

## **ENGINEERING EXHIBIT**

**KTRK TELEVISION, INC.  
TELEVISION STATION KTRK-TV, FACILITY ID 35675  
APPLICATION FOR POST-TRANSITION DTV CONSTRUCTION PERMIT  
CHANNEL 13 – 32.4 KW (DTV AVERAGE) – 588 METERS HAAT**

**HOUSTON, TEXAS**

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## **ENGINEERING EXHIBIT**

### **KTRK TELEVISION, INC., TELEVISION STATION KTRK-TV, FACILITY ID 35675 APPLICATION FOR DTV POST-TRANSITION CONSTRUCTION PERMIT CHANNEL 13 – 32.4 KW (DTV AVERAGE) – 588 METERS HAAT**

**HOUSTON, TEXAS**

## **ENGINEERING STATEMENT**

### **Introduction**

KTRK Television, Inc. (KTRK) is the licensee of KTRK-TV, Houston, Texas. KTRK is licensed to operate NTSC analog facilities on channel 13 with an effective radiated power of 316 KW at a height above average terrain of 588 meters. FCC File Number BLCT-19820722KG describes the KTRK-TV analog channel 13 facilities. This license describes the facilities that were used as the basis for DTV replication facilities.

In the Seventh Report and Order, KTRK was assigned a DTV Allotment on Channel 13 of 22.2 KW at 588 meters HAAT with a directional antenna which bears Antenna ID 70860. This HAAT is identical to the HAAT of the main NTSC antenna.

KTRK-TV began operation in November, 1954 and has been serving Houston since that time. KTRK-DT was first licensed in 2000 and has been continuously broadcasting Digital Television on channel 32 since that time. The DTV Construction Permit, FCC File Number BPCDT-19980803LB, and the subsequent license file number BLCDDT-20000215AAP describe the presently licensed DTV transmission system which operates on channel 32.

The directional pattern associated with the KTRK-DT post-transition channel 13 DTV facilities in Appendix B of the Seventh Report and Order is derived from the channel election process. The initial allotment channel 32 pattern was derived to provide a replication of the channel 13 coverage at channel 32. The channel election process created a pattern for post-transition VHF DTV operation on channel 13. This channel 13 pattern is found in Appendix B and bears FCC Antenna ID Number 70860.

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Through this application, KTRK seeks to obtain a Construction Permit to operate post transition DTV facilities on channel 13, and use the presently licensed NTSC channel 13 non-directional antenna, which is an RCA TCL-16A13. This antenna is the same antenna that formed the basis for the channel 32 initial allotment replication pattern.

KTRK respectfully requests a waiver of the requirements of the present TV Freeze in accordance with the criteria outlined on the Filing Freeze Waiver Policy in Paragraph 151 of the Report and Order in the Third Periodic Review. The facilities described in this application for Construction Permit meets each of the criteria that are shown on Paragraph 151, and will prevent the loss of service which would occur if KTRK-DT were forced to an antenna other than its presently licensed channel 13 antenna for post-transition service.

Processing under the Paragraph 151 criteria will enable KTRK-DT to use the presently licensed channel 13 antenna – a non-directional VHF antenna with electrical beam tilt - without loss of service to those viewers who receive KTRK off-the-air presently and have an expectation of being able to receive KTRK-DT off-the-air in the post-transition era.

**Licensed Facility**

The KTRK-TV license bears FCC File Number BLCT-19820722KG and specifies an ERP of 316 KW at 588 meters HAAT. This facility is a full NTSC facility for channel 13 operation with an HAAT of 588 meters in Television Zone III.

Through this application KTRK-DT seeks a construction permit to return to its NTSC channel to operate post-transition facilities on channel 13 with the non-directional antenna at the presently licensed HAAT of 588 meters with an ERP of 32.4 KW. This ERP satisfies the height vs. ERP requirements of Section 73.622(f)(6) which limit a full DTV facility in Television Zone III with an HAAT of 588 meters to 32.4 KW on channel 13.

The presently licensed antenna is supported by a tower which bears Antenna Structure Registration Number 1040815. The main channel 13 antenna is an RCA TCL-6A13. The TCL-6A13 is a circularly polarized, non-directional antenna.

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### **The KTRK-TV Main License Expiration Date**

The KTRK-TV Main License bears an expiration date of August 1, 2006. A timely application for renewal of the KTRK licenses was filed with the Commission and bears FCC File number BRCT-20060331BFA and was accepted for filing on April 10, 2006. The instant application is acceptable for filing pending a final determination by the Commission on the outstanding application for renewal of the KTRK-TV main license.

### **Interference Calculation Methodology**

The results of interference calculations that are contained in this engineering statement were obtained by Longley-Rice methods that are described in OET Bulletin 69, July 1997, as implemented in the Commission's software TV\_Process with 2 KM cell size. The post-transition data that were used for these calculations were obtained from the post-transition database that was bundled with Check\_AppB Fortran source code and released by the FCC on Tuesday, February 26, 2008. The population census data were obtained from the Year 2000 Census. This methodology and the associated Longley-Rice parameters and cell size are described in the Report and Order in the Third Periodic Review at Paragraph 155.

### **Protection to Post-Transition DTV Authorized Facilities and Allotments**

Television channel 13 was tentatively designated for KTRK-DT post-transition operation during the channel election process. Channel 13 is shown in the DTV Table of Allotments of Section 73.622 of the Rules, and in Appendix B for use by KTRK-DT, Facility ID number 35675. The facilities associated with this allotment are also shown in Appendix B of the Seventh Report and Order, which was released August 6, 2007. The interference studies conducted and the results of those calculations that are shown in this statement are based on the facilities contained in Appendix B, and the post-transition database that is described above.

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The designated facilities described in Appendix B that are associated with post-transition operation of KTRK-DT contain a directional antenna pattern and a maximum of 22.2 KW ERP. The directional pattern, Antenna ID 70860 is referenced in Appendix B and is a product of the channel election process.

A study was conducted to determine what effective radiated power would satisfy the requirements outlined in Paragraph 151 of the Report and Order in the Third Periodic Review. This Filing Freeze Waiver Policy contains three basic requirements which:

1. Would allow the station to use its analog antenna or another antenna to avoid a significant reduction in post-transition service;
2. Would be no more than 5 miles larger in any direction than the authorized service area as defined in Appendix B; and
3. Would not cause impermissible interference, i.e., would not cause more than 0.5 percent new interference to other stations.

The study results as obtained through use of the Commission's TV Process software indicate that 32.4 KW ERP DA Max and the presently licensed NTSC channel 13 antenna will satisfy each of the criteria contained in Paragraph 151.

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Operation with the antenna that is described in Appendix B with an ERP of 22.2 KW DA-Max and the 70860 antenna pattern provides coverage to 4,833,291 persons, according to the results that were obtained from a calculation of Appendix B coverage. This calculation to check the population served by the KTRK-DT post-transition Appendix B facility is in close agreement with the Commission's result of 4,833,000. This lends some confidence that the calculations are being performed with reasonable accuracy and that the input data for Appendix B facilities is in close agreement with the Commission's input data.

If KTRK-DT were restricted to the use of its presently licensed RCA TCL-16A13 tetra-coil antenna without exceeding the Noise Limited contour that is predicted by the KTRK-DT Appendix B facility, the ERP would be limited to approximately 18.1 KW. The coverage obtained from these parameters is 4,829,270 persons. The difference between the Appendix B facility and the smaller 18.1 KW facility with the presently licensed NTSC non-directional antenna would cause a loss of post-transition DTV coverage to 4021 persons.

Operation with 32.4 KW ERP and the presently licensed NTSC channel 13 antenna which is non-directional produces coverage of 4,858,105 persons after consideration of losses to terrain and interference from post-transition DTV facilities as found in Appendix B, according to results from TV\_Process calculations.

Calculations made using the presently licensed NTSC analog antenna with 32.4 KW ERP shows no new interference is created to any affected station that exceeds 0.5 percent. This satisfies the first of the three criteria in Paragraph 151.

Distances to predicted 36 dBu F(50:90) noise limited contours for the proposed 32.4 KW non-directional operation and the directional antenna that is described in Appendix B are shown in Exhibit 1 and Exhibit 2. The greatest excursion of the predicted noise-limited contour for the proposed 32.4 KW when used with the presently licensed KTRK analog non-directional NTSC channel 13 antenna is 3.73 miles at 50 and 60 degrees true. The second greatest excursion occurs at 140 degrees and is 3.71 miles. The distances to contours in Exhibit 1 and Exhibit 2 are shown in kilometers; 3.73 miles is equal to 5.98 kilometers and 3.71 miles is 5.95 kilometers.

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The distances to the predicted contours are contained in Exhibit 1 and Exhibit 2. The Exhibits contain the results of distance calculations in kilometers as produced by FCC Curves. A distance of 5 miles is slightly greater than 8 kilometers. This satisfies the second of the three criteria in Paragraph 151.

The third criterion in Paragraph 151 is satisfied in that KTRK-TV will be returning to channel 13 for post-transition operation from channel 32, and the proposed use of its presently licensed channel 13 NTSC antenna will satisfy each of the criteria contained in Paragraph 151.

**Interference Calculations**

The TV\_Process calculations of new interference to other stations caused by the use of 32.4 KW ERP with the presently licensed non-directional NTSC antenna in place of the Appendix B facilities for KTRK identified five affected stations and show the following results:

KAMU, 12, College Station, TX	0.2515% Additional Interference
KBMT, Beaumont, TX	0.007% Additional Interference
WBRZ, 13, Baton Rouge, LA	Proposal Causes No Interference
KRIS, 13, Corpus Christi, TX	0.0019% Additional Interference
KAKW, 13, Killeen, TX	0.3047% Additional Interference

No numerical results were reported for the Class A channel 12 station, KWDT in Corpus Christi, Texas. The calculations show that the proposed KTRK channel 13 DTV post-transition antenna operating with the presently licensed NTSC antenna when operating with 32.4 KW ERP causes no additional interference beyond that which is allowed by the Rules for post-transition DTV operation. The results which are shown in the interference study satisfies the last of the three criteria in Paragraph 151.

**Protection to Class A Stations**

There is no Class A station that requires study. The nearest Class A station is located in Corpus Christi, Texas, and operates on the adjacent channel to KRIS, channel 13, which is located in the same city.

**Protection to Nearby AM Stations**

There is no AM station within 3.2 kilometers of the KTRK-TV site.

**Protection to FCC Monitoring Stations and Radio Astronomy Installations**

Section 73.1030 defines criteria by which FCC Monitoring Stations and other protected receiving facilities are protected from changes to their radio receiving environment.

The nearest FCC Monitoring Station is located in Kingsville, Texas. It is located more than 332 KM from the KTRK transmission system. The greatest study distance for transmission systems that operate in the 210 to 216 MHz range is 80 kilometers, per Section 73.1030(c)(3), and the distance to the monitoring station alone satisfies the requirements of Section 73.1030 to protect FCC Monitoring Stations.

The nearest protected receiving location is Table Mountain, Colorado. The large distance to the protected receiving location is sufficient to satisfy the requirement to protect this facility. This agrees with TV Process results which report the instant proposal needs no further consideration of protection to the Table Mountain receiving location.



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**Principal Community Coverage**

Exhibit 3 is a map which depicts the 43 dBu F(50:90) contour and demonstrates that the entire city of Houston, Texas is contained within this contour. This map also depicts the 36 dBu noise limited contour. This map clearly demonstrates compliance with the requirement to cover the city of license with a 43 dBu F(50:90) contour as outlined in Section 73.625(a)(1) of the Commission's Rules.

**Environmental Considerations**

**Introduction**

The KTRK Transmitter is located 0.4 miles south of the junction of Blue Ridge Road and Route 2234 in Missouri City, Texas.

The KTRK-TV main transmitting antenna is situated at a shared site with two other television broadcasting stations (KUHT-TV/DT and KRIV-TV/DT) and three FM radio broadcasting stations (KKRW-FM, KMJQ-FM, and KUHF-FM) on two towers spaced 100 feet apart known as the "Teletower" site. Calculations performed by the consulting engineering firm of Hammett & Edison, Inc. and included in a report dated August 13, 2001 predict that the highest levels of RF radiation in the publicly accessible area of the Teletower site are well below the public (uncontrolled) exposure standard. Under the worst case condition, with all stations operating on their auxiliary antennas (where available) the predicted maximum power density at 1.8 meters (6 feet) above ground is less than 5% of the public exposure limit as found in Section 1.1310 of the Rules.

The KTRK auxiliary antenna is at a site separate and 1 mile east of the Teletower location. Hammett and Edison have calculated that the predicted maximum power density at 1.8 meters (6 feet) above ground at this site is less than 1% of the public exposure limit as found in Section 1.1310 of the Rules.

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Public access to these towers is restricted by locked fences and alarms. The Teletower site is fenced around the entire perimeter with a chain link fence, approximately six feet tall, topped with barbed wire. Only persons with electronic access cards can gain entry to the property. The tower base is surrounded by a chain link fence, approximately eight feet tall, topped with barbed wire. The transmitter rooms are securely locked and alarmed and only authorized personnel have the necessary keys to open the locks.

The work practices in effect at the site require that all work on the KTRK-TV antennas or elsewhere on the towers is performed by contractors that agree to comply with RF radiation safety procedures developed by RF Safety Solutions LLC. These procedures are detailed in the Occupational Exposure Guide which is posted at the KTRK Transmitter Site. It specifies the steps to be taken to access certain areas of the towers to ensure that RF radiation exposure to workers does not exceed the limits found in Section 1.1310 of the Commission's rules. The procedures in effect on the site include height limits beyond which work or presence on the tower is not permitted without reductions in transmitter power, cessation of transmission from the site, or use of auxiliary antenna facilities and coordination with other television and FM radio broadcasters. Persons wishing to gain tower access are required to review the Occupational Exposure Guide and sign a statement attesting to the fact that they have done so before they are granted access to either tower at the KTRK Transmitter Site.

**Compliance with Section 1.1307 and the Limits Contained in 1.1310**

The calculations made by Hammett and Edison, in conjunction with the required use of work practices that are contained in the Occupational Exposure Guide authored by RF Safety Solutions LLC assure compliance with Section 1.1307 and the limits of human exposure to radiofrequency energy that are found in Section 1.1310 of the Commission's rules.

The KTRK transmitter site as presently operating and the proposed post-transition operation complies with the limits found in Section 1.1310 of the Commission's rules.

No construction outside the transmitter building is proposed. Because of this, there will be no physical environmental effects to the site or the area nearby.

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These conclusions are based upon RF exposure calculations by Hammett & Edison, Inc., RF Safety Solutions LLC, and analysis of work practices at the KTRK-TV transmitter site, taking into account all non-excluded transmitters at or around the site.

**RF Exposure Safety Practices**

For administrative and safety purposes, the entire KTRK tower beyond the locked gate at the base is located is treated as a Controlled Area. Only those who have been properly instructed with regard to RF Safety should be allowed beyond this point.

For administrative and safety purposes, the entire KTRK tower is treated as a Controlled Area where only those who have been properly instructed in safe tower climbing practices or those who are experienced or qualified tower climbers and employed by recognized tower maintenance and construction organizations are allowed.

This analysis does not directly address safety issues while working aloft. These data and results are not intended to address occupational exposure issues that are associated with personnel while working in certain access controlled locations while aloft on towers. Considerations for persons working aloft are a part of a modified site RF Safety Program that is documented in the RF Occupational Exposure Guide that was written by RF Safety Solutions, LLC, and is updated as required by changes in operating parameters of the broadcasting facilities that are located at the Teletower site.

The KTRK-TV, KTRK-DT and other stations in the Teletower facility as presently authorized, operating and as proposed meet the Commission's requirements as described in Section 1.1310 and Section 1.1307(b) of the Rules regarding human exposure to radiofrequency energy.

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The KTRK-TV and KTRK-DT facilities as proposed and as presently authorized and operating, meet the Commission's requirements as described in the Rules, and as such, no Environmental Assessment is required for this location.

**Conclusion**

The proposed KTRK-DT post-transition DTV operation meets the requirements of the Commission's Rules for post-transition operation with the exception that the noise-limited contour is not completely contained within the predicted noise limited contour produced by the Appendix B facilities. The extension of the noise limited contour is within the 5 mile tolerance that is described in Paragraph 151 of the Report and Order in the Third Periodic Review. KTRK-DT respectfully requests a waiver to extend its noise limited contour within the limits outlined in Paragraph 151, in order to use its presently licensed analog antenna and to continue to serve the 28,835 persons that would otherwise be lost.

**Certification**

I certify that, on behalf of the KTRK Television, Inc., licensee of KTRK-TV and KTRK-DT, the information in this statement was prepared by me or under my supervision with the assistance of Zar B. Aung, EIT. On behalf of the KTRK Television, Inc., I have prepared or reviewed the information that is contained in this Statement, and that after such review and examination have found it to be accurate and true to the best of my knowledge and belief.



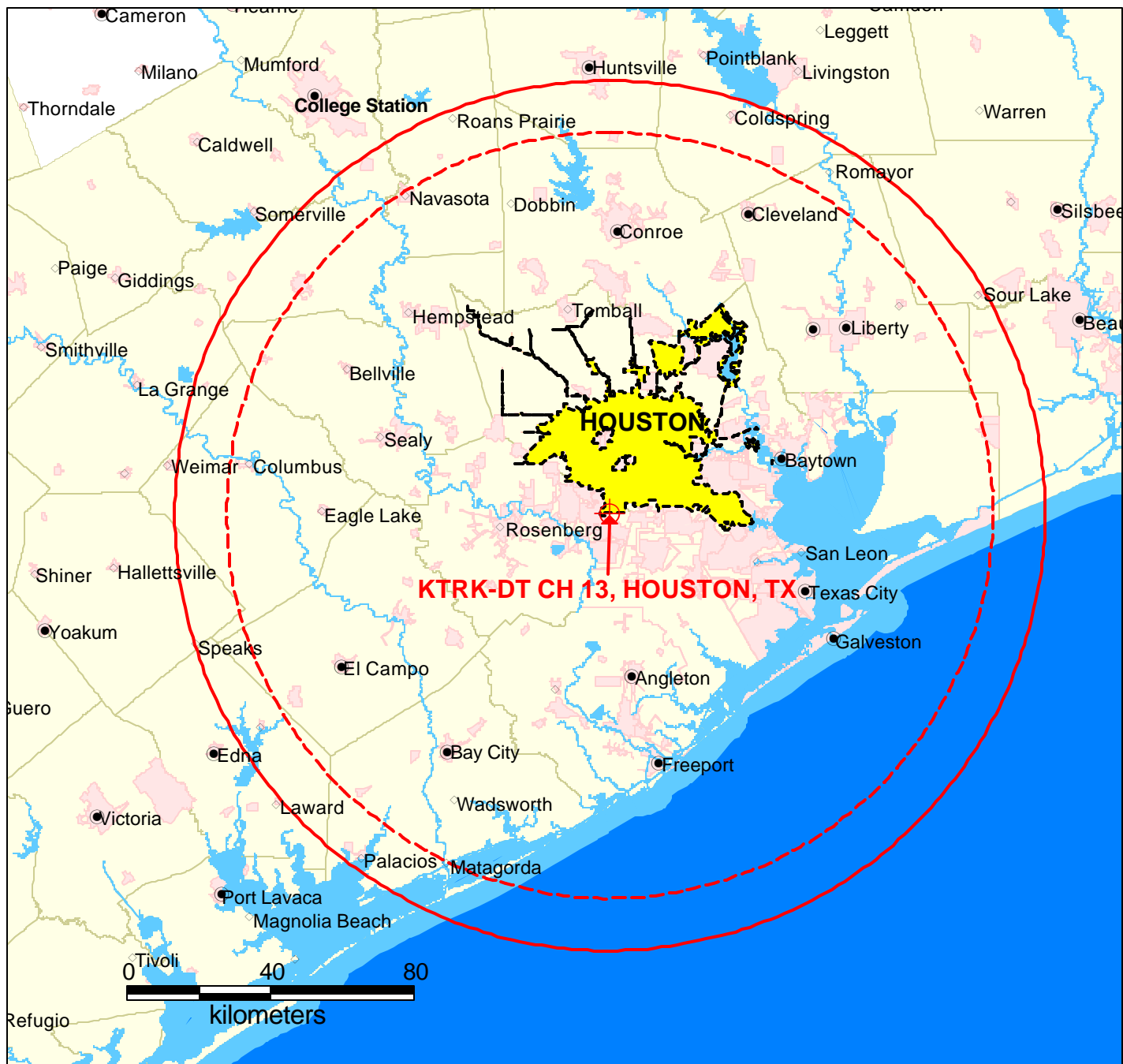
Signed: \_\_\_\_\_  
Alfred E. Resnick, P. E.

Dated: April 29, 2008

	<b>KTRK, HOUSTON, TX</b> <b>(DTV - Appendix B Facility)</b> <b>Latitude: 29 34 27 Longitude: 95 29 37</b> <b>CH. 13, 22.2 kW, 588 mHAAT,</b> <b>607 mRCAMSL, 70860 D-ANT</b> <b>PREDICTED 36 dBu, F(50,90)</b> <b>NOISE LIMITED CONTOUR</b>	<b>KTRK, HOUSTON, TX</b> <b>(DTV - Proposed Post Transition)</b> <b>Latitude: 29 34 27 Longitude: 95 29 37</b> <b>CH. 13, 32.4 kW, 588 mHAAT,</b> <b>607 mRCAMSL, NON-D ANT</b> <b>PREDICTED 36 dBu, F(50,90)</b> <b>NOISE LIMITED CONTOUR</b>
Radial	Distance (km)	Distance (km)
0	118.68	122.9
10	119.01	122.98
20	118.83	123.07
30	118.17	123.04
40	117.61	123.16
50	117.23	123.21
60	117.21	123.19
70	117.51	123.04
80	118.23	123.11
90	118.87	123.11
100	119.06	123.03
110	118.71	122.93
120	118.08	122.93
130	117.5	123.03
140	117.12	123.07
150	117.12	123.07
160	117.53	123.07
170	118.15	123.01
180	118.87	123.12
190	119.18	123.17
200	118.93	123.19
210	118.15	123.01
220	117.53	123.06
230	117.14	123.1
240	117.08	123.02
250	117.48	123
260	118.15	123.01
270	118.68	122.9
280	118.94	122.9
290	118.68	122.9
300	117.9	122.71
310	117.1	122.53
320	116.87	122.75
330	116.96	122.87
340	117.4	122.9
350	118.05	122.9

## Exhibit 2

	<b>KTRK, HOUSTON, TX</b> <b>(DTV - Appendix B Facility)</b> <b>Latitude: 29 34 27 Longitude: 95 29 37</b> <b>CH. 13, 22.2 kW, 588 mHAAT,</b> <b>607 mRCAMSL, 70860 D-ANT</b> <b>PREDICTED 36 dBu, F(50,90)</b> <b>NOISE LIMITED CONTOUR</b>	<b>KTRK, HOUSTON, TX</b> <b>(DTV - Proposed Post Transition)</b> <b>Latitude: 29 34 27 Longitude: 95 29 37</b> <b>CH. 13, 32.4 kW, 588 mHAAT,</b> <b>607 mRCAMSL, NON-D ANT</b> <b>PREDICTED 36 dBu, F(50,90)</b> <b>NOISE LIMITED CONTOUR</b>
Radial	Distance (km)	Distance (km)
0	118.68	122.9
45	117.41	123.22
90	118.87	123.11
135	117.28	123.06
180	118.87	123.12
225	117.3	123.09
270	118.68	122.9
315	116.92	122.61



**PREDICTED COVERAGE CONTOURS**

KTRK-DT CH 13, HOUSTON, TX  
32.4 kW, 588 mHAAT  
607 mRCAMSL, NON D-ANT

Predicted Noise Limited Coverage Contour  
F(50,90), 36 dBu

Predicted Principal Community Coverage Contour  
F(50,90), 43 dBu

APRIL 2008

**CARL T. JONES**  
CORPORATION

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-25-2008 Time: 11:55:44

Record Selected for Analysis

KTRK-TV BFRCT -NEWKTRKDT13 HOUSTON TX US  
Channel 13 ERP 32.4 kW HAAT 588.0 m RCAMSL 607.0 m  
Latitude 029-34-27 Longitude 0095-29-37  
Status CP Zone 3 Border  
Dir Antenna Make Model Beam tilt Y Ref Azimuth 0.0  
Last update Cutoff date Docket  
Comments  
Applicant KTRK TELEVISION. INC.

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)	36.0 dBu F(50,90) (km)
0.0	32.400	587.6	122.8
45.0	32.400	590.1	123.0
90.0	32.400	589.4	122.9
135.0	32.400	588.3	122.8
180.0	32.400	589.4	122.9
225.0	32.400	589.7	122.9
270.0	32.400	586.7	122.7
315.0	32.400	582.9	122.5

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete



SPACING VIOLATION FOUND BETWEEN STATION

KTRK-TV 13 HOUSTON TX BFRCT NEWKTRKDT13

and station

SHORT TO: KAKW-TV 13 KILLEEN TX BDSTA 20021210ACK  
030-43-34 0097-59-23  
Req. separation 273.6 Actual separation 272.3 Short 1.3 km

SHORT TO: KTRK-DT 13 HOUSTON TX DTVPLN DTVP0832  
029-34-27 0095-29-37  
Req. separation 273.6 Actual separation 0.0 Short 273.6 km

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN	
13	KTRK-TV	HOUSTON TX	BFRCTT	NEWKTRKDT13

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KAMU-TV	COLLEGE STATION TX	143.0	CP	BDTV	-0000
12	KBMT	BEAUMONT TX	169.2	CP	BPCDT	-19991012ABM
13	WBRZ-TV	BATON ROUGE LA	421.8	CP	BPCDT	-20001031ABT
13	KRIS-TV	CORPUS CHRISTI TX	289.5	LIC	BLCDT	-20060628ABC
13	KAKW-TV	KILLEEN TX	271.9	CP	BDSTA	-20021210ACK

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	KAMU-TV	COLLEGE STATION TX	BDTV	-0000

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KVCT	VICTORIA TX	212.3	CP MOD	BMPCDT	-20021107AAS
11	KTVT	FORT WORTH TX	224.2	CP	BPCDT	-20040623AAG
11	KHOU-TV	HOUSTON TX	143.7	CP	BFRCTT	-20050812AJV
12	KXII	SHERMAN TX	380.7	CP	BDTV	-0000
12	KSAT-TV	SAN ANTONIO TX	238.6	CP	BFRCTT	-20050802AAK
12	KBMT	BEAUMONT TX	240.4	CP	BPCDT	-19991012ABM
13	KAKW-TV	KILLEEN TX	157.8	CP	BDSTA	-20021210ACK
13	KTRK-TV	HOUSTON TX	143.0	CP	BFRCTT	-NEWKTRKDT13
13	KTRK-DT	HOUSTON TX	143.0	PLN	DTVPLN	-DTVP0832

Total scenarios = 1

Result key: 1  
Scenario 1 Affected station 1  
Before Analysis

Results for: 12A TX COLLEGE STATION BDTV 0000 CP  
HAAT 119.0 m, ATV ERP 3.2 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	295699	14448.9
not affected by terrain losses	292692	13889.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	14402	843.8
lost to ATV IX only	14402	843.8
lost to all IX	14402	843.8

Potential Interferring Stations Included in above Scenario 1

11A TX HOUSTON	BFRCT	20050812AJV	CP
12A TX SAN ANTONIO	BFRCT	20050802AAK	CP
12A TX BEAUMONT	BPCDT	19991012ABM	CP
13A TX KILLEEN	BDSTA	20021210ACK	CP
13A TX HOUSTON	DTVPLN	DTVP0832	PLN

After Analysis

Results for: 12A TX COLLEGE STATION BDTV 0000 CP  
HAAT 119.0 m, ATV ERP 3.2 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	295699	14448.9
not affected by terrain losses	292692	13889.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15102	879.8
lost to ATV IX only	15102	879.8
lost to all IX	15102	879.8

Potential Interferring Stations Included in above Scenario 1

11A TX HOUSTON	BFRCT	20050812AJV	CP
12A TX SAN ANTONIO	BFRCT	20050802AAK	CP
12A TX BEAUMONT	BPCDT	19991012ABM	CP
13A TX KILLEEN	BDSTA	20021210ACK	CP
13A TX HOUSTON	BFRCT	NEWKTRKDT13	CP

The following station failed the de minimis interference criteria.

13D TX HOUSTON BFRCT NEWKTRKDT13  
ERP 32.40 kW HAAT 588.0 m RCMSL 607.0 m  
Antenna none

Due to interference to the following station and scenario: 1

12D TX COLLEGE STATION BDTV 0000  
ERP 3.20 kW HAAT 119.0 m RCMSL 206.0 m  
Antenna CDB 00000000074940

Percent Service lost without proposal: 0.0 to BDTV 0000  
Percent Service lost with proposal: 0.3 to BDTV 0000

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	KBMT	BEAUMONT TX	BPCDT	-19991012ABM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KHOU-TV	HOUSTON TX	170.5	CP	BFRCTT	-20050812AJV
12	KAMU-TV	COLLEGE STATION TX	240.4	CP	BDTV	-0000
12	WJTV	JACKSON MS	401.9	CP	BPCDT	-19991025AEF
13	KTRK-TV	HOUSTON TX	169.2	CP	BFRCTT	-NEWKTRKDT13
13	KTRK-DT	HOUSTON TX	169.2	PLN	DTVPLN	-DTVP0832

Total scenarios = 1

Result key: 2  
Scenario 1 Affected station 2  
Before Analysis

Results for: 12A TX BEAUMONT BPCDT 19991012ABM CP  
HAAT 292.0 m, ATV ERP 12.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	708113	27564.7
not affected by terrain losses	707482	27464.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	133	36.2
lost to ATV IX only	133	36.2
lost to all IX	133	36.2

Potential Interfering Stations Included in above Scenario 1

12A TX COLLEGE STATION BDTV 0000 CP

After Analysis

Results for: 12A TX BEAUMONT BPCDT 19991012ABM CP  
HAAT 292.0 m, ATV ERP 12.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	708113	27564.7
not affected by terrain losses	707482	27464.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	138	40.2
lost to ATV IX only	138	40.2
lost to all IX	138	40.2

Potential Interfering Stations Included in above Scenario 1

12A TX COLLEGE STATION BDTV 0000 CP  
13A TX HOUSTON BFRCTT NEWKTRKDT13 CP

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	WBRZ-TV	BATON ROUGE LA	BPCDT	-20001031ABT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WJTV	JACKSON MS	228.7	CP	BPCDT	-19991025AEF
13	KLTM-TV	MONROE LA	226.8	CP	BDTV	-0000
13	KTRK-TV	HOUSTON TX	421.8	CP	BFRCT	-NEWKTRKDT13
13	KTRK-DT	HOUSTON TX	421.8	PLN	DTVPLN	-DTVP0832
13	WLOX	BILOXI MS	206.9	LIC	BLCDT	-20030205ACM

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	KRIS-TV	CORPUS CHRISTI TX	BLCDT	-20060628ABC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KSAT-TV	SAN ANTONIO TX	181.6	CP	BFRCT	-20050802AAK
13	KRGV-TV	WESLACO TX	183.9	LIC	BLCDT	-20020904AAR
13	KAKW-TV	KILLEEN TX	333.9	CP	BDSTA	-20021210ACK
13	KVTV	LAREDO TX	190.6	CP	BDTV	-0000
13	KTRK-TV	HOUSTON TX	289.5	CP	BFRCT	-NEWKTRKDT13
13	KTRK-DT	HOUSTON TX	289.5	PLN	DTVPLN	-DTVP0832

Total scenarios = 1

Result key: 3  
Scenario 1 Affected station 4  
Before Analysis

Results for: 13A TX CORPUS CHRISTI BLCDT 20060628ABC LIC  
HAAT 240.0 m, ATV ERP 46.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	537031	29148.5
not affected by terrain losses	536910	29076.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9666	4758.7
lost to ATV IX only	9666	4758.7
lost to all IX	9666	4758.7

Potential Interfering Stations Included in above Scenario 1

13A TX WESLACO	BLCDT	20020904AAR	LIC
13A TX KILLEEN	BDSTA	20021210ACK	CP
13A TX LAREDO	BDTV	0000	CP
13A TX HOUSTON	DTVPLN	DTVP0832	PLN

After Analysis

Results for: 13A TX CORPUS CHRISTI BLCDT 20060628ABC LIC  
HAAT 240.0 m, ATV ERP 46.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	537031	29148.5
not affected by terrain losses	536910	29076.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9676	4806.7
lost to ATV IX only	9676	4806.7
lost to all IX	9676	4806.7

Potential Interfering Stations Included in above Scenario 1

13A TX WESLACO	BLCDT	20020904AAR	LIC
13A TX KILLEEN	BDSTA	20021210ACK	CP
13A TX LAREDO	BDTV	0000	CP
13A TX HOUSTON	BFRCT	NEWKTRKDT13	CP

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	KAKW-TV	KILLEEN TX	BDSTA	-20021210ACK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KAMU-TV	COLLEGE STATION TX	157.8	CP	BDTV	-0000
12	KSAT-TV	SAN ANTONIO TX	163.9	CP	BFRCTT	-20050802AAK
13	KRIS-TV	CORPUS CHRISTI TX	333.9	LIC	BLCDT	-20060628ABC
13	KVTX	LAREDO TX	386.1	CP	BDTV	-0000
13	KTRK-TV	HOUSTON TX	271.9	CP	BFRCTT	-NEWKTRKDT13
13	KTRK-DT	HOUSTON TX	271.9	PLN	DTVPLN	-DTVP0832

Total scenarios = 1

Result key: 4  
Scenario 1 Affected station 5  
Before Analysis

Results for: 13A TX KILLEEN BDSTA 20021210ACK CP  
HAAT 484.0 m, ATV ERP 45.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1910893	44746.1
not affected by terrain losses	1851760	42608.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	23043	946.8
lost to ATV IX only	23043	946.8
lost to all IX	23043	946.8

Potential Interfering Stations Included in above Scenario 1

12A TX SAN ANTONIO	BFRCTT	20050802AAK	CP
13A TX CORPUS CHRISTI	BLCDT	20060628ABC	LIC
13A TX HOUSTON	DTVPLN	DTVP0832	PLN

After Analysis

Results for: 13A TX KILLEEN BDSTA 20021210ACK CP  
HAAT 484.0 m, ATV ERP 45.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1910893	44746.1
not affected by terrain losses	1851760	42608.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	28615	1382.2
lost to ATV IX only	28615	1382.2
lost to all IX	28615	1382.2

Potential Interfering Stations Included in above Scenario 1

12A TX SAN ANTONIO	BFRCT	20050802AAK	CP
13A TX CORPUS CHRISTI	BLCDT	20060628ABC	LIC
13A TX HOUSTON	BFRCT	NEWKTRKDT13	CP

The following station failed the de minimis interference criteria.

13D TX HOUSTON	BFRCT	NEWKTRKDT13
ERP 32.40 kW HAAT	588.0 m	RCMSL 607.0 m
Antenna	none	

Due to interference to the following station and scenario: 1

13D TX KILLEEN	BDSTA	20021210ACK
ERP 45.00 kW HAAT	484.0 m	RCMSL 823.0 m
Antenna	9999999999999999	

Percent Service lost without proposal:	0.0	to BDSTA	20021210ACK
Percent Service lost with proposal:	0.3	to BDSTA	20021210ACK

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Analysis of Interference to Affected Station 6

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
13	KTRK-DT	HOUSTON TX	DTVPLN	-DTVP0832

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
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Results for: 13A TX HOUSTON	DTVPLN	DTVP0832	PLN			
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HAAT 588.0 m, ATV ERP 22.2 kW
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	POPULATION	AREA (sq km)
within Noise Limited Contour	4852399	43675.0
not affected by terrain losses	4851481	43459.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0



Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	KTRK-TV	HOUSTON TX	BFRCT	-NEWKTRKDT13

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KAMU-TV	COLLEGE STATION TX	143.0	CP	BDTV	-0000
12	KBMT	BEAUMONT TX	169.2	CP	BPCDT	-19991012ABM
13	WRZ-TV	BATON ROUGE LA	421.8	CP	BPCDT	-20001031ABT
13	KRIS-TV	CORPUS CHRISTI TX	289.5	LIC	BLCDT	-20060628ABC
13	KAKW-TV	KILLEEN TX	271.9	CP	BDSTA	-20021210ACK

Total scenarios = 1

Result key: 5  
Scenario 1 Affected station 6  
Before Analysis

Results for: 13A TX HOUSTON BFRCT NEWKTRKDT13 CP

HAAT 588.0 m, ATV ERP 32.4 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	4877145	47411.6
not affected by terrain losses	4874703	47068.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	16598	1324.0
lost to ATV IX only	16598	1324.0
lost to all IX	16598	1324.0

Potential Interferring Stations Included in above Scenario 1

12A TX COLLEGE STATION	BDTV	0000	CP
13A TX CORPUS CHRISTI	BLCDT	20060628ABC	LIC
13A TX KILLEEN	BDSTA	20021210ACK	CP

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