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STA REQUEST FOR KMBY-LD

Introduction

This document will describe the circumstances that the licensee of KMBY-LD faces, the reason for the request for the STA, the proposed temporary facilities for KMBY-LD, how the public interest is served by the authorization of the STA, and the expected length of time for the need of the temporary facility.

Background and Proposed Temporary Facility

KMBY-LD has been displaced from its channel 19 licensed facility by interference from KSTS and has received a construction permit (FCC File #0000202770) to change channel to UHF channel 29. The antenna used for the licensed facility on channel 19 will not work on channel 29. The licensee has specified a new antenna that will work on any UHF channel but it has not been delivered and meanwhile KMBY-LD has ceased operation on channel 19 due to the large amount of interference. The licensee has a temporary antenna which can be used on channel 29 to permit reception of the programming while the new antenna is being manufactured. Thus, the licensee requests a temporary authorization to operate on channel 29 using the temporary antenna. The proposed temporary transmission facility consists of a type certified transmitter operating on channel 29 using a full service emission mask filter, 200 ft of 1 5/8" foam transmission line, and a 4DR-8-2HW antenna array consisting of a pair of stacked panel antennas mounted 154 ft AGL. This will produce an ERP of 5.62 kW. See the calculation below

1.0 kW	xmtr output
.794	T-Line efficiency
7.08	Antenna gain
ERP = 1000 x .794 x 7.08 = 5622 W	

As evidenced by the attachments made to this application, the proposed facility does not cause any interference, and is compliant with RF exposure limits from OET-65.

Summary

The proposed facility complies with all interference and FCC rules regarding the operation of the facility. The public interest is served by the proposed facility and the licensee of KMBY-LD looks forward to the final implementation of the construction permit and license to cover for KMBY-LD. Assuming no significant unexpected events, the duration of the STA is not expected to last more than 3 months.

Sincerely,



Consulting Engineer