Study created: 2017.11.28 15:42:03

Study build station data: LMS TV 2017-11-28 (62)

    Proposal: WFQX-TV D32 DT LIC CADILLAC, MI
 File number: WFQX 1MW Dielectric TFU-24DSC P230
 Facility ID: 25396
Station data: User record
   Record ID: 2423
     Country: U.S.
       Zone: II

Search options:
Non-U.S. records included

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WMYD	D31	DT	CP	DETROIT, MI	BLANK0000026818	257.0 km
No	WMYD	D31	DT	APP	DETROIT, MI	BLANK0000034676	257.0
No	WMYD	D31	DT	BL	DETROIT, MI	DTVBL74211	256.9
No	WMKG-CD	D31	DC	CP	MUSKEGON, MI	BLANK0000034413	127.6
No	WMKG-CD	D31	DC	BL	MUSKEGON, MI	DTVBL33869	118.0
No	WITI	D31	DT	CP	MILWAUKEE, WI	BLANK0000024875	236.2
No	WITI	D31	DT	APP	MILWAUKEE, WI	BLANK0000034409	236.2
No	WITI	D31	DT	BL	MILWAUKEE, WI	DTVBL73107	236.2
No	WLPD-CD	D32	DC	APP	PLANO, IL	BLANK0000034861	338.8
No	WLPD-CD	D32	DC	BL	PLANO, IL	DTVBL189058	338.8
No	WANE-TV	D32	DT	CP	FORT WAYNE, IN	BLANK0000027668	338.5
Yes	WANE-TV	D32	DT	APP	FORT WAYNE, IN	BLANK0000034806	338.5
No	WANE-TV	D32	DT	BL	FORT WAYNE, IN	DTVBL39270	338.5
Yes	WDIV-TV	D32	DT	CP	DETROIT, MI	BLANK0000027872	252.3
Yes	WDIV-TV	D32	DT	BL	DETROIT, MI	DTVBL53114	252.3
Yes	WJMN-TV	D32	DT	CP	ESCANABA, MI	BLANK0000028189	255.3
Yes	WJMN-TV	D32	DT	BL	ESCANABA, MI	DTVBL9630	255.3
Yes	WTMJ-TV	D32	DT	CP	MILWAUKEE, WI	BLANK0000026765	236.5
Yes	WTMJ-TV	D32	DT	APP	MILWAUKEE, WI	BLANK0000034843	236.5
Yes	WTMJ-TV	D32	DT	BL	MILWAUKEE, WI	DTVBL74098	236.5
No	WKAR-TV	D33	DT	CP	EAST LANSING, MI	BLANK0000027882	176.2
No	WKAR-TV	D33	DT	BL	EAST LANSING, MI	DTVBL6104	176.2
No	WOHO-CD	D33	DC	LIC	HOLLAND, MI	BLDTA20120316ACT	154.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D32
   Latitude: 44 8 12.00 N (NAD83)
  Longitude: 85 20 33.00 W
Height AMSL: 824.5 m
      HAAT: 428.5 m
   Peak ERP: 1000 kW
    Antenna: Dielectric TFU-24DSC P230 10.0 deg
Elev Pattrn: Generic
  Elec Tilt: 1.00

40.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	920 kW	402.1 m	106.6 km
45.0	362	428.0	99.9
90.0	294	441.2	99.0
135.0	164	444.3	94.2
180.0	920	415.9	107.9

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225.0       362      438.7     100.7
270.0       294      444.5      99.2
315.0       164      413.3      92.5
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ERP exceeds maximum

ERP: 1000 kW   ERP maximum: 738 kW

**Proposal is within coordination distance of Canadian border

Distance to Canadian border: 232.1 km

Distance to Mexican border: 2133.2 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 196.4 degrees   Distance: 177.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 261.7 degrees   Distance: 1692.7 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%

---- Below is IX received by proposal WFQX 1MW Dielectric TF ----

Proposal receives 0.84% interference from scenario 1

Proposal receives 0.84% interference from scenario 2

Proposal receives 1.64% interference from scenario 3

Proposal receives 1.65% interference from scenario 4

**MX with BLANK0000034843 APP scenario 5, 0.85% interference received

**MX with BLANK0000034843 APP scenario 6, 0.85% interference received

Proposal receives 0.85% interference from scenario 7

Proposal receives 0.86% interference from scenario 8

**MX with BLANK0000034843 APP scenario 9, 1.65% interference received

**MX with BLANK0000034843 APP scenario 10, 1.66% interference received

Proposal receives 1.66% interference from scenario 11

Proposal receives 1.66% interference from scenario 12

Proposal receives 0.84% interference from scenario 13

Proposal receives 0.84% interference from scenario 14

Proposal receives 1.64% interference from scenario 15

Proposal receives 1.65% interference from scenario 16

**MX with BLANK0000034843 APP scenario 17, 0.85% interference received

**MX with BLANK0000034843 APP scenario 18, 0.85% interference received

Proposal receives 0.85% interference from scenario 19

Proposal receives 0.86% interference from scenario 20

**MX with BLANK0000034843 APP scenario 21, 1.65% interference received

**MX with BLANK0000034843 APP scenario 22, 1.66% interference received

Proposal receives 1.66% interference from scenario 23

Proposal receives 1.66% interference from scenario 24

**MX with BLANK0000034806 APP scenario 25, 0.84% interference received

**MX with BLANK0000034806 APP scenario 26, 0.84% interference received

**MX with BLANK0000034806 APP scenario 27, 1.64% interference received

**MX with BLANK0000034806 APP scenario 28, 1.65% interference received

Proposal receives 0.84% interference from scenario 29

Proposal receives 0.84% interference from scenario 30

Proposal receives 1.64% interference from scenario 31

Proposal receives 1.65% interference from scenario 32

**MX with scenario 33, 0.85% interference received

**MX with scenario 34, 0.85% interference received

**MX with BLANK0000034806 APP scenario 35, 0.85% interference received

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**MX with BLANK0000034806 APP scenario 36, 0.86% interference received
**MX with scenario 37, 1.65% interference received
**MX with scenario 38, 1.66% interference received
**MX with BLANK0000034806 APP scenario 39, 1.66% interference received
**MX with BLANK0000034806 APP scenario 40, 1.66% interference received
**MX with BLANK0000034843 APP scenario 41, 0.85% interference received
**MX with BLANK0000034843 APP scenario 42, 0.85% interference received
Proposal receives 0.85% interference from scenario 43
Proposal receives 0.86% interference from scenario 44
**MX with BLANK0000034843 APP scenario 45, 1.65% interference received
**MX with BLANK0000034843 APP scenario 46, 1.66% interference received
Proposal receives 1.66% interference from scenario 47
Proposal receives 1.66% interference from scenario 48
**MX with BLANK0000034806 APP scenario 49, 0.84% interference received
**MX with BLANK0000034806 APP scenario 50, 0.84% interference received
**MX with BLANK0000034806 APP scenario 51, 1.64% interference received
**MX with BLANK0000034806 APP scenario 52, 1.65% interference received
Proposal receives 0.84% interference from scenario 53
Proposal receives 0.84% interference from scenario 54
Proposal receives 1.64% interference from scenario 55
Proposal receives 1.65% interference from scenario 56
**MX with scenario 57, 0.85% interference received
**MX with scenario 58, 0.85% interference received
**MX with BLANK0000034806 APP scenario 59, 0.85% interference received
**MX with BLANK0000034806 APP scenario 60, 0.86% interference received
**MX with scenario 61, 1.65% interference received
**MX with scenario 62, 1.66% interference received
**MX with BLANK0000034806 APP scenario 63, 1.66% interference received
**MX with BLANK0000034806 APP scenario 64, 1.66% interference received
**MX with BLANK0000034843 APP scenario 65, 0.85% interference received
**MX with BLANK0000034843 APP scenario 66, 0.85% interference received
Proposal receives 0.85% interference from scenario 67
Proposal receives 0.86% interference from scenario 68
**MX with BLANK0000034843 APP scenario 69, 1.65% interference received
**MX with BLANK0000034843 APP scenario 70, 1.66% interference received
Proposal receives 1.66% interference from scenario 71
Proposal receives 1.66% interference from scenario 72
Proposal receives 0.82% interference from scenario 73
Proposal receives 0.83% interference from scenario 74
Proposal receives 1.63% interference from scenario 75
Proposal receives 1.63% interference from scenario 76
**MX with BLANK0000034843 APP scenario 77, 0.83% interference received
**MX with BLANK0000034843 APP scenario 78, 0.84% interference received
Proposal receives 0.84% interference from scenario 79
Proposal receives 0.84% interference from scenario 80
**MX with BLANK0000034843 APP scenario 81, 1.64% interference received
**MX with BLANK0000034843 APP scenario 82, 1.64% interference received
Proposal receives 1.64% interference from scenario 83
Proposal receives 1.65% interference from scenario 84
Proposal receives 0.82% interference from scenario 85
Proposal receives 0.83% interference from scenario 86
Proposal receives 1.63% interference from scenario 87
Proposal receives 1.63% interference from scenario 88
**MX with BLANK0000034843 APP scenario 89, 0.83% interference received
**MX with BLANK0000034843 APP scenario 90, 0.84% interference received
Proposal receives 0.84% interference from scenario 91
Proposal receives 0.84% interference from scenario 92
**MX with BLANK0000034843 APP scenario 93, 1.64% interference received
**MX with BLANK0000034843 APP scenario 94, 1.64% interference received
Proposal receives 1.64% interference from scenario 95
Proposal receives 1.65% interference from scenario 96
**MX with BLANK0000034806 APP scenario 97, 0.82% interference received
**MX with BLANK0000034806 APP scenario 98, 0.83% interference received
**MX with BLANK0000034806 APP scenario 99, 1.63% interference received
**MX with BLANK0000034806 APP scenario 100, 1.63% interference received
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Proposal receives 0.82% interference from scenario 101
Proposal receives 0.83% interference from scenario 102
Proposal receives 1.63% interference from scenario 103
Proposal receives 1.63% interference from scenario 104
**MX with scenario 105, 0.83% interference received
**MX with scenario 106, 0.84% interference received
**MX with BLANK0000034806 APP scenario 107, 0.84% interference received
**MX with BLANK0000034806 APP scenario 108, 0.84% interference received
**MX with scenario 109, 1.64% interference received
**MX with scenario 110, 1.64% interference received
**MX with BLANK0000034806 APP scenario 111, 1.64% interference received
**MX with BLANK0000034806 APP scenario 112, 1.65% interference received
**MX with BLANK0000034843 APP scenario 113, 0.83% interference received
**MX with BLANK0000034843 APP scenario 114, 0.84% interference received
Proposal receives 0.84% interference from scenario 115
Proposal receives 0.84% interference from scenario 116
**MX with BLANK0000034843 APP scenario 117, 1.64% interference received
**MX with BLANK0000034843 APP scenario 118, 1.64% interference received
Proposal receives 1.64% interference from scenario 119
Proposal receives 1.65% interference from scenario 120
**MX with BLANK0000034806 APP scenario 121, 0.82% interference received
**MX with BLANK0000034806 APP scenario 122, 0.83% interference received
**MX with BLANK0000034806 APP scenario 123, 1.63% interference received
**MX with BLANK0000034806 APP scenario 124, 1.63% interference received
Proposal receives 0.82% interference from scenario 125
Proposal receives 0.83% interference from scenario 126
Proposal receives 1.63% interference from scenario 127
Proposal receives 1.63% interference from scenario 128
**MX with scenario 129, 0.83% interference received
**MX with scenario 130, 0.84% interference received
**MX with BLANK0000034806 APP scenario 131, 0.84% interference received
**MX with BLANK0000034806 APP scenario 132, 0.84% interference received
**MX with scenario 133, 1.64% interference received
**MX with scenario 134, 1.64% interference received
**MX with BLANK0000034806 APP scenario 135, 1.64% interference received
**MX with BLANK0000034806 APP scenario 136, 1.65% interference received
**MX with BLANK0000034843 APP scenario 137, 0.83% interference received
**MX with BLANK0000034843 APP scenario 138, 0.84% interference received
Proposal receives 0.84% interference from scenario 139
Proposal receives 0.84% interference from scenario 140
**MX with BLANK0000034843 APP scenario 141, 1.64% interference received
**MX with BLANK0000034843 APP scenario 142, 1.64% interference received
Proposal receives 1.64% interference from scenario 143
Proposal receives 1.65% interference from scenario 144
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