********** FM CHANNEL STUDY NO. 1 - MULLANEY ENGINEERING, INC. GAITHERSBURG, MARYLAND - 23-NOV-01 13:23:47 *********
********** LAST UPDATE: 011120 **********

KXIT-F 241 C3 FM
DALHART TX US
36.0541 102.3035 (D.MMSS) 96.1 MHz

POLARIZATION	ERP (KW) HOR PLN	BM TILT	HAAT (METER)	RCAMSL (METER)
HORIZONTAL	25.000	0.000	53.0	1270
VERTICAL	25.000	0.000	53.0	1270

THE FOLLOWING CONTOURS ARE CALCULATED USING:
ERP= 25.000 (KW) 14.0 (DBK) HAAT= 53.3 (METERS)

INTERFERING	DOMESTIC DBU	KM
CO CHANNEL	(40.0)	104.9
1ST ADJACENT	(54.0)	48.2
2ND ADJACENT	(80.0)	9.6
3RD ADJACENT	(100.0)	3.0
PROTECTED	(60.0)	29.4
CITY GRADE	(70.0)	17.0

ONE-STEP UPGRADE
AND
CORRECTION OF COORDINATES

CALCULATED HAAT FROM TOPO DATA BASE

AZIMUTH DEGREES	HAAT (METERS)	HAAT (FEET)	CONTOURS (KM) 70 DBU	60 DBU
0.0	36.0	118.2	13.7	24.5
45.0	49.3	161.7	16.2	28.3
90.0	69.2	227.2	19.4	33.1
135.0	66.0	216.5	18.9	32.4
180.0	85.2	279.5	21.5	36.4
225.0	51.8	169.8	16.7	29.0
270.0	40.2	132.0	14.5	25.7
315.0	28.6	93.9	12.7	22.7
AVERAGE	53.3	174.8	17.0	29.4

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AZIMUTH FROM	TO	CALL	STS	FILE NUMBER	CITY	ST	C	LAT (D.MMSS)	LONG	REL	CHN	ERP (KW) HORZ	VERT	HAAT (M)	D A	I-CON F5010 (KM)	P-CON F5050 (KM)	DIST (KM)	IR RSEP (KM)	IC RSEP (KM)	REZLT IR	IC
328.8	148.8	KXIT-F	LIC	BMLH010424AA	DALHART	TX	A	36.0545	102.3038	1ST	240A	6H	V	52				0.1	89.		-	
130.9	312.2	KCTX-F	LIC	BLH890620KA	CHILDRESS	TX	A	34.2620	100.1310	CO	241C2	50H	50V	145				277.8	177.			
78.5	259.6	KEYE-F	LIC	BLH790118AA	PERRYTON	TX	A	36.2154	100.4646	1ST	240A	3H	3V	91				158.4	89.			
78.5	259.5	KEYE-F	LIC	BLH990927AB	PERRYTON	TX	A	36.2154	100.4648	CO	241C3	8.5H	8.5V	122				158.4	153.			C

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DISTANCE (MILES)	DISTANCE (KM)	CALL	LOCATION			FREQ. (KHZ)		COORDINATES	FILE NO.	AZIMUTH FROM	TO
0.09	0.14	KXIT	DALHART	TX	US	1240	Lic	ND1 Unl 36-05-45N 102-30-38W	BL830420AA	328.8	148.8

CHANNEL ALLOCATION - PROPOSED SITE

RADIO STATION KXIT-FM
DALHART, TEXAS
CH. 241C3 25 KW 53 METERS

MULLANEY ENGINEERING, INC.
GAITHERSBURG, MARYLAND

FIGURE 4
November 2001