

MULLANEY ENGINEERING, INC.

4937 G - GREEN VALLEY ROAD
MONROVIA, MARYLAND 21770

LICENSE APPLICATION
NEW FM, ELKO, NV

Special operating conditions or restrictions

- #1 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

Applicant is in compliance with condition #1

- #2 BEFORE PROGRAM TESTS COMMENCE, sufficient measurements shall be made to establish that the operation authorized in this construction permit is in compliance with the spurious emissions requirements of 47 C.F.R. Sections 73.317(b) through 73.317(d). All measurements must be made with all stations simultaneously utilizing the shared antenna. These measurements shall be submitted to the Commission along with the FCC Form 302-FM application for license.

The required measurements will be submitted upon installation of the transmitter combiner. Until such time that the combiner is installed, host station KLKO has agreed to go silent. Thus allowing the station (this station) to commence operation as required by its construction permit. KLKO is co-owned and co-located.

No combined or diplex operation will occur until the measurements have been submitted. The applicant will do so prior to the commencement of diplex/combined operation with KLKO. Applicant is in compliance with condition #2 until such time that diplex operation commences.

- #3 Table of Alotments
- | Community | Channel No. |
|-----------|--------------|
| Elko, NV | Delete 284C3 |
| Elko, NV | Add 284C2 |

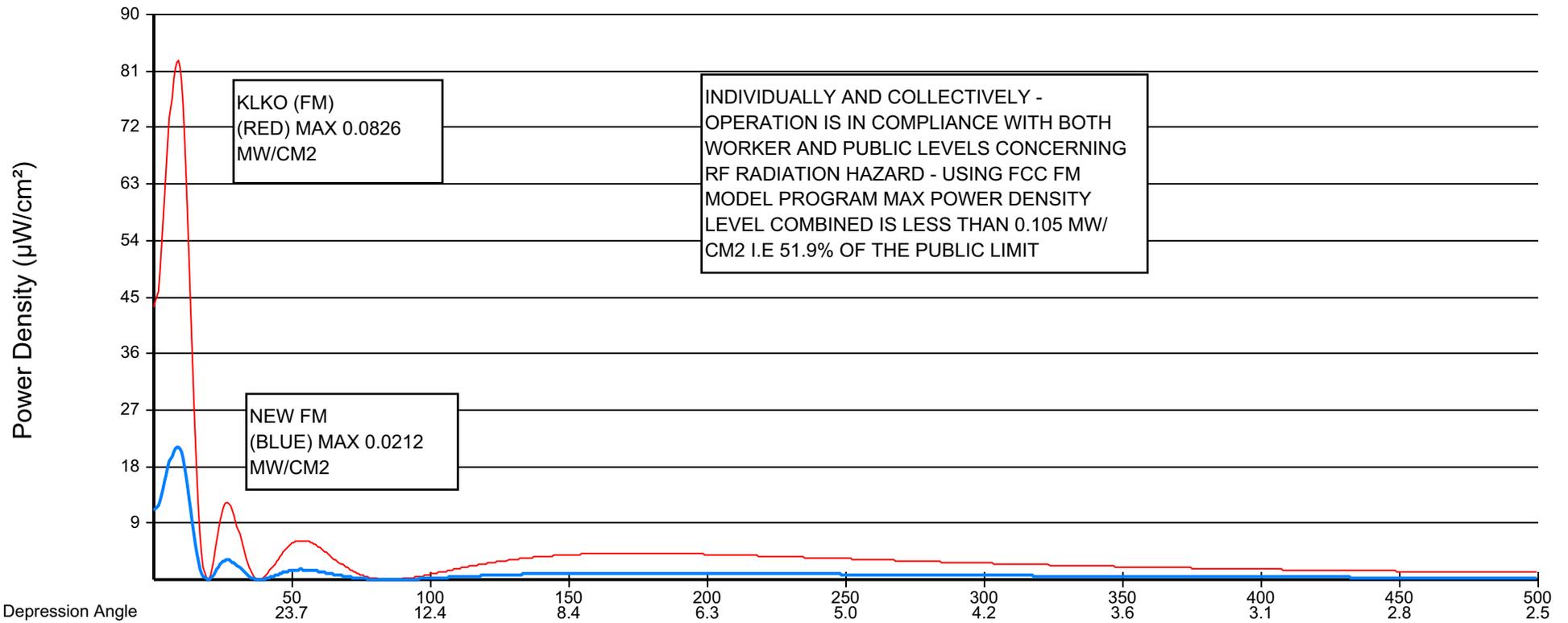
Applicant is in compliance with the station class and channel.

- #4 Permittee has specified use of the antenna listed below to demonstrate compliance with the FCC radiofrequency electromagnetic field exposure guidelines. If any other type or size of antenna is to be used with the facilities authorized herein, THE AUTOMATIC PROGRAM TEST PROVISIONS OF 47 C.F.R. SECTION 73.1620 WILL NOT APPLY. In this case, a FORMAL REQUEST FOR PROGRAM TEST AUTHORITY must be filed in conjunction with FCC Form 302-FM, application for license, BEFORE program tests will be authorized. (4 Sections, 0.5 wavelength spaced).

Applicant request program test authority using a 4-bay 1.0 wavelength spaced antenna - no change in antenna heights or ERP has occurred. To support this permissable change in antenna type - applicant provides the following statement:

Using the FCC antenna model program and the antenna type specified in the program and the license application - Jampro Double V (EPA) and the respective stations (when combined operation is underway) the maximum power density at two meters above ground level at or near the base of the tower is predicted to be less than 0.104 mW/cm² or 51.9% of the public limit of 0.2 mW/cm². Therefore the facility is fully in compliance utilizing the 4-bay 1.0 wavelength antenna specified herein. (See chart below).

Power Density vs. Distance at 2 meters AGL



KLKO (FM)
(RED) MAX 0.0826
MW/CM2

INDIVIDUALLY AND COLLECTIVELY -
OPERATION IS IN COMPLIANCE WITH BOTH
WORKER AND PUBLIC LEVELS CONCERNING
RF RADIATION HAZARD - USING FCC FM
MODEL PROGRAM MAX POWER DENSITY
LEVEL COMBINED IS LESS THAN 0.105 MW/
CM2 I.E 51.9% OF THE PUBLIC LIMIT

NEW FM
(BLUE) MAX 0.0212
MW/CM2

Distance (m)

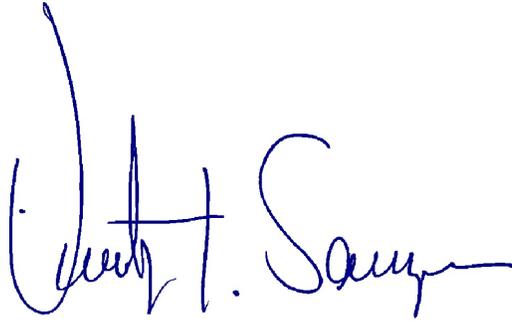
Color	Ant #	Height	HERP	VERP	Antenna Type	#	λ
						Bays	Lambda
■	1	24.0 m	4.5 kW	4.5 kW KLKO	Jampro "Double V" (EPA)	4	1.00
■	2	24.0 m	1.2 kW	1.2 kW NEW FM	Jampro "Double V" (EPA)	4	1.00

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For the reasons set forth above, applicant believes that it is in compliance with the special conditions of its construction permit and that program test authority should be granted.

July 28, 2014

A handwritten signature in blue ink that reads "Timothy Z. Sawyer". The signature is written in a cursive style with a large initial 'T' and 'S'.

Timothy Z. Sawyer, Consulting Engineer
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