

ENGINEERING REPORT
FM Translator
Minor Change to Licensed Facility
Construction
Permit Application

for

K261BX

as an AM Fill-In Translator for
KPGE(AM) – Page, AZ

File No: BLFT-19890302TF
Facility ID: 40853

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(Exhibit numbering is in response to FCC Online Form 349, Section III-A)

Discussion

This firm has been retained to prepare the required engineering report in support of a Minor Change Construction Permit Application for an FM Translator K261BX – Page, AZ. K261BX is licensed to operate at an AMSL of 1506 meters and an ERP of 0.045 kW operating on CH261D. This proposal requests an AMSL of 1478 meters and an ERP of 0.250 kW operation on CH261D from the same site as licensed. The licensed facility coordinates and elevation have been changed for this proposal to match the actual coordinates and elevation of the existing site. This proposal also requests a change in the directional antenna and rotation. The Fill-In Translator will rebroadcast AM Primary Station KPGE(AM) – Page, AZ (1340 kHz); Facility ID No. 36349.

The Translator as proposed will not be mounted on a tower bearing an Antenna Structure Registration Number.

The proposed 60 dB μ contour of the Fill-In Translator lies wholly inside the greater of the AM primary daytime 2.0 mV/m contour and a 25 mile radius around the AM site. The proposed operation parameters have been changed from the present values. A map of the proposed service area in relation to the primary station service contour has been included in **Exhibit 13.2**. The proposed service area overlaps KPGE(AM) fill-in translator K252FG. **Exhibit 13.2** demonstrates that these translators do not serve substantially the same area rebroadcasting the same signal.

It has been determined the Translator may be used in the area without interference to any existing FM broadcast station or facility. General allocation details are found in **Exhibit 13.3**. It is believed sufficient clearance exists precluding the need for additional contour protection showings.

The applicant certifies the proposed Translator 34 dB μ F(50:10) interference contour does not enter Canadian territory. Documentation of the proposed 34 dB μ F(50:10) interference contour will be supplied upon request.

The NED 03 Second Terrain Database was used for all terrain dependent calculations.

Discussion (continued)

RADIATION PROTECTION: The Commission requires an engineering study regarding compliance with the guidelines for human protection from radiofrequency radiation. This report section is in response to that provision of the Rules. The current Federal Communications Commission guidelines for RF radiation protection are set forth in OET Bulletin No. 65 (Edition 97-01), and the accompanying Supplement A, (Edition 97-01).

The FM Broadcast facility proposed in this application will not produce human exposure to radiofrequency radiation in excess of the applicable safety standards specified in §1.1310 of the Commission's rules concerning RF contributors. **Exhibit 17.1** provides the details of the study that was made to demonstrate compliance. The facility is properly marked with signs, and entry is restricted by means of fencing with locked doors and/or gates. Any other means as may be required to protect employees and the general public will be employed.

In the event work would be required in proximity to the antenna such that the person or persons working in the area would be potentially exposed to fields in excess of the guidelines set forth in OET Bulletin No. 65 (Edition 97-01), the transmitter power will be reduced or the station will cease operation during the critical period.