

Arthur Doak

From: Donald Lynch <donaaldlynch@windstream.net>
Sent: Thursday, December 22, 2016 2:02 PM
To: Arthur Doak
Subject: WESP Dothan, AL Form 302 Exhibit 7 TPO

To be safe I did the whole thing over again and lost 14 watts. Partly due to rounding but there was a typo too. It said 492 ft. of 3 inch coax when it was actually 392 ft. The loss figure shown (0.505 DB) however was for 392 ft. So please find attached the corrected numbers which reduce the TPO by 13 watts! Sorry for the confusion. Let me know if you need anything else.

THE SHIVELY 6814BB-4 FOUR BAY FULL WAVE ANTENNA HAS A POWER GAIN AT 102.5 MHZ OF 2.124.

THE SHIVELY 2530-3A-16 3 STATION BRANCHED COMBINER INSERTION LOSS IS 0.33 DB.

THE 19 FT. OF MYAT 1 5/8 INCH COPPER RIGID LINE HAS A LOSS OF 0.037 DB.

THE 17 FT. OF 3 INCH MYAT 3 1/8 COPPER RIGID LINE HAS A LOSS OF 0.016 DB.

THE 392 FT. OF RFS H CA300-50J 3 INCH HELIFLEX AIR-DIELECTRIC COAXIAL CABLE HAS A LOSS OF 0.505 DB.

THE TRANSMISSION LINE AND COMBINER TOTAL LOSS IS 0.888 DB FOR AN OVERALL LINE EFFICIENCY OF 81.50 PERCENT.

10.0 KW DIVIDED BY 2.124 DIVIDED BY .8150 = 5.777 KW TPO

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