

**Goldman Engineering Management
Auburn, CA**

KOOZ (FM) RF Field Strength Measurements

Compliance with Condition 3, and 4 of Special Operating Conditions (BMPED-20171120AAS)

In accordance with Condition 3,4, and 5 of the KOOZ (FM) construction permit, on 9/27/2021, Measurements were made at the Permitted transmitter site to verify compliance with OET Bulletin No. 65, Edition 97-01, August 1997.

Measurements were taken using an Extech 480836 calibrated EMF/ELF meter. Measurements were taken using all three Axis sensors (X, Y and Z axis). The frequency range of the tests were 50MHz to 3.5GHz.

The antenna measured was an ERI LPX-3-HW, non-directional antenna. The antenna is mounted in accordance with manufacturer instructions.

During measurements, KOOZ was operating at full power (9 kW ERP- Horizontal and Vertical (CP)) in compliance with Equipment Test Authority.

The RF measurements were taken at 18 different locations at the base and in the vicinity of the tower. A map showing the measurement locations is attached as Figure A. All stations on the tower were operating at full licensed power at the time measurements were taken. As measurements were being taken, the meter was observed for any peaks which measured high numbers.

As demonstrated in the tabulated results, Exhibit B, there were no locations found where the RF was found to be above public NIER limits of $200\mu\text{W}/\text{cm}^2$. Based upon the above measurements and lack of public access to this site, it is believed that the KOOZ facility is compliant with OSHA standards and compliant with OET Bulletin No. 65, Edition 97-01, August 1997. It is therefore believed that KOOZ has met condition 3 and 4 of the construction permit.

Any work done on the KOOZ tower above 2m AGL will require that the station be taken off the air. The above policies are included in the written site plan and all users of the site are directed to follow the plan to prevent exposure to high levels of NIER.

CERTIFICATION

The undersigned hereby certifies that this statement, associated data and associated attachments were collected and prepared by him or under his direct supervision, and that they are true and correct to the best of his knowledge and belief.



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EXHIBIT A- MAP OF KOOZ RFR READINGS



EXHIBIT A1- KEY TO MAP EXHIBIT A

Reference	Reading ($\mu\text{W}/\text{cm}^2$)	Percent of MPE¹
1	100.6	50.3%
2	160.2	80.1%
3	181	90.5%
4	172.6	86.3%
5	176.4	88.2%
6	177.6	88.8%
7	149.8	74.9%
8	187.9	94% MAX ²
9	156.7	78.4%
10	144.5	72.3%
11	154	77%
12	181.2	90.6%
13	134.6	67.3%
14	150.4	75.2%
15	138.2	69.1%
16	76.3	38.2%
17	54.4	27.2%
18	51.7	25.9%

Footnote 1 Percent of Maximum Public Exposure level (MPE) per FCC OET/ OSHA

Footnote 2 Peak MPE Reading, $187.9\mu\text{V}/\text{cm}^2$, 94% of maximum allowable $200\mu\text{V}/\text{cm}^2$