

**MINOR CHANGE APPLICATION**  
**PAMAL BROADCASTING, LTD**  
**WAJZ (FM) RADIO STATION**  
**CH 242A - 96.3 MHZ - 0.47 KW**  
**VOORHEESVILLE, NEW YORK**  
**September 2001**

**EXHIBIT #A**

**§73.215 Analysis**

This instant application proposes to relocate the licensed facilities of WAJZ, Channel 242A, Voorheesville, New York, to a new transmitter site. As indicated on Exhibit #A1, Channel 242A from the proposed site does not meet the Commission's minimum distance separation requirements to station WDCD-FM. Pamal Broadcasting, Ltd., proposes to use the provisions of §73.215 of the Commission's rules to address this shortspaced situation. The shortage to this facility complies with §73.215(e) of the Commission's rules. The provisions of §73.215 will be met by uniformly reducing the effective radiated power of WAJZ.

Exhibit #A2 specifically shows the proposed WAJZ protected and interfering contours and the protected and interfering contours of WDCD-FM. It is noted that the presently licensed WAJZ protected contour overlaps with the WDCD-FM 100 dBu contour. It is proposed to slightly reduce the present overlap between the stations. Exhibit #A2A is a detailed map which shows the proposed WAJZ 60 dBu contour will not extend as far into the WDCD-FM 100 dBu contour as the licensed WAJZ facilities. Aside from the pre-existing overlap of contours, there is no prohibited overlap between the stations. The contours of WDCD-FM are based on 6.0 kilowatts effective radiated power at a height above average terrain (HAAT) of 100 meters.<sup>1</sup> Attached as Exhibits #A3 and #A4 are the tabulated distances to the protected and interfering

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1) There is a pending application for WDCD-FM to increase to a maximum effective radiated power of 6.0 kilowatts at 100 meters HAAT. The facilities proposed in that application were used for the §73.215 analysis.

contours, along pertinent arcs, of the proposed WAJZ and authorized WDCD-FM. Further, attached as Exhibit #A5 are the tabulated and protected contours of the proposed facility, in ten degree increments. There is no prohibited overlap between the WDCD-FM protected contour and the WAJZ interfering contour, and the overlap between the WAJZ protected contour and the WDCD-FM interfering contour is reduced.

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**September 2001**

**EXHIBIT #A1**

CLEARANCE STUDY FOR WAJZ VOORHEESVILLE, NEW YORK  
USING PROPOSED SITE AS REFERENCE

REFERENCE		DISPLAY DATES
42 38 11 N	CLASS A	DATA 09-14-01
74 00 02 W	Current rules spacings	SEARCH 09-19-01
----- CHANNEL 242 - 96.3 MHz -----		

CALL TYPE	CH# LAT	CITY LNG	STATE PWR	BEAR' HT	D-KM D-Mi	R-KM R-Mi	MARGIN (KM)
<b>WAJZ</b>	<b>242A</b>	<b>Voorheesville</b>	<b>NY</b>	<b>204.8</b>	<b>2.38</b>	<b>115.0</b>	<b>-112.62</b>
<b>LIC CN</b>	<b>42 37 01</b>	<b>74 00 46</b>	<b>0.500 kW</b>	<b>341M</b>	<b>1.5</b>	<b>71.5</b>	
	<b>Pamal Broadcasting, Ltd.</b>			<b>BMLH-19930820KA</b>			
-----							
* WDCDFM	244A	Clifton Park	NY	22.6	29.20	31.0	-1.80
APP CX	42 52 44	73 51 47	6.000 kW	100M	18.1	19.3	
	Kimtron, Inc.			BPH-20010316AAA			
-----							
* WDCDFM	244A	Clifton Park	NY	22.6	29.20	31.0	-1.80
LIC CN	42 52 44	73 51 47	4.700 kW	100M	18.1	19.3	
	Kimtron, Inc.			BLH-19961122KA			
-----							
WLPL.C	242A	Walpole	NH	64.5	130.29	115.0	15.29
CP CN	43 07 51	72 33 16	1.350 kW	147M	81.0	71.5	
	Walpole Radio Partners			BMPH-19930119IA			
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WODZFM	241B1	Rome	NY	300.9	111.59	96.0	15.59
LIC CN	43 08 39	75 10 45	7.400 kW	184M	69.3	59.7	
	Regent Licensee Of Utica/Rome			BLH-19970926KB			
-----							
WTICFM	243B	Hartford	CT	133.8	137.52	113.0	24.52
LIC CN	41 46 27	72 48 20	20.000 kW	247M	85.5	70.2	
	Infinity Radio License Inc.			BMLH-19890803KA			
-----							
WTICFM	243B	Hartford	CT	133.8	137.52	113.0	24.52
AUX CN	41 46 27	72 48 20	20.000 kW	239M	85.5	70.2	
	Infinity Radio License Inc.			BLH-19901026KA			
-----							
WLPL	242A	Walpole	NH	65.9	139.62	115.0	24.62
LIC C	43 08 14	72 25 59	0.320 kW	124M	86.8	71.5	
	Walpole Radio Partners			BLH-20001219AAS			
-----							
WPKE	241A	Poughkeepsie	NY	175.4	99.85	72.0	27.85
LIC CN	41 44 25	73 54 17	4.400 kW	56M	62.1	44.8	
	Clear Channel Broadcasting Lic.			BLH-19961021KC			
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ALLO	243A	Speculator	NY	343.1	100.07	72.0	28.07
VAC	43 29 50	74 21 44	0.000 kW	0M	62.2	44.8	
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WQXRFM	242B	New York	NY	179.7	209.70	178.0	31.70
LIC CN	40 44 54	73 59 10	6.000 kW	415M	130.3	110.6	
	The New York Times Electronic			BLH-19940204KG			

\* Note : The shortage to this facility is addressed under §73.215.

**Graham Brock, Inc. - Broadcast Technical Consultants**

**WAJZ Proposed**  
Latitude: 42-38-11 N  
Longitude: 074-00-02 W  
Power: 0.47 kW  
Channel: 242A  
AMSL Height: 531.8 m

**WAJZ Licensed**  
BMLH-19930820KA  
Latitude: 42-37-01 N  
Longitude: 074-00-46 W  
Power: 0.50 kW  
Channel: 242A  
AMSL Height: 608.0 m

**WDCD-FM Maximum**  
BPH-20010316AAA  
Latitude: 42-52-44 N  
Longitude: 073-51-47 W  
Power: 6.00 kW  
Channel: 244A  
AMSL Height: 201.697 m

**WDCD-FM 100 dBu (50/10)**

**WDCD-FM 60 dBu (50/50)**

**WAJZ PROPOSED 100 dBu (50/10)**

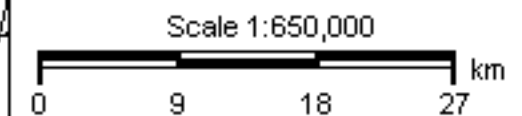
**WAJZ LIC. 100 dBu (50/10)**

**WAJZ PROPOSED 60 dBu (50/50)**

**WAJZ LIC. 60 dBu (50/50)**

**§73.215 ANALYSIS**

**EXHIBIT #A2**  
**MINOR CHANGE APPLICATION**  
**PAMAL BROADCASTING LTD.**  
**WAJZ (FM) RADIO STATION**  
**CH 242A - 96.3 MHz - 0.47 kW**  
**VOORHEESVILLE, NEW YORK**  
**September 2001**



**Graham Brock, Inc. - Broadcast Technical Consultants**

**WAJZ Proposed**

Latitude: 42-38-11 N  
Longitude: 074-00-02 W  
Power: 0.47 kW  
Channel: 242A  
AMSL Height: 531.8 m

**WAJZ Licensed**

BMLH-19930820KA  
Latitude: 42-37-01 N  
Longitude: 074-00-46 W  
Power: 0.50 kW  
Channel: 242A  
AMSL Height: 608.0 m

**WDCD-FM Maximum**

BPH-20010316AAA  
Latitude: 42-52-44 N  
Longitude: 073-51-47 W  
Power: 6.00 kW  
Channel: 244A  
AMSL Height: 201.697 m

**WDCD-FM 100 dBu (50/10)**

**WAJZ PROPOSED 60 dBu (50/50)**

**WAJZ LIC. 60 dBu (50/50)**

**§73.215 DETAIL**

**EXHIBIT #A2A  
MINOR CHANGE APPLICATION  
PAMAL BROADCASTING LTD.  
WAJZ (FM) RADIO STATION  
CH 242A - 96.3 MHZ - 0.47 KW  
VOORHEESVILLE, NEW YORK  
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Scale 1:250,000

0 3 6 9 km

**MINOR CHANGE APPLICATION**  
**PAMAL BROADCASTING, LTD**  
**WAJZ (FM) RADIO STATION**  
**CH 242A - 96.3 MHZ - 0.47 KW**  
**VOORHEESVILLE, NEW YORK**  
**September 2001**

**EXHIBIT #A3**

WAJZ - Proposed  
Channel = 242A  
Max ERP = 0.47 kW  
RCAMSL = 531.8 M  
N. Lat = 423811  
W. Lng = 740002

WDCD-FM - BPH-20010316AAA  
Channel = 244A  
Max ERP = 6 kW  
RCAMSL = 202 M  
N. Lat = 42 52 44  
W. Lng = 73 51 47

Protected  
60 dBu

Interfering  
100 dBu

**3 Second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	
005.0	000.4700	0433.4	031.3	296.7	006.0000	0066.1	009.5	75.7	
006.0	000.4700	0433.6	031.3	298.0	006.0000	0066.5	009.0	76.7	
007.0	000.4700	0433.2	031.3	299.3	006.0000	0066.6	008.5	77.6	
008.0	000.4700	0432.8	031.3	300.6	006.0000	0065.4	008.0	78.5	
009.0	000.4700	0432.8	031.3	302.2	006.0000	0064.6	007.5	79.4	
010.0	000.4700	0432.1	031.3	303.7	006.0000	0062.9	007.0	80.4	
011.0	000.4700	0432.4	031.3	305.7	006.0000	0059.4	006.5	81.3	
012.0	000.4700	0432.4	031.3	307.8	006.0000	0055.5	006.0	82.1	
013.0	000.4700	0431.9	031.3	310.1	006.0000	0053.3	005.5	83.4	
014.0	000.4700	0431.5	031.2	312.8	006.0000	0051.4	005.0	84.7	
015.0	000.4700	0431.3	031.2	315.9	006.0000	0051.2	004.5	86.4	
016.0	000.4700	0431.1	031.2	319.7	006.0000	0052.7	004.0	88.6	
017.0	000.4700	0430.9	031.2	324.4	006.0000	0055.3	003.6	91.0	
018.0	000.4700	0430.9	031.2	330.2	006.0000	0059.2	003.2	93.7	
019.0	000.4700	0430.7	031.2	337.5	006.0000	0068.4	002.8	97.0	
020.0	000.4700	0430.4	031.2	346.8	006.0000	0082.7	002.4	100.6	**
021.0	000.4700	0430.1	031.2	358.6	006.0000	0101.8	002.2	103.7	**
022.0	000.4700	0429.7	031.2	012.7	006.0000	0113.5	002.0	105.3	**
023.0	000.4700	0429.9	031.2	028.2	006.0000	0108.9	002.0	105.2	**
024.0	000.4700	0430.4	031.2	042.8	006.0000	0115.6	002.1	104.6	**
025.0	000.4700	0430.6	031.2	055.3	006.0000	0117.2	002.4	103.1	**
026.0	000.4700	0430.8	031.2	065.3	006.0000	0125.9	002.7	101.6	**
027.0	000.4700	0430.9	031.2	073.3	006.0000	0126.1	003.1	99.7	
028.0	000.4700	0430.9	031.2	079.5	006.0000	0125.0	003.5	97.8	
029.0	000.4700	0431.2	031.2	084.4	006.0000	0119.8	003.9	95.7	
030.0	000.4700	0431.5	031.2	088.4	006.0000	0120.2	004.4	94.0	
031.0	000.4700	0431.8	031.3	091.7	006.0000	0119.6	004.9	92.3	
032.0	000.4700	0432.2	031.3	094.5	006.0000	0117.4	005.4	90.7	
033.0	000.4700	0433.2	031.3	096.7	006.0000	0118.4	005.9	89.2	
034.0	000.4700	0434.3	031.4	098.6	006.0000	0120.3	006.4	87.9	
035.0	000.4700	0435.3	031.4	100.3	006.0000	0120.8	006.9	86.5	
036.0	000.4700	0435.9	031.4	101.9	006.0000	0119.5	007.4	85.1	
037.0	000.4700	0435.6	031.4	103.7	006.0000	0115.0	007.9	83.6	
038.0	000.4700	0434.9	031.4	105.4	006.0000	0113.8	008.4	82.5	
039.0	000.4700	0434.7	031.4	106.8	006.0000	0110.8	008.9	81.3	
040.0	000.4700	0435.0	031.4	108.0	006.0000	0110.4	009.4	80.3	
041.0	000.4700	0435.4	031.4	109.2	006.0000	0110.9	009.9	79.4	
042.0	000.4700	0435.4	031.4	110.3	006.0000	0111.7	010.4	78.6	
043.0	000.4700	0435.6	031.4	111.4	006.0000	0112.3	010.9	77.7	
044.0	000.4700	0436.2	031.4	112.3	006.0000	0112.6	011.4	76.9	
045.0	000.4700	0436.3	031.4	113.3	006.0000	0113.0	012.0	76.2	

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**September 2001**

**EXHIBIT #A4**

WDCD-FM - BPH-20010316AAA  
Channel = 244A  
Max ERP = 6 kW  
RCAMSL = 202 M  
N. Lat = 42 52 44  
W. Lng = 73 51 47

WAJZ - Proposed  
Channel = 242A  
Max ERP = 0.47 kW  
RCAMSL = 531.8 M  
N. Lat = 423811  
W. Lng = 740002

Protected  
60 dBu

Interfering  
100 dBu

**3 Second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
173.0	006.0000	0108.6	029.4	098.5	000.4700	0445.8	015.0	73.3
174.0	006.0000	0108.7	029.4	099.1	000.4700	0445.8	014.5	73.6
175.0	006.0000	0109.0	029.5	099.8	000.4700	0445.9	014.1	74.2
176.0	006.0000	0110.0	029.6	100.9	000.4700	0445.9	013.6	74.8
177.0	006.0000	0111.0	029.7	101.9	000.4700	0445.7	013.1	75.4
178.0	006.0000	0110.9	029.7	102.5	000.4700	0445.5	012.6	76.0
179.0	006.0000	0110.3	029.6	102.8	000.4700	0445.5	012.1	76.7
180.0	006.0000	0109.5	029.5	102.8	000.4700	0445.5	011.6	77.4
181.0	006.0000	0107.8	029.3	102.4	000.4700	0445.7	011.0	78.2
182.0	006.0000	0105.9	029.1	101.6	000.4700	0445.7	010.5	79.0
183.0	006.0000	0104.0	028.8	100.7	000.4700	0445.9	009.9	79.7
184.0	006.0000	0101.9	028.5	099.4	000.4700	0445.8	009.4	80.5
185.0	006.0000	0099.8	028.3	097.9	000.4700	0445.4	008.9	81.2
186.0	006.0000	0098.2	028.1	096.6	000.4700	0445.4	008.4	81.9
187.0	006.0000	0097.2	027.9	095.6	000.4700	0445.3	007.9	82.6
188.0	006.0000	0096.7	027.9	095.0	000.4700	0445.0	007.4	83.3
189.0	006.0000	0096.4	027.8	094.4	000.4700	0444.8	006.9	84.1
190.0	006.0000	0096.2	027.8	093.7	000.4700	0444.8	006.5	84.9
191.0	006.0000	0095.9	027.7	092.8	000.4700	0445.2	006.0	85.8
192.0	006.0000	0095.5	027.7	091.5	000.4700	0448.7	005.5	86.9
193.0	006.0000	0095.4	027.7	090.2	000.4700	0449.4	005.1	88.0
194.0	006.0000	0095.2	027.6	088.5	000.4700	0454.5	004.6	89.1
195.0	006.0000	0094.8	027.6	086.0	000.4700	0452.9	004.1	90.1
196.0	006.0000	0094.3	027.5	082.5	000.4700	0452.9	003.7	91.2
197.0	006.0000	0093.9	027.5	078.2	000.4700	0453.3	003.3	92.3
198.0	006.0000	0093.5	027.4	072.7	000.4700	0452.2	002.9	93.5
199.0	006.0000	0093.0	027.3	065.4	000.4700	0444.4	002.6	94.6
200.0	006.0000	0092.5	027.3	056.0	000.4700	0436.1	002.3	95.7
201.0	006.0000	0092.1	027.2	044.7	000.4700	0436.3	002.2	96.4
202.0	006.0000	0091.7	027.2	032.0	000.4700	0432.2	002.1	96.8
203.0	006.0000	0091.4	027.1	019.0	000.4700	0430.7	002.1	96.7

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**September 2001**

**EXHIBIT #A4 (continued)**

WDCD-FM - BPH-20010316AAA  
Channel = 244A  
Max ERP = 6 kW  
RCAMSL = 202 M  
N. Lat = 42 52 44  
W. Lng = 73 51 47

WAJZ - Proposed  
Channel = 242A  
Max ERP = 0.47 kW  
RCAMSL = 531.8 M  
N. Lat = 423811  
W. Lng = 740002

Protected  
60 dBu

Interfering  
100 dBu

**3 Second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
204.0	006.0000	0091.1	027.1	006.8	000.4700	0433.2	002.2	96.2
205.0	006.0000	0091.4	027.1	355.6	000.4700	0419.1	002.4	95.5
206.0	006.0000	0091.9	027.2	345.7	000.4700	0383.5	002.6	94.6
207.0	006.0000	0092.6	027.3	337.2	000.4700	0315.4	002.9	93.1
208.0	006.0000	0093.4	027.4	330.0	000.4700	0247.1	003.2	91.5
209.0	006.0000	0094.6	027.6	323.7	000.4700	0233.0	003.5	90.1
210.0	006.0000	0095.9	027.7	318.4	000.4700	0204.4	003.9	88.1
211.0	006.0000	0097.3	027.9	314.0	000.4700	0184.4	004.3	86.2
212.0	006.0000	0098.6	028.1	310.7	000.4700	0170.8	004.8	84.3
213.0	006.0000	0099.8	028.3	308.2	000.4700	0154.4	005.2	82.1
214.0	006.0000	0100.9	028.4	306.4	000.4700	0143.9	005.7	80.1
215.0	006.0000	0101.9	028.5	305.0	000.4700	0140.9	006.2	78.5
216.0	006.0000	0102.9	028.7	304.0	000.4700	0138.6	006.7	77.0
217.0	006.0000	0104.1	028.8	302.8	000.4700	0134.7	007.2	75.4
218.0	006.0000	0105.9	029.1	301.6	000.4700	0130.0	007.8	73.9
219.0	006.0000	0108.0	029.3	300.1	000.4700	0126.4	008.3	72.5
220.0	006.0000	0110.1	029.6	299.0	000.4700	0126.4	008.8	71.4
221.0	006.0000	0112.1	029.8	298.2	000.4700	0126.8	009.4	70.4
222.0	006.0000	0114.1	030.1	297.6	000.4700	0126.8	010.0	69.3
223.0	006.0000	0116.1	030.3	297.1	000.4700	0127.8	010.5	68.4
224.0	006.0000	0118.2	030.5	296.7	000.4700	0127.8	011.1	67.4
225.0	006.0000	0120.3	030.8	296.5	000.4700	0128.7	011.7	66.6
226.0	006.0000	0122.3	031.0	296.4	000.4700	0128.7	012.3	65.7
227.0	006.0000	0123.6	031.1	296.6	000.4700	0127.8	012.8	64.9
228.0	006.0000	0123.9	031.1	297.3	000.4700	0127.8	013.3	64.2
229.0	006.0000	0123.5	031.1	298.3	000.4700	0126.8	013.8	63.5
230.0	006.0000	0122.5	031.0	299.5	000.4700	0126.4	014.3	62.9
231.0	006.0000	0121.0	030.8	300.8	000.4700	0127.1	014.8	62.4
232.0	006.0000	0119.4	030.7	302.2	000.4700	0130.0	015.2	62.3
233.0	006.0000	0117.5	030.5	303.6	000.4700	0138.6	015.6	62.5



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**VOORHEESVILLE, NEW YORK**  
**September 2001**

**EXHIBIT #A5**

Predicted Contours:

N. Lat. = 42 38 11 - Tabulated Protected and Interfering Contour Data  
W. Lng. = 74 00 02 - WAJZ Radio Station - Voorheesville, New York

FCC Method - 03 Arc Second terrain database

Azi.	AV EL	HAAT	kW	dBk	Field	60 .5	40 .1	54 .1	100 .1
000	98.6	433.2	.4700	-3.28	1.000	31.31	88.80	48.42	1.52
010	99.7	432.1	.4700	-3.28	1.000	31.27	88.69	48.35	1.52
020	101.4	430.4	.4700	-3.28	1.000	31.20	88.52	48.24	1.52
030	100.3	431.5	.4700	-3.28	1.000	31.25	88.63	48.31	1.52
040	96.8	435.0	.4700	-3.28	1.000	31.37	88.97	48.53	1.52
050	100.2	431.6	.4700	-3.28	1.000	31.25	88.64	48.31	1.52
060	93.2	438.6	.4700	-3.28	1.000	31.51	89.33	48.76	1.52
070	79.6	452.2	.4700	-3.28	1.000	32.03	90.66	49.62	1.52
080	77.8	454.0	.4700	-3.28	1.000	32.10	90.83	49.73	1.52
090	82.4	449.4	.4700	-3.28	1.000	31.92	90.39	49.44	1.52
100	85.9	445.9	.4700	-3.28	1.000	31.79	90.05	49.22	1.52
110	91.4	440.4	.4700	-3.28	1.000	31.58	89.51	48.87	1.52
120	110.4	421.4	.4700	-3.28	1.000	30.88	87.65	47.66	1.52
130	138.6	393.2	.4700	-3.28	1.000	29.88	84.92	45.82	1.52
140	145.4	386.4	.4700	-3.28	1.000	29.64	84.27	45.37	1.52
150	217.5	314.3	.4700	-3.28	1.000	26.76	77.26	40.44	1.52
160	270.1	261.7	.4700	-3.28	1.000	24.53	72.31	36.92	1.52
170	337.3	194.5	.4700	-3.28	1.000	21.34	64.99	31.70	1.52
180	339.1	192.7	.4700	-3.28	1.000	21.25	64.77	31.55	1.52
190	413.7	118.1	.4700	-3.28	1.000	16.59	54.45	24.74	1.52
200	428.3	103.5	.4700	-3.28	1.000	15.39	52.08	23.13	1.52
210	460.1	71.7	.4700	-3.28	1.000	12.79	44.55	18.92	1.52
220	476.8	55.0	.4700	-3.28	1.000	11.38	39.32	16.40	1.52
230	453.9	77.9	.4700	-3.28	1.000	13.28	46.27	19.78	1.52
240	438.8	93.0	.4700	-3.28	1.000	14.51	49.99	21.81	1.52
250	408.3	123.5	.4700	-3.28	1.000	16.99	55.23	25.27	1.52
260	367.4	164.4	.4700	-3.28	1.000	19.76	61.10	29.21	1.52
270	359.1	172.7	.4700	-3.28	1.000	20.24	62.25	29.96	1.52
280	389.9	141.9	.4700	-3.28	1.000	18.30	57.87	27.06	1.52
290	405.0	126.8	.4700	-3.28	1.000	17.23	55.70	25.58	1.52
300	405.4	126.4	.4700	-3.28	1.000	17.20	55.63	25.54	1.52
310	366.1	165.7	.4700	-3.28	1.000	19.84	61.28	29.33	1.52
320	314.4	217.4	.4700	-3.28	1.000	22.48	67.70	33.60	1.52
330	284.3	247.5	.4700	-3.28	1.000	23.91	70.92	35.93	1.52
340	186.3	345.5	.4700	-3.28	1.000	28.07	80.34	42.57	1.52
350	127.7	404.1	.4700	-3.28	1.000	30.26	85.97	46.54	1.52

AMSL= 531.8 M