ENGINEERING STATEMENT IN SUPPORT OF AN APPLICATION FOR CONSTRUCTION PERMIT FOR THE PROPOSED DIGITAL TV OPERATION OF KSFY-TV, SIOUX FALLS, SOUTH DAKOTA CHANNEL 13 22.7 KW 610 METERS MARCH 2008

This engineering statement has been prepared on behalf of Hoak Media of Dakota License, LLC, licensee of TV station KSFY-TV, Sioux Falls, South Dakota, in support of its application for a construction permit for post-transition digital TV (DTV) operation on Channel 13.

At present KSFY-TV, Facility ID Number 48658, operates its analog TV facilities on Channel 13 (210-216 MHz) with 316 kW effective radiated power (ERP) and 610 meters antenna height above average terrain (HAAT) using a non-directional TV antenna. In the Seventh Report and Order (MB Docket No. 87-268) the Commission has allotted Channel 13 for the KSFY-TV's post-transition DTV operation. KSFY-TV is filing its application for a construction permit to operate following the DTV transition on DTV Channel 13 with 22.7 kW ERP and 610 meters HAAT using a non-directional TV antenna.

The following information provides pertinent data for the proposed KSFY-DT operation.

Name of the Licensee:	Hoak Media of Dakota License, LLC
Station Location:	SD-Sioux Falls
Channel:	13
Hours of Operation:	Unlimited
Transmitter:	Type Accepted
Antenna Type:	RCA, TF-12-AH
Beam Tilt:	0.7

Antenna Coordinates:	North Latitude: West Longitude:	43 deg 96 deg	31 min 32 min	07 sec 05 sec
Transmitter output power:	As required to achiev	e authorized	I ERP	
Maximum effective radiated	l power (Average):	22. 13.	7 kW 56 dBk	
Elevation of site above mea	n sea level:	444	4.8 meters	
Overall height of the tower	above ground:	605	5 meters	
Height of radiation center al	595	5 meters		
Height of radiation center al	oove mean sea level (me	eters): 103	39.8 meters	
Height of radiation center al	oove average terrain (m	eters): 61() meters	
Antenna Structure Registrat	ion Number:	103	35413	

Response to questions for Post Transition Expedited Processing listed on the

FCC Form 301, Section III-D-DTV Engineering

Question 1. (a)

KSFY-TV will operate its DTV operation on Channel 13 as established in 47 C.F.R. Section 73.622.

Question 1. (d)

KSFY-TV is proposing to operate its post-transition facilities which are slightly different than established in Appendix B of the Seventh Report and Order (MB Docket No. 87-268). The minor difference is due to the use of a non-directional DTV antenna which is currently used for analog TV operation while the Appendix B facilities specify a directional DTV antenna. The proposed noise-limited service contour extends no more than 0.2 km in any direction beyond that established by

Appendix B of the Seventh Report and Order in MB Docket 87-268. In addition, an electromagnetic interference study conducted according FCC OET Bulletin 69 indicates the proposed KSFY-DT operation would not cause interference to other DTV stations above the levels specified in Appendix B. The attached Tables I and II show the results of these studies for the Appendix B and proposed KSFY-DT facilities, respectively.

Question 1. (e)

The population within the proposed DTV service area would not be less than 5% of the predicted population defined in the new DTV Table Appendix B.

Waiver Request for Questions 1. (d) and 1. (e)

The proposed KSFY-DT operation complies with the Commission's Filing Freeze

Waiver Policy as described in paragraph 151 of the Report and Order in MB Docket

- 07-91 since it meets the following three conditions:
- 1. It would allow the station to use its analog TV antenna for its digital TV operation
- 2. The expansion in service area would be less than 5 miles in any direction than authorized service area as defined by Appendix B facilities
- 3. It would not cause impermissible interference to other stations. An electromagnetic interference study conducted according to FCC OET Bulleting 69 indicates the proposed KSFY-DT operation on DTV Channel 13 will not cause more than 0.5% new interference to other stations.

Question 2.

The attached environmental statement demonstrates that there will not be any

significant environmental impact from the proposed DTV operation in accordance

with 47 C.F.R. Section 73.1307.

Question 3.

The attached map shows the proposed KSFY-DT contour will encompass the allotted principal community of Sioux Falls, South Dakota.

Question 4.

The proposed KSFY-DT facility complies with Section 73.1030 of the Commission's rules; therefore, notification to radio astronomy installations, radio receiving installations and FCC monitoring stations is not required.

Question 5.

The existing KSFY-DT tower is registered (ASR No. 1035413) by the Commission and no changes are proposed to require a change in the registration.

TABLE I

OET BULLETIN 69 INTERFERENCE STUDY

Census data selected 2000

Post Transition Data Base Selected /space/software/cdbs/tvdb.sff_G TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Record Selected for Analysis

KSFY-TV USERRECORD-01 SIOUX FALLS SD US Channel 13 ERP 22.7 kW HAAT 610. m RCAMSL 01040 m Latitude 043-31-07 Longitude 0096-32-05 Status APP Zone 2 Border Dir Antenna Make usr Model KSFY_FCC 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	ERP	HAAT	36.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	22.383	609.1	120.2
45.0	22.271	602.0	119.8
90.0	22.203	593.9	119.2
135.0	22.271	602.5	119.8
180.0	22.609	622.6	121.0
225.0	22.677	626.0	121.2
270.0	22.293	603.3	119.8
315.0	22.609	622.9	121.0

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

KSFY-TV 13 SIOUX FALLS SD USERRECORD01

and station

SHORT TO: KPLO-TV 13 RELIANCESD BLCDT20030519AER043-57-570099-36-11Req.separation 273.6 Actual separation 252.1 Short21.5 kmSHORT TO: KSFY-TV 13 SIOUX FALLSSD BDTV0000012143-31-0796-32-05Req. separation 273.6 Actual separation0.0 Short 273.6 kmProposed facility OK to FCC Monitoring StationsProposed facility OK toward West Virginia quiet zoneProposed facility OK toward Table Mountain

KHANNA & GUILL, Inc. - Consulting Engineers

Proposed facility is beyond the Canadian coordination distance Proposed facility is beyond the Mexican coordination distance Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

	Propo	sed Station	
Channel	Call	City/State	ARN
13	KSFY-TV	SIOUX FALLS SD	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Applicatio	on Ref. No.
12	KEYC-TV	MANKATO MN	176.8	CP MOD	BMPCDT	-20010223AAQ
12	KTTM	HURON SD	161.4	CP	BPCDT	-19991029ADD
13	WHO-TV	DES MOINES IA	303.5	CP	BPCDT	-19990805LD
13	KFME	FARGO ND	391.8	CP	BDTV	-00000117
13	KPLO-TV	RELIANCE SD	251.3	LIC	BLCDT	-20030519AER

Analysis of Interference to Affected Station 1

Analysis	of current	record		
Channel	Call	City/State	Application	Ref. No.
12	KEYC-TV	MANKATO MN	BMPCDT	-20010223AAQ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Applicati	on Ref. No.
11	KARE	MINNEAPOLIS MN	160.6	LIC	BLCDT	-20010917ABZ
11	KELO-TV	SIOUX FALLS SD	176.8	LIC	BLCDT	-20030417AAE
12	KIIN	IOWA CITY IA	351.0	CP	BDTV	-00000107
12	KCCW-TV	WALKER MN	333.2	CP	BDTV	-00000097
12	KUON-TV	LINCOLN NE	353.2	CP	BDTV	-00000106
12	KTTM	HURON SD	313.4	CP	BPCDT	-19991029ADD
13	KSFY-TV	SIOUX FALLS SD	176.8	APP	USERRECOR	D-01
Proposal causes no interference						

Analysis of Interference to Affected Station 2

Analysis	of current	record		
Channel	Call	City/State	Application	Ref. No.
12	KTTM	HURON SD	BPCDT	-19991029ADD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Applicatio	on Ref. No.
11	KQSD-TV	LOWRY SD	178.2	CP	BDTV	-0000083
11	KELO-TV	SIOUX FALLS SD	161.4	LIC	BLCDT	-20030417AAE
12	KEYC-TV	MANKATO MN	313.4	CP MOD	BMPCDT	-20010223AAQ
12	KCCW-TV	WALKER MN	427.7	CP	BDTV	-00000097
12	KXMB-TV	BISMARCK ND	329.4	CP	BDTV	-00000099
12	KUON-TV	LINCOLN NE	372.2	CP	BDTV	-00000106
12	KRNE-TV	MERRIMAN NE	321.5	CP	BDTV	-00000095
13	KPLO-TV	RELIANCE SD	105.7	LIC	BLCDT	-20030519AER
13	KSFY-TV	SIOUX FALLS SD	161.4	APP	USERRECORI	D-01
Prop	osal caus	es no interference				

Analysis of Interference to Affected Station 3 Analysis of current record Call CICICI CALCINA DES MOINES IA City/State Channel Application Ref. No. 13 BPCDT -19990805LD Stations Potentially Affecting This Station Chan Call City/State Dist(km) Status Application Ref. No. IOWA CITY IA 188.9 CP BDTV -00000107 12 KIIN WREXTV ROCKFORD IL 364.7 LIC -1372 13 BLCT 412.7 CP WCFN SPRINGFIELD IL -19991026ABC 13 BPCDT WIBW-TV TOPEKA KS 375.4 CP -00000126 13 BDTV WEAU-TV EAU CLAIRE WI 13 381.3 CP BDTV -00000125 13 WEAU-TV EAU CLAIRE WI 13 KSFY-TV SIOUX FALLS SD 303.5 APP USERRECORD-01 Total scenarios = 1 Result key: 1 1 Affected station 3 Scenario Before Analysis Results for: 13A IA DES MOINES BPCDT 19990805LD CP HAAT 609.0 m, ATV ERP 36.1 kW POPULATION AREA (sq km) within Noise Limited Contour 1077046 49353.0 not affected by terrain losses 1062380 48200.1 lost to NTSC IX 0 0.0 lost to additional IX by ATV 23201 297.3 lost to ATV IX only 23201 297.3 lost to all IX 23201 297.3 Potential Interfering Stations Included in above Scenario 1 13A IL ROCKFORD BLCT 1372LIC 13A KS TOPEKA BDTV 00000126 CP 13A WI EAU CLAIRE BDTV 00000125 CP After Analysis 19990805LD CP Results for: 13A IA DES MOINES BPCDT HAAT 609.0 m, ATV ERP 36.1 kW POPULATION AREA (sq km) within Noise Limited Contour 1077046 49353.0 not affected by terrain losses 1062380 48200.1 lost to NTSC IX 0 0.0 lost to additional IX by ATV 23841 494.1 lost to ATV IX only 23841 494.1 lost to all IX 23841 494.1 Potential Interfering Stations Included in above Scenario 1 13A IL ROCKFORD BLCT 1372 LIC 13A KS TOPEKA BDTV 00000126 CP 13A WI EAU CLAIRE 00000125 BDTV CP 13A SD SIOUX FALLS USERRECORD01 APP Percent new IX = 0.0616% Worst case new IX 0.0616% Scenario 1 Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	KFME	FARGO ND	BDTV -00000117

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Applicati	on Ref. No.
12	KCCW-TV	WALKER MN	207.7	CP	BDTV	-00000097
12	KNRR	PEMBINA ND	220.9	CP	BPCDT	-19991101AKT
13	WIRT	HIBBING MN	322.7	CP	BPCDT	-19991027ABC
13	KXMC-TV	MINOT ND	331.9	CP	BDTV	-00000127
13	KPLO-TV	RELIANCE SD	387.2	LIC	BLCDT	-20030519AER
13	KSFY-TV	SIOUX FALLS SD	391.8	APP	USERRECOR	D-01
Prop	osal caus	es no interference				

Analysis of Interference to Affected Station 5

Analysis of current recordChannelCallCity/StateApplication Ref. No.13KPLO-TVRELIANCE SDBLCDT-20030519AER

Stations Potentially Affecting This Station

Chan Call City/State Dist(km) Status Application Ref. No. 12 KRNE-TV MERRIMAN NE 222.6 CP BDTV -00000095 HURON SD 105.7 CP 12 KTTM BPCDT -19991029ADD KFME FARGO ND KTNE-TV ALLIANCE NE BDTV KFME 387.2 CP -00000117 13 367.1 CP 243.0 CP BDTV -00000118 13 13 KPSD-TV EAGLE BUTTE SD BDTV -00000119 13 KSFY-TV SIOUX FALLS SD 251.3 APP USERRECORD-01 Total scenarios = 1 Result key: 2 4
1 Affected station Scenario 5 Before Analysis BLCDT 20030519AER LIC Results for: 13A SD RELIANCE HAAT 318.0 m, ATV ERP 40.0 kW POPULATION AREA (sq km) 56183 31241.4 within Noise Limited Contour not affected by terrain losses 53474 30097.3 lost to NTSC IX 0 0.0 lost to additional IX by ATV 1669 1754.1 lost to ATV IX only 1669 1754.1 lost to all IX 1669 1754.1 Potential Interfering Stations Included in above Scenario 1 12A SD HURON BPCDT 19991029ADD CP 00000117 13A ND FARGO BDTV CP 13A NE ALLIANCE BDTV 00000118 CP 13A SD EAGLE BUTTE BDTV 00000119 CP After Analysis Results for: 13A SD RELIANCE BLCDT 20030519AER LIC HAAT 318.0 m, ATV ERP 40.0 kW POPULATION AREA (sq km) 31241.4 within Noise Limited Contour 56183 30097.3 not affected by terrain losses 53474 lost to NTSC IX 0 0.0 lost to additional IX by ATV 3553 2797.8 lost to ATV IX only 3553 2797.8 lost to all IX 3553 2797.8

Potential Interfering Stations Included in above Scenario 1

BPCDT 12A SD HURON 19991029ADD CP 00000117 13A ND FARGO BDTV 00000117 BDTV 00000118 BDTV 00000119 USERRECOPD01 BDTV CP 13A NE ALLIANCE CP 13A SD EAGLE BUTTE CP 13A SD SIOUX FALLS USERRECORD01 APP The following station failed the de minimis interference criteria. 13D SD SIOUX FALLS USERRECORD01 ERP 22.70 kW HAAT 610.0 m RCAMSL 1040.0 m Antenna usr KSFY_FCC Due to interference to the following station and scenario: 1
 13D SD RELIANCE
 BLCDT
 20030519AER

 ERP
 40.00 kW
 HAAT
 318.0 m
 RCAMSL
 844.0 m
 Antenna CDB 0000000045870 Percent Service lost without proposal: 0.0 to BLCDT 0.0 to BLCDT 20030519AER 3.6 to BLCDT 20030519AER 20030519AER Percent Service lost with proposal: Worst case new IX 3.6367% Scenario 1 Analysis of Interference to Affected Station 6 Analysis of current record Call City/State Channel Application Ref. No. KSFY-TV SIOUX FALLS SD USERRECORD-01 13 Stations Potentially Affecting This Station Chan Call City/State Dist(km) Status Application Ref. No. 12 KEYC-TV MANKATO MN 176.8 CP MOD BMPCDT -20010223AAQ
 161.4
 CP
 BPCDT
 -20010223AQ

 303.5
 CP
 BPCDT
 -19991029ADI

 391.8
 CP
 BDTV
 -00000117
 12 KTTM HURON SD -19991029ADD 13 WHO-TV DES MOINES IA
 391.8
 CP
 BDTV
 -00000117

 251.3
 LIC
 BLCDT
 -20030519AER
 13 KFME FARGO ND 13 KPLO-TV RELIANCE SD Total scenarios = 1 Result key: 3 Result key:3Scenario1Affected station 6 Before Analysis USERRECORD01 Results for: 13A SD SIOUX FALLS APP HAAT 610.0 m, ATV ERP 22.7 kW POPULATION AREA (sq km) within Noise Limited Contour 618420 45418.7 45418.7 not affected by terrain losses 580289 43695.1 lost to NTSC IX00.0lost to additional IX by ATV378752579.5lost to ATV IX only378752579.5 lost to ATV IX only lost to all IX 37875 2579.5 Potential Interfering Stations Included in above Scenario 1 12A MN MANKATO BMPCDT 20010223AAQ CP 12A SD HURON BPCDT 19991029ADD CP 13A IA DES MOINES BPCDT 19990805LD CP 13A ND FARGO 00000117 BDTV CP BLCDT 20030519AER LIC 13A SD RELIANCE

FINISHED FINISHED FINISHED FINISHED FINISHED

TABLE I

OET BULLETIN 69 INTERFERENCE STUDY

Census data selected 2000

Post Transition Data Base Selected /space/software/cdbs/tvdb.sff_G TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Record Selected for Analysis

KSFY-TV USERRECORD-01 SIOUX FALLS SD US Channel 13 ERP 22.7 kW HAAT 610. m RCAMSL 01040 m Latitude 043-31-07 Longitude 0096-32-05 Status APP Zone 2 Border 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	ERP	HAAT	36.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	22.700	609.1	120.3
45.0	22.700	602.0	120.0
90.0	22.700	593.9	119.5
135.0	22.700	602.5	120.0
180.0	22.700	622.6	121.0
225.0	22.700	626.0	121.2
270.0	22.700	603.3	120.0
315.0	22.700	622.9	121.1

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

KSFY-TV 13 SIOUX FALLS SD USH

and station

SD USERRECORD01

SHORT TO: KPLO-TV 13 RELIANCE SD BLCDT 20030519AER 043-57-57 0099-36-11 Req. separation 273.6 Actual separation 252.1 Short 21.5 km SHORT TO: KSFY-TV 13 SIOUX FALLS SD BDTV 00000121 43-31-07 96-32-05 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 quiet 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

Start of Interference Analysis

		Propose	d Station	1				
Channel		Call City/State		ARN				
13 KSE		Y-TV SIOUX FALLS SD		LS SD		USER	RECORD01	
	Stations	Potentia	lly Affec	ted by	Proposed	l Static	n	
Chan	Call	City/	State		Dist(km)	Status	Applica	tion Ref. No.
12	KTTM	HURON S	D		161.4	CP MOL	BPCDT	-19991029ADD
13	WHO-TV	DES MOI	NES IA		303.5	CP	BPCDT	-19990805LD
13	KFME	FARGO N	D		391.8	CP	BDTV	-00000117
13	KPLO-TV	RELIANC	E SD		251.3	LIC	BLCDT	-20030519AER
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	Analysis	of Inter	ference t	o Affec	ted Stati	lon 1		
Anals	vsis of cu	rrent re	cord					
Chanr	nel Ca	11	City	/State	Ar	plicati	on Ref.	No.
12	2 KEY	C-TV	MANKATO M	ÍN	-	BMPCDI	-200	10223AAQ
	Stations	Potentia	lly Affec	ting Th	is Statio	on		
Chan	Call	City/	State		Dist(km)	Status	Applica	tion Ref. No.
11	KARE	MINNEAP	OLIS MN		160.6	LIC	BLCDT	-20010917ABZ
11	KELO-TV	SIOUX F	ALLS SD		176.8	LIC	BLCDT	-20030417AAE
12	KIIN	IOWA CI	TY IA		351.0	CP	BDTV	-00000107
12	KCCW-TV	WALKER	MN		333.2	CP	BDTV	-00000097
12	KUON-TV	LINCOLN	NE		353.2	CP	BDTV	-00000106
12	KTTM	HURON S	D		313.4	CP	BPCDT	-19991029ADD
13	KSFY-TV	SIOUX F	ALLS SD		176.8	APP	USERREC	ORD-01

Proposal causes no interference

Analysis of Interference to Affected Station 2

Analysis	of current	record		
Channel	Call	City/State	Application	Ref. No.
12	KTTM	HURON SD	BPCDT	-19991029ADD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Applicatio	on Ref. No.	
11	KQSD-TV	LOWRY SD	178.2	CP	BDTV	-0000083	
11	KELO-TV	SIOUX FALLS SD	161.4	LIC	BLCDT	-20030417AAE	
12	KEYC-TV	MANKATO MN	313.4	CP MOD	BMPCDT	-20010223AAQ	
12	KCCW-TV	WALKER MN	427.7	CP	BDTV	-00000097	
12	KXMB-TV	BISMARCK ND	329.4	CP	BDTV	-00000099	
12	KUON-TV	LINCOLN NE	372.2	CP	BDTV	-00000106	
12	KRNE-TV	MERRIMAN NE	321.5	CP	BDTV	-00000095	
13	KPLO-TV	RELIANCE SD	105.7	LIC	BLCDT	-20030519AER	
13	KSFY-TV	SIOUX FALLS SD	161.4	APP	USERRECORI	D-01	
Prop	Proposal causes no interference						

Analysis of Interference to Affected Station 3

Analysis of current record Channel Call (13 WHO-TV DES MO	City/State DINES IA	Application BPCDT	Ref. No. -19990805LD				
Stations Potentially Affecting This Station							
Chan Call City/State 12 KIIN IOWA CITY IA 13 WREXTV ROCKFORD IL 13 WCFN SPRINGFIELD I 13 WIBW-TV TOPEKA KS 13 WEAU-TV EAU CLAIRE WI 13 KSFY-TV SIOUX FALLS S	Dist(k 188 364 IL 412 375 I 381 SD 303	m) Status Ar 8.9 CP BI 8.7 LIC BI 8.7 CP BI 8.7 CP BI 8.7 CP BI 8.7 CP BI 8.3 CP BI 8.3 CP BI	Opplication Ref. No. DTV -00000107 LCT -1372 PCDT -19991026ABC DTV -00000126 DTV -00000125 SERRECORD-01 -01				
Total scenarios = 1							
Result key: 1 Scenario 1 Affected Before Analysis	station 3						
Results for: 13A IA DES MOIN HAAT 609.0 m. ATV ERP	NES BPC 36.1 kW	DT 199908	305LD CP				
within Noise Limited Cont not affected by terrain 1 lost to NTSC IX lost to additional IX by lost to ATV IX only lost to all IX	POPULATION Cour 1077046 losses 1062380 0 ATV 23201 23201 23201	I AREA (sq) 49353.0 48200.1 0.0 297.3 297.3 297.3	cm)				
Potential Interfering Stat	ions Included in	above Scenar	io 1				
13A IL ROCKFORD 13A KS TOPEKA 13A WI EAU CLAIRE	BLCT 1372 BDTV 000001 BDTV 000001	LIC .26 CP .25 CP					
After Analysis							
Results for: 13A IA DES MOIN HAAT 609.0 m, ATV ERP	NES BPC 36.1 kW	DT 199908	305LD CP				
within Noise Limited Cont not affected by terrain I lost to NTSC IX lost to additional IX by lost to ATV IX only lost to all IX	POPULATION tour 1077046 losses 1062380 0 ATV 23871 23871 23871	I AREA (sq) 49353.0 48200.1 0.0 510.2 510.2 510.2	cm)				
Potential Interfering Stat	ions Included in	above Scenar	io 1				
13A IL ROCKFORD 13A KS TOPEKA 13A WI EAU CLAIRE 13A SD SIOUX FALLS	BLCT 1372 BDTV 000001 BDTV 000001 USERRECORD01 0	LIC 26 CP 25 CP APP					
Percent new IX = 0.0645%							
Worst case new IX 0.06459	Scenario 1						
****	****	****	*****				
Analysis of Interference	ce to Affected St	ation 4					
Analysis of current record Channel Call (13 KEME FARGO	City/State ND	Application BDTV	Ref. No.				

Stations Potentially Affecting This Station

Chan 12 12 13 13 13 13 Prop	Call KCCW-TV KNRR WIRT KXMC-TV KPLO-TV KSFY-TV osal cause	City/State WALKER MN PEMBINA ND HIBBING MN MINOT ND RELIANCE SD SIOUX FALLS S es no interfe:	SD rence	Dist(km) 207.7 220.9 322.7 331.9 387.2 391.8	Status CP CP CP CP LIC APP	Applicat: BDTV BPCDT BPCDT BDTV BLCDT USERRECON	ion Ref. No. -00000097 -19991101AKT -19991027ABC -00000127 -20030519AER RD-01
#####	#########	*****	******	#########	******	#########	#########
	Applaraia	of Interform	no to Affo	atod Ctati	on F		
	Analysis	or incerteren	Le LO AITE	cied Stati	.011 5		
Analy Chann 13	sis of cu el Ca KPL	rrent record 11 (0-TV RELIA	City/State NCE SD	Aŗ	plication BLCDT	on Ref. No -2003	o. 0519aer
	Stations	Potentially A:	ffecting T	his Static	on		
Chan 12 13 13 13 13 13	Call KRNE-TV KTTM KFME KTNE-TV KPSD-TV KSFY-TV	City/State MERRIMAN NE HURON SD FARGO ND ALLIANCE NE EAGLE BUTTE S SIOUX FALLS S	SD SD	Dist(km) 222.6 105.7 387.2 367.1 243.0 251.3	Status CP CP CP CP CP CP APP	Applicat: BDTV BPCDT BDTV BDTV BDTV USERRECOI	ion Ref. No. -00000095 -19991029ADD -00000117 -00000118 -00000119 RD-01
Tota	l scenari	os = 1					
Resul Scena Befor	t key: rio e Analysi	2 1 Affected s	station	5			
Resul HA	ts for: 1 AT 318.0	3A SD RELIANC m, ATV ERP	E 40.0 kW	BLCDT	200	30519AER	LIC
wi no lo lo lo	thin Nois t affecte st to NTS st to add st to ATV st to all	e Limited Cond d by terrain I C IX itional IX by IX only IX	POP Lour losses ATV	ULATION 56183 53474 0 1669 1669 1669	AREA (so 31241 30097 0 1754 1754 1754	q km) .4 .3 .0 .1 .1 .1	
Pote	ntial Int	erfering Stat:	ions Inclu	ded in abo	ove Scena	ario :	1
12A S 13A N 13A N 13A S	D HURON D FARGO E ALLIANC D EAGLE B	E UTTE	BPCDT BDTV BDTV BDTV	199910297 00000117 00000118 00000119	ADD CP CP CP CP		
After	Analysis						
Resul HA	ts for: 1 AT 318.0	3A SD RELIANC m, ATV ERP	E 40.0 kW	BLCDT	200	30519AER	LIC
wi no lo lo lo	thin Nois t affecte st to NTS st to add st to ATV st to all	e Limited Cond d by terrain 1 C IX itional IX by IX only IX	POP Cour Losses ATV	ULATION 56183 53474 0 3561 3561 3561	AREA (so 31241 30097 0 2801 2801 2801	q km) .4 .3 .0 .8 .8 .8	
Pote	ntial Int	erfering Stat:	ions Inclue	ded in abo	ove Scena	ario i	1
12A S 13A N 13A N	D HURON D FARGO E ALLIANC	E	BPCDT BDTV BDTV	199910297 00000117 00000118	ADD CP CP CP		

KHANNA & GUILL, Inc. - Consulting Engineers

13A SD EAGLE BUTTE BDTV 00000119 CP 13A SD SIOUX FALLS USERRECORD01 APP The following station failed the de minimis interference criteria.
 13D SD SIOUX FALLS
 USERRECORD01

 ERP
 22.70 kW HAAT
 610.0 m RCAMSL
 1040.0 m
 Antenna none Due to interference to the following station and scenario: 1
 13D SD RELIANCE
 BLCDT
 20030519AER

 ERP
 40.00 kW HAAT
 318.0 m RCAMSL
 844.0 m
 Antenna CDB 0000000045870 Percent Service lost without proposal: 0.0 to BLCDT Percent Service lost with proposal: 3.7 to BLCDT 20030519а±к 20030519аER Worst case new IX 3.6522% Scenario 1 Analysis of Interference to Affected Station 6 Analysis of current record Channel Call City/State Application Ref. No. SIOUX FALLS SD USERRECORD-01 13 KSFY-TV Stations Potentially Affecting This Station Chan Call City/State Dist(km) Status Application Ref. No. 12 KEYC-TV MANKATO MN 176.8 CP MOD BMPCDT -20010223AAQ 161.4 CP BPCDT 303.5 CP BPCDT 12 KTTM HURON SD -19991029ADD 13 WHO-TV DES MOINES IA BPCDT -19990805LD 13 KFME FARGO ND 391.8 CP BDTV -00000117 251.3 LIC BLCDT 13 KPLO-TV RELIANCE SD -20030519AER Total scenarios = 1 3 Result key: Scenario 1 Affected station 6 Before Analysis Results for: 13A SD SIOUX FALLS USERRECORD01 APP HAAT 610.0 m, ATV ERP 22.7 kW POPULATION AREA (sq km) within Noise Limited Contour 620582 45506.4 not affected by terrain losses 575089 43758.7 lost to NTSC IX 0 0.0 lost to additional IX by ATV 42087 2583.5 lost to ATV IX only 2583.5 42087 lost to all IX 42087 2583.5 Potential Interfering Stations Included in above Scenario 1 12A MN MANKATO BMPCDT 20010223AAQ CP 12A SD HURON BPCDT 19991029ADD CP 13A IA DES MOINES 19990805LD CP BPCDT 13A ND FARGO BDTV 00000117 CP 20030519AER LIC 13A SD RELIANCE BLCDT

FINISHED FINISHED FINISHED FINISHED FINISHED

ENVIRONMENTAL PROTECTION ACT

Since KSFY-TV will be using its currently licensed analog TV antenna, located on tower (ASR No. 1035413), for the DTV operation the environmental concerns listed in Section 1.1307(a) of the Commission's rules are not pertinent; therefore, those issues have not been addressed.

An evaluation has been made to determine compliance with the Commission's specified standards for human exposure to RF fields as set forth in the OET Bulletin No. 65 dated August 1997. For a maximum effective radiated power of 22.7 kW and a radiation center of 595 meters above ground level, the proposed Channel 13 DTV operation would have less than 1 microwatts per square centimeter (μ W/cm²) RF field at 2 meters above the base of tower assuming an antenna field factor of 0.5 in the downward direction.

The Commission's guidelines for the Channel 13 TV are 1000 μ W/cm² for the occupational/controlled, and 200 μ W/cm² for the general population/uncontrolled environment.

The above analysis indicates that members of the public and personnel working around the KSFY-DT tower would not be exposed to RF fields exceeding the Commission's guidelines. With respect to work performed on the tower, KSFY-DT will establish procedures to ensure that workers are not exposed to RF fields above the Commission's guidelines, by reducing or turning off the power, as appropriate.

For the reasons stated above, it is believed this proposal complies with Section 1.1307(a) and (b) of the Commission's Rules; therefore, under Section 1.1306, it is categorically excluded from environmental processing.



COMPUTED NOISE LIMITED CONTOURS FOR THE RPOPOSED DTV OPERATION OF KSFY-DT, SIOUX FALLS, SOUTH DAKOTA