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
 /space/software/cdbs/pt_tvdb.sff
              TV INTERFERENCE and SPACING ANALYSIS PROGRAM

 Date: 09-21-2011   Time: 13:04:05

 Record Selected for Analysis

 KOHA   USERRECORD-01   US
 Channel 48 ERP 15.   kW   HAAT 147. m RCAMSL 00490 m FULL SERVICE MASK
 Latitude 041-18-32 Longitude 0096-01-33
 Status APP   Zone 2   Border   Site number: 01
 Dir Antenna Make CDB Model 00000000016523 Beam tilt N Ref Azimuth 125.
 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

 Not full service station
 Service Class = LD
 Maximum height/power limits not checked

    Site number 1
    Azimuth   ERP   HAAT   51.0 dBu F(50,90)
     (Deg)   (kW)   (m)   (km)
      0.0   2.497   120.3   35.6
     45.0   10.234   178.2   46.6
     90.0   14.925   169.1   48.0
    135.0   14.970   153.2   46.9
    180.0   13.867   158.7   46.9
    225.0   7.080   145.7   42.6
    270.0   0.652   134.0   29.6
    315.0   1.236   120.8   32.0

        Contour Overlap to Proposed Station

        Station
KOHA-LP 48 OMAHA   NE BPTTL20070917ACE

Station inside contour of Digital LPTV station
KOHA   48   USERRECORD01

        Station
KOHA-LP 48 OMAHA   NE BLTTL20070419AAI

Station inside contour of Digital LPTV station
KOHA   48   USERRECORD01

        Contour Overlap Evaluation to Proposed Station Complete

NO LANDMOBILE SPACING VIOLATIONS FOUND

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 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

Proposed Station

Channel	Call	City/State	ARN
48	KOHA		USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
46	KAZJ-LP	NORFOLK NE	135.3	LIC	BLTTL	-20050204ABA
47	KOHA-LD	OMAHA NE	0.0	CP MOD	BMPDTL	-20070917ACC
48	K48FZ	AMES IA	204.0	LIC	BLTTL	-20011217ADE
48	NEW	KEOKUK IA	394.2	APP	BNPDTL	-20101013AAZ
48	K48KJ-D	GENEVA MN	351.1	LIC	BLDTL	-20100329ADU
48	K48KJ-D	GENEVA MN	373.0	CP	BPDTL	-20110110ABR
48	K48LF-D	GRANITE FALLS MN	390.2	CP	BDCCDTL	-20070517AAC
48	K48GQ	REDWOOD FALLS MN	370.4	LIC	BLTTL	-20011219AAI
48	K48AA	ST. JAMES MN	332.2	LIC	BLTTL	-20100430ADJ
48	KUKC-LP	KANSAS CITY MO	280.8	LIC	BLTTL	-19970327JB
48	NEW	COLUMBUS NE	110.5	APP	BNPDTL	-20100311ACO
48	K48CH	NORFOLK NE	137.3	LIC	BLTT	-19880229IH
48	KOAZ-LP	O'NEILL NE	248.9	LIC	BLTTL	-20041015ACJ
48	NEW	HUMBOLDT SD	277.0	APP	BNPDTL	-20100510AIM
48	NEW	WENTWORTH SD	302.3	APP	BNPDTL	-20100505AEN
49	KPTH-DR	SIOUX CITY IA	142.9	APP	BPRM	-20080620AOR
49	KPTH	SIOUX CITY IA	142.9	LIC	BLCDT	-20061214ABC
51	DK51GK	SIOUX CITY IA	133.8	LIC	BLTTL	-20040422ABO
56	K56AF	CLARINDA IA	102.7	LIC	BLTT	-1112

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
46	KAZJ-LP	NORFOLK NE	BLTTL	-20050204ABA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	KXVO	OMAHA NE	141.1	LIC	BLCDT	-20090604AAK
38	KXVO-DR	OMAHA NE	141.1	APP	BPRM	-20080623ADT
39	KMEG	SIOUX CITY IA	110.9	LIC	BLCDT	-20070129AAZ
43	KPTM	OMAHA NE	141.1	LIC	BLCDT	-20051107AFO
43	KPTM	OMAHA NE	141.1	APP	BMPCDT	-20040609AAB
46	NEW	COLUMBUS NE	80.3	APP	BNPDTL	-20100311ACP

49	KPTH-DR	SIOUX CITY IA	110.9	APP	BPRM	-20080620AOR
49	KPTH	SIOUX CITY IA	110.9	LIC	BLCDT	-20061214ABC
48	KOHA		135.3	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
47	KOHA-LD	OMAHA NE	BMPDTL -20070917ACC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
47	KPXR-TV	CEDAR RAPIDS IA	360.2	LIC	BLCDT -20020510AAO
47	KSMO-TV	KANSAS CITY MO	279.6	LIC	BLCDT -20060630ADR
47	KDLT-TV	SIOUX FALLS SD	247.9	LIC	BLCDT -20050829AAT
48	KOHA-LP	OMAHA NE	0.0	CP	BPTTL -20070917ACE
48	KOHA		0.0	APP	USERRECORD-01

Proposal causes no interference

##

Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
48	K48FZ	AMES IA	BLTTL -20011217ADE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	KOHA-LP	OMAHA NE	204.0	CP	BPTTL -20070917ACE
48	WXOW	LA CROSSE WI	280.2	LIC	BLCDT -20090622ACY
48	WXOW-DR	LA CROSSE WI	280.2	APP	BPRM -20080620AOE
48	KOHA		204.0	APP	USERRECORD-01

Proposal causes no interference

##

Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
48	NEW	KEOKUK IA	BNPDTL -20101013AAZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
47	KZSL-LP	QUINCY IL	50.4	APP	BDISDTL -20110831AAG
48	WCIA	CHAMPAIGN IL	259.9	LIC	BLCDT -20070612ABY
48	WXOW	LA CROSSE WI	377.5	LIC	BLCDT -20090622ACY
48	WXOW-DR	LA CROSSE WI	377.5	APP	BPRM -20080620AOE
48	KOHA		394.2	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
48	K48KJ-D	GENEVA MN	BLDTL	-20100329ADU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
47	K47MI-D	FROST MN	48.0	CP	BNPDTL	-20090825BEI
47	NEW	OAKLAND MN	33.3	APP	BNPDTL	-20100510AJZ
48	KHVM-LD	MINNEAPOLIS MN	139.6	LIC	BLDTL	-20110804ABI
48	K48AA	ST. JAMES MN	98.5	LIC	BLTTL	-20100430ADJ
48	WXOW	LA CROSSE WI	165.6	LIC	BLCDT	-20090622ACY
48	WXOW-DR	LA CROSSE WI	165.6	APP	BPRM	-20080620AOE
49	K49JG-D	FROST MN	48.0	LIC	BLDTT	-20090730ACJ
48	KOHA		351.1	APP	USERRECORD	-01

Proposal causes no interference

##

Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
48	K48KJ-D	GENEVA MN	BPDTL	-20110110ABR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
47	K47MI-D	FROST MN	67.3	CP	BNPDTL	-20090825BEI
47	NEW	OAKLAND MN	49.1	APP	BNPDTL	-20100510AJZ
48	KHVM-LD	MINNEAPOLIS MN	114.8	LIC	BLDTL	-20110804ABI
48	K48GQ	REDWOOD FALLS MN	137.8	LIC	BLTTL	-20011219AAI
48	K48AA	ST. JAMES MN	97.2	LIC	BLTTL	-20100430ADJ
48	WXOW	LA CROSSE WI	163.6	LIC	BLCDT	-20090622ACY
48	WXOW-DR	LA CROSSE WI	163.6	APP	BPRM	-20080620AOE
49	K49JG-D	FROST MN	67.3	LIC	BLDTT	-20090730ACJ
49	NEW	ROCHESTER MN	83.4	APP	BNPDTL	-20100216ADY
48	KOHA		373.0	APP	USERRECORD	-01

Proposal causes no interference

##

Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
48	K48LF-D	GRANITE FALLS MN	BDCCDTL	-20070517AAC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
47	K47JE	OLIVIA MN	56.0	CP	BDFCDTL	-20090812AAV
48	K48DV	ALEXANDRIA MN	125.8	LIC	BLTTL	-19930427JE
48	KHVM-LD	MINNEAPOLIS MN	191.5	LIC	BLDTL	-20110804ABI
48	K48GQ	REDWOOD FALLS MN	56.2	LIC	BLTTL	-20011219AAI
48	K48AA	ST. JAMES MN	109.8	LIC	BLTTL	-20100430ADJ

48	K48AH-D	WILLMAR MN	58.3	LIC	BLDTT	-20100122ABX
48	NEW	WENTWORTH SD	142.1	APP	BNPDTL	-20100505AEN
48	WXOW	LA CROSSE WI	353.0	LIC	BLCDT	-20090622ACY
48	WXOW-DR	LA CROSSE WI	353.0	APP	BPRM	-20080620AOE
49	K49LV-D	GRANITE FALLS MN	0.0	LIC	BLDTL	-20110824ACM
49	K49KM-D	GRANITE FALLS MN	0.0	CP	BDCCDTL	-20070517AAB
49	K49LV-D	GRANITE FALLS MN	0.0	APP	BSTA	-20110105AAY
48	KOHA		390.2	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
48	K48GQ	REDWOOD FALLS MN	BLTTL -20011219AAI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
40	KPXM-TV	ST. CLOUD MN	135.6	LIC	BLCDT -20030903AAU
47	K47JE	OLIVIA MN	24.4	CP	BDFCDTL -20090812AAV
48	K48LF-D	GRANITE FALLS MN	56.2	CP	BDCCDTL -20070517AAC
48	K48AA	ST. JAMES MN	57.2	LIC	BLTTL -20100430ADJ
48	K48AH-D	WILLMAR MN	68.8	LIC	BLDTT -20100122ABX
48	WXOW	LA CROSSE WI	298.6	LIC	BLCDT -20090622ACY
48	WXOW-DR	LA CROSSE WI	298.6	APP	BPRM -20080620AOE
48	KOHA		370.4	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
48	K48AA	ST. JAMES MN	BLTTL -20100430ADJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	K48KJ-D	GENEVA MN	97.2	CP	BPDTL -20110110ABR
48	K48GQ	REDWOOD FALLS MN	57.2	LIC	BLTTL -20011219AAI
48	WXOW	LA CROSSE WI	260.7	LIC	BLCDT -20090622ACY
48	WXOW-DR	LA CROSSE WI	260.7	APP	BPRM -20080620AOE
49	K49HE	ST. JAMES MN	0.0	CP MOD	BMPDTL -20100729ADV
49	K49HE	ST. JAMES MN	0.3	LIC	BLTTL -20100503AAX
48	KOHA		332.2	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
48	KUKC-LP	KANSAS CITY MO	BLTTL	-19970327JB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
41	KMCI-TV	LAWRENCE KS	11.4	LIC	BLCDT	-20110421AAR
47	KSMO-TV	KANSAS CITY MO	2.2	LIC	BLCDT	-20060630ADR
49	KTKA-TV	TOPEKA KS	123.7	LIC	BLCDT	-20090612AIV
51	KPXE-TV	KANSAS CITY MO	6.2	LIC	BMLCDT	-20041112AAI
48	KOHA		280.8	APP	USERRECORD	-01

Proposal causes no interference

##

Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
48	NEW	COLUMBUS NE	BNPDTL	-20100311ACO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	K48CH	NORFOLK NE	81.0	LIC	BLTT	-19880229IH
48	KOAZ-LP	O'NEILL NE	164.7	LIC	BLTTL	-20041015ACJ
48	KOHA-LP	OMAHA NE	110.5	CP	BPTTL	-20070917ACE
48	KOHA		110.5	APP	USERRECORD	-01

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 11
Before Analysis

Results for: 48A NE COLUMBUS BNPDTL 20100311ACO APP
HAAT 134.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	53636	5285.0
not affected by terrain losses	53636	5285.0
lost to NTSC IX	34	8.9
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	34	8.9

Potential Interfering Stations Included in above Scenario 1

48N NE OMAHA BPTTL 20070917ACE CP

After Analysis

Results for: 48A NE COLUMBUS BNPDTL 20100311ACO APP
HAAT 134.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	53636	5285.0
not affected by terrain losses	53636	5285.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	34	11.8
lost to ATV IX only	34	11.8
lost to all IX	34	11.8

Potential Interfering Stations Included in above Scenario 1

48A USERRECORD01 APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

##

Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
48	K48CH	NORFOLK NE	BLTT	-19880229IH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
41	KTIV	SIOUX CITY IA	112.2	LIC	BLCDT	-20060922AEE
45	KMTV-TV	OMAHA NE	137.4	LIC	BLCDT	-20090610AAX
48	NEW	COLUMBUS NE	81.0	APP	BNPDTL	-20100311ACO
48	KOHA-LP	OMAHA NE	137.3	CP	BPTTL	-20070917ACE
49	KPTH-DR	SIOUX CITY IA	112.2	APP	BPRM	-20080620AOR
49	KPTH	SIOUX CITY IA	112.2	LIC	BLCDT	-20061214ABC
51	KFXL-TV	LINCOLN NE	143.3	LIC	BLCDT	-20100216ACQ
48	KOHA		137.3	APP	USERRECORD-01	

Proposal causes no interference

##

Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
48	KOAZ-LP	O'NEILL NE	BLTTL	-20041015ACJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	KOHA		248.9	APP	USERRECORD-01	

Proposal causes no interference

##

Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
48	NEW	HUMBOLDT SD	BNPDTL	-20100510AIM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
47	KDLT-TV	SIOUX FALLS SD	50.6	LIC	BLCDT	-20050829AAT
48	KOAZ-LP	O'NEILL NE	179.8	LIC	BLTTL	-20041015ACJ
48	NEW	WENTWORTH SD	37.4	APP	BNPDTL	-20100505AEN
48	KOHA		277.0	APP	USERRECORD-01	

Proposal causes no interference

##

Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
48	NEW	WENTWORTH SD	BNPDTL	-20100505AEN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
47	KDLT-TV	SIOUX FALLS SD	57.0	LIC	BLCDT	-20050829AAT
48	K48LF-D	GRANITE FALLS MN	142.1	CP	BDCCDTL	-20070517AAC
48	NEW	HUMBOLDT SD	37.4	APP	BNPDTL	-20100510AIM
48	KOHA		302.3	APP	USERRECORD	-01

Proposal causes no interference

##

Analysis of Interference to Affected Station 16

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	KPTH-DR	SIOUX CITY IA	BPRM	-20080620AOR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	KPTH	SIOUX CITY IA	0.0	LIC	BLCDT	-20061214ABC
49	KTKA-TV	TOPEKA KS	396.6	LIC	BLCDT	-20090612AIV
48	KOHA		142.9	APP	USERRECORD	-01

Proposal causes no interference

##

Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	KPTH	SIOUX CITY IA	BLCDT	-20061214ABC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	KPTH-DR	SIOUX CITY IA	0.0	APP	BPRM	-20080620AOR
49	KTKA-TV	TOPEKA KS	396.6	LIC	BLCDT	-20090612AIV
48	KOHA		142.9	APP	USERRECORD	-01

Proposal causes no interference

##

Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
51	DK51GK	SIOUX CITY IA	BLTTL	-20040422ABO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
47	KDLT-TV	SIOUX FALLS SD	114.2	LIC	BLCDT	-20050829AAT
49	KPTH-DR	SIOUX CITY IA	12.4	APP	BPRM	-20080620AOR

49	KPTH	SIOUX CITY IA	12.4	LIC	BLCDT	-20061214ABC
50	K50KJ-D	SIOUX CITY IA	0.1	CP	BDCCDTL	-20061030ACG
51	KGAN	CEDAR RAPIDS IA	365.5	LIC	BLCDT	-20100308ABL
51	KFXL-TV	LINCOLN NE	185.0	LIC	BLCDT	-20100216ACQ
51	NEW	NORFOLK NE	100.6	APP	BNPDTL	-20100409ABQ
48	KOHA		133.8	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 19

Analysis of current record

Channel	Call	City/State	Application Ref. No.
56	K56AF	CLARINDA IA	BLTT -1112

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	KOHA		102.7	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 20

Analysis of current record

Channel	Call	City/State	Application Ref. No.
48	KOHA		USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
47	KOHA-LD	OMAHA NE	0.0	CP MOD	BMPDTL -20070917ACC
48	K48FZ	AMES IA	204.0	LIC	BLTTL -20011217ADE
48	NEW	COLUMBUS NE	110.5	APP	BNPDTL -20100311ACO
48	K48CH	NORFOLK NE	137.3	LIC	BLTT -19880229IH

Total scenarios = 3

Result key: 2
Scenario 1 Affected station 20
Before Analysis

Results for: 48A USERRECORD01 APP
HAAT 147.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	714487	5191.2
not affected by terrain losses	714400	5187.3
lost to NTSC IX	1	1.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	1	1.0

Potential Interfering Stations Included in above Scenario 1

48N IA AMES BLTTL 20011217ADE LIC

Result key: 3
Scenario 2 Affected station 20
Before Analysis

Results for: 48A USERRECORD01 APP
HAAT 147.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	714487	5191.2
not affected by terrain losses	714400	5187.3
lost to NTSC IX	1	1.0
lost to additional IX by ATV	26	3.9
lost to ATV IX only	26	3.9
lost to all IX	27	4.9

Potential Interfering Stations Included in above Scenario 2

48N IA AMES	BLTTL	20011217ADE	LIC
48A NE COLUMBUS	BNPDTL	20100311ACO	APP

Result key: 4
Scenario 3 Affected station 20
Before Analysis

Results for: 48A USERRECORD01 APP
HAAT 147.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	714487	5191.2
not affected by terrain losses	714400	5187.3
lost to NTSC IX	1	1.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	1	1.0

Potential Interfering Stations Included in above Scenario 3

48N IA AMES	BLTTL	20011217ADE	LIC

##

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED