

ENGINEERING EXHIBIT NO. 1  
APPLICATION FOR NEW FM BOOSTER STATION  
HBC LICENSE CORPORATION  
STATION KHOT-FM1  
PARADISE VALLEY, ARIZONA

This Engineering Exhibit has been prepared on behalf of HBC License Corporation, licensee of FM broadcast station KHOT-FM Paradise Valley, Arizona. HBC proposes to establish a booster station for KHOT-FM to provide service to areas currently receiving limited or no coverage due to intervening terrain.

The proposed booster transmitting facility will be located on the Bank One Building at 201 North Central Avenue in downtown Phoenix, Arizona. The proposed Kathrein antenna will be mounted on the building roof at a height of 158 meters above ground level. There will be no increase in the height of the building, which bears registration number 1201231.

The attached Figure 1 is a map showing the predicted 60 dBu contour for the existing operation of KHOT-FM and for the proposed booster. As will be seen, the proposed booster 60 dBu coverage is entirely within the 60 dBu contour of KHOT-FM.

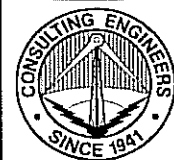
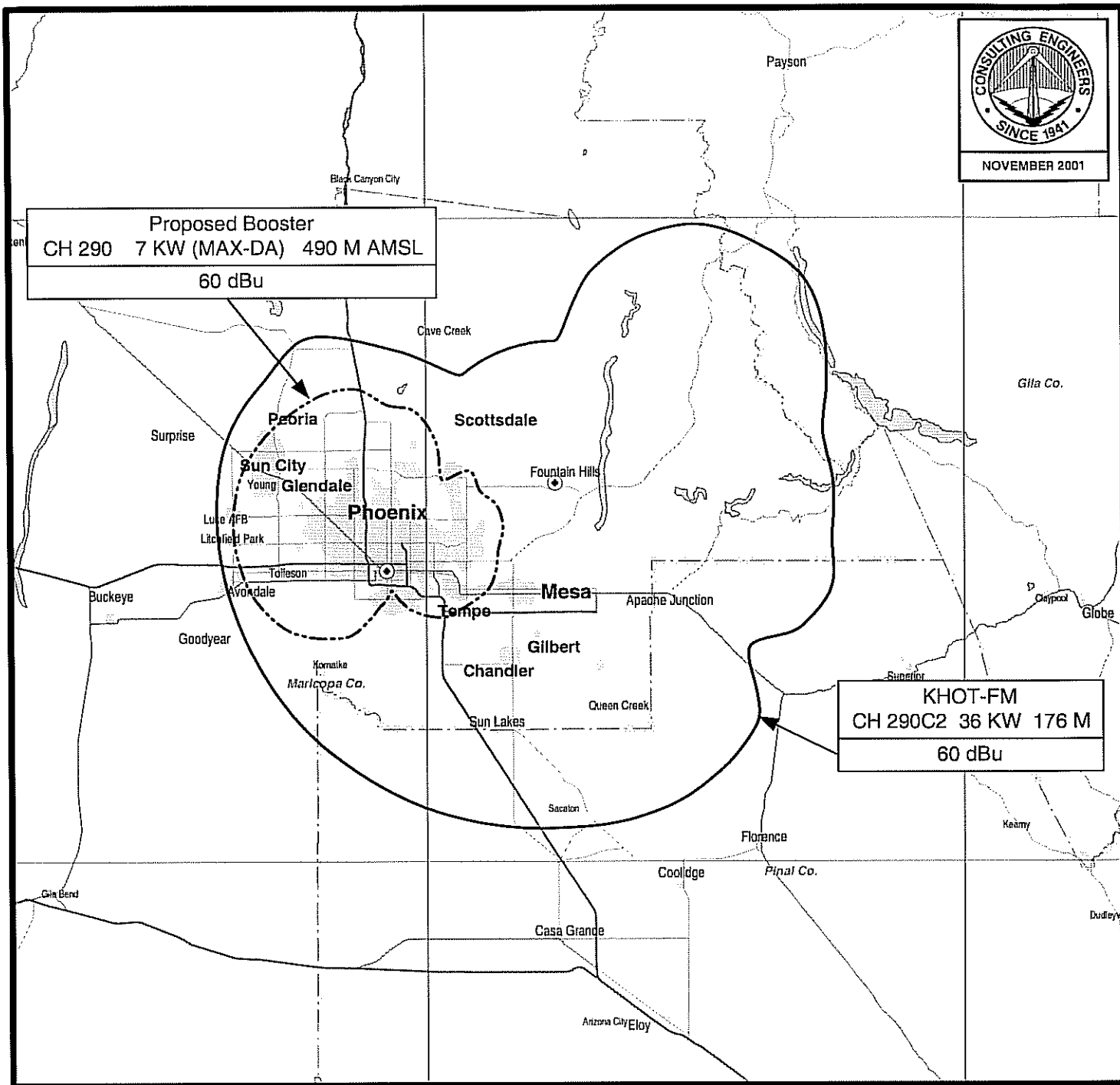
The booster proposal complies with the requirements of 47 CFR 74.1204 as there are no first adjacent channel stations sufficiently close to the proposed booster to warrant concern.

The proposed booster antenna will be located on the elevator penthouse approximately 3 meters above roof level. The building roof is not accessible to the general public. After installation of the antenna, power density measurements will be taken to determine any area on the roof having power density exceeding the FCC's OET-69 Bulletin guideline value. If such an area is measured, it will be appropriately restricted so as to prevent excessive exposure of workers to radiofrequency radiation.



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November 9, 2001



NOVEMBER 2001

Proposed Booster  
CH 290 7 KW (MAX-DA) 490 M AMSL

60 dBu

KHOT-FM  
CH 290C2 36 KW 176 M

60 dBu

10 0 10 20 30 40 50 60 70 80 90 100 miles

10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 kilometers

## PREDICTED COVERAGE CONTOURS

BOOSTER STATION KHOT-FM1  
PARADISE VALLEY, ARIZONA  
CH 290 7 KW (MAX-DA) 490 M AMSL

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