

Application for New FM Station

Channel 211C2, 90.1 MHz, Hagatna, Guam

Technical Statement

Guam Educational Radio Foundation is applying for FM Channel 211, 90.1 MHz to serve the island of Guam with additional Public Radio Programming. Although the Commission's Records indicate that this channel is occupied by KKGU, it is verifiable that KKGU altogether ceased operating more than three years ago. 47 U.S.C. Section 312(g) states "If a broadcasting station fails to transmit broadcast signals for any consecutive 12-month period, then the station license granted for the operation of that broadcast station expires at the end of that period, notwithstanding any provision, term, or condition of the license to the contrary."

Since that license expiration is automatic and requires no action by the Commission, the channel previously used by KKGU is legally vacant and rightfully open for applications in this window.

This application fully complies with §73.213, §73.207 and §73.509. There are no cochannel, 1st, 2nd or 3rd adjacent channels within 210 Km (130 miles) of the proposed transmitter site, therefore §73.213 and §73.215 are not applicable to this application.

The attached contour coverage map indicates that Hagatna Guam, the proposed City of License is entirely within the 70.0 dB μ V/m and in fact most of the island of Guam is in the 70.0 dB μ V/m contour.

Environmental

Guam Educational Radio Foundation is proposing to use a 4 Bay Circular polarized non direction antenna with 0.85λ spacing to mitigate RF Exposure near the tower. After selection of the antenna model from the manufacture the Commission will be provided with the antenna azimuth and elevation plane patterns.

Tower Registration

As shown on this TOWAIR determination, the 54 m (175") tower does not require registration:

DETERMINATION Results

Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided.

Your Specifications

NAD83 Coordinates

Latitude	13-25-59.3 north
Longitude	144-42-46.2 west

Measurements (Meters)

Overall Structure Height (AGL)	54
Support Structure Height (AGL)	54
Site Elevation (AMSL)	310

Structure Type

LTOWER - Lattice Tower

There are no International Agreements Quiet Zones, or Protected Monitoring Stations affected by this application.

This Statement was prepared by:

Robert F, Kelley, Jr
Guam Educational Radio Foundation Chief Operator/Engineer
rkelly@guamtech.com

Radio Coverage Tool

Description	Guam New Station
TX	2.5 KW FM w/ 4 bay antenna
RX	USA 60/70 dB μ V/m
Frequency	90.1 MHz
Base Name	KPRG
Latitude	13.43315000 °
Longitude	144.71283300 °
Latitude	13° 25' 59.34"N
Longitude	144° 42' 46.20"E
UTM (WGS84)	55P E252355 N1486186
Elevation	310.4 m
Base Ant. Height	35 m
Base Ant. Gain	5.4 dBi
Mobile Ant. Height	9.0 m
Tx Power	2500.00000 W
Tx Line Loss	0.2 dB
Weak signal field	60.0 dB μ V/m
Strong signal field	70.0 dB μ V/m
Weak signal covered area	7006 km ²
Strong signal covered area	5975 km ²
Weak signal population reached	169664 pop
Strong signal population reached	156906 pop
Landcover used	Yes
Two rays method used	No
User ID	guambob
Radio coverage ID	555B54575FD8 0
Generated on	11/4/2021 8:31:28 PM

Guam Educational Radio Foundation Proposed Radio Coverage 90.1 MHz Channel 211C

