tvstudy v2.2.3 (Dxtpx3)
Database: localhost, Study: KPPX31P1, Model: Longley-Rice
Start: 2017.08.04 08:10:10

Study created: 2017.08.04 08:09:54

Study build station data: LMS TV 2017-08-03 (32)

    Proposal: KPPX31P1 D31 DT APP TOLLESON, AZ
 File number: KPPX31P1
 Facility ID: 26655
Station data: User record
   Record ID: 793
     Country: U.S.
        Zone: II

Search options:
Non-U.S. records included
Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KUAT-TV	D30	DT	LIC	TUCSON, AZ	BLEDT20040727ABR	161.9 km
KOLD-TV	D32	DT	LIC	TUCSON, AZ	BLCDT20030911AAI	162.0
XHNSS	D31	DT	LIC	NOGALES, SO	BLANKBPFS20140603AAN	248.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D31
   Latitude: 33 20 3.20 N (NAD83)
  Longitude: 112 3 40.50 W
Height AMSL: 914.0 m
       HAAT: 556.0 m
   Peak ERP: 645 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic
  Elec Tilt: 1.0

40.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	645 kW	574.9 m	116.3 km
45.0	645	537.2	114.1
90.0	645	531.9	113.8
135.0	645	556.0	115.3
180.0	645	570.4	116.1
225.0	645	573.8	116.3
270.0	645	517.7	112.9
315.0	645	587.4	117.0

ERP exceeds maximum
ERP: 645 kW   ERP maximum: 390 kW

Distance to Canadian border: 1741.1 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 176.1 km

Conditions at FCC monitoring station: Douglas AZ
Bearing: 131.4 degrees   Distance: 304.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 36.8 degrees   Distance: 967.0 km

Study cell size: 2.00 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 BLEDT20040727ABR LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KUAT-TV	D30	DT	LIC	TUCSON, AZ	BLEDT20040727ABR	
Undesireds:	KPPX31P1	D31	DT	APP	TOLLESON, AZ	KPPX31P1	161.9 km
	KTAZ	D29	DT	CP	PHOENIX, AZ	BLANK0000026902	161.9
	XHNSS	D31	DT	LIC	NOGALES, SO	BLANKBPFS20140603AAN	127.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
58113.2	1,485,024	44408.4	1,253,342	44065.5	1,243,130	43945.3	1,241,352	0.27	0.14
3414.6	222,601	1738.1	25,326	1634.8	24,724	1634.8	24,724	0.00	0.00 (in Mexico)

Undesired	Total IX	Unique IX, before	Unique IX, after
KPPX31P1 D31 DT APP	332.3	7,992	120.2	1,778

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KTAZ D29 DT CP           212.0       6,214     212.0       6,214       0.0           0
XHNSS D31 DT LIC         130.8       3,998     130.8       3,998     130.8       3,998
XHNSS D31 DT LIC         103.3         602     103.3         602     103.3         602  (in Mexico)

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Interference to BLEDT20040727ABR LIC, scenario 2

             Call      Chan  Svc Status  City, State               File Number             Distance
Desired:     KUAT-TV   D30   DT  LIC     TUCSON, AZ                BLEDT20040727ABR

Undesireds:  KPPX31P1  D31   DT  APP     TOLLESON, AZ              KPPX31P1                161.9 km
             KTAZ      D29   DT  BL      PHOENIX, AZ               DTVBL81458              161.9
             XHNSS     D31   DT  LIC     NOGALES, SO               BLANKBPFS20140603AAN    127.9

        Service area       Terrain-limited       IX-free, before       IX-free, after    Percent New IX
 58113.2   1,485,024   44408.4   1,253,342   44065.5   1,243,130   43945.3   1,241,352     0.27     0.14
  3414.6     222,601    1738.1      25,326    1634.8      24,724    1634.8      24,724     0.00     0.00  (in
Mexico)

Undesired                          Total IX     Unique IX, before      Unique IX, after
KPPX31P1 D31 DT APP      332.3       7,992                            120.2       1,778
KTAZ D29 DT BL           212.0       6,214     212.0       6,214       0.0           0
XHNSS D31 DT LIC         130.8       3,998     130.8       3,998     130.8       3,998
XHNSS D31 DT LIC         103.3         602     103.3         602     103.3         602  (in Mexico)

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Interference to BLCDT20030911AAI LIC, scenario 1

             Call      Chan  Svc Status  City, State               File Number             Distance
Desired:     KOLD-TV   D32   DT  LIC     TUCSON, AZ                BLCDT20030911AAI

Undesireds:  KPPX31P1  D31   DT  APP     TOLLESON, AZ              KPPX31P1                162.0 km
             KTVW-DT   D33   DT  LIC     PHOENIX, AZ               BLCDT20100818ABA        162.1
             XHNSS     D31   DT  LIC     NOGALES, SO               BLANKBPFS20140603AAN    127.9

        Service area       Terrain-limited       IX-free, before       IX-free, after    Percent New IX
 37049.1   1,216,228   25424.7     887,754   25253.4     885,080   25185.0     885,079     0.27     0.00
     2.3           8       2.3           8       2.3           8       2.3           8     0.00     0.00  (in
Mexico)

Undesired                          Total IX     Unique IX, before      Unique IX, after
KPPX31P1 D31 DT APP      152.5          15                            68.3           1
KTVW-DT D33 DT LIC        84.2          14      84.2          14       0.0           0
XHNSS D31 DT LIC          87.2       2,660      87.2       2,660     87.2       2,660

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Interference to BLANKBPFS20140603AAN LIC, scenario 1

             Call      Chan  Svc Status  City, State               File Number             Distance
Desired:     XHNSS     D31   DT  LIC     NOGALES, SO               BLANKBPFS20140603AAN

Undesireds:  KPPX31P1  D31   DT  APP     TOLLESON, AZ              KPPX31P1                248.5 km
             XHHMA     D31   DT  LIC     HERMOSILLO, SO            BLANKBPFS20160315AAY    246.4
             CADENATRESD32   DT  LIC     CABORCA, SO               BLANKBPFS20160525ACD    127.1

        Service area       Terrain-limited       IX-free, before       IX-free, after    Percent New IX
  7165.4     164,306    4250.3      96,277    4250.3      96,277    3956.5      94,439     6.91     1.91  (in U.S.)
  7656.4     266,787    3949.1     234,369    3937.2     234,369    3849.6     234,363     2.22     0.00

Undesired                          Total IX     Unique IX, before      Unique IX, after
KPPX31P1 D31 DT APP      293.7       1,838                           293.7       1,838  (in U.S.)
KPPX31P1 D31 DT APP       91.6           6                            87.6           6
XHHMA D31 DT LIC           4.0           0       4.0           0       0.0           0
CADENATRES D32 DT LIC      8.0           0       8.0           0       8.0           0

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Interference to proposal, scenario 1

             Call      Chan  Svc Status  City, State               File Number             Distance
Desired:     KPPX31P1  D31   DT  APP     TOLLESON, AZ              KPPX31P1

Undesireds:  KUAT-TV   D30   DT  LIC     TUCSON, AZ                BLEDT20040727ABR        161.9 km
             KOLD-TV   D32   DT  LIC     TUCSON, AZ                BLCDT20030911AAI        162.0
             XHNSS     D31   DT  LIC     NOGALES, SO               BLANKBPFS20140603AAN    248.5

        Service area       Terrain-limited             IX-free        Percent IX
 41710.8   4,186,998   33201.2   4,171,450   33024.9   4,171,396     0.53     0.00

Undesired                          Total IX            Unique IX   Prcnt Unique IX
KUAT-TV D30 DT LIC        92.1           4      84.1           0     0.25     0.00
KOLD-TV D32 DT LIC         4.0           0       0.0           0     0.00     0.00
XHNSS D31 DT LIC          88.2          54      84.2          50     0.25     0.00
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