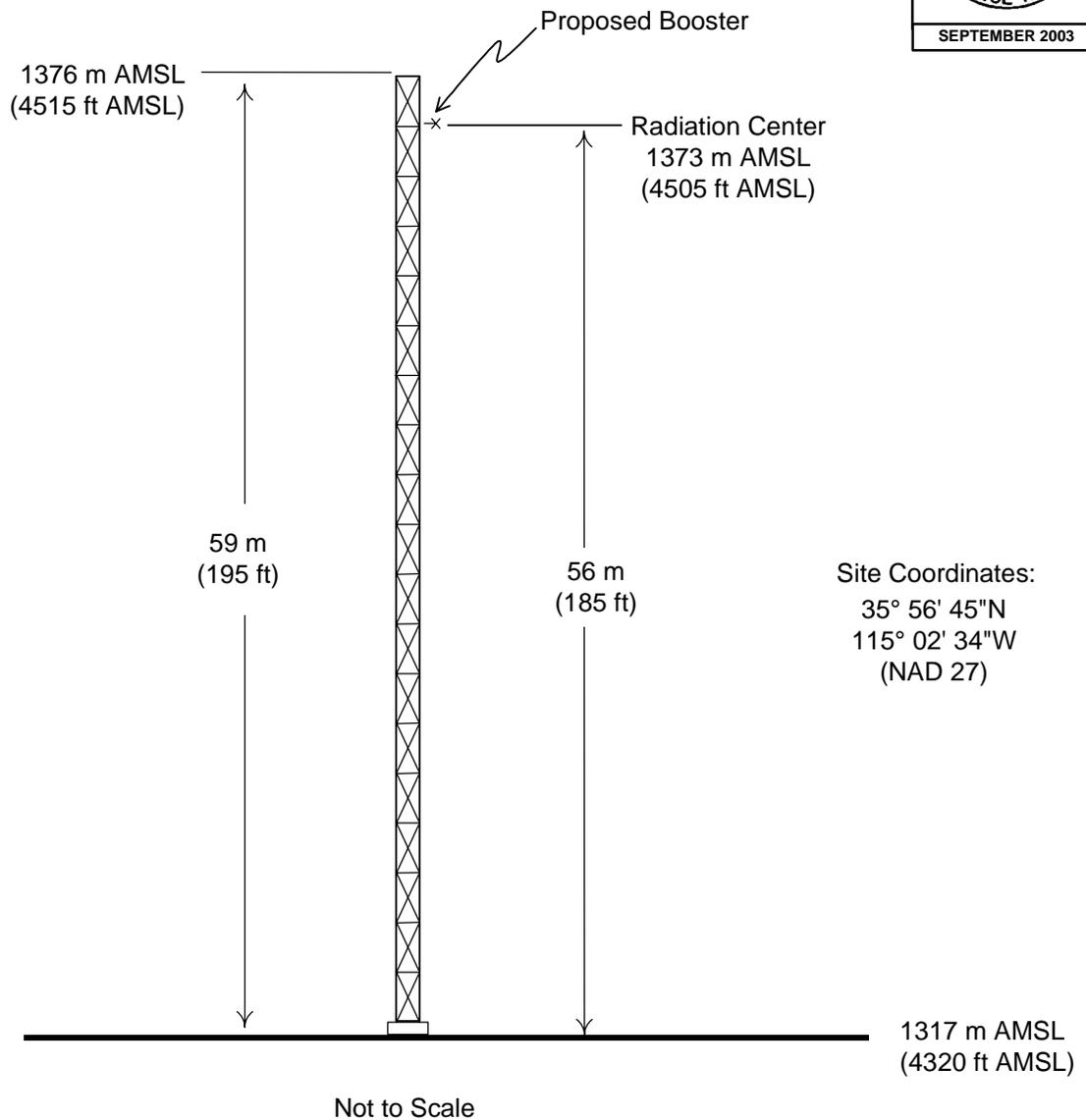
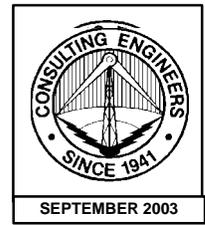
Charles A. Cooper

September 2, 2003

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⁴ The FCC maximum guideline for an FM broadcast radio station in an uncontrolled environment is 0.2 mW/cm².

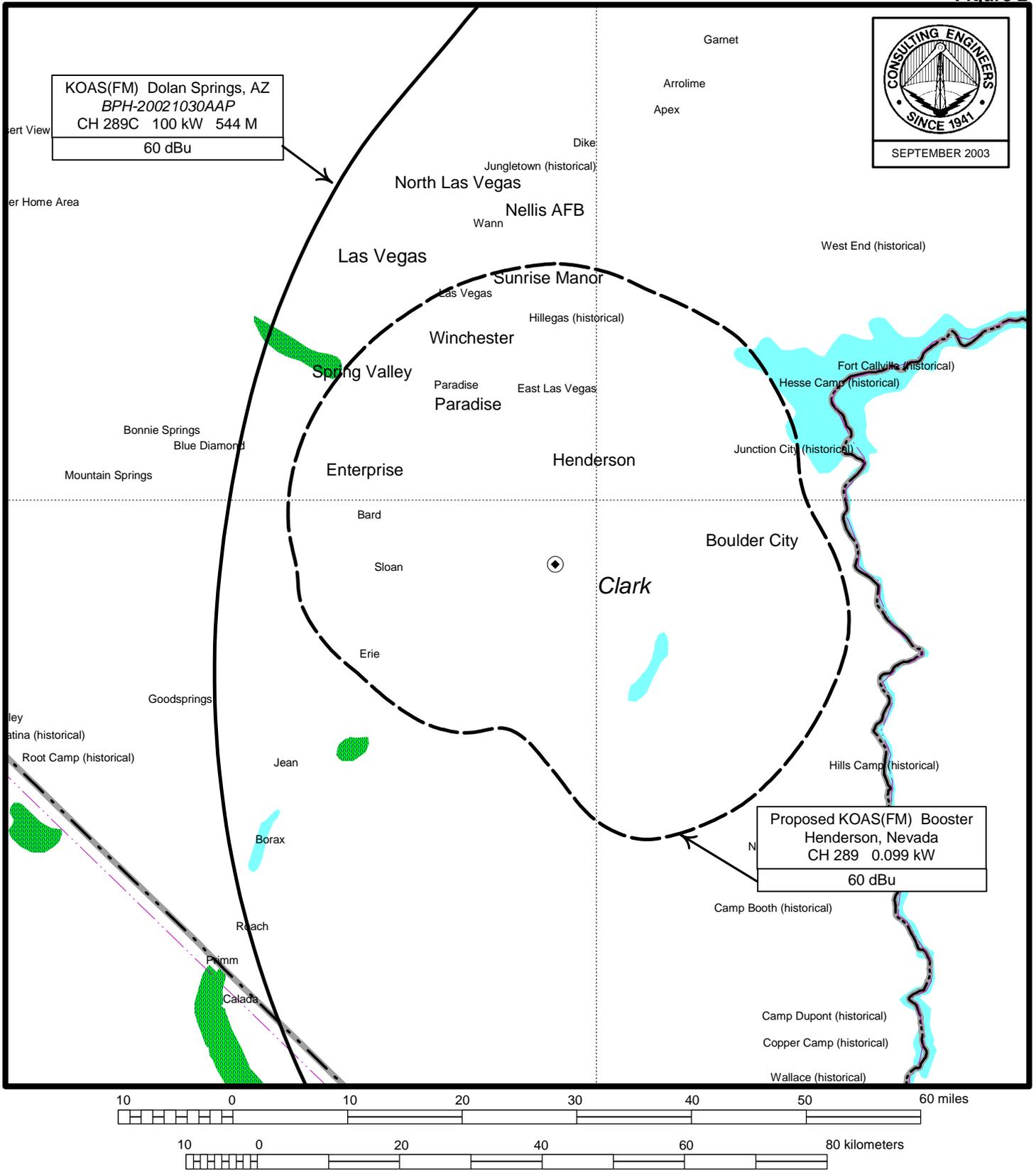
Figure 1



PROPOSED ANTENNA AND SUPPORTING STRUCTURE

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



FCC PREDICTED COVERAGE CONTOURS

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