

K21GU-D

0000179570

Latitude: 32-02-01 N

Longitude: 102-04-00 W

ERP: 0.10 kW

Channel: 21Z

Frequency: 515.0 MHz

AMSL Height: 854.0 m

Elevation: 848.0 m

Horiz. Pattern: Directional

Vert. Pattern: Yes

Elec Tilt: 0.75

Prop Model: Longley-Rice

Climate: Cont temperate

Conductivity: 0.0050

Dielec Const: 15.0

Refractivity: 311.0


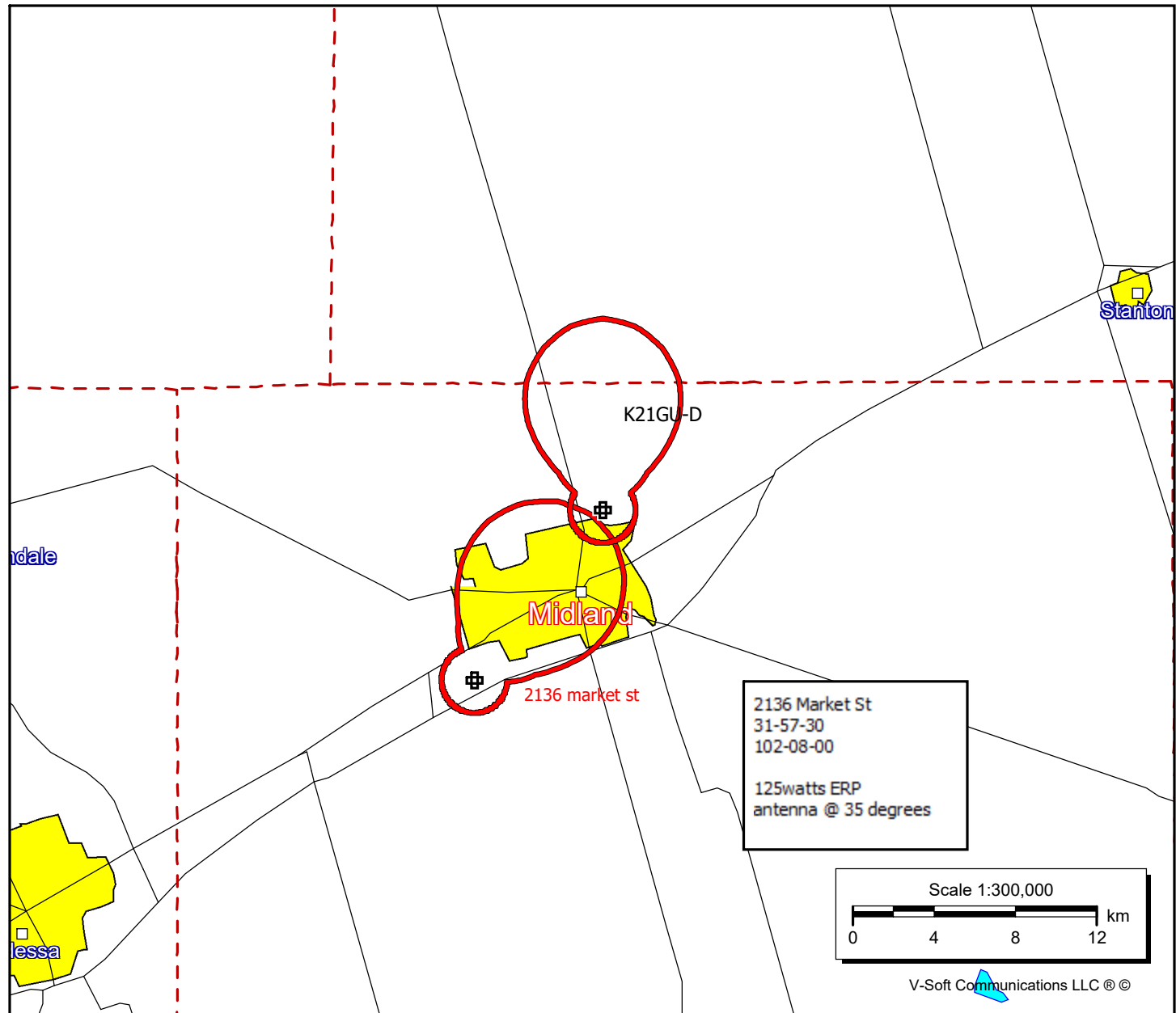
Receiver Ht AG: 10.0 m

Receiver Gain: 0 dB

Time Variability: 90.0%

Sit. Variability: 50.0%

ITM Mode: Broadcast

 Line of Sight

Minor Modification: Applicant has been unable to negotiate a reasonable long term lease at the licensed site. This station needs to vacate the current site and make an immediate change of location.

Study created: 2024.01.04 15:19:06

Study build station data: LMS TV 2024-01-02

Proposal: K21GU-D D21z LD LIC MIDLAND, TX
File number: crown site 2136 MARKET ST
Facility ID: 127755
Station data: User record
Record ID: 262
Country: U.S.

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
Yes	KTLE-LD	D20z	LD	LIC	ODESSA, TX	BLANK0000157634	20.4 km
No	KTXS-TV	D20	DT	LIC	SWEETWATER, TX	BLANK0000223534	197.2
No	K21LR-D	D21	LD	LIC	ALAMOGORDO, NM	BLANK0000124803	365.4
No	K21IM-D	D21	LD	LIC	FORT SUMNER, NM	BLDTT20090303AAY	348.0
No	KRWB-TV	D21	DT	LIC	ROSWELL, NM	BLCDT20090619ABH	235.9
No	KXAB-LD	D21+	LD	LIC	ABILENE, TX	BLANK0000179295	232.0
No	DKZFB-LP	D21z	LD	APP	Amarillo, TX	BLANK0000152110	372.1
No	KXAN-TV	D21	DT	LIC	AUSTIN, TX	BLANK0000121393	450.4
No	KXAN-TV	D21	DT	CP	AUSTIN, TX	BLANK0000127602	450.4
No	K21IR-D	D21	LD	LIC	CHILDRESS, TX	BLDTT20100907ACP	327.5
No	KSCE	D21	DT	LIC	EL PASO, TX	BLANK0000071608	410.9
No	KDKW-LD	D21	LD	CP	LUBBOCK, TX	BLANK0000177444	178.1
No	KDKW-LD	D21	LD	LIC	LUBBOCK, TX	BLANK0000177168	178.1
No	K21KJ-D	D21	LD	LIC	MINERAL WELLS, TX	BLDTL20140612AAS	416.0
No	KEUS-LD	D21	LD	LIC	SAN ANGELO, TX	BLANK0000107845	164.7
No	KANG-LD	D21	LD	LIC	SAN ANGELO, TX	BLANK0000107844	164.7
No	K21NW-D	D21	LD	LIC	TULIA, TX	BLANK0000076189	288.9
No	KMYL-LD	D22	LD	LIC	LUBBOCK, TX	BLANK0000074972	173.3
Yes	KMDF-LD	D22	LD	LIC	MIDLAND, TX	BLANK0000157636	20.4
No	KTXE-LD	D22	LD	LIC	SAN ANGELO, TX	BLANK0000152176	166.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D21z
Mask: Simple
Latitude: 31 57 30.00 N (NAD83)
Longitude: 102 8 0.00 W
Height AMSL: 873.0 m (Adjusted based on actual ground elevation calculation)
HAAT: 0.0 m
Peak ERP: 0.100 kW
Antenna: SCA-CL-1469 (ID 20778) 35.0 deg
Elev Pattn: Generic

49.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.024 kW	9.7 m	7.3 km
45.0	0.090	22.0	10.1
90.0	0.000	32.4	2.4
135.0	0.000	28.7	2.4
180.0	0.000	16.3	2.4
225.0	0.000	6.5	2.4
270.0	0.000	-13.5	2.4
315.0	0.000	-2.8	2.4

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 12 m

Distance to Canadian border: 1894.1 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 231.7 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 139.7 degrees Distance: 648.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 343.9 degrees Distance: 948.4 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%

No IX check failures found.