

PHASETEK INC.

ENGINEERING STATEMENT CONCERNING W221EM DERRY, NH JANUARY, 2024

SUMMARY

Verification of stations operation was performed for Radio Station WDER, 1320 kHz, after installation of the FM antenna and associated equipment for W221EM at the Transmitter site. W221EM holds Construction Permit Number: 0000217129 to operate at the site. This report was prepared on behalf of Blount Communications, Inc. of N.H., licensee of Radio Station WDER.

SITE MODIFICATIONS

The FM antenna and transmission line have been installed on tower #1 (S). The existing 85uH isolation inductor for WDER sampling line has been changed to a dual winding model with the same inductance and line length as the original. The second winding is used to feed the FM across the base insulators. Therefore, there is no change to the lumped reactance at the tower base.

SPECIAL OPERATING CONDITION

Base impedance measurement of tower #1 (S) indicate values within ± 2 ohms and ± 4 percent of the currently licensed modeled resistance and reactance for Radio Station WDER, 1320 kHz, after installation of the FM antenna and associated equipment. Therefore, a 302-AM is not submitted with this application, as there will be no change in the station's operating parameters.

PHASETEK INC.

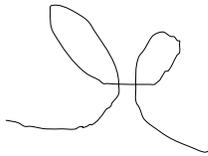
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MEASURING EQUIPMENT AND PERSONNEL

Tower Resistance and Reactance measurements were made with a Delta Electronics OIB-3, operating impedance bridge and HP 8753ES network analyzer. Before use, tests of known impedances were made to verify operation. All measurements were taken by Phasetek Inc. personnel supervised by Kurt Gorman of Phasetek Inc.

CONCLUSION

It is believed that the W221EM Antenna System has been constructed in accordance with all applicable Commission rules and regulations. The foregoing was prepared on behalf of Blount Communications, Inc. of N.H., under the immediate supervision of Kurt Gorman, Phasetek Inc., Quakertown, Pennsylvania, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of his knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.



**Kurt Gorman, President
Phasetek Inc.
Quakertown, Pennsylvania**