

Attachment  
from Mr Davis  
Email on 11/30/2021

Amendment file w/ Son on 11/30/2021

November 29, 2021

Mr. Son Nguyen, Federal Communications Commission  
From: Pan American Broadcasting Co, Inc.  
Licensee of AM Station KDAZ  
RE: Application File Number: BL-20210528AAN

Dear Mr. Nguyen:

This Supplemental Showing is responsive to your letter of July 7, 2021 in which you request additional spurious emission measurements. A copy of the letter is made part of this Showing, as well as a follow-up e-mail extending Program Test Authority.

The frequencies in use at the site are KDAZ at 700 kHz. and KJFA at 840 kHz. Thus, the two primary intermodulation frequencies will be 560 kHz. and 980 kHz., with 1120, 1260, 1400, and 1540 kHz. being of additional interest.

With both KDAZ and KJFA confirmed as operating at licensed power, field intensity measurements were taken on Saturday, November 13th between 2:45 and 3:00 PM, in the street in front of 4317 Blumenshine Circle, a distance of 0.777 kilometers at an azimuth of 7.17 degrees true from the common non-directional tower. A Potomac FIM-41 field intensity meter, serial number 487 was employed.

The field measurements are as follows:

	540 kHz.:	<0.030 mv. *	<sup>413</sup> -30.458
KDAZ -	700 kHz.:	161 mv.	= 44.137
	840 kHz.:	355 mv.	= 51.005
KJFA -	980 kHz.:	0.124 mv. **	
	1120 kHz.:	none detectable	
	1260 kHz.:	none detectable	
	1400 kHz.:	none detectable	
	1540 kHz.:	none detectable	

offspring 75KHz or more  
43 + 10 log (P watts)

KDAZ  
→ 69.5 dB or more  
KJFA = 75.6 dB or more

\* = 540 kHz. The intermodulation product (audio from KDAZ 700) was audible below the signal from AM station KNMX, Las Vegas NM, 153 km. distant from the measurement location. The 540 kHz. product is at least 74.59 decibels below KDAZ 700, and 81.46 decibels below KJFA 840.

\*\* = 980 kHz. The intermodulation product (audio from KJFA 840) was audible below the signal from AM station KMIN, Grants, NM, 105.8 km. distant from the measurement location. The signal from KMIN was 0.124 mv., and could be nulled to <0.030 mv. The 980 kHz. product is at least 74.59 decibels below KDAZ 700, and 81.46 decibels below KJFA 840.

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According to Section 73.44(b) of the Commission's Rules, emissions removed by more than 75 kHz must be attenuated at least  $43 + 10 \text{ Log (Power in watts)}$  or 80 dB below the unmodulated carrier level, whichever is the lesser attenuation. Thus, the emissions must be attenuated 69.5 decibels below KDAZ 700 kHz., and 75.6 decibels below KJFA 840 kHz. It is demonstrated through the measurements outlined above that the KDAZ / KJFA facility as constructed exceeds the Commission's requirements for the suppression of spurious products.

Station KDAZ is presently operating under Program Test Authority extended to December 5, 2021. It is respectfully requested that such Authority be extended until such time as the operating license for Station KDAZ is granted.

Sincerely,

Don Davis  
Technical Consultant  
505-261-0130