

KHYZ-FM IBOC HYBRID DIGITAL OPERATION

Digital Operation

Licensee is operating KHYZ-FM (a single frequency network consisting of KHYZ-FM, Mountain Pass, CA and KHYZ-FM2, Las Vegas, NV) in a hybrid digital mode as follows:

KHYZ-FM Main: Analog ERP 8.4 kW
 Facility ID No. 34555 Digital ERP 0.1 kW (-14 dbc of the 2.7 kW maximum analog ERP allowed if KHYZ was not a superclass B station granted by waiver)
 Total Combined ERP 8.5 kW
 TPO: 5.78 kW analog + 0.08 kW digital = 5.86 kW combined

KHYZ-FM2 Booster: Analog ERP 0.37 kW
 Facility ID No. 178524 Digital ERP: 0.014 kW (-14 dbc of the analog ERP of 0.37 kW)
 Total Combined ERP 0.384 kW
 TPO 0.22 kW analog + 0.008 kW digital = 0.228 kW combined

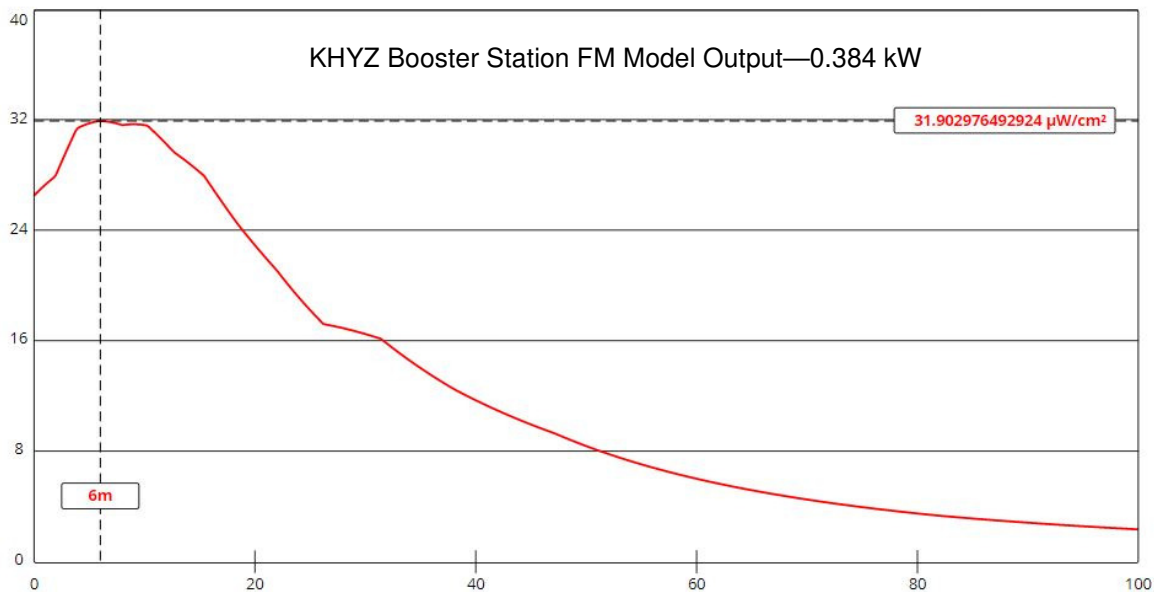
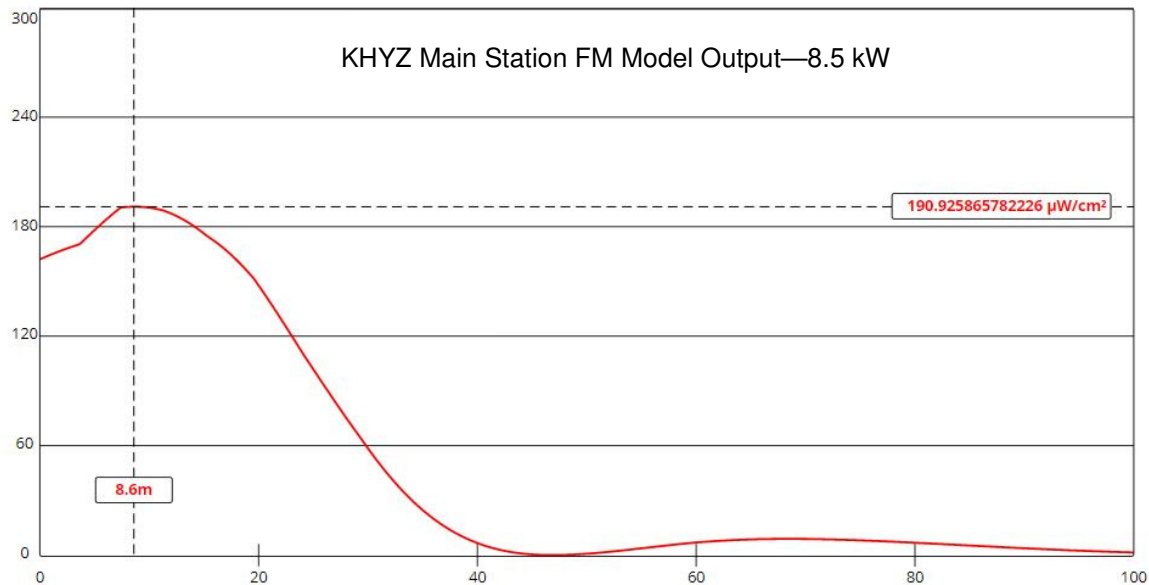
Supporting Data

NPR LABS / NAUTEL IBOC POWER LIMIT STUDY CONDUCTED 7/17/2019

| Call Sign | FCC Status | IBOC Candidate Station | | IBOC Power Limit (dBc) | |
|--|------------|------------------------|--|------------------------|--------------|
| | | Channel | | <i>lower</i> | <i>upper</i> |
| KHYZ MOUNTAIN PASS, CA | LIC | 259B | | -14 | -14 |

| Status | Call Sign | Sideband of KHYZ | Channel | Power (kW) | HAAT (m) | City | State | KHYZ's F(50,10) dBu at the protected contour | Allowable Power (dBc) |
|--------|----------------------|------------------|---------|------------|----------|----------------|-------|--|-----------------------|
| LIC | KMRI | L | 258A | 3.00 | 100 | RANCHO MIRAGE | CA | 54.1 | -14 |
| LIC | KOLA | U | 260B | 29.50 | 507 | SAN BERNARDINO | CA | 50.2 | -11 |
| LIC | KONY | U | 260C | 89.00 | 620 | ST. GEORGE | UT | 54.9 | -14 |

Results of the Commission’s FM Model program show that neither the main station nor the booster station exceed the 200 microwatts/cm2 RF limit for general public exposure when operated at the proposed hybrid digital power levels.



Conclusion

I conclude that KHYZ-FM and KHYZ-FM2 can operate in hybrid digital mode at -14 dbc without interference to adjacent stations or RF radiation in excess of the limits for maximum permissible exposure.

T. Sean McNeill
Director Of Engineering

07/18/2019

Date