

Certificate of Design Application

From Designer: Date: Job Name:		Chappell Engineering Associates, LLC August 19, 2015 WGME Tower, Portland, ME - T-Mobile Site Number 4PB1288							
						f Construction:	81 Northport Drive, Portland, ME 04103		
						Cons	2009 International truction project was designed to the	_	a listed below:
Building Co	ode & Year <u>IBC200</u>	9 Use Group Classificatio	n (s) Use Group B - Rad	io and Television Stations					
Type of Co		adio Cabinets at base of tower, Install Antennas							
7 L		opression system in Accordance with	Section 903.3.1 of the 20	009 IRC No					
		If yes, separated or non sep							
	alarm System? N/A	Geotechnical/Soils report							
Supervisory	aratiii System:	Geotechnical/ ooks report i	required. (See Seedon 1						
Structural Design Calculations			Not Applicable	_Live load reduction					
Yes Submitted for all structural members (106.1 – 106.11)			Wind = 100mph	Roof live loads (1603.1.2, 1607.11)					
			Ice = 1in radial	_Roof snow loads (1603.7.3, 1608)					
Design Loads on Construction Documents (1603) Uniformly distributed floor live loads (7603.11, 1807)			50 psf	_Ground snow load, Pg (1608.2)					
Floor Are		Loads Shown	N/A	_If $Pg > 10$ psf, flat-roof snow load pf					
			N/A	_lf $P_g > 10$ psf, snow exposure factor, C_{ℓ}					
			N/A	_If $P_g > 10$ psf, snow load importance factor, I_g					
			N/A	_Roof thermal factor, $_{G}$ (1608.4)					
			N/A	_Sloped roof snowload, _{Ps} (1608.4)					
Wind loads (1603.1.4, 1609)			N/A	Seismic design category (1616.3)					
TIA/EIA Rev G Code Design option utilized (1609.1.1, 1609.6)			N/A	Basic seismic force resisting system (1617.6.2)					
100 mph	Basic wind speed (N/A	Response modification coefficient, _{R/} and					
<u> </u>	Building category a	nd wind importance Factor, h		deflection amplification factor _{Cd} (1617.6.2)					
В	Wind exposure cat	table 1604.5, 1609.5)" egory (1609.4)	N/A	_Analysis procedure (1616.6, 1617.5)					
N/A	Internal pressure coe	fficient (ASCE 7)	N/A	_Design base shear (1617.4, 16175.5.1)					
N/A		lding pressures (1609.1.1, 1609.6.2.2)	Flood loads (1	803.1.6, 1612)					
N/A Main force wind pressures (7603.1.1, 1609.6.2.1)			N/A	_Flood Hazard area (1612.3)					
Earth design data (1603.1.5, 1614-1623)			230ft AGL	Elevation of structure					
N/A	Design option utili		Other loads						
N/A	Seismic use group ("Category")		N/A	_Concentrated loads (1607.4)					
N/A	· ·	coefficients, SIX & SIM (1615.1)	N/A	_Partition loads (1607.5)					
N/A	Site class (1615.1.5)		N/A	_Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404					