W265ED TPO Correction
Ohio Midland Newsgroup, LLC
(Facility ID: 158508)

During recent engineering work at the transmitter site it was discovered that the coax transmission line for W265ED is 0.5 inch Andrew FSJ4-50 rather than 0.75 inch Andrew LDF5-50. As such, applicant is correcting the TPO to 0.52 kW to account for the additional line loss introduced by the 0.5 inch coax. TPO calculations for both the existing licensed facility and the corrected TPO are included below.

W265ED Licensed TPO Calculation

Ohio Midland Newsgroup, LLC 5/3/2021
BLFT-20190415ABF
Fac Id: 158508

Calculation Of Transmitter Output Power

System ERP	**0.18**	**kW**
Antenna Make	BXT	
Antenna Model	TFC2K-2	
Number of Bays	2	
Antenna Gain	0.91	
Antenna Input Power	**0.198**	**kW**

Main Feed Line

Line Type	Andrew LDF5-50	
Line Length	342	ft
Line Loss per 100ft	0.365	
Line Loss	**1.248**	**dB**

Other System Losses

Combiner	**0.6**	**dB**
Total System Losses	1.848	
Feed System Efficiency	**0.653**	
Transmitter Power Output	**0.303**	**kW**
Rounded per 73.212	**0.3**	**kW**

W265ED Corrected TPO Calculation

Ohio Midland Newsgroup, LLC 5/3/2021
BLFT-20190415ABF
Fac Id: 158508

Calculation Of Transmitter Output Power

System ERP	**0.18**	**kW**
Antenna Make	BXT	
Antenna Model	TFC2K-2	
Number of Bays	2	
Antenna Gain	0.91	
Antenna Input Power	**0.198**	**kW**

Inside Jumper

Line Type	Andrew FSJ4-50	
Line Length	342	ft
Line Loss per 100ft	1.043	
Line Loss	**3.567**	**dB**

Other System Losses

Combiner	**0.6**	**dB**
Total System Losses	4.167	
Feed System Efficiency	**0.383**	
Transmitter Power Output	**0.516**	**kW**
Rounded per 73.212	**0.52**	**kW**