

KUPN-DT Post-Transition Interference Analysis

Percent allowed new interference: 0.500
Percent allowed new interference to Class A: 0.500
Census data selected 2000

Post Transition Data Base Selected
/export/home/cdbs/tvdb.sff_B
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Record Selected for Analysis

KUPNDT USERRECORD-01 STERLING CO US
Channel 23 ERP 1000. kW HAAT 402. m RCAMSL 01833 m
Latitude 040-02-01 Longitude 0103-56-17
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 does not meet maximum height/power limits
Channel 23 ERP = 1000.00 HAAT = 402.

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	1000.000	433.7	109.2
45.0	1000.000	447.7	110.4
90.0	1000.000	431.3	109.0
135.0	1000.000	391.3	105.3
180.0	1000.000	339.3	100.8
225.0	1000.000	375.1	103.9
270.0	1000.000	389.7	105.2
315.0	1000.000	409.0	107.0

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

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

KUPN-DT Post-Transition Interference Analysis

 Start of Interference Analysis

Proposed Station			
Channel	Call	City/State	ARN
23	KUPNDT	STERLING CO	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
22	KXRM-TV	COLORADO SPRINGS CO	163.7	LIC	BDTV	-0235
23	KREG-TV	GLENWOOD SPRINGS CO	301.1	LIC	BDTV	-0251
24	KRDO-TV	COLORADO SPRINGS CO	163.6	LIC	BDTV	-0236

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
22	KXRM-TV	COLORADO SPRINGS CO	BDTV	-0235

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
21	KFCT	FORT COLLINS CO	210.9	LIC	BDTV	-0250
22	KTFQ-TV	ALBUQUERQUE NM	405.7	LIC	BDTV	-1073
23	KREG-TV	GLENWOOD SPRINGS CO	228.9	LIC	BDTV	-0251
23	KUPNDT	STERLING CO	163.7	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 1
 Before Analysis

Results for: 22A CO COLORADO SPRINGS BDTV 0235 LIC

HAAT 641.0 m, ATV ERP 51.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1525756	24905.3
not affected by terrain losses	1119049	22354.7
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

After Analysis

Results for: 22A CO COLORADO SPRINGS BDTV 0235 LIC

HAAT 641.0 m, ATV ERP 51.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1525756	24905.3
not affected by terrain losses	1119049	22354.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3113	786.1
lost to ATV IX only	3113	786.1

KUPN-DT Post-Transition Interference Analysis

lost to all IX 3113 786.1

Potential Interfering Stations Included in above Scenario 1

23A CO STERLING USERRECORD01 APP

Percent new IX = 0.2782%

Worst case new IX 0.2782% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	KREG-TV	GLENWOOD SPRINGS CO	BDTV	-0251

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
22	KXRM-TV	COLORADO SPRINGS CO	228.9	LIC	BDTV	-0235
24	KRDO-TV	COLORADO SPRINGS CO	228.9	LIC	BDTV	-0236
23	KUPNDT	STERLING CO	301.1	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
24	KRDO-TV	COLORADO SPRINGS CO	BDTV	-0236

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
23	KREG-TV	GLENWOOD SPRINGS CO	228.9	LIC	BDTV	-0251
24	KNAT-TV	ALBUQUERQUE NM	417.1	LIC	BDTV	-1074
23	KUPNDT	STERLING CO	163.6	APP	USERRECORD-01	

Total scenarios = 1

Result key: 2
 Scenario 1 Affected station 3
 Before Analysis

Results for: 24A CO COLORADO SPRINGS BDTV 0236 LIC
 HAAT 652.0 m, ATV ERP 459.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2497502	32662.6
not affected by terrain losses	2149552	30518.2
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

KUPN-DT Post-Transition Interference Analysis

After Analysis

Results for: 24A CO COLORADO SPRINGS BDTV 0236 LIC
 HAAT 652.0 m, ATV ERP 459.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2497502	32662.6
not affected by terrain losses	2149552	30518.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9187	2052.2
lost to ATV IX only	9187	2052.2
lost to all IX	9187	2052.2

Potential Interfering Stations Included in above Scenario 1

23A CO STERLING USERRECORD01 APP

Percent new IX = 0.4274%

Worst case new IX 0.4274% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
23	KUPNDT	STERLING CO	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
22	KXRM-TV	COLORADO SPRINGS CO	163.7	LIC	BDTV -0235
23	KREG-TV	GLENWOOD SPRINGS CO	301.1	LIC	BDTV -0251
24	KRDO-TV	COLORADO SPRINGS CO	163.6	LIC	BDTV -0236

Total scenarios = 1

Result key: 3
 Scenario 1 Affected station 4
 Before Analysis

Results for: 23A CO STERLING USERRECORD01 APP
 HAAT 402.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2366025	37759.7
not affected by terrain losses	2323906	37324.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	21	12.1
lost to ATV IX only	21	12.1
lost to all IX	21	12.1

Potential Interfering Stations Included in above Scenario 1

24A CO COLORADO SPRINGS BDTV 0236 LIC

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