

**MULLANEY ENGINEERING, INC.**

9049 SHADY GROVE COURT  
GAITHERSBURG, MD 20877

**ENGINEERING EXHIBIT EE:**  
**AMENDMENT TO PENDING DTV APP**  
**WDRL-DTV**  
**DANVILLE, VIRGINIA**  
**Ch. 24 63 KW-DA 384 M HAAT**  
**JUNE 2008**

ENGINEERING STATEMENT IN SUPPORT OF  
AN AMENDMENT TO A PENDING APPLICATION FOR A  
POST-TRANSITION DTV STATION  
BPCDT-20080317AIL

Facility ID: 15507



**ENGINEERING EXHIBIT EE:**  
**AMENDMENT TO PENDING DTV APP**  
**WDRL-DTV**  
**DANVILLE, VIRGINIA**  
**Ch. 24 63 KW-DA 384 M HAAT**  
**JUNE 2008**

**NARRATIVE STATEMENT:**

This amendment is being submitted in an effort to increase the percentage of replication proposed by this application with respect to the Ch. 24 DTV allotment held by WDRL.

WDRL is amending its pending application by replacing its existing Analog Directional Antenna with an Antenna with a wider beamwidth for its proposed DTV operation. As a result of this wider beamwidth, the Population to be served is Greater than that originally proposed in March.

The original DTV allotment on Ch. 41 was for an ERP of 50 kW while the final DTV allotment on Ch. 24 is for an EPP of 141 kW. This substantial increase in the “Omni” ERP is beyond the equipment WDRL has available at the present time.

A Longley-Rice Analysis of this application for an ERP of 63 kW-DA (June 2008) indicated that No Additional Interference is Caused.

The Ch. 24 FCC Allotment is an Omni antenna at a site which is 3.9 km (2.4 miles) away from the site now proposed. The allotment point is at a site WDRL intended to use but which now is no longer available.

The Base Population for the Allotment is 917k with some 15k persons of interference.

	****POPULATION ANALYSIS****				*AREA ANALYSIS*	
	BASE	LOSS	NET	PERCENT	SQ.KM	PERCENT
ALLOT-41			306K		5,695	
LIC-24			296K		5,650	
<b>ALLOT-24</b>	917K	-17K	900K	- -	23,601	- -
<b>MARCH APP</b>	785K	-24K	761K	84.6%	18,210	77.2%
<b>JUNE APP</b>	852K	-24K	828K	<b>92.0%</b>	20,446	86.6%

WDRL wishes to point out that the coverage it now proposes is nearly the same coverage it operated with on Ch. 41 with its initial DTV operation and, in fact, population wise the Ch. 24 DTV coverage will serve 3.4% more persons.

The DTV coverage population being proposed is some 2.5 times larger than the Analog coverage population it operated with for many years.

The DTV coverage population allotted on Ch. 24 is over 100k larger than the DTV coverage it operated with on Ch. 41.

If need be WDRL requests a waiver to permit it to replicate **92%** of the allotment population rather than the 95% desired.

See attached coverage map & pattern tabulation.

**FIGURE 1 - PROPOSED DTV COVERAGE MAP.**

<b>BLUE</b>	- is Ch. 24 allotment
<b>GREEN</b>	- is March 2008 proposal
<b>ORANGE</b>	- is June 2008 proposal
<b>RED</b>	- is original Ch. 41 DTV coverage
<b>PURPLE</b> /shaded	- existing analog service



John J. Mullaney, Consulting Engineer

June 23, 2008.