

DIRECTIONAL ARRAY DESIGNED AND BUILT BY:
PROPAGATION SYSTEMS, INC.
EBENSBURG, PA 15931
814-472-5540

ARRAY AIMED 300 DEG TRUE
BY CERTIFIED LICENSED SURVEYOR
LICENSED ERP 250 WATTS

ARRAY = PSIFML-1A-DA
TYPE = NON-PRESSURIZED
BAYS = 1
POWER GAIN = 1.35
PWR FROM ANT = 250.6 WATTS
S/N = 1554
BUILT AND SHIPPED APRIL 23, 2016

CALCULATIONS

TPO = 204 (WATTS)
X .91 (LINE EFFICIENCY)
= 185.6
X 1.35 (ANTENNA GAIN)
= 250.6 (ERP)

TRANSMITTER:
NAUTEL VS-1
S/N H1577

TPO = 204 WATTS

BUILT AND SHIPPED MAY 12, 2016

TRANSMISSION LINE = ANDREW LDF5-50A
7/8 INCH NON-PRESSURIZED
LENGTH = 35.9 METERS (118 FEET)
EFFICIENCY = 91.0%
LOSS = 0.41 DB

DOCUMENT wvrs-pwr.pdf

LEGAL POWER OUTPUT CALCULATIONS

WVRS-FM 90.10 GORE, VA

MAY 19, 2016
ENGINEER: RICHARD CHOY C.E.