



**ENGINEERING STATEMENT**  
**OF**  
**JOHN F.X. BROWNE, P.E.**  
**IN SUPPORT OF AN APPLICATION FOR**  
**CONSTRUCTION PERMIT**  
**FOR**  
**DIGITAL "FLASHCUT"**  
**W25AT**  
**TUPPER LAKE, NY**

**Background**

Mountain Lake Public Telecommunications Council (MLPTC) is the licensee of television translator station W25AT, Ch 25, (BLTT-19930127ID, Facility ID. 44031) at Tupper Lake NY. MLPTC is applying for a construction permit to "flashcut" W25AT to digital operation on Ch 25.

**Site and Tower**

The tower is located at 44-09-34 N and 74-28-31 W (NAD27). This is an existing tower and does not require an ASR, nor notification to the FAA, as the overall height of the tower is 17.5 meters AGL. The transmitting antenna will be side-mounted in such a manner so as not to increase the overall height of the structure. This is the same site and tower that is specified in the current W25AT authorization.



### **Antenna and Power**

The proposed antenna is a Scala 4DR-4-2HW directional radiator having a different pattern than the authorized antenna (Scala 4DR-8-S); the rotation remains at 33 degrees. The radiation center of the antenna will be at a height of 17m AGL, which is the same as the height specified in the current authorization. The horizontal pattern and tabulation are included as Figure 1 and Figure 2. The digital ERP will be 0.165 kW and the 51 dBu F(50,90) contour will completely encompass the area of Tupper Lake, NY.

### **Interference**

An interference study was conducted using the proposed parameters with software that emulates that used by the Commission. That study shows that there would not be more than 0.49% interference to any full-service NTSC station, DTV station or Class A station, nor more than 1.99% interference to any other low power station as required by the Commission's Rules.

### **Environmental/RFR**

This construction does not involve any of the conditions that require an Environmental Assessment as specified in 47 CFR Section 1.1311, therefore, further consideration is not required.

The additional ground level RFR contributed to the site by this proposal in public areas is calculated to be 0.000757 mW/cm<sup>2</sup>, which is less than 1% of the MPE for public exposure (0.359 mW/cm<sup>2</sup>) at the proposed frequency.

MPLTC agrees to comply with the Commission's requirements regarding power adjustments or cessation of operation as may be necessary to ensure a compliant environment for worker access. Workers will also be encouraged to wear personal RFR



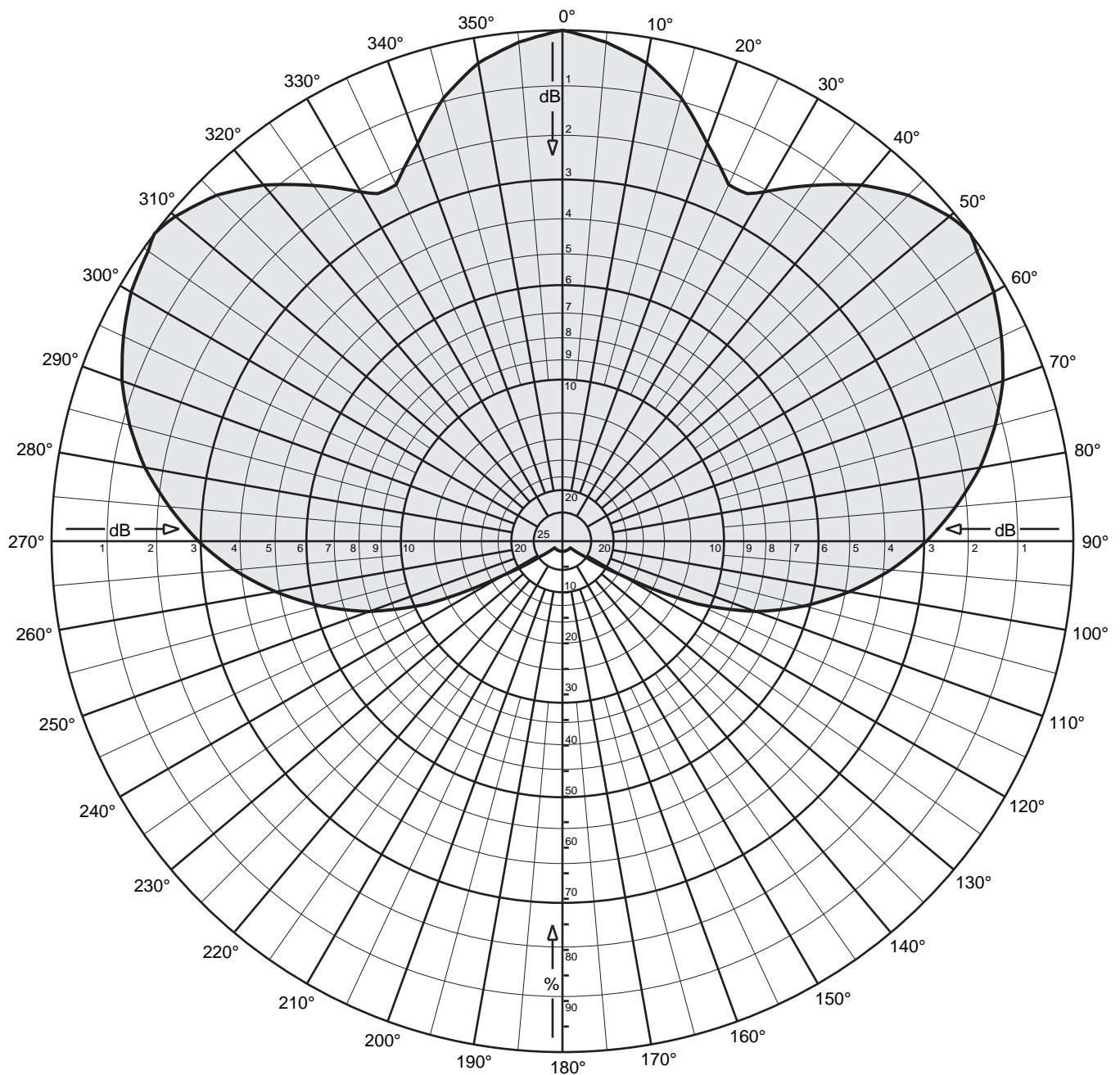
monitors when on the structure. A locked security fence will enclose the tower base and appropriate signage warning of RFR hazards will be in place.

### **Certification**

I hereby certify that the foregoing report or statement was prepared by me but may include work performed by others under my supervision or direction. The statements of fact contained therein are believed to be true and correct based on personal knowledge, information and belief unless otherwise stated; with respect to facts not known of my own personal knowledge, I believe them to be true and correct based on their origin from sources known to me to be generally reliable and accurate. I have prepared this document with due care and in accordance with applicable standards of professional practice.

John F.X. Browne, P.E.

March 21, 2006



4DR-4-2HW

Max Gain: 6 dBd

power-x: 3.98

Horizontal Polarization

Horizontal Plane Pattern



4DR-4-2HW

power-x: 3.98

Horizontal Polarization

Horizontal Plane Pattern

Max Gain: 6 dBd

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	6.00	3.98	180	0.020	-33.98	-27.98	0.00
10	0.950	-0.45	5.55	3.59	190	0.020	-33.98	-27.98	0.00
20	0.829	-1.63	4.37	2.73	200	0.020	-33.98	-27.98	0.00
30	0.789	-2.05	3.95	2.48	210	0.020	-33.98	-27.98	0.00
40	0.910	-0.82	5.18	3.30	220	0.020	-33.98	-27.98	0.00
50	0.989	-0.10	5.90	3.89	230	0.020	-33.98	-27.98	0.00
60	0.975	-0.22	5.78	3.78	240	0.132	-17.56	-11.56	0.07
70	0.917	-0.75	5.25	3.35	250	0.403	-7.90	-1.90	0.64
80	0.830	-1.62	4.38	2.74	260	0.570	-4.88	1.12	1.29
90	0.712	-2.94	3.06	2.02	270	0.712	-2.94	3.06	2.02
100	0.570	-4.88	1.12	1.29	280	0.830	-1.62	4.38	2.74
110	0.403	-7.90	-1.90	0.64	290	0.917	-0.75	5.25	3.35
120	0.132	-17.56	-11.56	0.07	300	0.975	-0.22	5.78	3.78
130	0.020	-33.98	-27.98	0.00	310	0.989	-0.10	5.90	3.89
140	0.020	-33.98	-27.98	0.00	320	0.910	-0.82	5.18	3.30
150	0.020	-33.98	-27.98	0.00	330	0.789	-2.05	3.95	2.48
160	0.020	-33.98	-27.98	0.00	340	0.829	-1.63	4.37	2.73
170	0.020	-33.98	-27.98	0.00	350	0.950	-0.45	5.55	3.59