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MAY 13 1992

May 13, 1992

Federal Communications Commission
Office of the Secretary

Ms. Donna R. Searcy
Secretary
Federal Communications Commission
Washington, D.C. 20554

Re: MM Docket No. 92-64
FM Channel 295A
Ocean City, Maryland

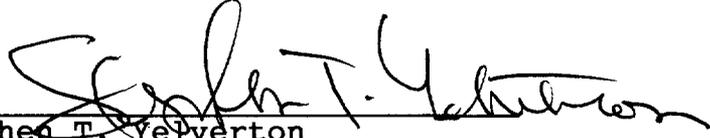
Dear Ms. Searcy:

Enclosed for filing on behalf of J. H. Communications is an original and six (6) copies of its "Petition for Leave to Amend" and related amendment. This amendment is in response to the Hearing Designation Order, DA 92-358, released April 13, 1992.

Please contact the undersigned in our Washington, D.C. office.

Respectfully submitted,

MAUPIN TAYLOR ELLIS & ADAMS, P.C.

BY: 
Stephen T. Yelverton
Attorneys for J.H. Communications

ayw/sty/sty200

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MAY 13 1992

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

Federal Communications Commission
Office of the Secretary

In Re Applications of:)	MM Docket No. 92-64
)	
WIND 'N SEA FM LIMITED)	File No. BPH-901224ME
PARTNERSHIP)	
)	
J. H. COMMUNICATIONS)	File No. BPH-901226MB
)	
For construction permit for)	
a new FM Station on Channel)	
295A, Ocean City, Maryland)	

TO: Administrative Law Judge
Edward Luton

PETITION FOR LEAVE TO AMEND

J. H. Communications ("JH"), by its attorneys, pursuant to Section 73.3522(b)(2) of the Commission's Rules, hereby submits this "Petition for Leave to Amend" and related amendment. This amendment is in response to the Hearing Designation Order, DA 92-358, paras. 6-7, released April 13, 1992, which directed JH to submit an engineering amendment within thirty (30) days. In support of its petition for leave to amend, JH submits the following comments.

The HDO, at para. 6, directed JH to amend its engineering proposal to address a short-spacing to Station WQMR-FM, Federalsburg, Maryland. The HDO, at n. 4, suggested that proposing a directional antenna under Section 73.215 may be a viable option. JH's amendment proposes such a directional antenna. It therefore requests processing under Section 73.215.

JH's application, as initially filed, requested processing pursuant to Section 73.215 with respect to

construction permit BPH-880727MC, North Cape May, New Jersey. The HDO, at n. 2, stated that JH's proposal satisfies the requirements of Section 73.215 in this respect.

JH's application, as initially filed, requested processing under Section 73.213(c)(1) with respect to Station WKDM-FM, Camden, New Jersey. The HDO, at paras. 3-4, indicated that JH's proposal in this respect is acceptable.

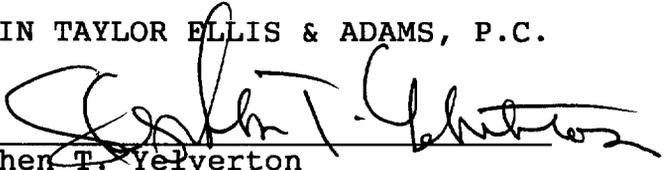
The HDO, at para. 7, directed JH to submit an Environmental Assessment (EA) statement containing the information delineated in Sections 1.1307(b) and 1.1311. JH's amendment addresses this matter. See, Narrative, pp. 2-3.

JH submits that "good cause" exists for acceptance of the amendment. It is required by the HDO and is timely filed. See, Section 73.3522(b)(2).

WHEREFORE, in view of the foregoing, JH requests that the Presiding Judge grant its petition for leave to amend and accept its amendment.

Respectfully submitted,

MAUPIN TAYLOR ELLIS & ADAMS, P.C.

BY: 

Stephen T. Yelverton
Attorneys for J. H. Communications
1130 Connecticut Avenue, N.W.
Suite 750
Washington, D.C. 20036-3904
Telephone: (202) 429-8910

May 13, 1992
8387.002
ayw/sty/sty200

APPLICATION FOR CONSTRUCTION PERMIT FOR COMMERCIAL BROADCAST STATION

For COMMISSION Fee Use Only	FEE NO:	For APPLICANT Fee Use Only Is a fee submitted with this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If fee exempt (see 47 C.F.R. Section 1.1112), indicate reason therefor (check one box): <input type="checkbox"/> Noncommercial educational licensee <input type="checkbox"/> Governmental entity
	FEE TYPE:	
	FEE AMT:	
	ID SEQ:	
		FOR COMMISSION USE ONLY FILE NO.

Section I - GENERAL INFORMATION

1. Name of Applicant Joseph A. Booth and Robert H. Cauthen, Jr. dba J. H. Communications			Send notices and communications to the following person at the address below: Name Stephen T. Yelverton Maupin Taylor Ellis & Adams, P.C.		
Street Address or P.O. Box 517 Croatan Rd.			Street Address or P.O. Box 1130 Connecticut Ave., N.W. #750		
City Virginia Beach	State VA.	ZIP Code 23451	City Washington	State D.C.	ZIP Code 20036
Telephone No. (Include Area Code) 804-428-1192			Telephone No. (Include Area Code) 202-429-8910		

2 This application is for: AM FM TV

(a) Channel No. or Frequency 295 A	(b) Principal Community Ocean City	City Ocean City	State MD
---------------------------------------	---------------------------------------	--------------------	-------------

(c) Check one of the following boxes:

- Application for NEW station
- MAJOR change in licensed facilities; call sign: _____
- MINOR change in licensed facilities; call sign: _____
- MAJOR modification of construction permit; call sign: _____
File No. of construction permit: _____
- MINOR modification of construction permit; call sign: _____
File No. of construction permit: _____
- AMENDMENT to pending application; Application file number: BPH-901226MB

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Section I and those other portions of the form that contain the amended information.

3. Is this application mutually exclusive with a renewal application? Yes No

If Yes, state:

Call letters	Community of License	
	City	State

Section V-B - FM BROADCAST ENGINEERING DATA	FOR COMMISSION USE ONLY File No. _____ ASB Referral Date RECEIVED Referred by _____
--	--

Name of Applicant

J. H. COMMUNICATIONS

MAY 13 1992

Call letters (if issued)

Is this application being filed in response window? Federal Communications Commission Office of the Secretary Yes No

If Yes, specify closing date: _____

Purpose of Application: (check appropriate box(es))

- | | |
|--|---|
| <input checked="" type="checkbox"/> Construct a new (main) facility | <input type="checkbox"/> Construct a new auxillary facility |
| <input type="checkbox"/> Modify existing construction permit for main facility | <input type="checkbox"/> Modify existing construction permit for auxillary facility |
| <input type="checkbox"/> Modify licensed main facility | <input type="checkbox"/> Modify licensed auxillary facility |

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- | | |
|---|--|
| <input type="checkbox"/> Antenna supporting-structure height | <input type="checkbox"/> Effective radiated power |
| <input type="checkbox"/> Antenna height above average terrain | <input type="checkbox"/> Frequency |
| <input type="checkbox"/> Antenna location | <input type="checkbox"/> Class |
| <input type="checkbox"/> Main Studio location | <input type="checkbox"/> Other (Summarize briefly) |

File Number(s) BPH-901226MB

1. Allocation:

Channel No.	Principal community to be served:		
	City	County	State
295	Ocean City	Worcester	MD

- Class (check only one box below)
- | | | | |
|---------------------------------------|-----------------------------|----------------------------|-----------------------------|
| <input checked="" type="checkbox"/> A | <input type="checkbox"/> B1 | <input type="checkbox"/> B | <input type="checkbox"/> C3 |
| <input type="checkbox"/> C2 | <input type="checkbox"/> C1 | <input type="checkbox"/> C | |

2. Exact location of antenna.

- (a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark. The site is in the Todd Industrial Park 0.8 kilometer northwest of the intersection of St. Martin Neck Road and Salt Grass Road in Worcester County, Maryland.
- (b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	38 ^o	25 [']	15 ["]	Longitude	75 ^o	08 [']	02 ["]
----------	-----------------	-----------------	-----------------	-----------	-----------------	-----------------	-----------------

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? Yes No

If Yes, give call letter(s) or file number(s) or both. _____

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any. _____

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates? Yes No

If Yes, list old coordinates.

Latitude ° ' "	Longitude ° ' "
---	--

5. Has the FAA been notified of the proposed construction? Yes No

If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available.

Date December 22, 1990 Office where filed Jamaica

Exhibit No. Exhibitp17

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

	Distance (km)	Bearing (degrees True)
(a) <u>Warrington</u>	<u>4.8</u>	<u>310</u>
(b) _____	_____	_____

7. (a) Elevation: (to the nearest meter)

- (1) of site above mean sea level; 4 meters
- (2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 102 meters
- (3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] 106 meters

(b) Height of radiation center: (to the nearest meter) H - Horizontal; V - Vertical

- (1) above ground 98 meters (H)
- 98 meters (V)
- (2) above mean sea level [(aX1) + (bX1)] 102 meters (H)
- 102 meters (V)
- (3) above average terrain 100 meters (H)
- 100 meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.

Exhibit No. Fig. 1

See original App.
BPH-901226MB

9. Effective Radiated Power:

(a) ERP in the horizontal plane 3.0 kw (H*) 3.0 kw (V*)

(b) Is beam tilt proposed? Yes No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field.

Exhibit No.

_____ kw (H*) _____ kw (V*)

*Polarization

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 3)

10. Is a directional antenna proposed?

Yes No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of the relative field.

Exhibit No.
Eng

11. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 73.315(a) and (b)?

Yes No

If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 3.16 mV/m service.

Exhibit No.

12. Will the main studio be within the protected 3.16 mV/m field strength contour of this proposal?

Yes No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.

Exhibit No.

13. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207?

Yes No

(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply?

Yes No

(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers.

Exhibit No.
Narrative

(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.

Exhibit No.
Narrative

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.
Fig. 4

- (1) Protected and interfering contours, in all directions (360°), for the proposed operation.
- (2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.
- (3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
- (4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
- (5) The official title(s) of the map(s) used in the exhibits(s).

14. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast (except citizens band or amateur) radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations; cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?

Yes No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. (See 47 C.F.R. Sections 73.315(b), 73.316(a) and 73.318.)

Exhibit No.
Narrative

15. Attach as an Exhibit a 75 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V. The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No.
Fig. 2

See original application
BPH-901226MB

16. Attach as an Exhibit (*name the source*) a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.

See page 15 in Engineering Exhibit.

(a) the proposed transmitter location, and the radials along which profile graphs have been prepared;

(b) the 3.16 mV/m and 1 mV/m predicted contours; and

(c) the legal boundaries of the principal community to be served.

17. Specify area in square kilometers (1 sq. mi. = 259 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 967 sq. km. Population 36,683

18. For an application involving an auxiliary facility only, attach as an Exhibit a map (*Sectional Aeronautical Chart or equivalent*) that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license.

19. Terrain and coverage data (*to be calculated in accordance with 47 C.F.R. Section 73.313*)

Source of terrain data: (*check only one box below*)

Linearly interpolated 30-second database 75 minute topographic map

(Source: NGDC)

Other (*briefly summarize*)

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 5)

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances	
		To the 3.16 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
*			
0			
45	SEE PAGES 5 AND 6 IN ENGINEERING EXHIBIT.		
90			
135			
180			
225			
270			
315			

*Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

20. Environmental Statement/See 47 C.F.R. Section 1.1301 et seq.

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact? Yes No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311. Exhibit No.

If No, explain briefly why not. Please see the Narrative in the Engineering Exhibit.

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed) William A. Culpepper	Relationship to Applicant (e.g., Consulting Engineer) Technical Consultant
Signature 	Address (Include ZIP Code) 227 Farr's Bridge Road Greenville, SC 29611
Date May 12, 1992	Telephone No. (Include Area Code) (803) 246-3401

J. H. COMMUNICATIONS
OCEAN CITY, MARYLAND

AMENDMENT TO
APPLICATION FOR A NEW FM BROADCAST STATION
AT OCEAN CITY, MARYLAND

ENGINEERING EXHIBIT

MAY 1992

William Culpepper & Associates, Inc.
227 Farr's Bridge Road
Greenville, South Carolina 29611

J. H. COMMUNICATIONS
OCEAN CITY, MARYLAND
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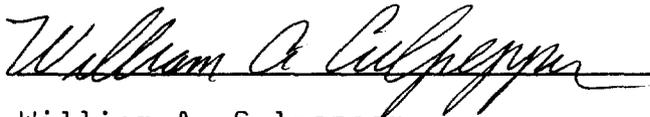
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J. H. COMMUNICATIONS
OCEAN CITY, MARYLAND

DECLARATION

I declare, under penalty of perjury, that I have prepared the attached Exhibit for J. H. COMMUNICATIONS, and that all of the facts therein, except for facts of which the Federal Communications Commission may take official notice, are true to the best of my knowledge and belief; and that I am a Registered Professional Engineer in the States of Alabama, Georgia and North Carolina.

Executed on May 12, 1992.



William A. Culpepper
227 Farr's Bridge Road
Greenville, South Carolina 29611
803-246-3401

J. H. COMMUNICATIONS

OCEAN CITY, MARYLAND

NARRATIVE

This is an amendment to the pending application of J. H. Communications for a new FM Broadcast Station at Ocean City, Maryland (BPH-901226MB). The purpose of the amendment is to correct two deficiencies as pointed out in the Hearing Designation Order. The corrections are to protect WQMR, Federalsburg, Maryland by §73.215 and to elaborate on the protection of workers from Radio Frequency Radiation.

The reference point for this allotment is short-spaced to WKDN, Camden, New Jersey, WAFX, Suffolk, Virginia and a construction permit on channel 294A at North Cape May, New Jersey. It is not short-spaced to the licensed facility of WQMR, Federalsburg, Maryland.

The proposed site is short-spaced to WKDN, the North Cape May CP and WQMR. This application is to be processed under §73.213 in connection with WKDN and under §73.215 in connection with the construction permit on channel 294A at North Cape May and with WQMR. The contours of the North Cape May authorization and WQMR have been calculated using six kilowatts and 100 meters above average terrain.

The directional antenna proposed in this application is a Shively Labs model 6810-2R-DA with two elements. It will be mounted on the side of a tower as specified by the manufacturer. The supporting structure will not have a platform installed on it, and the manufacturer's recommendation regarding minimum distance to other antennas will be observed.

The response to question 14 of V-B is "No" to all parts except that the blanketing contour will encompass a populated area. If any blanketing interference is reported, applicant agrees to abide by §73.318 in correcting the problem. Possible solutions to blanketing interference might include, but not be limited to, the installation of a filter in the antenna input to the offending receiver and installation of RF chokes in the speaker and power cables of the receiver.

The proposed site is not in an area described in §1.1307(a)(1) through §1.1307(a)(4); the facility will not involve a significant change in the

surface features of the land, the tower will not use high-intensity white lights at night, and there is no RFR hazard to humans at ground level when evaluated in accordance with OST-65. Therefore, the proposal is excluded from environmental processing under §1.1306.

In consideration of occupational health and safety, the applicant states that it will limit the exposure of persons authorized to climb the tower by turning the transmitter off during the time that such person is on the tower.

WILLIAM CULPEPPER & ASSOCIATES. INC.
227 FARR'S BRIDGE ROAD GREENVILLE SC 29611

J. H. COMMUNICATIONS
OCEAN CITY, MARYLAND

REFERENCE
38 25 15 N
75 08 02 W

CLASS A
Current rules spacings
CHANNEL 295 -106.9 MHz

DISPLAY DATES
DATA 03-26-92
SEARCH 05-12-92

CALL	CH#	CITY	STATE	BEAR'	D-KM	R-KM	MARGIN
WKDN	295B	Camden	NJ	1.0	165.26	178.0	-12.74 *
CP294	294A	North Cape May	NJ	17.1	62.48	72.0	-9.52 *
WQMR	296A	Federalburg	MD	305.8	65.75	72.0	-6.25 *
WAFX	295C	Suffolk	VA	218.6	229.49	226.0	3.49
WMYJ.C	293A	Pocomoke City	MD	222.9	52.08	31.0	21.08

Predicted Signal Contours:

38 25 15 - J. H. COMMUNICATIONS
 75 08 02 - OCEAN CITY, MARYLAND

ERP = 3 kW, 4.771 dBk		FM - 2-6 Tables					
Radial	HAAT	kW	dBk	Field	60 dBu.5	70 dBu.5	54 dBu.1
0 Degs.	99.8M	0.843	-0.743	0.530	17.8	9.9	26.2
5 Degs.	100.3M	0.843	-0.743	0.530	17.8	9.9	26.3
10 Degs.	100.4M	0.843	-0.743	0.530	17.8	9.9	26.3
15 Degs.	100.5M	0.859	-0.662	0.535	17.9	10.0	26.4
20 Degs.	101.2M	0.875	-0.581	0.540	18.1	10.0	26.7
25 Degs.	101.1M	0.875	-0.581	0.540	18.1	10.0	26.6
30 Degs.	101.4M	0.875	-0.581	0.540	18.1	10.1	26.7
35 Degs.	101.8M	1.109	0.449	0.608	19.3	10.7	28.4
40 Degs.	101.6M	1.367	1.357	0.675	20.3	11.2	29.9
45 Degs.	101.5M	1.688	2.272	0.750	21.4	11.8	31.6
50 Degs.	101.7M	2.142	3.308	0.845	22.6	12.5	33.8
55 Degs.	102.0M	2.556	4.075	0.923	23.6	13.1	35.5
60 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
65 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
70 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
75 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
80 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
85 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
90 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
95 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
100 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
105 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
110 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
115 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
120 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
125 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
130 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
135 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
140 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
145 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
150 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
155 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
160 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
165 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
170 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
175 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
180 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
185 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
190 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
195 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
200 Degs.	102.0M	3.000	4.771	1.000	24.5	13.6	37.0
205 Degs.	98.8M	3.000	4.771	1.000	24.1	13.4	36.4
210 Degs.	97.5M	3.000	4.771	1.000	23.9	13.3	36.1
215 Degs.	97.1M	3.000	4.771	1.000	23.9	13.3	36.1
220 Degs.	96.9M	3.000	4.771	1.000	23.9	13.2	36.0
225 Degs.	97.0M	3.000	4.771	1.000	23.9	13.2	36.0
230 Degs.	97.2M	3.000	4.771	1.000	23.9	13.3	36.1
235 Degs.	97.2M	3.000	4.771	1.000	23.9	13.3	36.1
240 Degs.	97.1M	3.000	4.771	1.000	23.9	13.3	36.1
245 Degs.	97.0M	3.000	4.771	1.000	23.9	13.2	36.0
250 Degs.	97.0M	3.000	4.771	1.000	23.9	13.2	36.0

Predicted Signal Contours:

38 25 15 - J. H. COMMUNICATIONS
 75 08 02 - OCEAN CITY, MARYLAND

ERP = 3 kW, 4.771 dBk FM - 2-6 Tables

Radial	HAAT	kW	dBk	Field	60 dBu.5	70 dBu.5	54 dBu.1
255 Degs.	97.1M	2.928	4.666	0.988	23.8	13.2	35.8
260 Degs.	96.9M	2.852	4.551	0.975	23.6	13.1	35.5
265 Degs.	96.7M	2.725	4.353	0.953	23.3	12.9	35.0
270 Degs.	96.7M	2.595	4.141	0.930	23.1	12.8	34.6
275 Degs.	96.7M	2.419	3.837	0.898	22.7	12.6	33.9
280 Degs.	96.7M	2.245	3.512	0.865	22.3	12.3	33.2
285 Degs.	96.8M	2.032	3.079	0.823	21.8	12.0	32.3
290 Degs.	97.0M	1.825	2.613	0.780	21.3	11.8	31.4
295 Degs.	97.4M	1.656	2.191	0.743	20.8	11.5	30.7
300 Degs.	98.0M	1.491	1.735	0.705	20.4	11.3	30.0
305 Degs.	98.0M	1.367	1.357	0.675	19.9	11.0	29.3
310 Degs.	96.5M	1.248	0.962	0.645	19.3	10.7	28.4
315 Degs.	96.5M	1.172	0.689	0.625	19.0	10.5	27.9
320 Degs.	96.8M	1.098	0.406	0.605	18.7	10.4	27.5
325 Degs.	96.7M	1.037	0.159	0.588	18.4	10.2	27.1
330 Degs.	96.9M	0.975	-0.111	0.570	18.2	10.1	26.8
335 Degs.	97.0M	0.941	-0.265	0.560	18.0	10.0	26.5
340 Degs.	98.1M	0.908	-0.422	0.550	17.9	10.0	26.5
345 Degs.	98.1M	0.891	-0.501	0.545	17.8	9.9	26.3
350 Degs.	98.8M	0.875	-0.581	0.540	17.8	9.9	26.3
355 Degs.	99.0M	0.859	-0.662	0.535	17.8	9.9	26.2

Ave. HAAT= 99.8M, Ant. COR= 102.0M AMSL

WILLIAM CULPEPPER & ASSOCIATES
05-12-1992

AP295 BPH901226MB
Channel= 295
Max ERP = 3 kW
RCAMSL = 102 M
N. Lat = 382515
W. Lng = 750802

WQMR BMLH891229KA
Channel = 296
Max ERP = 6 kW
RCAMSL = 114 M
N. Lat = 384602
W. Lng = 754446

Protected
60 dBu

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
285.0	2.032	96.8	21.8	135.5	6.000	104.8	46.0	53.5
286.0	1.990	96.8	21.7	135.0	6.000	104.7	45.9	53.5
287.0	1.948	96.9	21.6	134.5	6.000	104.7	45.8	53.5
288.0	1.907	96.9	21.5	134.0	6.000	104.6	45.8	53.6
289.0	1.866	97.0	21.4	133.6	6.000	104.6	45.7	53.6
290.0	1.825	97.0	21.3	133.1	6.000	104.5	45.6	53.6
291.0	1.791	97.1	21.2	132.6	6.000	104.4	45.6	53.6
292.0	1.757	97.2	21.1	132.1	6.000	104.3	45.5	53.6
293.0	1.723	97.2	21.0	131.7	6.000	104.2	45.5	53.6
294.0	1.689	97.3	20.9	131.2	6.000	104.1	45.5	53.6
295.0	1.656	97.4	20.8	130.7	6.000	104.0	45.5	53.6
296.0	1.622	97.5	20.7	130.3	6.000	103.9	45.4	53.6
297.0	1.589	97.6	20.6	129.8	6.000	103.8	45.5	53.6
298.0	1.556	97.8	20.5	129.3	6.000	103.7	45.5	53.6
299.0	1.523	97.9	20.4	128.9	6.000	103.6	45.5	53.6
300.0	1.491	98.0	20.4	128.4	6.000	103.6	45.5	53.6
301.0	1.466	98.1	20.3	127.9	6.000	103.5	45.5	53.6
302.0	1.441	98.2	20.2	127.5	6.000	103.5	45.6	53.5
303.0	1.416	98.2	20.1	127.0	6.000	103.5	45.6	53.5
304.0	1.391	98.1	20.0	126.6	6.000	103.5	45.7	53.5
305.0	1.367	98.0	19.9	126.2	6.000	103.5	45.8	53.5
306.0	1.343	97.7	19.8	125.7	6.000	103.5	45.9	53.4
307.0	1.319	97.4	19.7	125.3	6.000	103.5	46.0	53.4
308.0	1.295	97.1	19.6	124.9	6.000	103.5	46.2	53.3
309.0	1.271	96.8	19.4	124.5	6.000	103.5	46.3	53.3
310.0	1.248	96.5	19.3	124.1	6.000	103.4	46.5	53.2
311.0	1.233	96.1	19.2	123.7	6.000	103.4	46.6	53.1
312.0	1.217	95.9	19.1	123.3	6.000	103.4	46.8	53.1
313.0	1.202	95.8	19.1	122.9	6.000	103.3	46.9	53.0
314.0	1.187	96.1	19.0	122.5	6.000	103.3	47.0	53.0
315.0	1.172	96.5	19.0	122.1	6.000	103.2	47.1	52.9
316.0	1.157	96.7	19.0	121.7	6.000	103.1	47.2	52.9
317.0	1.142	96.8	18.9	121.4	6.000	103.1	47.3	52.8
318.0	1.127	96.8	18.8	121.0	6.000	103.0	47.5	52.8
319.0	1.113	96.8	18.8	120.6	6.000	102.9	47.6	52.7
320.0	1.098	96.8	18.7	120.3	6.000	102.9	47.8	52.6
321.0	1.086	96.7	18.7	120.0	6.000	102.8	48.0	52.6
322.0	1.074	96.7	18.6	119.6	6.000	102.8	48.1	52.5
323.0	1.061	96.7	18.5	119.3	6.000	102.7	48.3	52.4
324.0	1.049	96.7	18.5	119.0	6.000	102.7	48.5	52.4
325.0	1.037	96.7	18.4	118.7	6.000	102.6	48.7	52.3

This map is made from a portion of the USGS Digital Geodata Line Graph Map. The scale has been adjusted as shown.

WQMR CH 296
FEDERALSBURG, MD

54 dBu

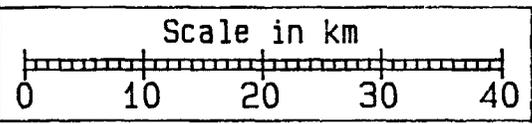
60 dBu

60 dBu

54 dBu

+ AP295
OCEAN CITY, MD

8



AP295	BPH901226MB	295A	3kW
WQMR	BMLH891229KA	296A	6kW

J. H. COMMUNICATIONS

WILLIAM CULPEPPER & ASSOCIATES
05-12-1992

AP295 BPH901226MB
Channel= 295
Max ERP = 3 kW
RCAMSL = 102 M
N. Lat = 382515
W. Lng = 750802

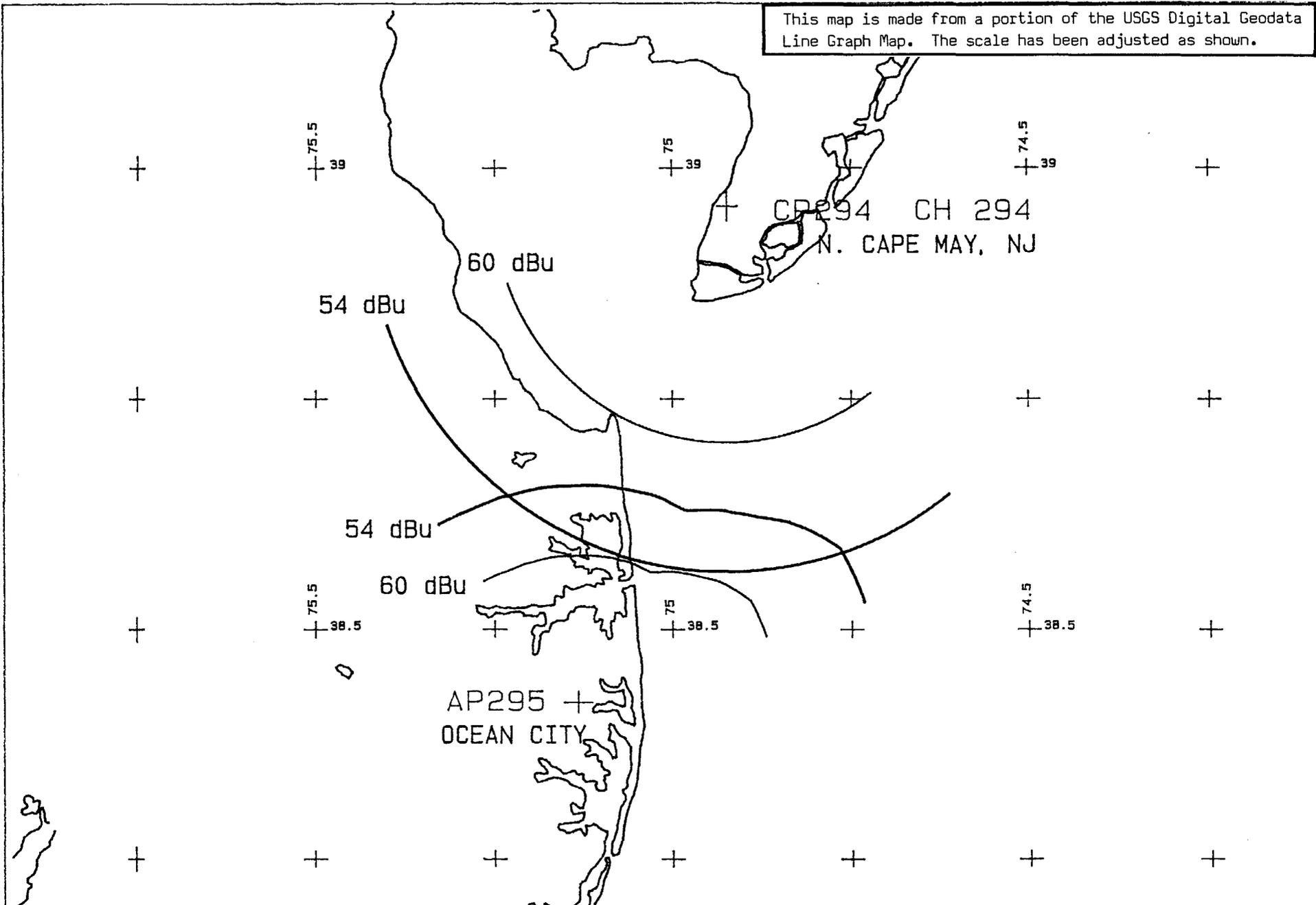
NORTH CAPE MAY, NJ
CP294 BPH880727MC
Channel = 294
Max ERP = 6 kW
RCAMSL = 101 M
N. Lat = 385732
W. Lng = 745523

Protected
60 dBu

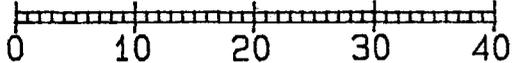
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
0.0	0.843	99.8	17.8	203.6	6.000	101.0	45.8	53.3
1.0	0.843	99.9	17.8	203.2	6.000	101.0	45.7	53.3
2.0	0.843	100.0	17.8	202.9	6.000	101.0	45.5	53.4
3.0	0.843	100.1	17.8	202.5	6.000	101.0	45.4	53.4
4.0	0.843	100.3	17.8	202.1	6.000	101.0	45.3	53.5
5.0	0.843	100.3	17.8	201.8	6.000	101.0	45.2	53.5
6.0	0.843	100.3	17.8	201.4	6.000	101.0	45.1	53.5
7.0	0.843	100.3	17.8	201.0	6.000	101.0	45.1	53.6
8.0	0.843	100.3	17.8	200.6	6.000	101.0	45.0	53.6
9.0	0.843	100.3	17.8	200.2	6.000	101.0	44.9	53.6
10.0	0.843	100.4	17.8	199.9	6.000	101.0	44.9	53.6
11.0	0.846	100.5	17.8	199.5	6.000	101.0	44.8	53.7
12.0	0.849	100.6	17.9	199.1	6.000	101.0	44.7	53.7
13.0	0.852	100.6	17.9	198.7	6.000	101.0	44.7	53.7
14.0	0.855	100.6	17.9	198.3	6.000	101.0	44.6	53.7
15.0	0.859	100.5	17.9	197.9	6.000	101.0	44.6	53.7
16.0	0.862	100.5	17.9	197.5	6.000	101.0	44.5	53.8
17.0	0.865	100.5	17.9	197.1	6.000	101.0	44.5	53.8
18.0	0.868	100.7	18.0	196.7	6.000	101.0	44.5	53.8
19.0	0.872	101.0	18.0	196.3	6.000	101.0	44.5	53.8
20.0	0.875	101.2	18.1	195.9	6.000	101.0	44.4	53.8
21.0	0.875	101.3	18.1	195.5	6.000	101.0	44.5	53.8
22.0	0.875	101.4	18.1	195.0	6.000	101.0	44.5	53.8
23.0	0.875	101.4	18.1	194.6	6.000	101.0	44.5	53.8
24.0	0.875	101.3	18.1	194.2	6.000	101.0	44.6	53.7
25.0	0.875	101.1	18.1	193.9	6.000	101.0	44.7	53.7
26.0	0.875	101.0	18.1	193.5	6.000	101.0	44.7	53.7
27.0	0.875	101.0	18.1	193.1	6.000	101.0	44.8	53.7
28.0	0.875	101.1	18.1	192.7	6.000	101.0	44.9	53.6
29.0	0.875	101.3	18.1	192.3	6.000	101.0	44.9	53.6
30.0	0.875	101.4	18.1	191.9	6.000	101.0	45.0	53.6
31.0	0.919	101.5	18.3	191.4	6.000	101.0	44.9	53.6
32.0	0.965	101.5	18.6	190.9	6.000	101.0	44.8	53.7
33.0	1.012	101.6	18.8	190.4	6.000	101.0	44.7	53.7
34.0	1.060	101.7	19.1	189.9	6.000	101.0	44.6	53.7
35.0	1.109	101.8	19.3	189.4	6.000	101.0	44.5	53.8
36.0	1.158	101.8	19.5	188.9	6.000	101.0	44.5	53.8
37.0	1.209	101.8	19.7	188.4	6.000	101.0	44.5	53.8
38.0	1.260	101.8	19.9	187.8	6.000	101.0	44.4	53.8
39.0	1.313	101.7	20.1	187.3	6.000	101.0	44.5	53.8
40.0	1.367	101.6	20.3	186.8	6.000	101.0	44.5	53.8

This map is made from a portion of the USGS Digital Geodata Line Graph Map. The scale has been adjusted as shown.



Scale in km



AP295
CP294

BPH901226MB
BPH880727MC

295A 3kW
294A 6kW

J. H. COMMUNICATIONS
OCEAN CITY, MD

Shively Labs, a division of Howell Laboratories, Inc.

BRIDGTON, MAINE 04009
TWX 710-223-8910 SHIVELY BRGT

(207) 647-3327
FAX (207) 847-8273

Preliminary Test Report 6810-2R-DA

for

New FM, Ocean City, Maryland

SUPERVISION:

The tests were carried out under the direction of Robert A. Surette, Manager of RF Engineering. Mr. Surette was graduated from Lowell Technical Institute, Lowell Massachusetts in 1973 with the degree of Bachelor of Science in Electrical Engineering. He has been directly involved with both full size and scale model pattern measurements since 1974, as an RF Engineer with Shively Labs and with Dielectric Communications (a unit of General Signal) in Raymond, Maine. He is currently an Associate Member of the Association of Federal Communications Consulting Engineers and a Member of IEEE.

EQUIPMENT:

The scale model pattern range consists of a wooden rotating pedestal equipped with a position indicator. The scale model bay is placed on the top of this pedestal and is used in the transmission mode at approximately 20 ft. above ground level. The receiving corner reflector is spaced 50 ft. away from the rotating pedestal at the same level above ground as the transmitting model. The transmitting and receiving signals are carried to a control building by means of RG-9/U double shielded coax cable. The control building is equipped with:

1. Wavetek synthesized signal generator
Model 3510
2. AW/ARR-4 receiver with a CU-253/ALR
frequency converter
3. Heathkit chart recorder modified to
polar recorder

Test Report 6810-2R-DA
Ocean City, MD
Page Two

TEST PROCEDURES:

The corner reflector is mounted so that the horizontal and vertical azimuth patterns are measured independently by rotating the corner reflector by 90°. The oscillator is set to the appropriate frequency, and the receiver is tuned to the frequency by maximizing the received output. Calibrated pads are used to check the linearity of the measuring system. For example, 6 dB padding yields a scale reading 50 from an unpadding reading of 100 in voltage. From the recorded patterns, the RMS values are calculated and recorded as shown in Figure 1.

Respectfully submitted by,



Robert A. Surette
Manager of RF Engineering
Inquiry #910376
May 12, 1992

TABULATION OF COMPOSITE PATTERN
New FM Ocean City, Maryland

DEGREE	RELATIVE FIELD	DEGREE	RELATIVE FIELD
0	0.530	180	1.000
10	0.530	190	1.000
20	0.540	200	1.000
30	0.540	210	1.000
40	0.675	220	1.000
45	0.750	225	1.000
50	0.845	230	1.000
60	1.000	240	1.000
70	1.000	250	1.000
80	1.000	260	0.975
90	1.000	270	0.930
100	1.000	280	0.865
110	1.000	290	0.780
120	1.000	300	0.705
130	1.000	310	0.645
135	1.000	315	0.625
140	1.000	320	0.605
150	1.000	330	0.570
160	1.000	340	0.550
170	1.000	350	0.540

Shively Labs

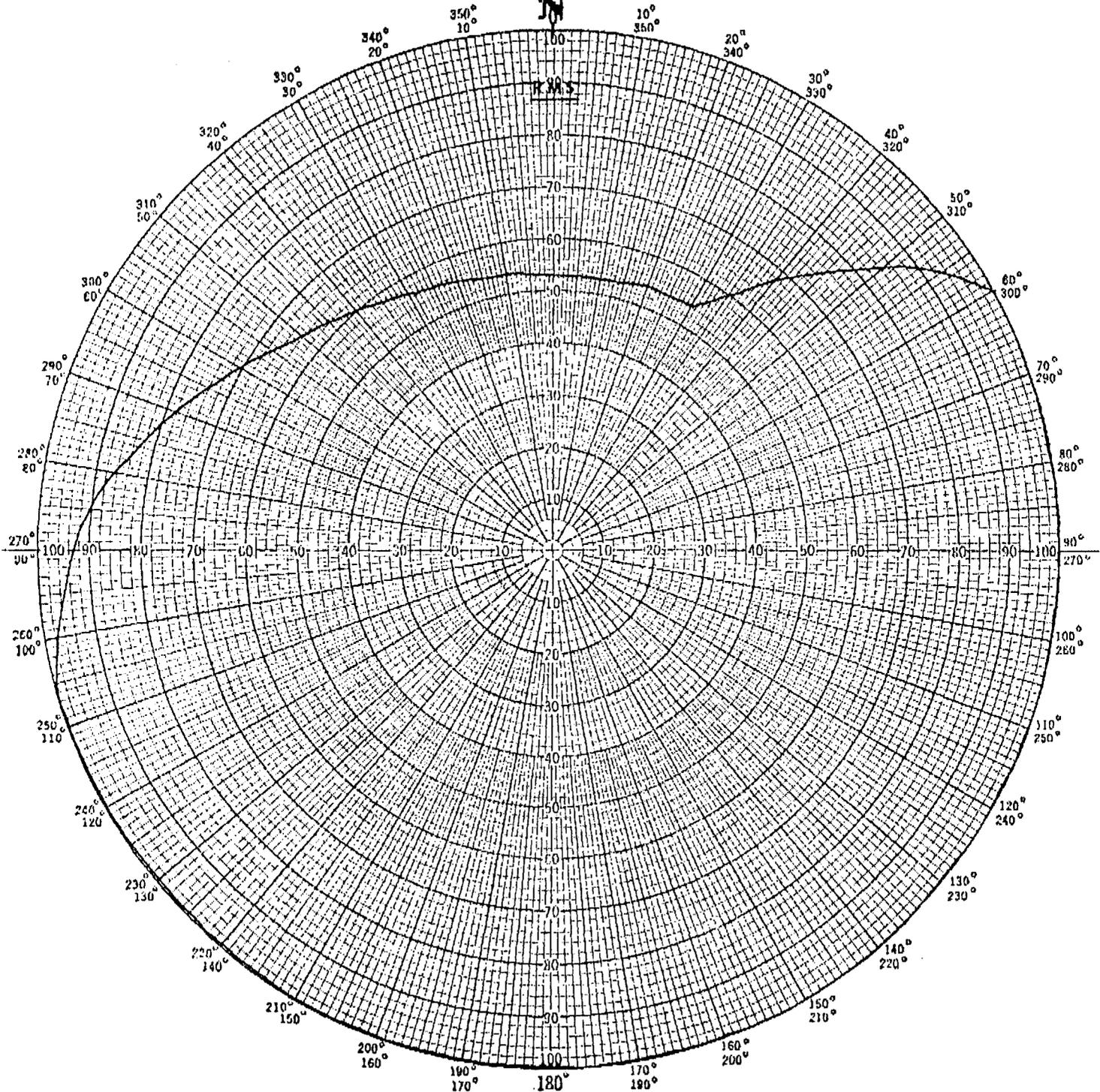
PROJECT NAME New FM Ocean City, Maryland

ANTENNA TYPE 6810-2R-DA

PROJECT NUMBER 910376

DATE _____

PATTERN TYPE Directional Azimuth



MODEL () FULL SCALE () FREQUENCY 481.05/106.9 MHz

REMARKS: _____

POLARIZATION Composite

CURVE PLOTTED IN: VOLTAGE () POWER () DB ()

OBSERVER RAS

SHIVELY LABS, A DIVISION OF HOWELL LABORATORIES, INC. BRIDGTON, ME 04009 (207) 647-3327