

**ATTACHMENT**  
**Form 405**  
**WI2XFX LICENSE RENEWAL NARRATIVE**  
**File Number 0108-EX-CR-2021**

prepared for  
**University of Alaska – Fairbanks**  
**Geophysical Institute**  
**FRN: 0025173931**

The High-Frequency Active Auroral Research Program (HAARP) facility located in Gakona, Alaska is dedicated to furthering understanding of the processes and mechanisms that inhabit the upper atmosphere. It is operated and funded by the Geophysical Institute at the University of Alaska – Fairbanks (“UAF”).

The applicant requests the renewal of WI2XFX (file number 0131-EX-CM-2020) for its high frequency ionospheric heater. No changes are proposed herein for the frequency ranges, bandwidth, and emission designators from those specified on the current license.

This facility will continue to support ionospheric research in the HF frequency range to enable better prediction of ionospheric conditions and to understand the plasma physics of the solar-terrestrial interaction of the Earth’s atmosphere and magnetic field with the solar wind.

From 2004 to 2014, prior to ownership transfer to UAF and licensing by the FCC, this facility was owned and operated by the US Air Force under DoD/NTIA authority. This unique research facility operated for many years without complaints of objectionable interference from other licensed operators.

In the preparation of this renewal application, it was discovered that the geographic coordinates in prior FCC filings differ from the actual location of the facility. It is unknown how the originally filed coordinates were derived. The facility has been at the same location since it was first constructed and authorized. No actual location change is proposed herein. The coordinates below represent the center of the ionospheric heater antenna array.

**NL 62-23-33; WL 145-09-03 (NAD 83)**

The current contact for the licensee as indicated on Form 405 is:

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