tvstudy v2.2.5 (4uoc83)
Database: 127.0.0.1, Study: Forest City - 3 kW -CSD, Model: Longley-Rice
Start: 2020.08.25 16:38:05

Study created: 2020.08.25 16:38:05

Study build station data: LMS TV 2020-08-25

    Proposal: NEW-FC D10 LD APP Forest City, AR
 File number: Proposed
 Facility ID: 0
Station data: User record
   Record ID: 75
     Country: U.S.
        Zone: II

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

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WMAE-TV	D9	DT	LIC	BOONEVILLE, MS	BLANK0000117125	190.2 km
No	WHCQ-LD	D9	LD	LIC	CLEVELAND, MS	BLANK0000022376	147.1
No	WBIQ	D10	DT	LIC	BIRMINGHAM, AL	BLEDT20140612ABA	404.6
Yes	KETZ	D10	DT	LIC	EL DORADO, AR	BLEDT20090615ABU	256.1
No	K10KM-D	D10	LD	LIC	CAPE GIRARDEAU, MO	BLDTV20091014ABS	280.9
Yes	KOLR	D10	DT	LIC	SPRINGFIELD, MO	BLCDT20090810ACN	309.7
Yes	WMAB-TV	D10	DT	LIC	MISSISSIPPI STATE, MS	BLEDT20090612AAH	241.0
No	KTUL	D10	DT	CP	TULSA, OK	BLANK0000035654	448.9
No	KTUL	D10	DT	LIC	TULSA, OK	BLCDT20100505AGI	448.9
No	WSMV-TV	D10	DT	LIC	NASHVILLE, TN	BLCDT20021029AAV	374.4
No	WTVA	D11	DT	LIC	TUPELO, MS	BLANK0000117299	208.9
No	WEBU-LP	N11+	TX	LIC	WEBB, MS	BLTVL19880822IF	129.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D10
       Mask: Stringent
   Latitude:  35  2 57.00 N (NAD83)
  Longitude:  90 47  4.00 W
Height AMSL: 213.0 m
       HAAT: 139.8 m
   Peak ERP: 3.00 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic
  Elec Tilt: 0.50
```

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.00 kW	121.8 m	48.9 km
45.0	3.00	122.3	48.9
90.0	3.00	144.7	51.7
135.0	3.00	146.1	51.9
180.0	3.00	137.9	50.8
225.0	3.00	148.8	52.2
270.0	3.00	149.6	52.3
315.0	3.00	145.1	51.7

Distance to Canadian border: 1011.4 km

Distance to Mexican border: 1140.9 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 101.6 degrees   Distance: 570.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 298.2 degrees   Distance: 1389.0 km

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 BLEDT20090615ABU LIC scenario 1

```
             Call      Chan  Svc Status  City, State
File Number             Distance
Desired:     KETZ      D10   DT  LIC     EL DORADO, AR
BLEDT20090615ABU

Undesireds:  NEW-FC    D10   LD  APP     Forest City, AR
Proposed                256.1 km
             KLFY-TV   D10   DT  LIC     LAFAYETTE, LA
BLCDT20090622AED        306.4
             KMLU      D11   DT  LIC     COLUMBIA, LA
BLCDT20121106AAT         99.0

        Service area       Terrain-limited       IX-free, before
IX-free, after    Percent New IX
 36854.9     526,753   36389.1     523,344   34359.8     512,227
34301.5     511,667     0.17     0.11

Undesired                          Total IX     Unique IX, before
Unique IX, after
NEW-FC D10 LD APP         58.3         560
58.3         560
KLFY-TV D10 DT LIC       281.7       1,339     147.7         550
147.7         550
KMLU D11 DT LIC         1881.6      10,567    1747.6       9,778
1747.6       9,778

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Interference to BLCDT20090810ACN LIC scenario 1

             Call      Chan  Svc Status  City, State
File Number             Distance
Desired:     KOLR      D10   DT  LIC     SPRINGFIELD, MO
BLCDT20090810ACN

Undesireds:  NEW-FC    D10   LD  APP     Forest City, AR
Proposed                309.7 km
             KAFT      D9    DT  LIC     FAYETTEVILLE, AR
BLEDT20100308ACN        183.5
             WGEM-TV   D10   DT  LIC     QUINCY, IL
BLANK0000105998         334.6
             KAKE      D10   DT  LIC     WICHITA, KS
BLCDT20090410ABG        407.7
             KTUL      D10   DT  CP      TULSA, OK
BLANK0000035654         275.5

        Service area       Terrain-limited       IX-free, before
IX-free, after    Percent New IX
 47392.6   1,076,536   45699.8   1,047,094   44907.1   1,031,385
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44899.1   1,031,255   0.02   0.01

Undesired   Total IX   Unique IX, before
Unique IX, after
NEW-FC D10 LD APP   9.0   187
8.0   130
KAFT D9 DT LIC   22.1   355   13.1   284
13.1   284
WGEM-TV D10 DT LIC   200.8   3,990   199.8   3,990
199.8   3,990
KAKE D10 DT LIC   24.9   801   1.0   0
1.0   0
KTUL D10 DT CP   578.8   11,435   544.8   10,563
543.8   10,506

Interference to BLCDT20090810ACN LIC scenario 2

             Call   Chan Svc Status City, State
File Number   Distance
Desired: KOLR   D10   DT LIC   SPRINGFIELD, MO
BLCDT20090810ACN

Undesireds: NEW-FC   D10   LD APP   Forest City, AR
Proposed   309.7 km
             KAFT   D9   DT LIC   FAYETTEVILLE, AR
BLEDT20100308ACN   183.5
             WGEM-TV   D10   DT LIC   QUINCY, IL
BLANK0000105998   334.6
             KAKE   D10   DT LIC   WICHITA, KS
BLCDT20090410ABG   407.7
             KTUL   D10   DT LIC   TULSA, OK
BLCDT20100505AGI   275.5

        Service area   Terrain-limited   IX-free, before
IX-free, after   Percent New IX
 47392.6   1,076,536   45699.8   1,047,094   45143.2   1,035,776
45134.1   1,035,589   0.02   0.02

Undesired   Total IX   Unique IX, before
Unique IX, after
NEW-FC D10 LD APP   9.0   187
9.0   187
KAFT D9 DT LIC   22.1   355   13.1   284
13.1   284
WGEM-TV D10 DT LIC   200.8   3,990   200.8   3,990
200.8   3,990
KAKE D10 DT LIC   24.9   801   1.0   0
1.0   0

KTUL D10 DT LIC 341.8 7,044 308.8 6,172
308.8 6,172

Interference to BLEDT20090612AAH LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMAB-TV	D10	DT	LIC	MISSISSIPPI STATE, MS	BLEDT20090612AAH	
Undesireds:	NEW-FC	D10	LD	APP	Forest City, AR	Proposed	241.0 km
	WMAE-TV	D9	DT	LIC	BOONEVILLE, MS	BLANK0000117125	150.5
	WBIQ	D10	DT	LIC	BIRMINGHAM, AL	BLEDT20140612ABA	217.8
	WDIQ	D10	DT	LIC	DOZIER, AL	BLEDT20091006ADJ	326.9
	KETZ	D10	DT	LIC	EL DORADO, AR	BLEDT20090615ABU	287.6
	WSMV-TV	D10	DT	LIC	NASHVILLE, TN	BLCDT20021029AAV	373.4
	WTOK-TV	D11	DT	LIC	MERIDIAN, MS	BLCDT20120203AAH	121.9
	WTVA	D11	DT	LIC	TUPELO, MS	BLANK0000117299	49.3

Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
27984.4	409,430	27326.8	405,171	23423.8	346,399	23415.9	346,313	0.03	0.02

Undesired	Total IX		Unique IX, before		Unique IX, after	
NEW-FC D10 LD APP	37.8	1,563			7.9	86
WMAE-TV D9 DT LIC	4.0	82	0.0	0	0.0	0
WBIQ D10 DT LIC	198.4	701	102.7	465	102.7	465
WDIQ D10 DT LIC	112.1	594	29.0	69	29.0	69
KETZ D10 DT LIC	254.0	5,069	233.3	4,676	222.4	3,639
WSMV-TV D10 DT LIC	20.9	141	0.0	0	0.0	0
WTOK-TV D11 DT LIC	404.8	3,627	360.7	3,198	360.7	3,198

WTVA D11 DT LIC 3087.3 49,839 3031.8 49,269
3019.8 49,206

Interference to proposal scenario 1

File Number	Call	Chan	Svc	Status	City, State	Distance
Desired:	NEW-FC	D10	LD	APP	Forest City, AR	
Proposed						

	Service area		Terrain-limited		IX-free	Percent IX
8110.3	76,176	8097.4	76,066	8097.4	76,066	0.00 0.00