Section III - Engineering

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1. Channel: 32

2. Frequency Offset:

   [X] No offset [ ] Zero offset [ ] Plus offset [ ] Minus offset

3. Translator Input Channel No. 8

4. Primary station proposed to be rebroadcast:

Call Sign	City	State	Channel
KUAM-TV	Agana	Guam	8

5. Antenna Location Coordinates: (NAD 27)

   13° 29' 13.8" [X] N [ ] S Latitude

   144° 46' 50" [X] E [ ] W Longitude

6. Antenna Structure Registration Number: _____

   [X] Not applicable [ ] FAA Notification Filed with FAA

7. Antenna Location Site Elevation Above Mean Sea Level: 25 meters

8. Overall Tower Height Above Ground Level: 22.9 meters

9. Height of Radiation Center Above Ground Level: 15 meters

10. Maximum Effective Radiated Power (ERP) Towards Radio Horizon: 0.15 kW

11. Maximum ERP in any Horizontal and Vertical Angle: 0.15 kW

12. Transmitting Antenna: ☐ Nondirectional ☒ Directional "Off-the-shelf" ☐ Directional composite

Manufacturer	Model
Scala	1X1KBBU

Directional Antenna Relative Field Values:

Rotation: 250 ° ☐ No rotation ☐ N/A (Nondirectional)

Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value
0		60		120		180		240		300	
10		70		130		190		250		310	
20		80		140		200		260		320	
30		90		150		210		270		330	
40		100		160		220		280		340	
50		110		170		230		290		350	
Additional Azimuths											

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

CERTIFICATION

13. **Interference.** The proposed facility complies with all of the following applicable rule sections. Check all those that apply. ☒ Yes ☐ No See Explanation in Exhibit No. A

TV broadcast analog system protection.

a. ☒ 47 C.F.R. Section 74.705.

Digital TV station protection.

b. ☒ 47 C.F.R. Section 74.706.

Low Power TV and TV translator station protection.

c. ☒ 47 C.F.R. Section 74.707.

14. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (*i.e.*, the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine RF compliance. An **Exhibit is required.** ☒ Yes ☐ No See Explanation in Exhibit No. A

Exhibit No. A

By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

PREPARER'S CERTIFICATION ON PAGE 6 MUST BE COMPLETED AND SIGNED.

SECTION III PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name KEVIN FISHER	Relationship to Applicant (e.g., Consulting Engineer) Broadcast Consultant	
Signature	Date October 4, 2005	
Mailing Address SMITH and FISHER, 2237 Tackett's Mill Drive, Suite A		
City Lake Ridge	State or Country (if foreign address) Virginia	ZIP Code 22192
Telephone Number (include area code) (703) 494-2101	E-Mail Address (if available) Kevin@smithandfisher.com	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of TRINITY BROADCASTING NETWORK, permittee of television translator K32GB, Channel 32 in Agana, Guam, in support of this application for modification of Construction Permit BNPTT-20000830ATA to specify a new site.

It is proposed to mount a standard Scala directional antenna on the side of an existing tower atop an 11-meter building in Tamuning. It is important to note that the newly proposed 74 dBu contour is completely contained within that which obtains from authorized K32GB. Since there are no co-channel or adjacent-channel broadcast facilities located within 300 miles of the site specified herein, the instant proposal meets the contour overlap requirements of Sections 74.705, 74.706 and 7.707 of the Commission's Rules.

Due to the diminutive height of the structure and its proximity to the nearest airport runways, the FAA has not been notified of this application. For the same reason, FCC Antenna Structure Registration is not required. This conclusion is supported by the Commission's TOWAIR program.

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Agana facility. Employing the methods set forth in OET Bulletin No. 65 and considering a main-lobe effective radiated power of 0.15 kw, an effective antenna height of 15 meters above ground, and assuming a vertical relative field value of 20 percent at the steeper elevation angles for

EXHIBIT A

the proposed antenna, maximum power density two meters above ground of 0.00059 mw/cm² is calculated to occur near the base of the building. Since this is only 0.2 percent of the 0.39 mw/cm² reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 32 (578-584 MHz), this proposal may be excluded from consideration with respect to public exposure to nonionizing electromagnetic radiation. In addition, the roof on which the antenna is mounted is secure from unauthorized public access. Therefore, there are no uncontrolled environments on the roof of the building.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive nonionizing radiation.

I declare, under penalty of perjury, that the foregoing statements are true and correct to the best of my knowledge and belief.

KEVIN T. FISHER

October 4, 2005