



Communication Systems, LLC

- RF Transmission System Planning, Installation and Maintenance •
- Communication Tower Installation and Maintenance •

WZBH Transmitter TPO Calculation

RE: New Directional Antenna

October 7, 2021

| | |
|-----------------------------|--------------------------------|
| Transmission line: | Comscope Heliax HJ8-50B |
| Total line length: | 489ft. |
| Loss dB/100ft. @93.5 MHz: | .1365 dB |
| Total line loss: | .66749 dB |
| Line efficiency: | 85.753% |
| Antenna Gain: | 4.130 dB (2.588) |
| Additional losses: | No appreciable |
| Calculated transmitter TPO: | 22.530 kW |

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