********** FM CHANNEL STUDY NO. 1 - MULLANEY ENGINEERING, INC. GAITHERSBURG, MARYLAND - 8-JUN-92 15:18:21 *********
********** LAST UPDATE: 920521 **********

NEW 295 B1 FM
LAKEWOOD NY US
42.0000 79.1300 (D.MMSS)

POLARIZATION	ERP (KW) HOR PLN	ERP (KW) BM TILT	HAAT (METER)	RCAMSL (METER)
HORIZONTAL	25.000	0.000	100.0	573
VERTICAL	25.000	0.000	100.0	573

THE FOLLOWING CONTOURS ARE CALCULATED USING:
ERP= 25.000 (KW) 14.0 (DBK) HAAT= 100.2 (METERS)

INTERFERING	DOMESTIC DBU	DOMESTIC KM	CANADIAN DBU	CANADIAN KM
CO CHANNEL	(40.0)	113.7	(34.0)	130.6
1ST ADJACENT	(54.0)	60.2	(48.0)	59.0
2ND ADJACENT	(80.0)	12.9	(74.0)	10.2
3RD ADJACENT	(100.0)	4.1	(94.0)	3.2
PROTECTED	(60.0)	39.1	(54.0)	50.9
CITY GRADE	(70.0)	23.3		

CALCULATED HAAT FROM TOPO DATA BASE

AZIMUTH DEGREES	HAAT (METERS)	HAAT (FEET)	CONTOURS (KM) 70 DBU	60 DBU	54 DBU
0.0	137.3	450.3	26.7	44.3	56.7
45.0	150.9	495.1	27.8	46.1	58.5
90.0	66.3	217.4	19.0	32.5	43.6
135.0	105.0	344.4	23.8	39.9	51.7
180.0	72.1	236.6	19.8	33.7	44.9
225.0	61.7	202.5	18.3	31.4	42.5
270.0	91.7	301.0	22.3	37.7	49.2
315.0	116.2	381.2	24.9	41.5	53.6
AVERAGE	100.2	328.6	23.3	39.1	50.9

****
THE CANADIAN BORDER IS 71.4 KM ON A BEARING OF 332.0 DEG. TRUE
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AZIMUTH FROM	TO	CALL	STS	FILE NUMBER	CITY	ST	C	LAT (D.MMSS)	LONG (D.MMSS)	REL	CHN	ERP (KW) HORZ	ERP (KW) VERT	HAAT (M)	D A	I-CON F5010 (KM)	P-CON F5050 (KM)	DIST (KM)	IR RSEP (KM)	IC RSEP (KM)	REZLT IR	REZLT IC
253.5	73.1	WCTL	LIC	BLH7706	Union Cit	PA	A	41.5133	79.5050	3RD	292A	3.00H	3.00V	91				54.6	48.			C
COMMENTSPECIAL NEGTD SHORT-SPACED ALLOCATION																						
270.4	89.9	WCTL	CP	BPH910404IA	Union Cit	PA	A	42.0004	79.5233	3RD	292A	3.4H	3.4V	131				54.6	48.			C
COMMENTERP exceeds maximum allowed under international agreements																						
213.1	32.3	WWKS	LIC	BLH6781	Beaver Fa	PA	A	40.4416	80.1747	1ST	294B	47.H	47.V	158D				166.8	145.			
79.7	260.6		ADD		Alfred	NY	A	42.1024	77.5220	1ST	294A	H	V					112.9	96.			
COMMENTAccepted by Canada on 920313 **DOCKET**91-339 **																						
235.3	53.8	WRQKFM	LIC	BLH1822	Canton	OH	A	40.4917	81.2534	CO	295B	27.5H	27.5V	104				226.4	211.			
121.1	302.1		VAC		Renovo	PA	A	41.1936	77.4500	CO	295A	H	V					143.2	143.			C
COMMENTEffective 8-26-91-RSVD For WMHU Per D88-496																						
168.9	349.0	NEW	APP	920306MA	Clarendon	PA	A	41.4850	79.1004	CO	295A	4.7H	4.7V	113				21.1	143.			S
157.3	337.4		VAC		Clarendon	PA	A	41.4648	79.0536	CO	295A	H	V					26.5	143.			S
WINDOW CLOSE 01/13/92 **COMMENTProposed to Canada as B1 on 900823-Accepted **DOCKET**90-464 **																						
305.5	124.1	CIXXFM	OPE		London	ON	C	43.0100	81.1204	CO	295A	3.00H	3.00V	38				198.3	180.			
355.7	175.6	CILQFM	OPE		Toronto	ON	C	43.3833	79.2315	1ST	296C1	40.H	40.V	421				183.0	181.			C

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NOTE:

SUBSTITUTION OF CHANNEL 282A PROPOSED FOR CLARENDON, PA

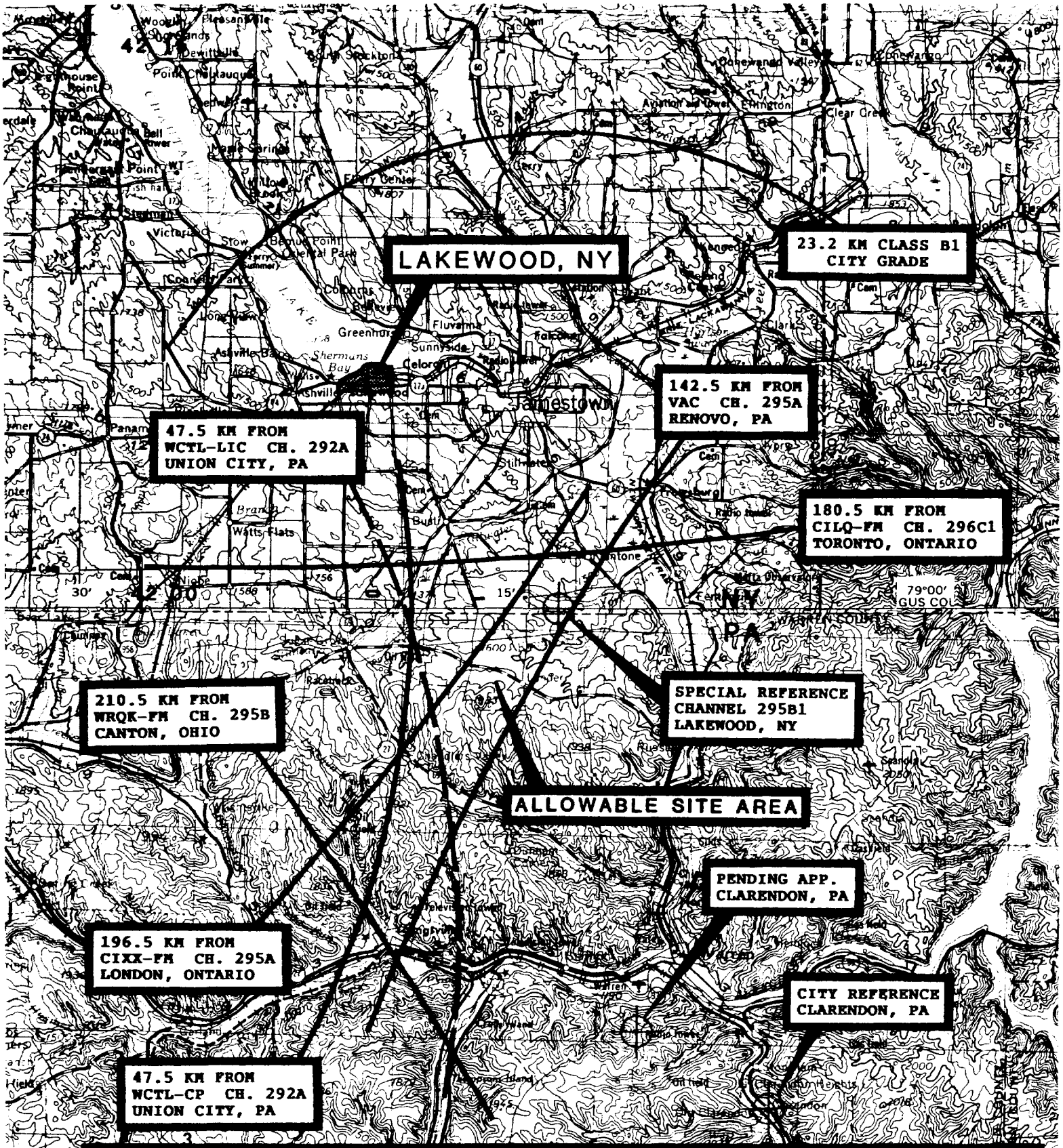
CHANNEL STUDY - LAKEWOOD, NEW YORK

ROBERT STEVENS
ALLOTMENT OF CH. 295B1 AT LAKEWOOD, NY
SUBSTITUTION OF CH. 282A AT CLARENDON, PA

MULLANEY ENGINEERING, INC.
GAITHERSBURG, MARYLAND

FIGURE 1

JUNE 1992



ALLOWABLE SITE AREA

ROBERT STEVENS
ALLOTMENT OF CH. 295B1 AT LAKEWOOD, NY
SUBSTITUTION OF CH. 282A AT CLARENDON, PA

MULLANEY ENGINEERING, INC.
GAITHERSBURG, MARYLAND

FIGURE 2

JUNE 1992

********** FM CHANNEL STUDY NO. 1 - MULLANEY ENGINEERING, INC. GAITHERSBURG, MARYLAND - 8-JUN-92 17:27:08 *********
********** LAST UPDATE: 920521 **********

NEW	282 A	FM	POLARIZATION	ERP (KW)		HAAT	RCAMSL
Clarendon PA	US	APP		HOR PLN	BM TILT	(METER)	(METER)
41.4850 79.1004 (D.MMSS)			HORIZONTAL	4.700	0.000	113.0	617
Cary H. & Betty F. Simpson			VERTICAL	4.700	0.000	113.0	617

THE FOLLOWING CONTOURS ARE CALCULATED USING:
ERP= 4.700 (KW) 6.7 (DBK) HAAT= 115.7 (METERS)

INTERFERING	DOMESTIC DBU	DOMESTIC KM	CANADIAN DBU	CANADIAN KM	
CO CHANNEL	(40.0)	85.5	(34.0)	93.6	** ALTERNATE CHANNEL **
1ST ADJACENT	(54.0)	43.9	(48.0)	32.2	
2ND ADJACENT	(80.0)	9.2	(74.0)	6.6	
3RD ADJACENT	(100.0)	2.7	(94.0)	2.1	
PROTECTED	(60.0)	28.6	(54.0)	39.1	
CITY GRADE	(70.0)	16.4			

CALCULATED HAAT FROM TOPO DATA BASE

AZIMUTH DEGREES	HAAT (METERS)	HAAT (FEET)	CONTOURS (KM) 70 DBU	60 DBU	54 DBU
0.0	136.2	446.8	17.9	30.6	41.7
45.0	89.3	293.0	14.2	25.4	34.9
90.0	111.0	364.3	16.0	28.1	38.5
135.0	145.5	477.3	18.5	31.6	42.9
180.0	101.1	331.6	15.2	26.9	37.0
225.0	72.5	237.7	12.8	23.0	31.5
270.0	138.5	454.5	18.1	30.9	42.0
315.0	131.6	431.7	17.6	30.2	41.1
AVERAGE	115.7	379.6	16.4	28.6	39.1

****
THE CANADIAN BORDER IS 91.6 KM ON A BEARING OF 332.0 DEG. TRUE
****

AZIMUTH FROM	TO	CALL	STS	FILE NUMBER	CITY	ST	C	LAT (D.MMSS)	LONG	REL	CHN	ERP (KW) HORZ	VERT	HAAT (M)	D	I-CON F5010 (KM)	P-CON F5050 (KM)	DIST (KM)	IR RSEP (KM)	IC RSEP (KM)	REZLT IR	IC
295.9	115.3	WMXE	LIC	BMLH871209KC	Erie	PA	A	42.0525	79.5637	3RD	279B	50.H	50.V	152				71.3	69.			C
COMMENTSPECIAL NEGOTIATED SHORT-SPACED ALLOCATION.																						
120.0	300.3	WLMI	LIC	BLH880504KA	Kane	PA	A	41.3934	78.4842	2ND	280A	3.00H	3.00V	88				34.2	31.			C
171.7	351.8	WPXZFM	ADD	RM5994	Punxsutaw	PA	A	40.5736	79.0008	1ST	281A	H	V	0				95.8	72.			
COMMENTPRM						**DOCKET**87-433 **																
14.9	195.2	WHTTFM	LIC	BLH810812AC	Buffalo	NY	A	42.4950	78.4754	1ST	281B	50.H	50.V	119				117.0	113.			C
COMMENTSPECIAL NEGOTIATED SHORT-SPACED ALLOCATION.																						
222.8	41.9	WELA	LIC	BLH790529AB	East Live	OH	A	40.3748	80.3610	CO	282B	50.H	50.V	101D				178.2	178.			C
222.8	41.9	WELA	APP	BPH900626IC	East Live	OH	A	40.3748	80.3610	CO	282B	50.0H	50.0V	150D				178.2	178.			C
29.2	210.5		ADD		Bellevill	ON	C	44.1845	77.1225	CO	282B	H	V	0				320.2	223.			
COMMENTCanadian Proposal																						
92.6	273.8	WNBTFM	LIC	BLH6205	Wellsboro	PA	A	41.4417	77.2150	1ST	283B	50.H	50.V	116				150.2	113.			
COMMENTAPPL. MUST SPECIFY AT LEAST 30 KW & 300 FT HAAT OR EQUIVALENT																						
355.0	174.9	CHUMFM	OPE		Toronto	ON	C	43.3833	79.2315	1ST	283C1	40.B	40.B	421				203.9	181.			
COMMENTSPECIAL NEGOTIATED SHORT-SPACED ALLOCATION.																						

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CHANNEL STUDY - CLARENDON, PENNSYLVANIA

ROBERT STEVENS
ALLOTMENT OF CH. 295B1 AT LAKEWOOD, NY
SUBSTITUTION OF CH. 282A AT CLARENDON, PA

MULLANEY ENGINEERING, INC.
GAITHERSBURG, MARYLAND

FIGURE 3

JUNE 1992