RF HAZARD STATEMENT
SECOND WINDOW FILING
APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT
CLASS A STATION WUTH-CD
HARTFORD, CONNECTICUT
CHANNEL 22 15 KW (MAX-DA)

With respect to the potential for human exposure to radio frequency (RF) energy, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposal will not result in human exposure to RF energy at ground level in excess of FCC standards. Power density calculations were conducted at 2-m above ground[1] based on the following conservative assumptions, with the following results:

Call Sign	Channel	Total ERP (kW)[2]	Distance (m)	Relative Field Factor[3]	FCC Limit[4] (mW/cm^2)	Percentage of Limit
WUTH-CD	22	15	36	0.1	0.347	1.1%

As indicated above, the exposure to RF energy at 2-m above ground level will not exceed 1.1% of the FCC limit for general population / uncontrolled exposure. Therefore, the proposal complies with the FCC limits for human exposure to RF energy and it is categorically excluded from environmental processing.

Public access to the transmitting site is restricted and appropriately marked with RFR warning signs. Furthermore, as this is a multi-user site, a protocol is in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures are taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure.

[1] The radiation center is located 38 m above ground level.
[2] Horizontally polarized ERP 15 kW.
3 This is a conservative assumption for the maximum relative field at steep downward angles. See attached vertical relative field pattern.
4 For general population/uncontrolled environments

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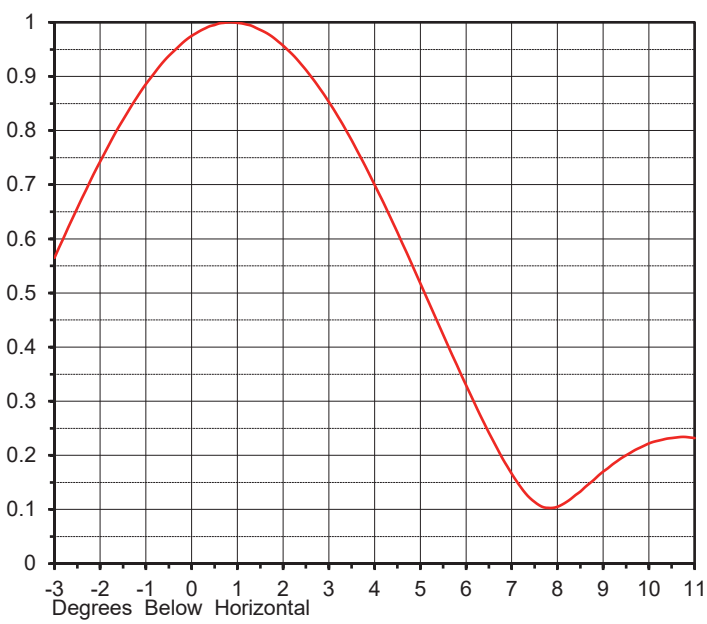
ELEVATION PATTERN

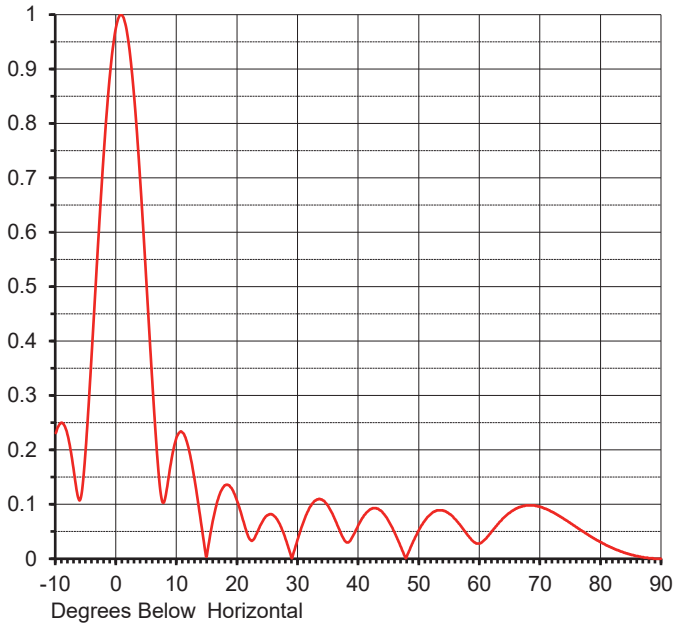
Proposal No.	**C-70726--1**
Date	**7-Jun-17**
Call Letters	**WUTH**
Channel	**22**
Frequency	**521 MHz**
Antenna Type	**TUA-C4SP-4/7M-1-SM**

Face A

RMS Directivity at Main Lobe	**9.0 (9.52 dB)**	Beam Tilt	**0.75 deg**
RMS Directivity at Horizontal	**8.6 (9.34 dB)**	Pattern Number	**04U090075**

Calculated





Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.231	10.0	0.225	30.0	0.038	50.0	0.054	70.0	0.095
-9.0	0.250	11.0	0.231	31.0	0.071	51.0	0.071	71.0	0.091
-8.0	0.225	12.0	0.199	32.0	0.096	52.0	0.083	72.0	0.086
-7.0	0.159	13.0	0.139	33.0	0.108	53.0	0.089	73.0	0.079
-6.0	0.108	14.0	0.064	34.0	0.108	54.0	0.088	74.0	0.072
-5.0	0.212	15.0	0.011	35.0	0.096	55.0	0.082	75.0	0.065
-4.0	0.392	16.0	0.074	36.0	0.074	56.0	0.072	76.0	0.058
-3.0	0.584	17.0	0.117	37.0	0.048	57.0	0.058	77.0	0.050
-2.0	0.759	18.0	0.135	38.0	0.030	58.0	0.043	78.0	0.043
-1.0	0.897	19.0	0.130	39.0	0.041	59.0	0.031	79.0	0.036
0.0	0.980	20.0	0.104	40.0	0.063	60.0	0.028	80.0	0.030
1.0	0.998	21.0	0.068	41.0	0.081	61.0	0.037	81.0	0.024
2.0	0.949	22.0	0.036	42.0	0.091	62.0	0.051	82.0	0.019
3.0	0.840	23.0	0.043	43.0	0.092	63.0	0.064	83.0	0.015
4.0	0.683	24.0	0.066	44.0	0.084	64.0	0.076	84.0	0.011
5.0	0.499	25.0	0.080	45.0	0.068	65.0	0.085	85.0	0.007
6.0	0.312	26.0	0.079	46.0	0.046	66.0	0.092	86.0	0.005
7.0	0.153	27.0	0.063	47.0	0.021	67.0	0.096	87.0	0.003
8.0	0.109	28.0	0.034	48.0	0.006	68.0	0.098	88.0	0.001
9.0	0.176	29.0	0.001	49.0	0.032	69.0	0.098	89.0	0.000
								90.0	0.000