TPO Calculation Summary
Main Antenna Operation

Call letters: W262CL
City of License: Brattleboro, VT
Frequency: CH262D - 100.3 MHz
File No: BPFT-20130806AAH
Facility ID: 140890
Applicant: Saga Communications of New England, LLC

Operating Effective Radiated Power (ERP): 0.105 kW

Antenna Make: Kathrein Scala
Antenna Model: CL-FM(Slant-45)
No of Elements: One (1)
Antenna COR AGL: 27 meters AGL
Antenna COR AMSL: 483 meters AMSL
Power Gain: 7 dB - 3 dB = 4 dB due to (H) & (V) Configuration
Log[power gain]*10 = **Antenna Gain:** 4.000 dB
Calculated Antenna Input Power: 0.042 kW

System Loss Info:

Description	Component Make/Model		Length	Loss
7/8 Inch End Connector	Generic (1@0.02 dB each)			-0.020 dB
Antenna Side Jumper	LMR-400	(1.300 dB/100 ft)	3 ft	-0.039 dB
7/8 Inch End Coupler	Generic (1@0.02 dB each)			-0.020 dB
Main Antenna Feedline (Tower)	Andrew 7/8" LDF5-50A (Foam)	(0.364 dB/100 ft)	135 ft	-0.491 dB
7/8 Inch End Coupler	Generic (1@0.02 dB each)			-0.020 dB
Transmitter Side Jumper	LMR-400	(1.300 dB/100 ft)	12 ft	-0.156 dB
7/8 Inch End Connector	Generic (1@0.02 dB each)			-0.020 dB

TOTAL SYSTEM GAIN/LOSS: 3.234 dB
1 / [[10^[dB/10]/ERP]] = **CALCULATED TRANSMITTER POWER OUTPUT:** 0.050 kW

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