

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-10-2008 Time: 12:32:51

Record Selected for Analysis

KXNE-D USERRECORD-01 NORFOLK NE US
Channel 19 ERP 500. kW HAAT 322. m RCAMSL 00841 m
Latitude 042-14-15 Longitude 0097-16-41
Status APP Zone 2 Border
Dir Antenna Make usr Model USRPAT01 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	108.112	324.5	81.3
45.0	45.602	340.7	77.3
90.0	491.040	356.6	96.2
135.0	28.680	338.4	74.2
180.0	171.112	301.9	82.0
225.0	308.112	306.5	87.0
270.0	12.482	313.4	67.6
315.0	373.248	295.1	87.1

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

KXNE-D 19 NORFOLK NE USERRECORD01

and station

SHORT TO: KTVG 19 GRAND ISLAND NE BDTV 1022
40 -43-44 098 -34-13
Req. separation 223.7 Actual separation 199.3 Short 24.4 km

SHORT TO: KXNE-TV 19 NORFOLK NE BDTV 1034
42 -14-15 097 -16-41
Req. separation 223.7 Actual separation 0.0 Short 223.7 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

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

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
19	KXNE-D	NORFOLK NE	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
19	KTVG	GRAND ISLAND NE	199.2	LIC	BDTV	-1022
19	KPRY-TV	PIERRE SD	304.0	LIC	BDTV	-1429
20	KETV	OMAHA NE	146.4	LIC	BDTV	-1039

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
19	KTVG	GRAND ISLAND NE	BDTV	-1022

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
18	KWNB-TV	HAYES CENTER NE	207.9	LIC	BDTV	-1025
19	KWKS	COLBY KS	289.4	LIC	BDTV	-0603
19	KSCW	WICHITA KS	337.7	LIC	BDTV	-0628
19	KPRY-TV	PIERRE SD	389.7	LIC	BDTV	-1429
20	KETV	OMAHA NE	222.9	LIC	BDTV	-1039

19 KXNE-D NORFOLK NE 199.2 APP USERRECORD-01

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 19A NE GRAND ISLAND BDTV 1022 LIC
HAAT 186.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	195559	18649.0
not affected by terrain losses	195558	18645.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	20	23.9
lost to ATV IX only	20	23.9
lost to all IX	20	23.9

Potential Interfering Stations Included in above Scenario 1

19A KS COLBY BDTV 0603 LIC

After Analysis

Results for: 19A NE GRAND ISLAND BDTV 1022 LIC
HAAT 186.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	195559	18649.0
not affected by terrain losses	195558	18645.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1031	387.1
lost to ATV IX only	1031	387.1
lost to all IX	1031	387.1

Potential Interfering Stations Included in above Scenario 1

19A KS COLBY BDTV 0603 LIC
19A NE NORFOLK USERRECORD01 APP
*Percent Service lost without proposal: 0.0 to BDTV 1022
*Percent Service lost with proposal: 0.5 to BDTV 1022

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
19	KPRY-TV	PIERRE SD	BDTV -1429

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
19	KXMA-TV	DICKINSON ND	370.4	LIC	BDTV -1000
19	KVRR	FARGO ND	419.1	LIC	BDTV -1003
19	KTVG	GRAND ISLAND NE	389.7	LIC	BDTV -1022

19 KXNE-D NORFOLK NE 304.0 APP USERRECORD-01

Total scenarios = 1

Result key: 2
Scenario 1 Affected station 2
Before Analysis

Results for: 19A SD PIERRE BDTV 1429 LIC
HAAT 378.0 m, ATV ERP 1000.0 kW
POPULATION AREA (sq km)
within Noise Limited Contour 46336 30713.7
not affected by terrain losses 45136 30345.6
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

Potential Interfering Stations Included in above Scenario 1

After Analysis

Results for: 19A SD PIERRE BDTV 1429 LIC
HAAT 378.0 m, ATV ERP 1000.0 kW
POPULATION AREA (sq km)
within Noise Limited Contour 46336 30713.7
not affected by terrain losses 45136 30345.6
lost to NTSC IX 0 0.0
lost to additional IX by ATV 31 88.0
lost to ATV IX only 31 88.0
lost to all IX 31 88.0

Potential Interfering Stations Included in above Scenario 1

19A NE NORFOLK USERRECORD01 APP
*Percent Service lost without proposal: 0.0 to BDTV 1429
*Percent Service lost with proposal: 0.1 to BDTV 1429

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
20	KETV	OMAHA NE	BDTV	-1039

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
19	KTVG	GRAND ISLAND NE	222.9	LIC	BDTV	-1022
20	KSMQ-TV	AUSTIN MN	386.7	LIC	BDTV	-0817
19	KXNE-D	NORFOLK NE	146.4	APP	USERRECORD-01	

Total scenarios = 1

Result key: 3
 Scenario 1 Affected station 3
 Before Analysis

Results for: 20A NE OMAHA BDTV 1039 LIC
 HAAT 396.0 m, ATV ERP 700.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1228696	35404.5
not affected by terrain losses	1220493	35104.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	140	12.0
lost to ATV IX only	140	12.0
lost to all IX	140	12.0

Potential Interfering Stations Included in above Scenario 1

20A MN AUSTIN BDTV 0817 LIC

After Analysis

Results for: 20A NE OMAHA BDTV 1039 LIC
 HAAT 396.0 m, ATV ERP 700.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1228696	35404.5
not affected by terrain losses	1220493	35104.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	161	32.0
lost to ATV IX only	161	32.0
lost to all IX	161	32.0

Potential Interfering Stations Included in above Scenario 1

20A MN AUSTIN BDTV 0817 LIC
 19A NE NORFOLK USERRECORD01 APP
 *Percent Service lost without proposal: 0.0 to BDTV 1039
 *Percent Service lost with proposal: 0.0 to BDTV 1039

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
19	KXNE-D	NORFOLK NE	USERRECORD-01

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
19	KTVG	GRAND ISLAND NE	199.2	LIC	BDTV -1022
19	KPRY-TV	PIERRE SD	304.0	LIC	BDTV -1429
20	KETV	OMAHA NE	146.4	LIC	BDTV -1039

Total scenarios = 1

Result key: 4
Scenario 1 Affected station 4
Before Analysis

Results for: 19A NE NORFOLK USERRECORD01 APP
HAAT 322.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	293215	22782.5
not affected by terrain losses	291309	22523.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	11070	810.2
lost to ATV IX only	11070	810.2
lost to all IX	11070	810.2

Potential Interfering Stations Included in above Scenario 1

19A NE GRAND ISLAND	BDTV	1022	LIC
19A SD PIERRE	BDTV	1429	LIC
20A NE OMAHA	BDTV	1039	LIC

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