

TOWN OF FALMOUTH, MAINE

REQUEST FOR CONDITIONAL REZONING APPROVAL
TO INCREASE THE HEIGHT

OF AN EXISTING
TIER II PERSONAL WIRELESS SERVICE FACILITY
LOCATED AT
356 US RTE. 1

PROPOSAL BY
AT&T MOBILITY

EXHIBIT #19

SUMMARY OF ATTACHED
STRUCTURAL ASSESSMENT
OF 90' WITH 10' EXTENSION
MONOPOLE

SUMMARY OF ATTACHED STRUCTURAL ASSESSMENT OF 90' WITH 10' EXTENSION MONOPOLE TOWER

REQUEST FOR CONDITIONAL REZONING APPROVAL
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TIER II PERSONAL WIRELESS SERVICE FACILITY
LOCATED AT
356 US RTE 1, FALMOUTH, ME

SUMMARY

The following is a brief summary of the attached Structural Assessment of the 90' monopole with the proposed 10' extension.

The structural assessment of the 90' monopole tower with a 10' extension was performed by C.H. David Tan, P.E. (ME License No. 9599), Senior Engineer for *Morrison Hershfield*. The assessment involved an evaluation of the proposed loading based on the monopole's design. Based on this evaluation, Mr. Tan's analysis determined that the proposed loading will have "no detrimental impact on tower stresses." Therefore, AT&T's proposed installation of the 10' extension on the 90' monopole is considered acceptable and within the structures original design envelope.

MORRISON HERSHFIELD
66 Perimeter Center East, Suite 600, Atlanta, Georgia 30346 USA
Tel. 770 379 8500 Fax. 770 379 8501



June 3, 2008

Ms. Nicole Stoltzfus
Lighttower
80 Central Street
Boxborough, MA 01719
978-264-6000

Subject: Structural Assessment of 90 ft with 10 ft Extension Monopole Tower
Site: ME-0601 / "Falmouth"/ Cumberland County, ME
AT&T Proposed Antenna Loading
MH Project No. 6073124: NG0-080

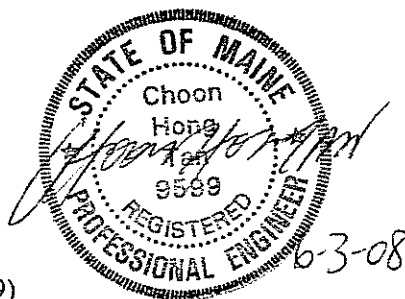
Dear Ms. Stoltzfus:

As requested, we have performed a structural assessment of the 90 ft monopole tower with a 10 ft tower extension in Falmouth, ME for the addition of AT&T's proposed antenna installation given in Table 2. This assessment involves an evaluation of the proposed loading based on the tower's design loading (Sabre Communications Corp. Drawing No. 07-11177-PE, dated 11/10/2006), with a determination that the proposed loading will have no detrimental impact on tower stresses. No actual structural analysis of the tower is performed. The base assumptions of this assessment are that the tower and foundation were properly designed in the first instance, are in satisfactory condition to carry their full design capacity, and that no major changes to the tower have occurred since the original design.

Our analysis findings show that all proposed loadings are within the tower's original design envelope. The original design for this tower was performed in accordance with the requirements of TIA/EIA-222-G *Structural Standards for Steel Antenna Towers and Antenna Supporting Structures*, for a 3-second gust wind speed of 100 mph with no radial ice meeting the requirements of the 2003 International Building Code. **Based on the foregoing, the AT&T installation is considered acceptable.**

We trust that this report is satisfactory. If you have any questions, please feel free to contact our office.

Yours very truly,
Morrison Hershfield



C. H. David Tan, P.E. (ME License No. 9599)
Senior Engineer

Table 1: Tower Details

Site Name	ME-0601 / Falmouth
Location	356 Route 1, Falmouth, ME / Cumberland County (Lat 43-44-10.7, Long -70-13-35)
Tower Description	90 ft with 10 ft extension monopole tower, manufactured by Sabre.
Current Standard and Loading	TIA/EIA-222-G, 100 mph wind speed with no ice. (meet the requirements of the 2003 International Building Code) Structural Class = II, Topographic Category = 1 Wind Exposure Category = C
Previous MH Analyses	None.

Table 2: Existing and Proposed Antenna Loads

Elev. (ft)	Antenna Description	Carrier	Location	TX-Lines
	PROPOSED			
97.0+	(3) Powerwave 7770 Panels	AT&T	30, 150, 270°	(6) 7/8"
	(6) Powerwave LGP17205 TMA's		-	-
	(3) Powerwave 7020 RET's		-	-
	(3) Flush Mounts		-	-
	FUTURE			
87.5	-	Sprint	-	(3) 1/2"
	EXISTING			
87.5	(3) Andrew UMWD-09016-R2DH	Sprint	-	(12) 1/2"
77.5	(3) RFS APXV 18-209014	T_mobile	-	(12) 7/8"
	(6) Ericcson TMA's			

Note: Any discrepancies in loading from this listing should be brought to Morrison Hershfield's attention; results of this analysis cannot be used if the loading is different.

+ The proposed antennas and mounts to be installed on the proposed tower extension.

Table 3: Original Design Loading

Elev. (ft)	Antenna Description	Location	TX-Lines/Face
106.0	(3) 7ft x 1ft x 0.5ft antennas	-	-
	(3) Collar Mount		
96.0	(3) 7ft x 1ft x 0.5ft antennas	-	-
	(3) Collar Mount		
86.0	(3) 7ft x 1ft x 0.5ft antennas	-	-
	(3) Collar Mount		
76.0	(3) 7ft x 1ft x 0.5ft antennas	-	-
	(3) Collar Mount		
66.0	(3) 7ft x 1ft x 0.5ft antennas	-	-
	(3) Collar Mount		

TIA/EIA-222-G, for a 3-second gust wind speed of 100 mph with no ice.

Original design loading per Sabre Communications Corp. Job. No. 07-11177, dated 11/13/2006

Note: Tower was originally designed with two 10 ft future extension each.

