

KEAU (FM) 104.7 MHZ  
ELKO, NEVADA

TRANSMITTER POWER OUTPUT  
CALCULATIONS FOR STATION LICENSE

FCC TPO POWER IS MEASURED HERE

0.627 kW

TRANSMITTER

TRANSMITTER

ANTENNA

1.15 kW  
MAX ERP  
GAIN 2.10

SHIVELY  
6832  
4-BAY  
FULL  
WAVE  
ANTENNA

0.548 Kw  
INPUT

ALL TRANSMISSION LINES (INCLUDING  
VERTICAL RUN) AND OTHER SYSTEM  
TRANSMISSION SYSTEM LOSSES

-0.588 DB = 87.34% Ef

TRANSMISSION LINE AND OTHER SYSTEM LOSES

SYSTEM POWER CALCULATIONS  
0.627 kW x 87.34% x 2.10 ~ 1.15 kW



KEAU (FM)

ELKO, NEVADA

SIZE A	FSCM NO N/A	DWG NO 20141020KEAU	REV NONE
SCALE N/A	OCTOBER 2014		SHEET