

# ANTENNA / LINE SYSTEM GAINS AND LOSSES

prepared May 2018 for

## 40 Below Broadcasting

New(FM) Nenana, AK

Facility ID 199595

Ch. 236 0.0012 kW 21 m

|   |                  |                   |
|---|------------------|-------------------|
| <b>Proposed Effective Radiated Power:</b> | <b>0.0012 kW</b> | <b>-29.21 dBk</b> |
|---|------------------|-------------------|

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### Antenna System

Jampro JFWD Folded Dipole

|                 |           |         |
|-----------------|-----------|---------|
| Max Power Gain: | 1.9100 kW | 2.81 dB |
|-----------------|-----------|---------|

|                             |                  |                   |
|-----------------------------|------------------|-------------------|
| <b>Antenna Input Power:</b> | <b>0.0006 kW</b> | <b>-32.02 dBk</b> |
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### Line and Other Losses

|                                 |       |         |
|---------------------------------|-------|---------|
| 25 feet RG-213 coax 6.86dB/100' | Loss: | 1.72 dB |
|---------------------------------|-------|---------|

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| <b>Total Loss:</b> | <b>1.72 dB</b> |
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|---|------------------|-------------------|
| <b><u>Transmitter Post-Mask Power Output:</u></b> | <b>0.0009 kW</b> | <b>-30.30 dBk</b> |
|---|------------------|-------------------|