

Rev.	Date	Description
A	8/27/13	7-3/16" to top (was 8-3/16"); removed 4-1/16" to top; revised Sects C,F,G

A. AUTHORIZATION/PURPOSE

As authorized by Jim Walton of WFMY-TV and Jim Babler of FBI-Charlotte Division, a structural analysis was performed to investigate the adequacy of a 1769' guyed tower at Greensboro, North Carolina to support specified equipment.

B. TOWER HISTORY

The tower was originally designed and furnished in 1979 by Stainless Inc. It was designed in accordance with EIA Standard RS-222-C for a uniform wind load of 65 psf with no radial ice to support the following equipment:

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SURVEY DONE
BASED ON
ORIGINAL
EIA STANDARD
USED AT TIME
OF CONSTRUCTION
1. One (1) RCA type TFV-7A2 (special) antenna mounted at the top of the tower, fed by one (1) 4-1/16" rigid coax.
 2. One (1) RCA V-Z four-bay three-sided Channel 16 antenna mounted immediately below the top of the tower, fed by one (1) 8-3/16" rigid coax (future).
 3. One (1) 4' wide wrap-around platform at the 1380' level.
 4. Fifteen (15) communication cabinets mounted on the platform at the 1380' level (future), fed by one (1) 2" rigid conduit.
 5. Four (4) Nurad Horns at the 1353' level (future), fed by one (1) 2" rigid conduit.
 6. Twenty-five (25) two-way antennas mounted 50' above and below the 1380' level (future).
 7. One (1) 6' diameter dish at the first guy level, fed by one (1) 1" heliax (future).
 8. One (1) 8' diameter dish at the second guy level, fed by one (1) 1-5/8" heliax (future).
 9. Two (2) 8' diameter dishes at the third guy level, fed by one (1) 1-5/8" heliax to each.
 10. Two (2) 8' diameter dishes at the fourth guy level, fed by one (1) 1-5/8" heliax to each (future).
 11. One (1) 3/4" elevator conduit to the top of tower.
 12. One (1) two-man capacity elevator system.
 13. One (1) inside climbing ladder for the full height of the tower.
 14. One (1) strobe lighting system with circuits contained within one (1) 2" rigid conduit for the full height of the tower.

The tower was modified by SpectraSite Broadcast Group per Report 275414 dated March 2002. The modifications consisted of the following:

- a. Adjusted initial tensions at all guy levels.
- b. Installed additional horizontal braces at the midpoints of the following bays:

Location	No. of bays
1483.8' - 1513.8'	4