

Federal Communications Commission Washington, D.C. 20554	Approved by OMB 3060-0386 (July 2002)	FOR FCC USE ONLY
<b>Engineering STA</b>		FOR COMMISSION USE ONLY FILE NO. -
Read Instructions/FAQ before filling out form		

### Section I - General Information

1.	Legal Name of the Applicant ENTRAVISION HOLDINGS, LLC	
	Mailing Address SUITE 6000 WEST 2425 OLYMPIC BOULEVARD	
	City SANTA MONICA	State or Country (if foreign address) CA
	Zip Code 90404 -	
	Telephone Number (include area code) 3104473870	E-Mail Address (if available)
	FCC Registration No	Call Sign WJAL
		Facility ID Number 10259
2.	Contact Representative (if other than licensee/permittee) BARRY A. FRIEDMAN	
	Firm or Company Name THOMPSON HINE LLP	
	Mailing Address SUITE 800 1920 N STREET, N.W.	
	City WASHINGTON	State or Country (if foreign address) DC
	ZIP Code 20036 -	
	Telephone Number (include area code) 2023318800	E-Mail Address (if available) BARRY.FRIEDMAN@THOMPSONHINE.COM
3.	Purpose:	
	<input checked="" type="radio"/> Engineering STA	
	<input type="radio"/> Extension of Existing Engineering STA	
	<input type="radio"/> Legal STA	
	<input type="radio"/> Extension of Existing Legal STA	
4.	Service: DS	
5.	Community of License: City: HAGERSTOWN State: MD	
6.	If this application has been submitted without a fee, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114): <input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial Educational Licensee/Permittee <input type="radio"/> Other <input type="radio"/> N/A (Fee Required)	

### TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

#### TECH BOX

7.1.	Channel: 39
7.2.	Zone: <input checked="" type="radio"/> I <input type="radio"/> II <input type="radio"/> III
7.3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 39 Minutes 53 Seconds 25 <input checked="" type="radio"/> North <input type="radio"/> South  Longitude: Degrees 77 Minutes 58 Seconds 04 <input checked="" type="radio"/> West <input type="radio"/> East
7.4.	Antenna Structure Registration Number: 1044944 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA

7.5.	Antenna Location Site Elevation Above Mean Sea Level:	613 meters
7.6.	Overall Tower Height Above Ground Level:	92 meters
7.7.	Height of Radiation Center Above Ground Level:	42 meters
7.8.	Height of Radiation Center Above Average Terrain:	372 meters
7.9.	Maximum Effective Radiated Power (average):	34 kW
7.10.	Antenna Specifications: <input type="radio"/> Nondirectional <input checked="" type="radio"/> Directional  a. Manufacturer ERI    Model ALP16L3-HSM-39 'CUSTOM'  b. Electrical Beam Tilt: 0.75 degrees <input type="checkbox"/> Not Applicable  c. Mechanical Beam Tilt: degrees toward azimuth degrees True <input checked="" type="checkbox"/> Not Applicable  d. Polarization: <input checked="" type="radio"/> Horizontal <input type="radio"/> Circular <input type="radio"/> Elliptical  Directional Antenna Relative Field Values: Rotation (Degrees): <input checked="" type="checkbox"/> No Rotation	

Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0	.197	10	.241	20	.336	30	.430	40	.521	50	.613
60	.687	70	.751	80	.820	90	.875	100	.917	110	.956
120	.985	130	1.00	140	.987	150	.984	160	.945	170	.89
180	.834	190	.796	200	.754	210	.705	220	.642	230	.555
240	.454	250	.352	260	.251	270	.205	280	.191	290	.225
300	.275	310	.306	320	.304	330	.272	340	.221	350	.185
Additional Azimuths											

8.	Please explain in detail the "extraordinary circumstances" which warrant temporary operations at variance from the Commission's Rules. In addition, please specify 1) the specific rules and/or policies from which the applicant seeks temporary relief; 2) how the public interest will be furthered by grant; and 3) the expected duration of the STA and the licensee's plan for restoration of licensed operation. If requesting variance with other than authorized technical facilities, please specify the exact facilities sought	[Exhibit 21]
9.	Anti-Drug Abuse Act Certification. Applicant certifies that neither applicant nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.	<input checked="" type="radio"/> Yes <input type="radio"/> No

I certify that I have prepared Engineering Data on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name THOMAS J. HOWELL	Relationship to Applicant (e.g., Consulting Engineer) TECHNICAL CONSULTANT	
Signature	Date (mm/dd/yyyy) 10/01/2008	
Mailing Address DU TREIL, LUNDIN, & RACKLEY, INC. 201 FLETCHER AVE.		
City SARASOTA	State or Country (if foreign address) FL	Zip Code 34237 -6019
Telephone Number (No dashes or parentheses, include area code) 9413296000	E-Mail Address (if available) TOM@DLR.COM	

I hereby certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations.

Typed or Printed Name of Person Signing	Typed or Printed Title of Person Signing
Signature	Date (mm/dd/yyyy)

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

Exhibits

Exhibit 21  
Description: COMPREHENSIVE TECHNICAL EXHIBIT

TECHNICAL NARRATIVE  
FIGURE 1 - FCC PREDICTED FCC 41 DBU CONTOURS  
FIGURE 2 - VERTICAL PLANE RELATIVE FIELD PATTERN  
FIGURE 3 - OET-69 TV INTERFERENCE ANALYSIS PROGRAM RESULTS

Attachment 21

TECHNICAL EXHIBIT  
IN SUPPORT OF  
SPECIAL TEMPORARY AUTHORITY (STA)  
STATION WJAL-DT (FAC. ID 10259)  
HAGERSTOWN, MARYLAND  
CH 39 34 KW (MAX-DA) 372 M

Technical Narrative

This Technical Exhibit supports a Special Temporary Authority (STA) for digital television station WJAL-DT on channel 39 at Hagerstown, Maryland. Station WJAL-DT is authorized (BMPCDT-20080528ABT) to operate on digital channel 39 with a directional antenna maximum effective radiated power (ERP) of 82.5 kilowatts (kW) and an antenna height above average terrain (HAAT) of 399 meters.

Proposed STA Facilities

The WJAL-DT STA operation proposes a directional antenna maximum ERP of 34 kW at an antenna HAAT of 372 meters. It is proposed to use the authorized ERI model ALP16L3-HSM-39 'Custom' which will be mounted antenna at the 42 meter level on an existing tower structure (ASR 1044944). The proposed antenna radiation center above mean sea level is 655 meters.

Figure 1 is a coverage map for the proposed STA operation. The map indicates that the predicted City-Grade contour will encompass all of the city limits of Hagerstown (derived from 2000 U.S. Census information for Maryland). It is also noted in Figure 1 that the predicted STA 41 dBu F(50,90) noise-limited contour is within the authorized WJAL-DT noise-limited contour.

---

Interference Compliance

It is noted that WJAL intends to operate this STA as a pre-transition operation. Figure 3 demonstrates that the proposed STA complies with the provisions of OET-69 for pre-transition operation.

Radiofrequency Electromagnetic Field Exposure

The proposed WJAL-DT STA facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed DTV STA antenna is located 42 meters above ground level with a maximum ERP of 34 kW. A “worst-case” vertical plane relative field value of 0.25 (for angles below 60 degrees downward) is assumed for the antenna's downward radiation (see Figure 2 attached). The calculated power density at a point 2 meters above ground level is  $0.0444 \text{ mW/cm}^2$ . This is 10.7% of the FCC's recommended limit of  $0.42 \text{ mW/cm}^2$  for channel 39 for an “uncontrolled” environment. Therefore, as this is a single-user site and the RF level is less than 100% for an “uncontrolled” environment, it is believed that the proposal complies with the RF emission rules.

Access to the transmitting site will be restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be 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 monitors or scheduling work when the stations are at reduced power or shut down. The proposed WJAL-DT STA operation appears to be otherwise categorically excluded from environmental processing.

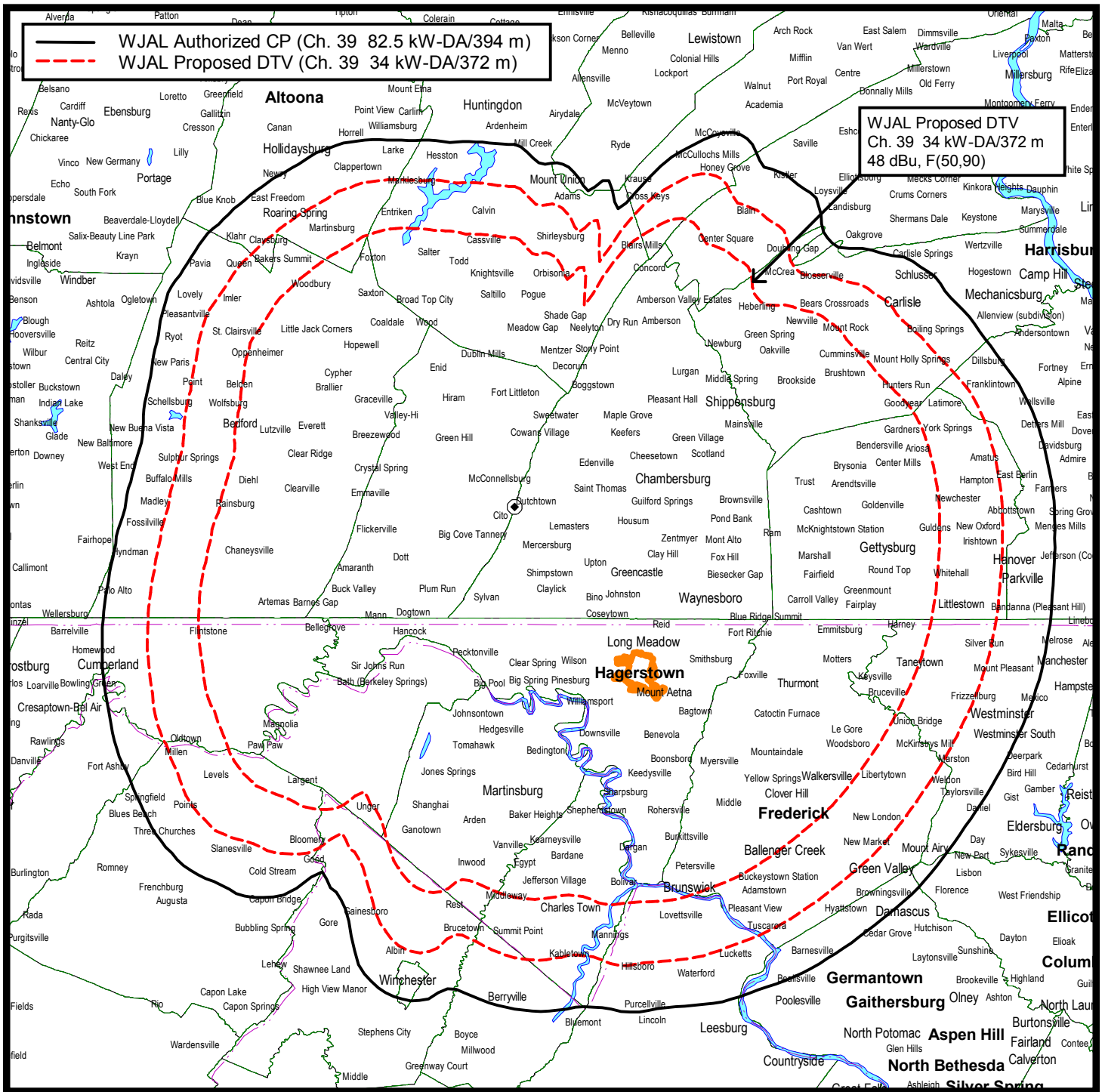
A handwritten signature in black ink, appearing to read 'T. Howell', is centered on the page.

Thomas J. Howell

du Treil, Lundin & Rackley, Inc.  
201 Fletcher Avenue  
Sarasota, Florida 34237  
(941) 329-6000

October 1, 2008

Figure 1



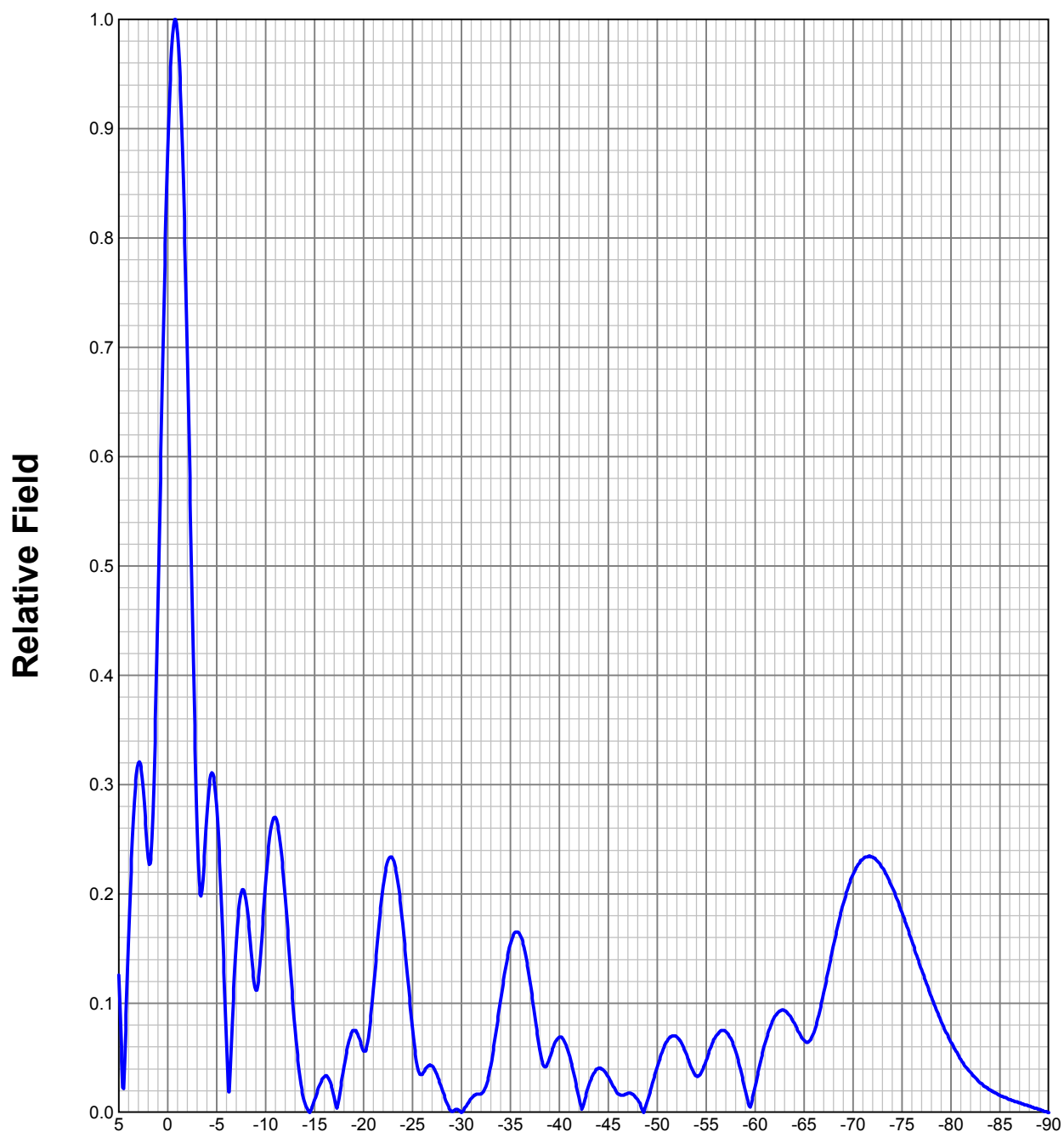
## PREDICTED FCC 41 DBU CONTOURS

STATION WJAL-DT  
HAGERSTOWN, MARYLAND  
CHANNEL 39

ALP16L3-HSM-39

# **ELEVATION PATTERN**

Type:	ALP16L3		Channel:	39
Directivity:	Numeric	dBd	Location:	
Main Lobe:	16.59	12.20	Beam Tilt:	-0.75
Horizontal:	12.85	11.09	Polarization:	Horizontal



Preliminary, subject to final design and review.



**TABULATED DATA FOR ELEVATION PATTERN**

Type: ALP16L3

Polarization Horizontal

ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB
5.00	0.126	-17.99	-6.75	0.113	-18.90	-27.00	0.043	-27.33	-50.50
4.75	0.061	-24.36	-7.00	0.155	-16.19	-27.50	0.035	-29.12	-51.00
4.50	0.022	-33.15	-7.25	0.185	-14.68	-28.00	0.022	-33.15	-51.50
4.25	0.090	-20.96	-7.50	0.201	-13.94	-28.50	0.009	-40.92	-52.00
4.00	0.159	-15.97	-7.75	0.204	-13.83	-29.00	0.001	-60.00	-52.50
3.75	0.221	-13.13	-8.00	0.194	-14.24	-29.50	0.003	-50.46	-53.00
3.50	0.270	-11.37	-8.25	0.175	-15.16	-30.00	0.000	-40.00	-53.50
3.25	0.304	-10.34	-8.50	0.149	-16.54	-30.50	0.006	-44.44	-54.00
3.00	0.320	-9.90	-8.75	0.125	-18.06	-31.00	0.013	-37.72	-54.50
2.75	0.317	-9.99	-9.00	0.112	-19.02	-31.50	0.017	-35.39	-55.00
2.50	0.296	-10.57	-9.25	0.121	-18.38	-32.00	0.017	-35.39	-55.50
2.25	0.264	-11.58	-9.50	0.146	-16.71	-32.50	0.024	-32.40	-56.00
2.00	0.233	-12.65	-9.75	0.179	-14.97	-33.00	0.043	-27.33	-56.50
1.75	0.231	-12.71	-10.00	0.211	-13.51	-33.50	0.072	-22.85	-57.00
1.50	0.274	-11.24	-10.50	0.258	-11.77	-34.00	0.103	-19.74	-57.50
1.25	0.359	-8.90	-11.00	0.270	-11.37	-34.50	0.132	-17.59	-58.00
1.00	0.465	-6.65	-11.50	0.246	-12.18	-35.00	0.154	-16.25	-58.50
0.75	0.580	-4.74	-12.00	0.197	-14.11	-35.50	0.165	-15.65	-59.00
0.50	0.692	-3.20	-12.50	0.135	-17.39	-36.00	0.162	-15.81	-59.50
0.25	0.794	-2.00	-13.00	0.077	-22.27	-36.50	0.147	-16.65	-60.00
0.00	0.880	-1.11	-13.50	0.033	-29.63	-37.00	0.120	-18.42	-60.50
-0.25	0.945	-0.49	-14.00	0.009	-40.92	-37.50	0.088	-21.11	-61.00
-0.50	0.986	-0.12	-14.50	0.000	-40.00	-38.00	0.057	-24.88	-61.50
-0.75	1.000	0.00	-15.00	0.012	-38.42	-38.50	0.042	-27.54	-62.00
-1.00	0.987	-0.11	-15.50	0.025	-32.04	-39.00	0.050	-26.02	-62.50
-1.25	0.947	-0.48	-16.00	0.033	-29.63	-39.50	0.063	-24.01	-63.00
-1.50	0.883	-1.08	-16.50	0.030	-30.46	-40.00	0.069	-23.22	-63.50
-1.75	0.796	-1.98	-17.00	0.014	-37.08	-40.50	0.065	-23.74	-64.00
-2.00	0.694	-3.17	-17.50	0.013	-37.72	-41.00	0.053	-25.51	-64.50
-2.25	0.582	-4.71	-18.00	0.042	-27.54	-41.50	0.035	-29.12	-65.00
-2.50	0.465	-6.65	-18.50	0.065	-23.74	-42.00	0.014	-37.08	-65.50
-2.75	0.354	-9.02	-19.00	0.075	-22.50	-42.50	0.008	-41.94	-66.00
-3.00	0.260	-11.70	-19.50	0.069	-23.22	-43.00	0.025	-32.04	-66.50
-3.25	0.206	-13.72	-20.00	0.056	-25.04	-43.50	0.036	-28.87	-67.00
-3.50	0.203	-13.85	-20.50	0.068	-23.35	-44.00	0.041	-27.74	-67.50
-3.75	0.235	-12.60	-21.00	0.113	-18.94	-44.50	0.039	-28.18	-68.00
-4.00	0.272	-11.31	-21.50	0.164	-15.70	-45.00	0.033	-29.63	-68.50
-4.25	0.300	-10.46	-22.00	0.207	-13.68	-45.50	0.024	-32.40	-69.00
-4.50	0.311	-10.14	-22.50	0.231	-12.73	-46.00	0.017	-35.39	-69.50
-4.75	0.304	-10.36	-23.00	0.232	-12.69	-46.50	0.016	-35.92	-70.00
-5.00	0.280	-11.06	-23.50	0.211	-13.51	-47.00	0.018	-34.89	-70.50
-5.25	0.240	-12.41	-24.00	0.173	-15.24	-47.50	0.017	-35.39	-71.00
-5.50	0.188	-14.52	-24.50	0.124	-18.13	-48.00	0.012	-38.42	-71.50
-5.75	0.129	-17.82	-25.00	0.077	-22.27	-48.50	0.002	-53.98	-72.00
-6.00	0.065	-23.74	-25.50	0.042	-27.54	-49.00	0.011	-39.17	-72.50
-6.25	0.019	-34.42	-26.00	0.035	-29.12	-49.50	0.027	-31.37	-73.00
-6.50	0.062	-24.15	-26.50	0.042	-27.54	-50.00	0.042	-27.54	-73.50

*Preliminary, subject to final design and review.*

Census data selected 1990

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-30-2008 Time: 18:01:02

Record Selected for Analysis

WJAL USERRECORD-01 HAGERSTOWN MD US  
 Channel 39 ERP 34. kW HAAT 372. m RCAMSL 00655 m  
 Latitude 039-53-25 Longitude 0077-58-04  
 Status APP Zone 1 Border  
 Dir Antenna Make CDB Model 00000000086696 Beam tilt N Ref Azimuth 0.  
 Last update Cutoff date Docket  
 Comments  
 Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	1.320	283.1	53.8
45.0	10.931	266.6	63.9
90.0	26.031	469.5	81.9
135.0	33.559	477.9	84.0
180.0	23.649	373.0	75.8
225.0	12.179	410.5	73.9
270.0	1.429	360.9	58.3
315.0	3.163	332.2	61.2

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance  
Distance to border = 329.0km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

\*\*\*\*\*  
Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
39	WJAL	HAGERSTOWN MD	USERRECORD01

### Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WUTB	BALTIMORE MD	123.2	LIC	BLCT	-19860103KG
24	WAZH-CA	HARRISONBURG VA	135.3	LIC	BLTTTL	-19960823JC
25	WZDC-LP	WASHINGTON DC	130.2	LIC	BLTTTL	-20070309ADR
25	WHAG-TV	HAGERSTOWN MD	25.6	LIC	BLCT	-19890327KJ
25	WHAG-TV	HAGERSTOWN MD	25.3	CP	BPCT	-20021203ACY
31	WWPB	HAGERSTOWN, MD	26.6	LIC	BLET	-19960828KE
32	WHUT-TV	WASHINGTON DC	126.9	LIC	BLET	-19801107KE
35	WWKH-CA	UNIONTOWN PA	144.2	LIC	BLTTTL	-19970819JC
36	WGPT	OAKLAND MD	125.7	LIC	BLET	-19940415KE
36	WGPT	OAKLAND MD	125.7	CP	BPET	-20000502ABG
38	WJZ-TV	BALTIMORE MD	128.6	LIC	BLCDT	-20050128AKU
38	WJZ-DT	BALTIMORE MD	128.6	PLN	DTVPLN	-DTVP1048
38	WMAR-TV	BALTIMORE MD	128.6	CP	BPCDT	-20080222ABC
38	WJZ-TV	BALTIMORE MD	128.6	CP	BPCDT	-20000501ADV
38	WQED-DT	PITTSBURGH PA	180.5	PLN	DTVPLN	-DTVP1065
38	NEW	SEWICKLEY PA	183.9	ADD	BPRM	-19960725AAN
39	WUNP-DT	ROANOKE RAPIDS NC	400.2	PLN	DTVPLN	-DTVP1097
39	WIVB-DT	BUFFALO NY	312.6	PLN	DTVPLN	-DTVP1098
39	WDLI-TV	CANTON OH	332.8	LIC	BLCDT	-20030421ABK
39	WDLI-DT	CANTON OH	299.9	PLN	DTVPLN	-DTVP1100
39	WLVT-TV	ALLENTOWN PA	227.2	CP MOD	BMPEDT	-20080618AAL
39	WLVT-TV	ALLENTOWN PA	227.7	LIC	BMLET	-20041014AEU
39	NEW	RICHMOND VA	266.1	ADD	BPRM	-20000717ACH
39	WLPX-TV	CHARLESTON WV	364.1	LIC	BLCDT	-20020510AAM
39	WKRP-DT	CHARLESTON WV	364.1	PLN	DTVPLN	-DTVP1113
40	WNUV	BALTIMORE MD	128.6	LIC	BLCDT	-20051011AOI
40	WNUV-DT	BALTIMORE MD	123.2	PLN	DTVPLN	-DTVP1128
40	WPCB-TV	GREENSBURG PA	163.9	LIC	BLCT	-19990706KF
42	WVPY	FRONT ROYAL VA	108.0	LIC	BLET	-20070226AEU
43	WPMT	YORK PA	117.5	LIC	BMLCT	-20041025ABJ
43	WPXW	MANASSAS VA	134.3	APP	BPCT	-20011214AAQ
47	WMDO-CA	WASHINGTON DC	130.2	LIC	BLTTA	-20080428AAQ
47	WKBS-TV	ALTOONA PA	85.5	LIC	BLCT	-19850925KE



**OET-69 Calculation Summary**

Channel	Callsign	Application Reference Number	Status	City	Scenario	Baseline	Net Change	Percentage	File Percentage
24	WUTB	BLCT -19860103KG	LIC	BALTIMORE	No Interference				
24	WAZH-CA	BLTTL -19960823JC	LIC	HARRISONBURG	No Interference				
25	WZDC-LP	BLTTL -20070309ADR	LIC	WASHINGTON	No Interference				
25	WHAG-TV	BLCT -19890327KJ	LIC	HAGERSTOWN	1	596744	0	0.000	0.000
25	WHAG-TV	BPCT -20021203ACY	CP	HAGERSTOWN	1	585101	0	0.000	0.000
31	WWPB	BLET -19960828KE	LIC	HAGERSTOWN,	No Interference				
32	WHUT-TV	BLET -19801107KE	LIC	WASHINGTON	No Interference				
35	WWKH-CA	BLTTL -19970819JC	LIC	UNIONTOWN	No Interference				
36	WGPT	BLET -19940415KE	LIC	OAKLAND	No Interference				
36	WGPT	BPET -20000502ABG	CP	OAKLAND	No Interference				
38	WJZ-TV	BLCDT -20050128AKU	LIC	BALTIMORE	1	6171234	-101051	-16.370	-16.334
38	WJZ-DT	DTVPLN -DTVP1048	PLN	BALTIMORE	1	5868804	-116058	-19.770	-18.759
38	WMAR-TV	BPCDT -20080222ABC	CP	BALTIMORE	1	6171234	-101051	-16.370	-16.334
38	WJZ-TV	BPCDT -20000501ADV	CP	BALTIMORE	1	6171234	-101051	-16.370	-16.334
38	WQED-DT	DTVPLN -DTVP1065	PLN	PITTSBURGH	No Interference				
38	NEW	BPRM -19960725AAN	ADD	SEWICKLEY	No Interference				
39	WUNP-DT	DTVPLN -DTVP1097	PLN	ROANOKE RAPIDS	No Interference				
39	WIVB-DT	DTVPLN -DTVP1098	PLN	BUFFALO	No Interference				
39	WDLI-TV	BLCDT -20030421ABK	LIC	CANTON	No Interference				
39	WDLI-DT	DTVPLN -DTVP1100	PLN	CANTON	No Interference				
39	WLVT-TV	BMPEDT -20080618AAL	CP MOD	ALLENTOWN	7	4030787	-52988	-13.140	-13.145
39	WLVT-TV	BMLET -20041014AEU	LIC	ALLENTOWN	No Interference				
39	NEW	BPRM -20000717ACH	ADD	RICHMOND	No Interference				
39	WLPX-TV	BLCDT -20020510AAM	LIC	CHARLESTON	No Interference				
39	WKRP-DT	DTVPLN -DTVP1113	PLN	CHARLESTON	No Interference				
40	WNUV	BLCDT -20051011AOI	LIC	BALTIMORE	4	6133707	-77908	-12.700	-13.748
40	WNUV-DT	DTVPLN -DTVP1128	PLN	BALTIMORE	2	5507353	-88047	-15.980	-15.537
40	WPCB-TV	BLCT -19990706KF	LIC	GREENSBURG	No Interference				
42	WVPY	BLET -20070226AEU	LIC	FRONT ROYAL	No Interference				
43	WPMT	BMLCT -20041025ABJ	LIC	YORK	No Interference				
43	WPXW	BPCT -20011214AAQ	APP	MANASSAS	No Interference				
47	WMDO-CA	BLTTA -20080428AAQ	LIC	WASHINGTON	No Interference				
47	WKBS-TV	BLCT -19850925KE	LIC	ALTOONA	No Interference				