INTERFERENCE ANALYSIS FOR PROPOSED K48HL-D, DATIL/HORSE SPRINGS, NM, CHANNEL 21

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tvstudy v2.2.5 (4uoc83)
Database: localhost,  Study: K48HL21-360WBB-F,  Model: Longley-Rice
Start: 2018.04.18 14:45:19

Study build station data: LMS TV 2018-04-17

    Proposal: K48HL-D D21 LD APP DATIL/HORSE SPRINGS, NM
 File number: K48HL21-360WBB-F
 Facility ID: 35311
Station data: User record
   Record ID: 2814
     Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX   Call      Chan       Svc Status  City, State               File Number             Distance
No   K20GG-D   D20        LD  LIC     DUNCAN, AZ                BLDTT20090715AIQ        167.3 km
No   KNMQ-LD   D20        LD  APP     ALBUQUERQUE, NM           BLANK0000029883         205.6
No   K20HA     N20z       TX  LIC     CABALLO, NM               BLTT20050202ADM         106.8
No   K20LO-D   D20        LD  CP      DEMING, NM                BNPDTL20100504AMZ       163.2
No   KTFN      D20        DT  APP     EL PASO, TX               BLANK0000034466         253.7
No   KTFN      D20        DT  CP      EL PASO, TX               BLANK0000028381         253.7
No   K21GE     N21-       TX  LIC     CAMP VERDE, AZ            BLTT20040830AAI         377.5
No   K21GE     D21        LD  CP      CAMP VERDE, AZ            BDFCDTL20120524AAC      377.5
No   NEW       D21        LD  APP     GILA RIVER INDIAN CO, AZ  BNPDTL20100713APP       372.0
No   KGRY-LD   D21        LD  LIC     GILA RIVER INDIAN CO, AZ  BLDTL20150107ADW        354.7
No   K21GC     N21-       TX  LIC     SAFFORD, AZ               BLTT20060215AAV         223.3
No   KWBA-TV   D21        DT  CP      SIERRA VISTA, AZ          BLANK0000026780         354.7
No   K21CX-D   D21        LD  LIC     TUCSON, AZ                BLDTL20110727AGJ        306.0
Yes  K21LR-D   D21        LD  CP      ALAMOGORDO, NM            BDCCDTL20110301ABA      210.9
Yes  KYNM-CD   D21        DC  LIC     ALBUQUERQUE, NM           BLANK0000001606         205.6
No   K46KV-D   D21        LD  APP     FARMINGTON, NM            BLANK0000052018         326.5
No   K21IM-D   D21        LD  LIC     FORT SUMNER, NM           BLDTT20090303AAY        331.4
No   KRWB-TV   D21        DT  LIC     ROSWELL, NM               BLCDT20090619ABH        342.4
No   K21FD-D   D21        LD  LIC     TAOS, ETC., NM            BLDTT20091113ABQ        359.6
Yes  KSCE      D21        DT  CP      EL PASO, TX               BLANK0000026858         253.7
Yes  KSCE      D21        DT  APP     EL PASO, TX               BLANK0000034547         253.7
No   KLUZ-TV   D22        DT  LIC     ALBUQUERQUE, NM           BLCDT20090618ACG        209.5
No   K51DS-D   D22        LD  APP     DEMING, NM                BLANK0000042961         176.4
No   K27BN     D22        LD  CP      TRUTH OR CONSEQUENCE, NM  BDISDTT20081128AAG        87.6
No   K22FN-D   D22        LD  LIC     WHITE OAKS, ETC., NM      BLDTT20111021AAI        148.7
No   K25DI-D   N25        TX  LIC     SILVER CITY, NM           BLTT19910325JS          109.2
No   CADENATRESD21        DT  LIC     SAN BUENAVENTURA, CH      BLANKBPFS20160525AAW    438.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D21
       Mask: Stringent
   Latitude:  33 46 26.00 N (NAD83)
  Longitude: 107 51 27.80 W
Height AMSL: 2756.0 m
       HAAT: 0.0 m
   Peak ERP: 0.360 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic

49.5 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg  0.360 kW   431.1 m   41.7 km
 45.0      0.360      519.8     44.6
 90.0      0.360      490.2     43.6
135.0      0.360      392.2     40.6
180.0      0.360      375.4     40.0
225.0      0.360      411.9     41.2
270.0      0.360      457.7     42.4
315.0      0.360      422.5     41.4

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 438 m

Distance to Canadian border: 1692.4 km

**Proposal is within coordination distance of Mexican border
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Distance to Mexican border: 221.2 km

Conditions at FCC monitoring station: Douglas AZ
Bearing: 214.1 degrees Distance: 303.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 17.4 degrees Distance: 742.0 km

No land mobile station failures found

Study cell size: 1.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BDCCDTL20110301ABA CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K21LR-D	D21	LD	CP	ALAMOGORDO, NM	BDCCDTL20110301ABA	
Undesireds:	K48HL-D	D21	LD	APP	DATIL/HORSE SPRINGS, NM	K48HL21-360WBB-F	210.9 km
	KTFN	D20	DT	APP	EL PASO, TX	BLANK0000034466	126.9
	KRWB-TV	D21	DT	LIC	ROSWELL, NM	BLCDT20090619ABH	155.2
	KSCE	D21	DT	CP	EL PASO, TX	BLANK0000026858	126.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
10192.0	52,043	9047.1	51,188	7628.7	50,817	7625.7	50,817	0.04	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K48HL-D D21 LD APP	3.0	0			3.0	0
KRWB-TV D21 DT LIC	6.0	0	3.0	0	3.0	0
KSCE D21 DT CP	1415.4	371	1412.4	371	1412.4	371

Interference to BDCCDTL20110301ABA CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K21LR-D	D21	LD	CP	ALAMOGORDO, NM	BDCCDTL20110301ABA	
Undesireds:	K48HL-D	D21	LD	APP	DATIL/HORSE SPRINGS, NM	K48HL21-360WBB-F	210.9 km
	KTFN	D20	DT	APP	EL PASO, TX	BLANK0000034466	126.9
	KRWB-TV	D21	DT	LIC	ROSWELL, NM	BLCDT20090619ABH	155.2
	KSCE	D21	DT	APP	EL PASO, TX	BLANK0000034547	126.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
10192.0	52,043	9047.1	51,188	7423.7	50,389	7420.7	50,389	0.04	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K48HL-D D21 LD APP	3.0	0			3.0	0
KRWB-TV D21 DT LIC	6.0	0	3.0	0	3.0	0
KSCE D21 DT APP	1620.4	799	1617.4	799	1617.4	799

Interference to BLANK0000001606 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KYNM-CD	D21	DC	LIC	ALBUQUERQUE, NM	BLANK0000001606	
Undesireds:	K48HL-D	D21	LD	APP	DATIL/HORSE SPRINGS, NM	K48HL21-360WBB-F	205.6 km
	KRWB-TV	D21	DT	LIC	ROSWELL, NM	BLCDT20090619ABH	309.9
	KLUZ-TV	D22	DT	LIC	ALBUQUERQUE, NM	BLCDT20090618ACG	33.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
16225.9	1,019,064	15060.9	1,011,737	14959.4	1,011,508	14958.4	1,011,508	0.01	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K48HL-D D21 LD APP	1.0	0			1.0	0
KRWB-TV D21 DT LIC	2.0	0	2.0	0	2.0	0
KLUZ-TV D22 DT LIC	99.5	229	99.5	229	99.5	229

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Interference to BLANK0000026858 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSCE	D21	DT	CP	EL PASO, TX	BLANK0000026858	
Undesireds:	K48HL-D	D21	LD	APP	DATIL/HORSE SPRINGS, NM	K48HL21-360WBB-F	253.7 km
	KTFN	D20	DT	APP	EL PASO, TX	BLANK0000034466	0.0
	KRWB-TV	D21	DT	LIC	ROSWELL, NM	BLCDT20090619ABH	253.8
	CADENATRES	D21	DT	LIC	OJINAGA, CH	BLANKBPFS20131206AJQ	318.3
	CADENATRES	D21	DT	LIC	SAN BUENAVENTURA, CH	BLANKBPFS20160525AAW	237.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
17526.3	1,015,008	16010.1	1,010,022	15500.9	1,010,018	15492.9	1,010,018	0.05	0.00	
7924.4	1,343,149	7569.4	1,340,274	7535.8	1,340,268	7535.8	1,340,268	0.00	0.00	(in Mexico)

Undesired	Total IX	Unique IX, before		Unique IX, after		
K48HL-D D21 LD APP	11.1	0		8.0	0	
KRWB-TV D21 DT LIC	487.0	4	485.0	4	485.0	4
KRWB-TV D21 DT LIC	17.3	6	16.3	6	16.3	6 (in Mexico)
CADENATRES D21 DT LIC	1.0	0	1.0	0	1.0	0
CADENATRES D21 DT LIC	23.2	0	21.2	0	18.1	0
CADENATRES D21 DT LIC	17.3	0	16.3	0	16.3	0 (in Mexico)

Interference to BLANK0000034547 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSCE	D21	DT	APP	EL PASO, TX	BLANK0000034547	
Undesireds:	K48HL-D	D21	LD	APP	DATIL/HORSE SPRINGS, NM	K48HL21-360WBB-F	253.7 km
	KTFN	D20	DT	APP	EL PASO, TX	BLANK0000034466	0.0
	KRWB-TV	D21	DT	LIC	ROSWELL, NM	BLCDT20090619ABH	253.8
	CADENATRES	D21	DT	LIC	SAN BUENAVENTURA, CH	BLANKBPFS20160525AAW	237.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
19659.6	1,015,151	17976.3	1,010,648	17380.7	1,010,642	17368.7	1,010,642	0.07	0.00	
9046.0	1,343,155	8729.2	1,341,934	8696.7	1,341,933	8696.7	1,341,933	0.00	0.00	(in Mexico)

Undesired	Total IX	Unique IX, before		Unique IX, after		
K48HL-D D21 LD APP	13.1	0		12.1	0	
KRWB-TV D21 DT LIC	582.4	6	582.4	6	582.4	6
KRWB-TV D21 DT LIC	22.4	1	19.3	1	19.3	1 (in Mexico)
CADENATRES D21 DT LIC	13.1	0	13.1	0	12.1	0
CADENATRES D21 DT LIC	13.2	0	10.2	0	10.2	0 (in Mexico)

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K48HL-D	D21	LD	APP	DATIL/HORSE SPRINGS, NM	K48HL21-360WBB-F	
Undesireds:	K21LR-D	D21	LD	CP	ALAMOGORDO, NM	BDCCDTL20110301ABA	210.9 km
	KYNM-CD	D21	DC	LIC	ALBUQUERQUE, NM	BLANK0000001606	205.6
	KSCE	D21	DT	CP	EL PASO, TX	BLANK0000026858	253.7

Service area		Terrain-limited		IX-free		Percent IX	
5486.0	473	4011.8	305	3975.2	305	0.91	0.00

Undesired	Total IX	Unique IX	Prcnt Unique IX	
K21LR-D D21 LD CP	8.9	0	5.9	0 0.15 0.00
KYNM-CD D21 DC LIC	26.7	0	24.7	0 0.62 0.00
KSCE D21 DT CP	4.0	0	3.0	0 0.07 0.00

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K48HL-D	D21	LD	APP	DATIL/HORSE SPRINGS, NM	K48HL21-360WBB-F	
Undesireds:	K21LR-D	D21	LD	CP	ALAMOGORDO, NM	BDCCDTL20110301ABA	210.9 km
	KYNM-CD	D21	DC	LIC	ALBUQUERQUE, NM	BLANK0000001606	205.6
	KSCE	D21	DT	APP	EL PASO, TX	BLANK0000034547	253.7

Service area		Terrain-limited		IX-free		Percent IX	
5486.0	473	4011.8	305	3970.3	305	1.03	0.00

Undesired	Total IX	Unique IX	Prcnt Unique IX	
K21LR-D D21 LD CP	8.9	0	5.9	0 0.15 0.00
KYNM-CD D21 DC LIC	26.7	0	24.7	0 0.62 0.00
KSCE D21 DT APP	8.9	0	7.9	0 0.20 0.00
