

ENGINEERING EXHIBIT

Application for Digital Television Station Construction Permit

prepared for

CBS Stations Group of Texas L.P.

KTVT(DT) Fort Worth, TX

Facility ID 23422

Ch. 19 1000 kW 500 m

CBS Stations Group of Texas L.P. (“*CBS*”) is licensee of KTVT(DT), pre-transition analog Channel 11, digital Channel 19, Fort Worth, TX. Appendix B of the Seventh Report and Order in MB Docket 87-268 established KTVT’s post-transition digital allotment on its pre-transition analog Channel 11. KTVT commenced operation on digital Channel 11 on the transition date in June 2009 (license application BLCDT-20090612AGD is pending). In July 2009 KTVT resumed operation on digital Channel 19, its pre-transition digital channel, pursuant to Special Temporary Authorization (“STA”, BDSTA-20090716ADK)¹. Subsequently, in September 2009, KTVT’s post-transition digital allotment was changed to its pre-transition Channel 19 in MB Docket 09-132². Pursuant to the Report and Order in MB Docket 09-132, *CBS* is submitting the instant application on FCC Form 301 for a Construction Permit to specify Channel 19.

As proposed herein, KTVT will operate with 1000 kW effective radiated power (“ERP”), nondirectional, at 500 meters antenna height above average terrain (“HAAT”). The proposed digital Channel 19 operation will employ the existing antenna system that was licensed for KTVT’s pre-transition digital facility (BLCDT-20050628ABA). The existing tower structure corresponds to FCC Antenna Structure Registration (“ASR”) number 1047708. No changes to the antenna or overall structure height are required to carry out this proposal.

¹The STA also authorizes simultaneous operation of KTVT as digital on Channel 11.

²*Amendment of Section 73.622(i), Final DTV Table of Allotments, Television Broadcast Stations (Fort Worth, Texas)*, MB Docket No. 09-132, RM 11550, DA 09-2037, released September 11, 2009.

A map is supplied as **Figure 1**, which depicts the standard predicted coverage contours. This map includes the boundaries of Fort Worth, KTVT's principal community. As demonstrated thereon, the proposed facility complies with §73.625(a)(1), as the entire principal community will be encompassed by the 48 dB μ contour.

The KTVT facility proposed herein conforms exactly to the technical parameters adopted in MB Docket 09-132, therefore realizing a 100.0 percent match of the allotted service population. Since no extension in contour location beyond that of the allotment will result, interference analysis to other television facilities is not required.

KTVT's proposed 1000 kW ERP exceeds the maximum allowed for the proposed antenna HAAT of 500 meters currently permitted by §73.622(f)(8)(i). Section 73.622(f)(5) permits the maximum ERP to be exceeded in order to provide the same geographic coverage area as the largest station within the same market. As shown on **Figure 2**, the total area within the proposed KTVT 41 dB μ contour is 41,061 square kilometers, which does not exceed the 45,906 square kilometers within the 36 dB μ service contour for station WFAA(DT) (Ch. 8, Dallas, TX, BLCDT-20090612ADY pending). Thus, the ERP specified herein is in compliance with §73.622(f)(5) of the Commission's Rules.

The nearest FCC monitoring station is 576 km distant at Kingsville, TX. This exceeds by a large margin the threshold minimum distance specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. The site is not located within the areas requiring coordination with "quiet" zones specified in §73.1030(a) and (b). There are no AM stations within 3.2 kilometers of the site, based on information contained within the Commission's database. The site location is beyond the border areas requiring international coordination.

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The proposal will involve use of an existing transmitting antenna. The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of §1.1306 of the FCC Rules. No change in structure height is

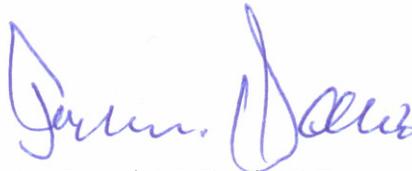
proposed. Therefore, it is believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Based on OET-65 equation (10), and assuming 10 percent antenna relative field in downward elevations, the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is $1.7 \mu\text{W}/\text{cm}^2$, which is 0.5 percent of the general population/uncontrolled maximum permitted exposure limit. This is well below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from RF electromagnetic field exposure in excess of FCC guidelines.

Certification

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direction, and that they are true and correct to the best of his knowledge and belief.



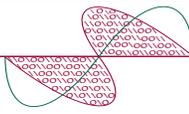
Joseph M. Davis, P.E.
October 21, 2009

Chesapeake RF Consultants, LLC
11993 Kahns Road
Manassas, VA 20112
703-650-9600

List of Attachments

- | | |
|----------|---|
| Figure 1 | Proposed Coverage Contours |
| Figure 2 | Maximum ERP per §73.622(f) |
| Form 301 | Saved Version of Engineering Sections from FCC Form at Time of Upload |

This material was entered October 21, 2009 for filing electronically. Since the FCC's electronic filing system may be accessed by anyone with the applicant's name and password, and electronic data may otherwise be altered in an unauthorized fashion, we cannot be responsible for changes made subsequent to our entry of this data and related attachments.

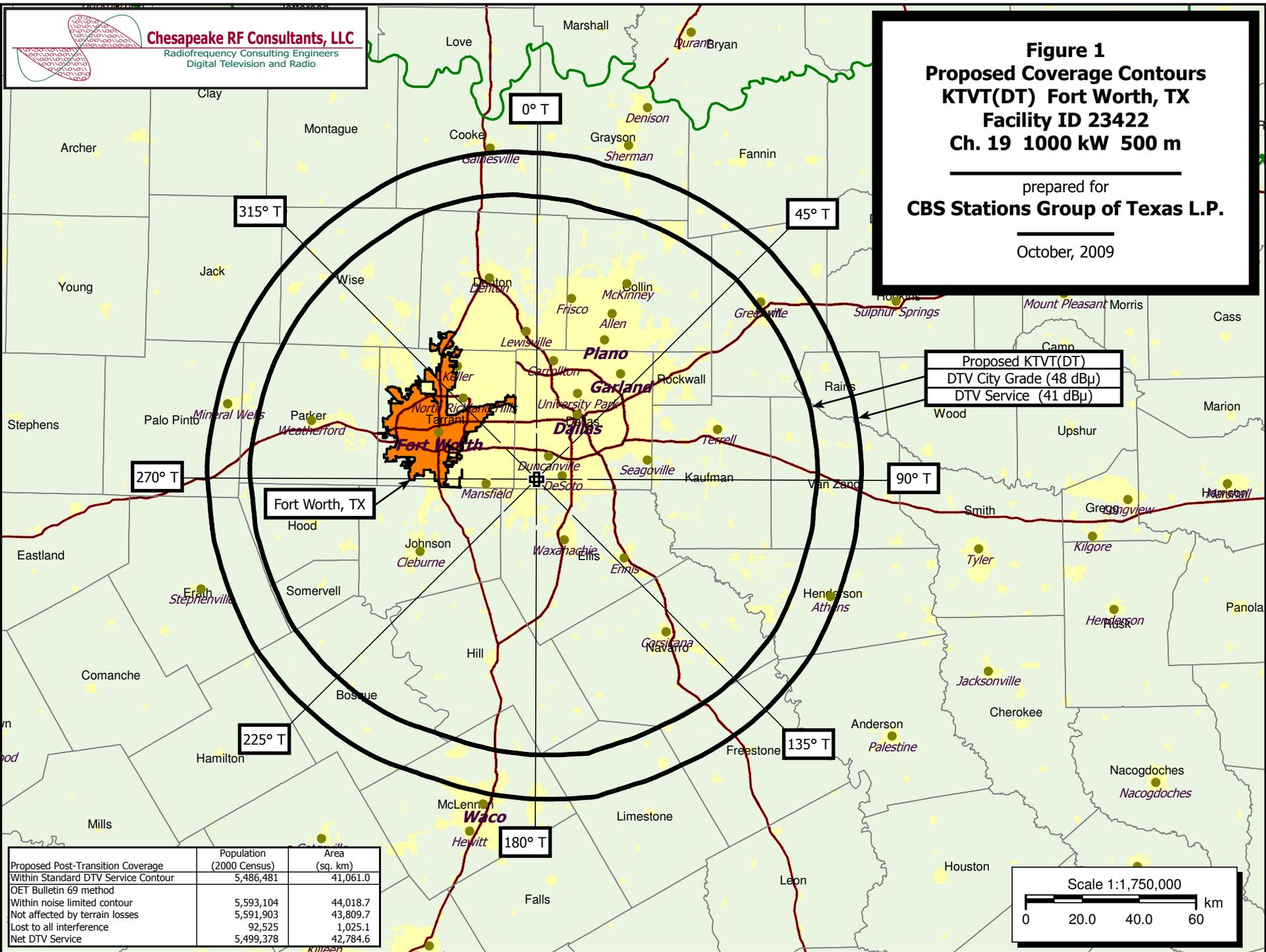


Chesapeake RF Consultants, LLC
 Radiofrequency Consulting Engineers
 Digital Television and Radio

Figure 1
Proposed Coverage Contours
KTVT(DT) Fort Worth, TX
Facility ID 23422
Ch. 19 1000 kW 500 m

prepared for
CBS Stations Group of Texas L.P.

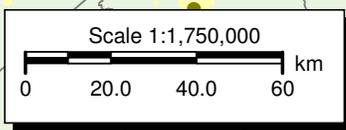
October, 2009



Proposed KTVT(DT)
 DTV City Grade (48 dBμ)
 DTV Service (41 dBμ)

Fort Worth, TX

Proposed Post-Transition Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	5,486,481	41,061.0
OET Bulletin 69 method		
Within noise limited contour	5,593,104	44,018.7
Not affected by terrain losses	5,591,903	43,809.7
Lost to all interference	92,525	1,025.1
Net DTV Service	5,499,378	42,784.6





Chesapeake RF Consultants, LLC
 Radiofrequency Consulting Engineers
 Digital Television and Radio

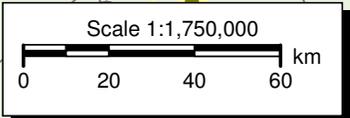
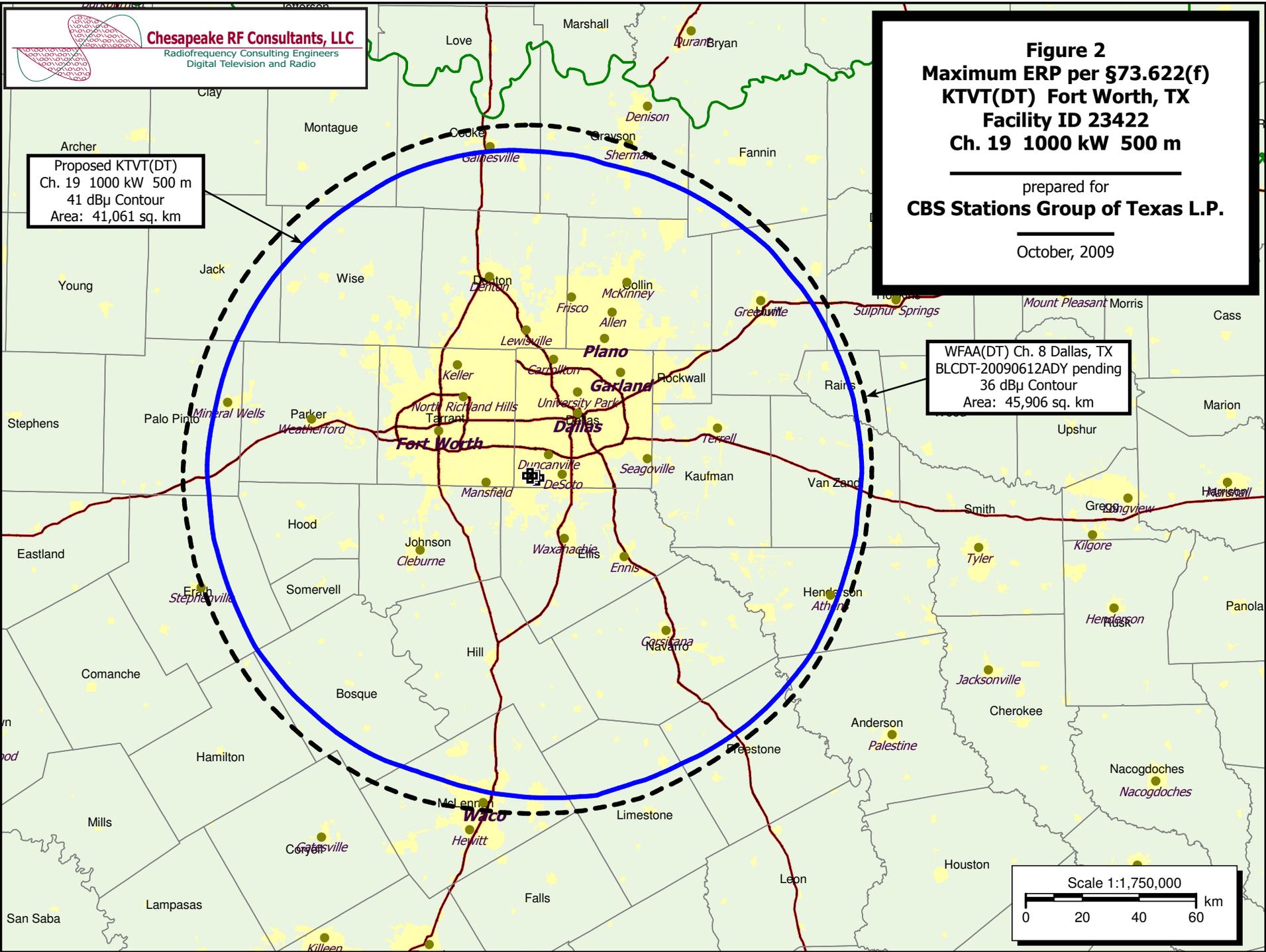
Figure 2
Maximum ERP per §73.622(f)
KTVT(DT) Fort Worth, TX
Facility ID 23422
Ch. 19 1000 kW 500 m

prepared for
CBS Stations Group of Texas L.P.

October, 2009

Proposed KTVT(DT)
 Ch. 19 1000 kW 500 m
 41 dBμ Contour
 Area: 41,061 sq. km

WFAA(DT) Ch. 8 Dallas, TX
 BLCDT-20090612ADY pending
 36 dBμ Contour
 Area: 45,906 sq. km



SECTION III-D - DTV Engineering	
Complete Questions 1-5, and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.	
<p>Pre-Transition Certification Checklist: An application concerning a pre-transition channel must complete questions 1(a)-(c), and 2-5. A correct answer of "Yes" to all of the questions will ensure an expeditious grant of a construction permit application to change pre-transition facilities. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.</p> <p>Post-Transition Expedited Processing. An application concerning a post-transition channel must complete questions 1(a), (d)-(e), and 2-5. A station applying for a construction permit to build its post-transition channel will receive expedited processing if its application (1) does not seek to expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B"); (2) specifies facilities that match or closely approximate those defined in the new DTV Table Appendix B facilities; and (3) is filed within 45 days of the effective date of Section 73.616 of the rules adopted in the Report and Order in the Third DTV Periodic Review proceeding, MB Docket No. 07-91.</p>	
1. The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:	
(a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622.	<input checked="" type="radio"/> Yes <input type="radio"/> No
(b) It will operate a pre-transition facility from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input type="radio"/> No
(c) It will operate a pre-transition facility with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input type="radio"/> No
(d) It will operate at post-transition facilities that do not expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B").	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
(e) It will operate at post-transition facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the new DTV Table Appendix B.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. Applicant must submit the Exhibit called for in Item 13.	<input checked="" type="radio"/> Yes <input type="radio"/> No
3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community.	<input checked="" type="radio"/> Yes <input type="radio"/> No
4. The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable.	<input checked="" type="radio"/> Yes <input type="radio"/> No
5. The antenna structure to be used by this facility has been registered by the Commission and will not require registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.	<input checked="" type="radio"/> Yes <input type="radio"/> No

SECTION III-D - DTV Engineering	
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	
1. Channel Number:	DTV 19 Analog TV, if any
2. Zone:	<input type="radio"/> I <input checked="" type="radio"/> II <input type="radio"/> III
3. Antenna Location Coordinates: (NAD 27)	Latitude: Degrees 32 Minutes 34 Seconds 43 <input checked="" type="radio"/> North <input type="radio"/> South Longitude: Degrees 96 Minutes 57 Seconds 12 <input checked="" type="radio"/> West <input type="radio"/> East
4. Antenna Structure Registration Number: 1047708	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5. Antenna Location Site Elevation Above Mean Sea Level:	243.5 meters
6. Overall Tower Height Above Ground Level:	483.7 meters
7. Height of Radiation Center Above Ground Level:	451.0 meters
8. Height of Radiation Center Above Average Terrain :	500.0 meters
9. Maximum Effective Radiated Power (average power):	1000 kW

10.	<p>Antenna Specifications:</p> <p>a. Manufacturer DIE Model TUC-O5-12/60H-1-B</p> <p>b. Electrical Beam Tilt: 0.7 degrees <input type="checkbox"/> Not Applicable</p> <p>c. Mechanical Beam Tilt: degrees toward azimuth degrees True <input checked="" type="checkbox"/> Not Applicable</p> <p>Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). [Exhibit 43]</p> <p>d. Polarization: <input checked="" type="radio"/> Horizontal <input type="radio"/> Circular <input type="radio"/> Elliptical</p> <p>e. Directional Antenna Relative Field Values: <input checked="" type="checkbox"/> Not applicable (Nondirectional)</p> <p>[For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.] [Relative Field Values]</p> <hr/> <p>If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. Exhibit required. [Exhibit 44]</p>
11.	<p>Does the proposed facility satisfy the pre-transition interference protection provisions of 47 C.F.R. Section 73.623(a) (Applicable only if Certification Checklist Items 1(a), (b), or (c) are answered "No.") and/or the post-transition interference protection provisions of 47 C.F.R. Section 73.616? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p style="text-align: right;">[Exhibit 45]</p> <p>If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.</p>
12.	<p>If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefore. (Applicable only if Certification Checklist item 3 is answered "No.") [Exhibit 46]</p>
13.	<p>Environmental Protection Act. Submit in an Exhibit the following: [Exhibit 47]</p> <p>If Certification Checklist Item 2 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.</p> <p>By checking "Yes" to Certification Checklist Item 2, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.</p> <p>If Certification Checklist Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.</p>
<p>PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED.</p>	

SECTION III - PREPARER'S CERTIFICATION

I certify that I have prepared Section III (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 JOSEPH M. DAVIS, P.E.	Relationship to Applicant (e.g., Consulting Engineer) CONSULTING ENGINEER	
Signature	Date 10/21/2009	
Mailing Address CHESAPEAKE RF CONSULTANTS, LLC 11993 KAHNS ROAD		
City MANASSAS	State or Country (if foreign address) VA	Zip Code 20112 -
Telephone Number (include area code) 7036509600	E-Mail Address (if available) JOSEPH.DAVIS@RF-CONSULTANTS.COM	