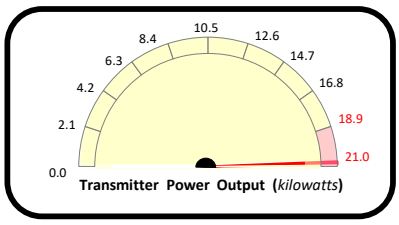
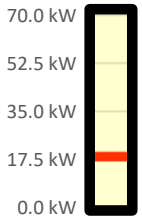
Transmitter Power Output Worksheet

Call letters: KMOR(FM).C
City of License: Gering, NE
Channel: CH227C0 (93.3 MHz)
File No: LMS-0000100422
Facility ID: 67473
Applicant: Nebraska Rural Radio Association



Effective Radiated Power (ERP): 100.000 kW



Antenna Power Input

Antenna Make: Jampro Antennas, Inc.
Antenna Model: JCPB-20HR-.5RFR
No of Elements: Twenty (20)
Antenna COR AGL: 137 meters AGL
Antenna COR AMSL: 1630 meters AMSL
Max Input Power: 70.000 kW
Power Gain: 5.7
Antenna Gain: 7.559 dBd
Calculated Antenna Input Power: 17.544 kW
Transmitter Rated Power: 21.000 kW
Transmitter Make/Model: Rohde & Schwarz THR9-4

Power Gain to Antenna gain (dBd) Conversion:
=Log[power gain]*10

Inventory of System / Insertion Losses

Explanation	Component Make/Model		Length	Loss
Main Feedline (5" Air)	Andrew HJ9-50 Heliax	(0.074 dB/100 ft)	465 ft	-0.344 dBd
CONSTANT IMPEDANCE COMBINER	Jampro Model RCCC-621-FM3H / RCCS-633-2.0H		n/a	-0.400 dBd

TOTAL SYSTEM GAIN/LOSS: 6.81 dBd
CALCULATED TRANSMITTER POWER OUTPUT: **20.823 kW**
(1 / [[10^[dB/10]/ERP]])

Asher Broadcast Consulting, LLC
579 Babcock Road Bronson, MI 49028
justinasher@consultant.com