

ERP / TPO calculations for:

KAWS Marsing, ID

| | | | | |
|---------------------------|----------------------------|--------------------|---------------------|-------------|
| Entered by: Kelly Carlson | | Date: 7/21/2008 | Calculations: Final | Watts |
| MHz: 89.1 MHz | | Ant. Spacing: | N/A | 8750 |
| | | | | ERP |
| | Qty/Lgth (or disc) | Loss @foot or item | total loss or gain | |
| Ant. / Gain | ANT-90D 4 bay vert. | | 6.0000 | |
| FSJ type Ant jumper | 0 | 0.0108 | 0.0000 | |
| LDF type Ant. Jumper | 0 | 0.0069 | 0.0000 | |
| LDF-5 | 0 | 0.0034 | 0.0000 | |
| Connectors | 0 | 0.0160 | 0.0000 | |
| Polyphaser Loss | 0 | 0.1000 | 0.0000 | |
| FSJ Tx jumper | 0 | 0.0108 | 0.0000 | |
| other FSJ jumper(s) | 0 | 0.0108 | 0.0000 | |
| LDF5-50 | 105 | 0.0062 | -0.6510 | |
| Filter(s) | | | 0.0000 | |
| Combiner | 0 | 0 | 0.0000 | |
| Isolator | 0 | 0 | 0.0000 | |

**TPO determined via the direct method
using the T_i TRANSMITTER**

**TPO
2553**