Request for Extension of Special Temporary Authorization

TV Translator Station K28NP-D, Caballo, NM (Facility ID 130751)

The Regents of New Mexico State University (NMSU), licensee of television translator station K18LP-D, Caballo, New Mexico, respectfully request an initial six-month extension of the existing Special Temporary Authority for operation of the station on Channel 28, as granted under call K28NP-D. NMSU originally filed for the STA on April 20, 2017, and it was granted by FCC on May 2, 2017. The STA is currently due to expire on November 2, 2017.

NMSU previously licensed the digital conversion of this TV translator facility on channel 18. However, unique terrain circumstances resulted in the viewership of K18LP-D in the area of Truth or Consequences, New Mexico receiving the RF channel 18 signal of station KDBC-TV, El Paso, Texas, rather than the desired signal of K18LP-D from Caballo Mountain. As explained in the original STA request, shadowing effects, and the path and power of KDBC-TV transmissions from El Paso made it difficult for viewers' DTV receivers to distinguish what signal to decode and caused viewership confusion and frustration.

As further detailed in the prior filing, NMSU and its engineers explored various options to remedy the intermittent interference, and determined that the translator's use of channel 28 offered the best opportunity to resolve the situation. There are no interference issues from El Paso with respect to Channel 28, and while NMSU also operates nearby translator K28GJ-D, it provided the attached letter consent with regard to the Channel 28 STA with the original filing. Moreover, no other interference is caused by the current Channel 28 STA operation, as shown by the attached interference analysis.

NMSU respectfully submits that an extension of STA will serve the public interest by allowing NMSU to maintain existing digital operation over K28NP-D to serve local viewers with noncommercial educational programming. This TV translator rebroadcasts the signal of co-owned noncommercial educational TV station KRWG-TV, Las Cruces, New Mexico.

NMSU is a noncommercial educational licensee, and a governmental entity, and it operates this translator station on a noncommercial educational basis. The licensee is therefore exempt from FCC filing fee requirements, pursuant to Section 1.1116 of the Commission's Rules, and the facility is exempt from FCC regulatory fees, pursuant to Section 1.1162 of the Rules.

NM STATE UNIVERSITY
KRWG FM/TV

KRWG FM & TV
MSC TV22
New Mexico State University
P. O. Box 30001
Las Cruces, NM 88003-8001
575-646-2222

4.17.17

To whom it may concern:

The licensee of K28GJ, Regents of New Mexico State University, has received notice that the proposed facility for channel 28 with technical parameters as described in the FCC application to which this letter is attached, is predicted to cause interference to FCC file BLDTT20100115ACL. By way of this letter, the licensee of K28GJ acknowledges that it will accept any interference caused by the proposed facilities of this application.

If you have any questions concerning this acknowledgement, you are welcome to contact me at the phone number listed.

Respectfully,

Glen T. Cerny
Director, University Broadcasting

GREG BEST
CONSULTING, INC.
16100 Outlook Avenue
Stilwell, KS 66085
816-792-2913

October 23, 2017

Federal Communications Commission
Media Bureau
445 12th Street SW
Washington, DC 20554

Dear Sir,

This will serve as the exhibit for the RF Radiation Hazard calculation for this proposed facility.

The RF radiation near the ground (2 meters above ground) can be calculated using the OET-65 formula for broadcast television stations taking into account the following factors

S= power density in watts per square meter

P= total Effective Radiated Power from the antenna

F= field radiated on the axis to the ground level

R= distance to the ground level (actually 2 meters above ground)

Therefore, given the following data for the proposed facility:

P= 1.0 kwatts

R=Radiation center above ground level – 2 meters)
= 13.2 meters

F= 0.1 for UHF antennas

T1he RF radiation near the ground level can be calculated with the following result:

1.91 μwatts/cm^2

which is 0.51 % of the general population exposure limit of 371 μw/cm^2 for this channel 28 facility

Should you have any questions regarding this information please contact me.

Sincerely,

Gregory L Best, PE

President