

OET-69 Interference Analysis (K13XD, Fairbanks, AK, Ch. 13)

Percent allowed new interference: 0.500
Percent allowed new interference to non Class A LPTV: 2.000
TW Census data selected 2000
Data Base Selected
/export/home/cdbs/pt_tvdb.sff
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 07-19-2011

Record Selected for Analysis

K13XD USERRECORD-01 FAIRBANKS AK US
Channel 13 ERP 3. kW HAAT 280. m RCAMSL 00522 m SIMPLE MASK
Latitude 064-55-20 Longitude 0147-42-55
Status APP Zone 2 Border Site number: 01
Dir Antenna Make CDB Model 00000000105301 Beam tilt N Ref Azimuth 170.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) meets maximum height/power limits

Site number	1			
Azimuth	ERP	HAAT	48.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	0.235	247.2	40.9	
45.0	0.014	193.8	20.9	
90.0	0.211	215.3	38.3	
135.0	2.542	340.0	63.5	
180.0	2.923	387.9	67.9	
225.0	1.763	333.7	60.3	
270.0	0.023	316.5	28.0	
315.0	0.082	206.4	31.1	

Contour Overlap to Proposed Station

Station
K13XD 13 FAIRBANKS AK BDFCDVA20110602AAN

Station inside contour of Digital LPTV station
K13XD 13 FAIRBANKS AK USERRECORD01

Station
K13XD 13 FAIRBANKS AK BLTVL19981019JL

Station inside contour of Digital LPTV station
K13XD 13 FAIRBANKS AK USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance
Distance to border = 315.8km

OET-69 Interference Analysis (K13XD, Fairbanks, AK, Ch. 13)

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station	ARN
13	Call K13XD City/State FAIRBANKS AK	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	KTPP-LD	ANCHORAGE AK	403.7	CP	BNPDVL	-20090825BUX
13	K13TE	BETTLES AK	284.6	LIC	BLTTV	-19821118IJ
13	K13SY	BIRCH CREEK AK	177.5	LIC	BLTTV	-19831121IC
13	K13SB	CHITINA AK	412.3	LIC	BLTVL	-19830307IB
13	K13SI	CIRCLE AK	196.6	LIC	BLTVL	-19820603IK
13	K13KU	DELTA JUNCTION AK	154.4	LIC	BLTTV	-4430
13	K13RM	DOT LAKE AK	225.5	LIC	BLTVL	-19811117KU
13	K13UB	GLENNALLEN & COPPER AK	371.0	LIC	BLTVL	-19901213IG
13	K13TN	MANLEY HOT SPRINGS AK	137.9	LIC	BLTTV	-19820729ID
13	K13TK	MINTO AK	80.4	LIC	BLTVL	-19820629ID
13	K13SM	SLANA AK	306.8	LIC	BLTVL	-19821026IV
13	K13RR	TOK AK	289.4	LIC	BLTVL	-19871228IC
13	K13MZ	USIBELLI, ETC. AK	128.5	LIC	BLTTV	-4431
13	K13TA	WISEMAN AK	296.7	LIC	BLTTV	-19910312II

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	KTPP-LD	ANCHORAGE AK	BNPDVL	-20090825BUX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KYUR	ANCHORAGE AK	0.0	LIC	BLCDT	-20090928AKO
13	K13XD	FAIRBANKS AK	403.7	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	K13TE	BETTLES AK	BLTTV	-19821118IJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	K13SY	BIRCH CREEK AK	109.1	LIC	BLTTV	-19831121IC
13	K13TA	WISEMAN AK	88.0	LIC	BLTTV	-19910312II
13	K13XD	FAIRBANKS AK	284.6	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 3

Analysis of current record

OET-69 Interference Analysis (K13XD, Fairbanks, AK, Ch. 13)

Channel	Call	City/State	Application	Ref. No.
13	K13SY	BIRCH CREEK AK	BLTTV	-19831121IC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	K13TE	BETTLES AK	109.1	LIC	BLTTV	-19821118IU
13	K13XD	FAIRBANKS AK	177.5	APP	USERRECORD-01	

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	K13SB	CHITINA AK	BLTVL	-19830307IB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	K13UB	GLENNALLEN & COPPER AK	49.8	LIC	BLTVL	-19901213IG
13	K13XD	FAIRBANKS AK	412.3	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	K13SI	CIRCLE AK	BLTVL	-19820603IK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	K13XD	FAIRBANKS AK	196.6	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	K13KU	DELTA JUNCTION AK	BLTTV	-4430

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	K13RM	DOT LAKE AK	89.9	LIC	BLTVL	-19811117KU
13	K13XD	FAIRBANKS AK	154.4	LIC	BLTVL	-19981019JL
13	K13MZ	USIBELLI, ETC. AK	146.9	LIC	BLTTV	-4431
13	K13XD	FAIRBANKS AK	154.4	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	K13RM	DOT LAKE AK	BLTVL	-19811117KU

Stations Potentially Affecting This Station

OET-69 Interference Analysis (K13XD, Fairbanks, AK, Ch. 13)

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	K13KU	DELTA JUNCTION AK	89.9	LIC	BLTTV	-4430
13	K13SM	SLANA AK	105.8	LIC	BLTVL	-19821026IV
13	K13RR	TOK AK	64.2	LIC	BLTVL	-19871228IC
13	K13XD	FAIRBANKS AK	225.5	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	K13UB	GLENNALLEN & COPPER AK	BLTVL	-19901213IG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	K12MO	COPPER CENTER AK	31.6	LIC	BLTVL	-19811117LY
13	K13SB	CHITINA AK	49.8	LIC	BLTVL	-19830307IB
13	K13SM	SLANA AK	121.3	LIC	BLTVL	-19821026IV
13	K13XD	FAIRBANKS AK	371.0	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	K13TN	MANLEY HOT SPRINGS AK	BLTTV	-19820729ID

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	K13XD	FAIRBANKS AK	137.9	LIC	BLTVL	-19981019JL
13	K13TK	MINTO AK	63.3	LIC	BLTVL	-19820629ID
13	K13MZ	USIBELLI, ETC. AK	151.5	LIC	BLTTV	-4431
13	K13XD	FAIRBANKS AK	137.9	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	K13TK	MINTO AK	BLTVL	-19820629ID

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	K13XD	FAIRBANKS AK	80.4	CP	BDFCDVA	-20110602AAN
13	K13XD	FAIRBANKS AK	80.4	LIC	BLTVL	-19981019JL
13	K13TN	MANLEY HOT SPRINGS AK	63.3	LIC	BLTTV	-19820729ID
13	K13MZ	USIBELLI, ETC. AK	143.9	LIC	BLTTV	-4431
13	K13XD	FAIRBANKS AK	80.4	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 11

Analysis of current record

OET-69 Interference Analysis (K13XD, Fairbanks, AK, Ch. 13)

Channel	Call	City/State	Application	Ref. No.
13	K13SM	SLANA AK	BLTVL	-19821026IV

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	K13KU	DELTA JUNCTION AK	152.6	LIC	BLTTV	-4430
13	K13RM	DOT LAKE AK	105.8	LIC	BLTVL	-19811117KU
13	K13UB	GLENNALLEN & COPPER AK	121.3	LIC	BLTVL	-19901213IG
13	K13RR	TOK AK	84.8	LIC	BLTVL	-19871228IC
13	K13XD	FAIRBANKS AK	306.8	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	K13RR	TOK AK	BLTVL	-19871228IC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	K13KU	DELTA JUNCTION AK	150.7	LIC	BLTTV	-4430
13	K13RM	DOT LAKE AK	64.2	LIC	BLTVL	-19811117KU
13	K13SM	SLANA AK	84.8	LIC	BLTVL	-19821026IV
13	K13XD	FAIRBANKS AK	289.4	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	K13MZ	USIBELLI, ETC. AK	BLTTV	-4431

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	K13KU	DELTA JUNCTION AK	146.9	LIC	BLTTV	-4430
13	K13XD	FAIRBANKS AK	128.5	LIC	BLTVL	-19981019JL
13	K13XD	FAIRBANKS AK	128.5	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	K13TA	WISEMAN AK	BLTTV	-19910312II

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	K13TE	BETTLES AK	88.0	LIC	BLTTV	-19821118IJ
13	K13XD	FAIRBANKS AK	296.7	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
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OET-69 Interference Analysis (K13XD, Fairbanks, AK, Ch. 13)

13 K13XD FAIRBANKS AK USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	K13KU	DELTA JUNCTION AK	154.4	LIC	BLTTV	-4430
13	K13TN	MANLEY HOT SPRINGS AK	137.9	LIC	BLTTV	-19820729ID
13	K13TK	MINTO AK	80.4	LIC	BLTVL	-19820629ID
13	K13MZ	USIBELLI, ETC. AK	128.5	LIC	BLTTV	-4431

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 15
 Before Analysis

Results for: 13A AK FAIRBANKS USERRECORD01 APP

	POPULATION	AREA (sq km)
HAAT 280.0 m, ATV ERP 3.0 kW		
within Noise Limited Contour	82474	6945.0
not affected by terrain losses	82460	6665.7
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

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED