



PUBLIC NOTICE

Federal Communications Commission
445 12th St., S.W.
Washington, D.C. 20554

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February 28, 2002

WIRELESS TELECOMMUNICATIONS BUREAU ACTION

THE PHILADELPHIA METROPOLITAN AREA (REGION 28) RECEIVES APPROVAL FOR MINOR AMENDMENTS TO ITS PUBLIC SAFETY PLAN (GENERAL DOCKET NO. 89-573)

By this Public Notice, the Wireless Telecommunications Bureau (Bureau) announces that the New England Area (Region 28)¹ Radio Planning Committee's proposal to amend the Region 28 Public Safety Regional Plan is approved. On September 13, 2001, Region 28 filed an amendment, which revises the current channel allotments for radio frequencies in the 821-824/866-869 MHz bands within the Philadelphia Metropolitan area, and reflects changes made as a result of its Filing Window 6B assignments.²

In accordance with the National Public Safety Plan, each region is responsible for planning its use of public safety radio frequency spectrum in the 821-824/866-869 MHz bands.³ The Region 28 Plan was originally adopted by the Commission on February 2, 1990,⁴ and was subsequently amended by Public Notice on December 16, 1993, September 11, 1998, and February 9, 2001.⁵

¹ Region 28 includes Eastern Pennsylvania, Southern New Jersey and Delaware.

² See Region 28 Radio Planning Committee letter and amendment dated Sept. 12, 2001, filed by Richard R. Reynolds, Chairman, Region 28 on Sept. 13, 2001 (*September 13 Amendment*). The amendment includes letters of concurrence from Regions 8 (New York Metropolitan Area), 20 (District of Columbia, Maryland & Northern Virginia), and 36 (Western Pennsylvania).

³ See Development and Implementation of a Public Safety National Plan and Amendment to Part 90 to Establish Service Rules and Technical Standards for Use of the 821-824/766-869 MHz Bands by the Public Safety Services, *Report and Order*, Gen. Docket No. 87-112, 3 FCC Rcd 905 (1987).

⁴ See Philadelphia Metropolitan Area (Region 28) Public Safety Plan, *Order*, Gen. Docket No. 89-573, 5 FCC Rcd 764 (1990).

⁵ The Philadelphia Metropolitan Area Public Safety Plan (Region 28) was amended by *Public Notice* on Dec. 16, 1993, Sept. 11, 1998 and Feb. 9, 2001. See The Philadelphia Metropolitan Area Public Safety Plan (Region 28), Public Safety Planning Update Committee Receives Approval for Minor Amendment to Its Public Safety Plan, *Public Notice*, Gen. Docket No. 89-573, 9 FCC Rcd 82 (1994); 1998 WL 598470 (FCC), and 16 FCC Rcd 2988 (2001).

On October 16, 2001, the Bureau issued a *Public Notice* (DA 01-2385) inviting interested parties to file comments regarding a proposed amendment to the Region 28 Plan.⁶ We have reviewed the Region 28 *September 13 Amendment* request. Filing Window 6B includes those applications whose interfering contours extended beyond the Region 28 boundaries for which Region 28 requested and received letters of concurrence from adjacent Regions 8, 20, and 36. In addition, Region 28 stated that no response was received from Regions 30 (New York - Albany) and 55 (New York - Buffalo), as there was no impact to their Regions from any of the Filing Window 6B assignments. Further, we received no comments in response to the Public Notice of October 16, 2001. The amendment therefore, is accepted and approved as submitted. The Secretary's office will place the amended Region 28 Plan in the official docket file where it will remain available to the public.

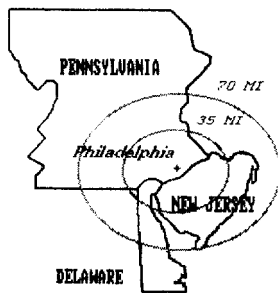
Questions regarding this public notice may be directed to Joy Alford, Wireless Telecommunications Bureau (202) 418-0694.

Action by Acting Chief, Public Safety and Private Wireless Division, Wireless Telecommunications Bureau.

- FCC -

⁶ See Wireless Telecom Action, Comments Invited on Philadelphia Metropolitan Area (Region 28) Public Safety Plan Amendment, Gen. Docket 89-573, *Public Notice*, 16 FCC Rcd 18487 (2001).

DOCKET FILE COPY ORIGINAL



REGION 28 PLANNING UPDATE COMMITTEE

EASTERN PENNSYLVANIA, SOUTHERN NEW JERSEY, and DELAWARE

*Office of Information Services
Telecommunication Technologies
801 Silver Lake Blvd.
Dover, DE 19904-2407*

Richard R. Reynolds, Chairman
Judith R. Brackin, Secretary

VOICE: (302) 739-9648 FAX: (302) 739-9642
VOICE: (610) 344-5000 FAX: (610) 344-5050

September 12, 2001

Secretary
Federal Communications Commission
Office of the Secretary
445 12th Street, SW
Room TW-204B
Washington, DC 20554

RECEIVED

SEP 13 2001

FCC MAIL ROOM

RE: Application to Amend:
GN Docket No. 89-573 ✓
Philadelphia Metropolitan Area
Regional Public Safety Plan (Region 28)
Filing Window 6B assignments

Dear Sir or Madam:

Please accept this letter as our official filing request for approval of our Filing Window 6B. Filing Window 6 was divided into two parts (6A & 6B) to expedite the assignment process. The FCC approved filing window 6A under docket DA 01-328 on February 9, 2001. We are now seeking approval of Window 6B, which included those applications whose 5 dBu contours extended beyond the Region 28 boundaries for which we had requested and received letters of concurrence (LOC) from adjacent Regions 8, 20, and 36. No response was received from Regions 30 and 55, as there was no impact to their Regions from any of the Window 6B assignments.

Attached to this letter is a listing the channel assignments sorted by applicant for our Window 6B as approved by Region 28 at our July 12, 2001 meeting and copies of the LOCs from Region 8, 20, and 36.

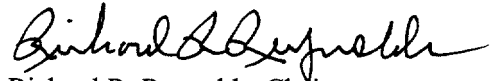
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Secretary
Federal Communications Commission
GN Docket No. 89-573
Page 2

Your prompt consideration and approval of our filing Window 6B would be greatly appreciated. If there are any questions concerning any of the attachments to this letter please call me at 302-739-9648 or e-mail me at rreynolds@state.de.us.

Sincerely,



Richard R. Reynolds, Chairman,
Region 28 PUC

Attachments:

Bcc: Paul Einreinhofer, Region 8
Alan Kealey, Region 20
Paul Schonewolf, Region 30
Donald Appleby, Region 36
Harold Miller, Region 55

Region 28 Window 6B Cannel Assignments

These assignments are based upon the Region 28 assignment matrix as modified to include all current adjacent Region filing Window results. Interference contour maps are attached which justifies these assignments based on the sites considered.

APPLICANT	SITE LOCATION	CHANNEL	CONDITIONS OF APPROVAL	LOC
Commonwealth of Pennsylvania	Newtown, Site A, Bucks County	698	NONE	YES
Commonwealth of Pennsylvania	Concord, Site B, Delaware County	675	NONE	YES
Commonwealth of Pennsylvania	Lower Merion, Site C, Montgomery County	637	NONE	YES
Commonwealth of Pennsylvania	Windsor, Site D, York County	673	NONE	YES
Commonwealth of Pennsylvania	West Marlborough, Site E, Chester County	817	NONE	YES
Commonwealth of Pennsylvania	Upper Oxford, Site F, Chester County	721	NONE	YES
Commonwealth of Pennsylvania	Marple, Site AA, Delaware County	810	NONE	YES
Commonwealth of Pennsylvania	Condorus, Site BB, York County	725	NONE	YES
Commonwealth of Pennsylvania	Harrisburg, Site DD, Dauphin County	621, 643, 676, 710, 754	NONE	YES
Commonwealth of Pennsylvania	Hershey, Site EE, Dauphin County	630, 666, 687, 712, 771	NONE	YES
Commonwealth of Pennsylvania	Rattling Run, Site FF, Dauphin County	668, 679, 730, 824	NONE	YES
Commonwealth of Pennsylvania	Rattling Run, Site FF, Dauphin County	659	Shell provide protection to Harford Co., MD should there be harmful interference	YES
State of Delaware	Winterthur, New Castle County	623, 649, 663, 685, 699, 726, 777, 791	NONE	YES
State of Delaware	Hockessin, New Castle County	640, 696, 709, 758, 797	NONE	YES
State of Delaware	Hockessin, New Castle County	660, 735	Shell provide protection to Harford Co., MD should there be harmful interference	YES
State of Delaware	Hartly, Kent County	612, 751, 800, 820	NONE	YES
State of Delaware	Hartly, Kent County	658	Shell provide protection to Harford Co., MD should there be harmful interference	YES
State of Delaware	Rehoboth Beach, Sussex County	616, 646, 671, 738, 764, 794	NONE	YES
County of Chester, Pennsylvania	Glen Run	706	NONE	YES
County of Chester, Pennsylvania	Forestville	706	NONE	YES
County of Chester, Pennsylvania	Coatesville	737, 775, 815	NONE	YES
County of Chester, Pennsylvania	Downingtown	737, 775	NONE	YES
County of Chester, Pennsylvania	WPLY	737	NONE	YES
County of Chester, Pennsylvania	Spring City	737	NONE	YES
County of Chester, Pennsylvania	Elverson	737, 815	NONE	YES
County of Chester, Pennsylvania	New Garden	706, 737, 775, 815	NONE	YES
County of Chester, Pennsylvania	Octotaro	706	NONE	YES
County of Chester, Pennsylvania	Pococson	706, 737, 775, 815	NONE	YES

** LOC = Letter of Concurrence from Adjacent Regions

Region 36 Planning Committee
Western Pennsylvania

Donald R. Appleby, Jr., Chairman
Governor's Office of Administration
Commonwealth of Pennsylvania
One Technology Park, Room 190
Harrisburg, PA 17110-2913

(717) 772-8006 (voice) dappleby@state.pa.us (717) 772-8097 (fax)

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SEP 13 2001
FCC MAIL ROOM

June 12, 2001

JUN 18 2001

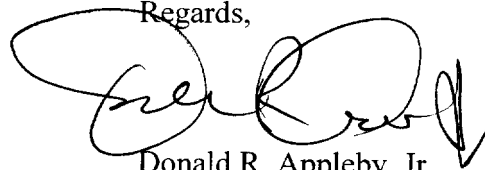
Richard R. Reynolds
Telecommunications Consultant
State of Delaware
Office of Telecommunications Management
801 Silver Lake Blvd.
Dover, Delaware 19901-2460

Dear Mr. Reynolds:

As Chairman of Regional Planning Committee 36 (Region 36), please be advised that Region 36 concurs with the Window 6B amendment for Region 28.

Please contact me at (717) 772-8006 with questions or concerns.

Regards,



Donald R. Appleby, Jr.
Chairman

**TRI-STATE RADIO PLANNING COMMITTEE
REGIONAL PLANNING UPDATE COMMITTEE**

FCC - REGION 8

Paul Einreinhofer, Chairman
Bergen County Police Dept.
327 Ridgewood Avenue
Paramus, New Jersey 07652



FCC CT. N.J. N.Y.

POLICE
FIRE
HIGHWAY
LOCAL GOV'T
EMRS
SERS

May 31, 2001

Mr. Richard R. Reynolds, Chairman
Region 28 Planning Update Committee
801 Silver Lake Blvd.
Dover DE 19904-2407

Re: Region 28 Window 6B Filing

Dear Richard,

This correspondence gives the approval of Region 8 to the above referenced Region 28 window filing. Region 8 does not find any problem with the filing.

By direction of the Region 8 Chairman.

Sincerely,

Vincent R. Stile
Corresponding Secretary
FCC Region 8

cc: Paul Einreinhofer, Chairman
RPUC, Region 8

Region 20 - 821 MHz Planning Committee
District of Columbia, State of Maryland and Northern Virginia

Alan T. Kealey, Chairman
Maryland Department of Natural Resources
580 Taylor Avenue, E-3
Annapolis, Maryland 21401

410-260-8887

akealey@dnr.state.md.us

410-260-8878 (fax)

June 15, 2001

Mr. Richard R. Reynolds, Chairman
Region 28 RPRC
Office of Information Services
Telecommunications Technologies
801 Silver Lake Blvd.
Dover, DE 19904-2407

JUN 18 2001

RE: Region 20 -- 821 MHz Review of Region 28 Window 6B Filing

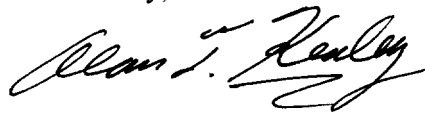
Dear Mr. ^{*Dick*} Reynolds:

On May 23, 2001 the Region 20 Technical Subcommittee completed its review of your Window 6B Filing. The enclosed seven pages contain a channel by channel review indicating: approval, disapproval or approved with conditions. All concurrences are based on the data submitted with your Window 6B letters dated February 12, 2001 and May 7, 2001.

Thank you for your patience, and also for sending the Chester County maps showing the actual contours.

Please feel free to contact me at 410-260-8887 if you have any questions.

Sincerely,



Alan T. Kealey, Chairman
Region 20 - 821 MHz

cc: Region 20, 821 MHz RPRC

Enclosure: Region 20 821MHz Concurrences of Region 28 Window 6B

Region 20 — 821MHz

Technical Subcommittee Review of Region 28 Window 6B Filing

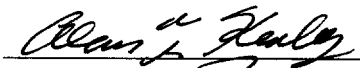
CHANNEL	APPLICANT & SITE IDENTIFICATION	COMMENTS	CONCURRENCE
698	PA — New town, Site A, Bucks County		Approved
675	PA — Concord, Site B, Delaware County		Approved
637	PA — Lower Merion, Site C, Montgomery County		Approved
673	PA — Windsor, Site D, York County		Approved
817	PA — West Marlborough, Site E, Chester County		Approved
721	Upper Oxford, Site F, Chester County		Approved
810	PA — Marple, Site AA, Delaware County		Approved
725	PA — Condorus, Site BB, York County		Approved
620	PA — North Hopewell, Site CC, York County	Co-channel with B.W.I. Airport Adj-channel with Harford County, MD	<i>Disapproved</i>
621	PA — Harrisburg, Site DD, Dauphin County		Approved
643	PA — Harrisburg, Site DD, Dauphin County		Approved
676	PA — Harrisburg, Site DD, Dauphin County		Approved
710	PA — Harrisburg, Site DD, Dauphin County		Approved

Approved / *Disapproved* as shown above:


 Alan T. Kealey

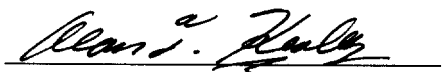
CHANNEL	APPLICANT & SITE IDENTIFICATION	COMMENTS	CONCURRENCE
754	PA — Harrisburg, Site DD, Dauphin County		Approved
630	PA — Hershey, Site EE, Dauphin County		Approved
666	PA — Hershey, Site EE, Dauphin County		Approved
687	PA — Hershey, Site EE, Dauphin County		Approved
712	PA — Hershey, Site EE, Dauphin County		Approved
771	PA — Hershey, Site EE, Dauphin County		Approved
628	PA — Rattling Run, Site FF, Dauphin County		Approved
659	PA — Rattling Run, Site FF, Dauphin County	Pennsylvania shall provide protection to Harford County, MD should there be harmful interference	<i>Approved pending comments added to authorization.</i>
679	PA — Rattling Run, Site FF, Dauphin County		Approved
730	PA — Rattling Run, Site FF, Dauphin County		Approved
824	PA — Rattling Run, Site FF, Dauphin County		Approved
623	DE — Winterthur, New Castle County		Approved
649	DE — Winterthur, New Castle County		Approved
663	DE — Winterthur, New Castle County		Approved
685	DE — Winterthur, New Castle County		Approved
699	DE — Winterthur, New Castle County		Approved
726	DE — Winterthur, New Castle County		Approved
777	DE — Winterthur, New Castle County		Approved

Approved / ***Disapproved*** as shown above:


 Alan T. Kealey

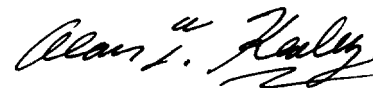
CHANNEL	APPLICANT & SITE IDENTIFICATION	COMMENTS	CONCURRENCE
791	DE — Winterthur, New Castle County		Approved
620	DE — Hockessin, New Castle County	Co-channel to B.W.I. Airport Adj-channel to Harford County, Maryland	<i>Disapproved</i>
640	DE — Hockessin, New Castle County		Approved
660	DE — Hockessin, New Castle County	State of Delaware shall provide protection to Harford County, MD should there be harmful interference	<i>Approved pending comments added to authorization.</i>
696	DE — Hockessin, New Castle County		Approved
709	DE — Hockessin, New Castle County		Approved
735	DE — Hockessin, New Castle County	State of Delaware shall provide protection to Harford County, MD should there be harmful interference	<i>Approved pending comments added to authorization.</i>
758	DE — Hockessin, New Castle County		Approved
797	DE — Hockessin, New Castle County		Approved
612	DE — Hartly, Kent County, DE		Approved
658	DE — Hartly, Kent County, DE	State of Delaware shall provide protection to Harford County, MD should there be harmful interference.	<i>Approved pending comments added to authorization.</i>
751	DE — Hartly, Kent County, DE		Approved
800	DE — Hartly, Kent County, DE		Approved
820	DE — Hartly, Kent County, DE		Approved
616	DE — Rehoboth Beach, Sussex County		Approved
646	DE — Rehoboth Beach, Sussex County		Approved
671	DE — Rehoboth Beach, Sussex County		Approved

Approved / *Disapproved* as shown above:


Alan T. Kealey

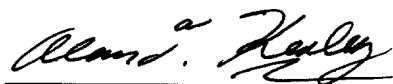
CHANNEL	APPLICANT & SITE IDENTIFICATION	COMMENTS	CONCURRENCE
738	DE — Rehoboth Beach, Sussex County		Approved
764	DE — Rehoboth Beach, Sussex County		Approved
794	DE — Rehoboth Beach, Sussex County		Approved
706	Chester County — Valley Forge		Approved
719	Chester County — Valley Forge	Co-channel with Queen Anne's & Talbot Counties, MD	<i>Disapproved</i>
737	Chester County — Valley Forge		Approved
775	Chester County — Valley Forge		Approved
815	Chester County — Valley Forge		Approved
706	Chester County — Glen Run		Approved
719	Chester County — Glen Run	Co-channel with Queen Anne's & Talbot Counties, MD	<i>Disapproved</i>
737	Chester County — Glen Run		Approved
775	Chester County — Glen Run		Approved
815	Chester County — Glen Run		Approved
706	Chester County — Forestville		Approved
719	Chester County — Forestville	Co-channel with Queen Anne's & Talbot Counties, MD	<i>Disapproved</i>
737	Chester County — Forestville	Adj-channel with Harford County, MD	<i>Disapproved</i>
775	Chester County — Forestville	Co-channel with Baltimore City, MD	<i>Disapproved</i>
815	Chester County — Forestville	Adj-channel with Harford County, MD	<i>Disapproved</i>
706	Chester County — Coatsville		Approved

Approved / *Disapproved* as shown above:



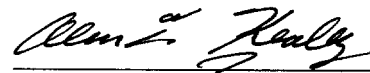
Alan T. Kealey

CHANNEL	APPLICANT & SITE IDENTIFICATION	COMMENTS	CONCURRENCE
719	Chester County – Coatsville	Co-channel with Queen Anne's & Talbot Counties, MD	<i>Disapproved</i>
737	Chester County – Coatsville		Approved
775	Chester County – Coatsville		Approved
815	Chester County – Coatsville		Approved
706	Chester County – Baron Hills		Approved
719	Chester County – Baron Hills	Co-channel with Queen Anne's & Talbot Counties, MD	<i>Disapproved</i>
737	Chester County – Baron Hills		Approved
775	Chester County – Baron Hills	Chester County shall provide protection to Baltimore City, MD should there be harmful interference	<i>Approved pending comments added to authorization.</i>
815	Chester County – Baron Hills		Approved
706	Chester County – Downingtown		Approved
719	Chester County – Downingtown	Co-channel with Queen Anne's & Talbot Counties, MD	<i>Disapproved</i>
737	Chester County – Downingtown		Approved
775	Chester County – Downingtown		Approved
815	Chester County – Downingtown		Approved
706	Chester County – WPLY		Approved
719	Chester County – WPLY		Approved
737	Chester County – WPLY		Approved
775	Chester County – WPLY		Approved
815	Chester County – WPLY		Approved
706	Chester County – Wayne		Approved
719	Chester County – Wayne		Approved
737	Chester County – Wayne		Approved

Approved / *Disapproved* as shown above: 
 Alan T. Kealey
 Chairman Region 20 – 821 MHZ

CHANNEL	APPLICANT & SITE IDENTIFICATION	COMMENTS	CONCURRENCE
775	Chester County – Wayne		Approved
815	Chester County – Wayne		Approved
706	Chester County – Bucktown		Approved
719	Chester County – Bucktown	Co-channel with Queen Anne's & Talbot Counties, MD	<i>Disapproved</i>
737	Chester County – Bucktown		Approved
775	Chester County – Bucktown		Approved
815	Chester County – Bucktown		Approved
706	Chester County – Spring City		Approved
719	Chester County – Spring City		Approved
737	Chester County – Spring City		Approved
775	Chester County – Spring City		Approved
815	Chester County – Spring City		Approved
706	Chester County – Elverson		Approved
719	Chester County – Elverson	Co-channel with Queen Anne's & Talbot Counties, MD	<i>Disapproved</i>
737	Chester County – Elverson		Approved
775	Chester County – Elverson	Co-channel with Baltimore City, MD	<i>Disapproved</i>
815	Chester County – Elverson		Approved
706	Chester County – New Garden		Approved
719	Chester County – New Garden	Co-channel with Queen Anne's & Talbot Counties, MD	<i>Disapproved</i>
737	Chester County – New Garden		Approved
775	Chester County – New Garden		Approved
815	Chester County – New Garden		Approved
706	Chester County – Octotaro		Approved

Approved / *Disapproved* as shown above:

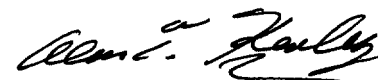


Alan T. Kealey

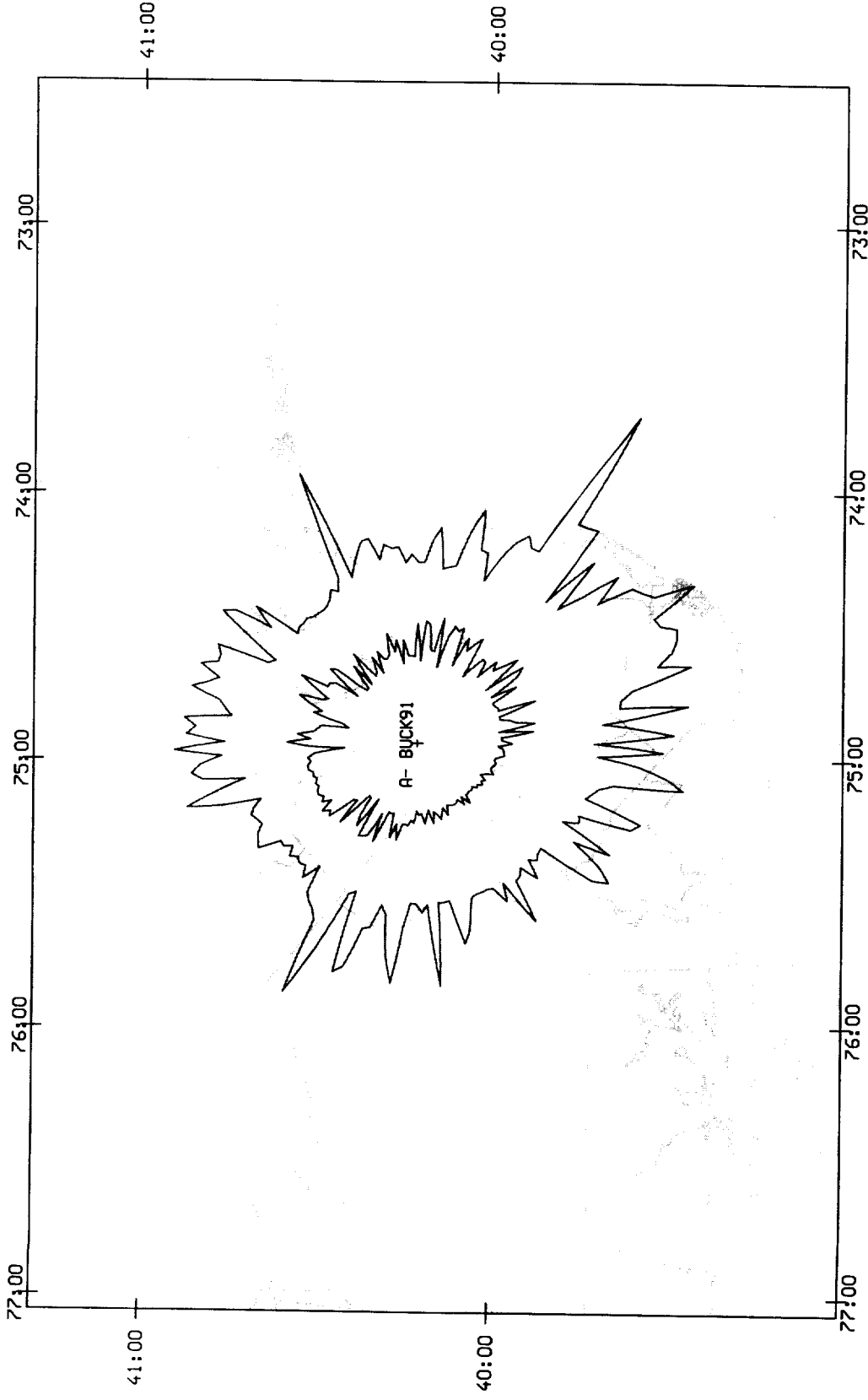
CHANNEL	APPLICANT & SITE IDENTIFICATION	COMMENTS	CONCURRENCE
719	Chester County — Octotaro	Co-channel with Queen Anne's & Talbot Counties, MD	<i>Disapproved</i>
737	Chester County — Octotaro	Adj-channel with Harford County, MD	<i>Disapproved</i>
775	Chester County — Octotaro	Co-channel with Baltimore City, MD	<i>Disapproved</i>
815	Chester County — Octotaro	Adj-channel with Harford County, MD	<i>Disapproved</i>
706	Chester County — Pocopson		Approved
719	Chester County — Pocopson	Co-channel with Queen Anne's & Talbot Counties, MD	<i>Disapproved</i>
737	Chester County — Pocopson		Approved
775	Chester County — Pocopson		Approved
815	Chester County — Pocopson		Approved
706	Chester County — Lionville		Approved
719	Chester County — Lionville	Co-channel with Queen Anne's & Talbot Counties, MD	<i>Disapproved</i>
737	Chester County — Lionville		Approved
775	Chester County — Lionville		Approved
815	Chester County — Lionville		Approved

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Approved / *Disapproved* as shown above:



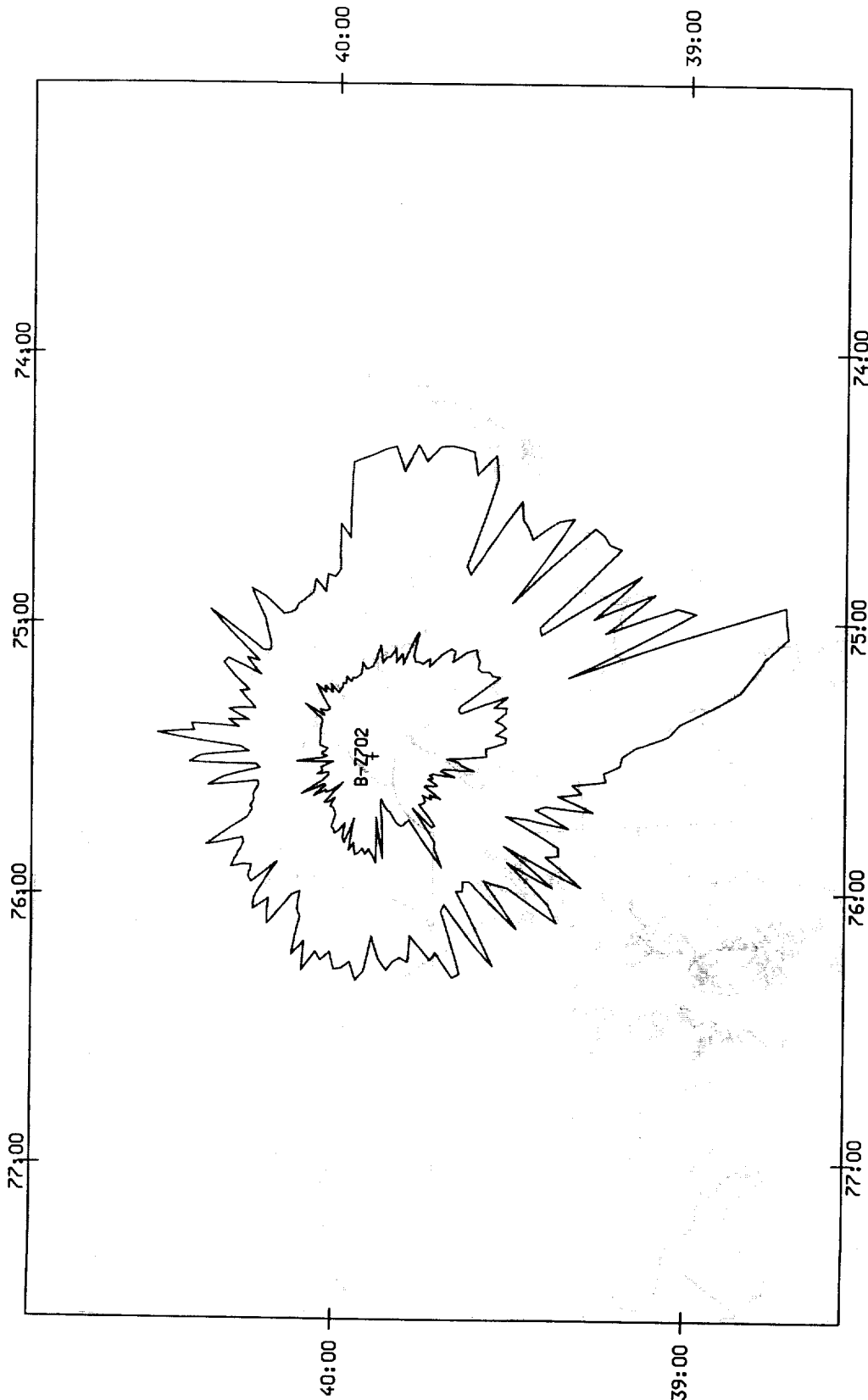
Alan T. Kealey



Interference Contours 5/25 dBU F(50/50)

Location: Commonwealth of Pennsylvania Window 6
 Engineer: Type: OMni 3 DT 100 ERP 195'
 Date: Sep 21 2000 Prepared for: Okumura-Hata-Davidson Adaptive
 Number of sites: 1 File: /state/norm/foo.hpg1

A- BUCK91 Newtown, Bucks County, PA
 SIGNAL STRENGTH RANGES:
 > 25 dBU
 25 to 5 dBU



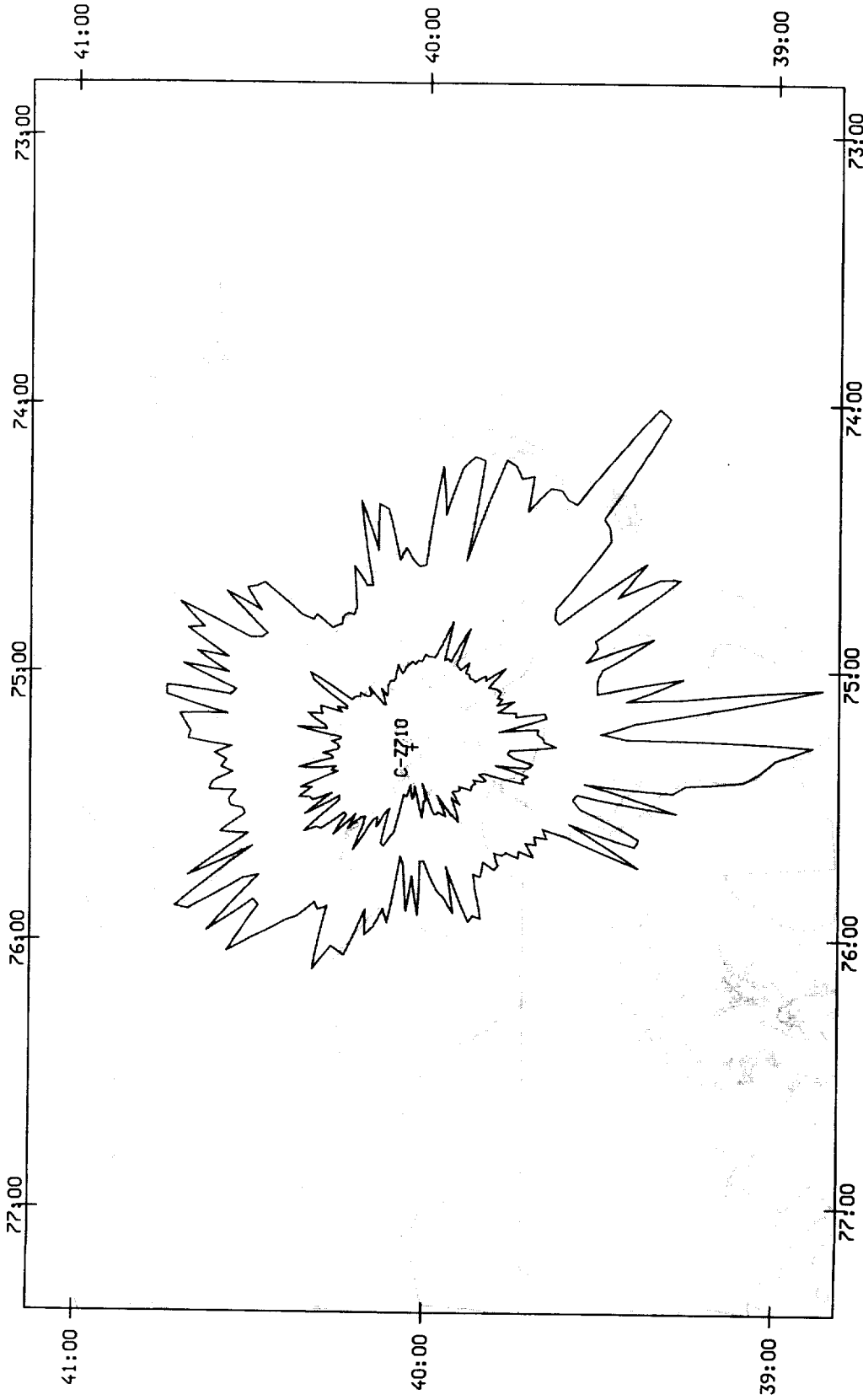
Interference Contours 5/25 dBu F(50/50)

Location: Commonwealth of Pennsylvania Window 6
 Engineer: Type: Omni 3DT 100 ERP 75'
 Date: Sep 21 2000 Prepared for: Okumura-Hata-Davidson Adaptive
 File: /state/norm/foo.hpgl Number of sites: 1

B-Z702 Concord, Delaware County, PA

SIGNAL STRENGTH RANGES:

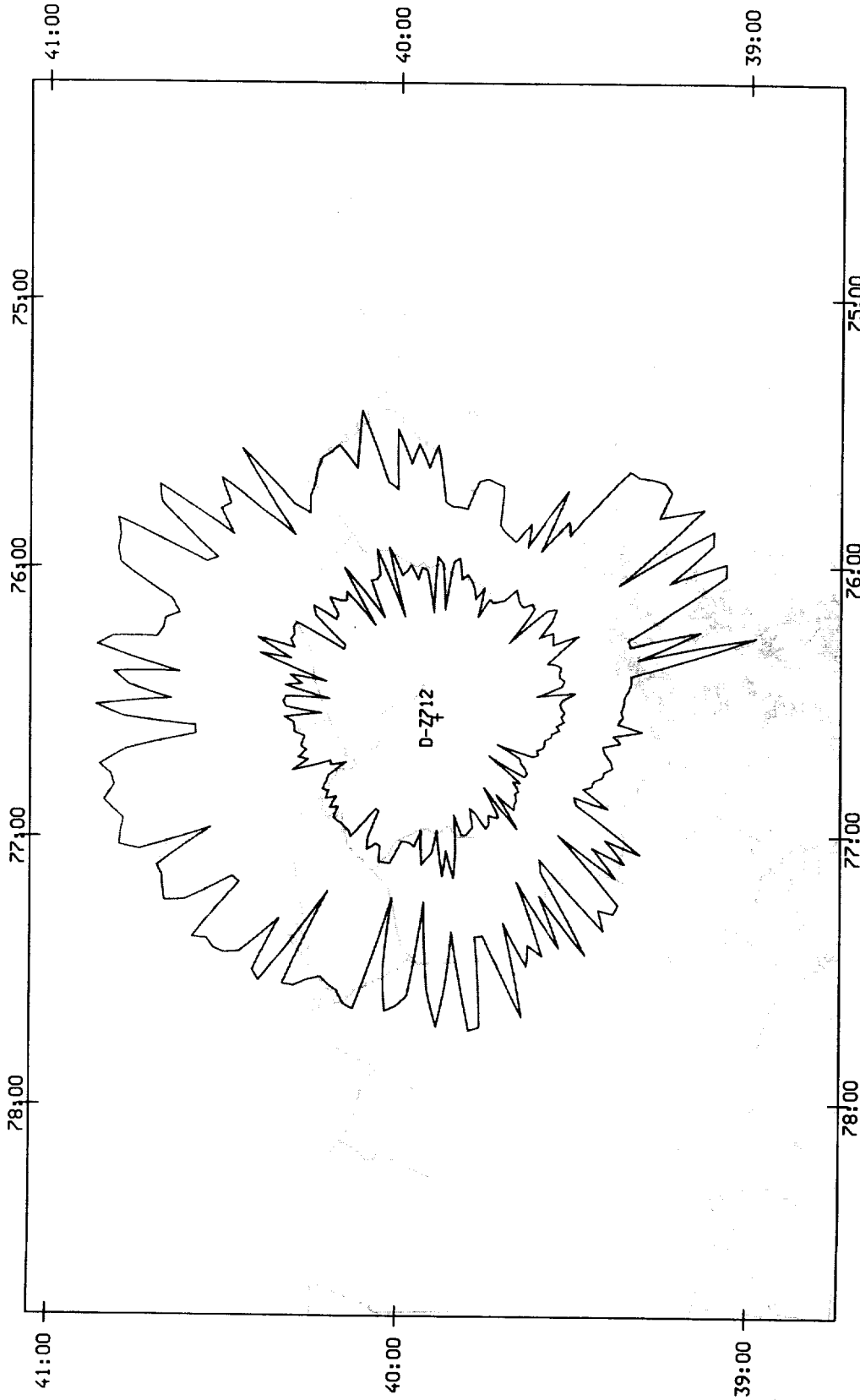
> 25 dBu
 25 to 5 dBu



Interference Contours 5/25 dBu F(50/50)

Location: Commonwealth of Pennsylvania Window 6 Scale: 1 inch = 32 miles
 Engineer: Type: Omni 3DT 100 ERP 75'
 Date: Sep 21 2000 Prepared for: Okumura-Hata-Davidson Adaptive
 Number of sites: 1 File: /state/norm/foe.hpg1

C-7710 Lower Merion, Montgomery County, PA
 SIGNAL STRENGTH RANGES:
 > 25 dBu
 25 to 5 dBu



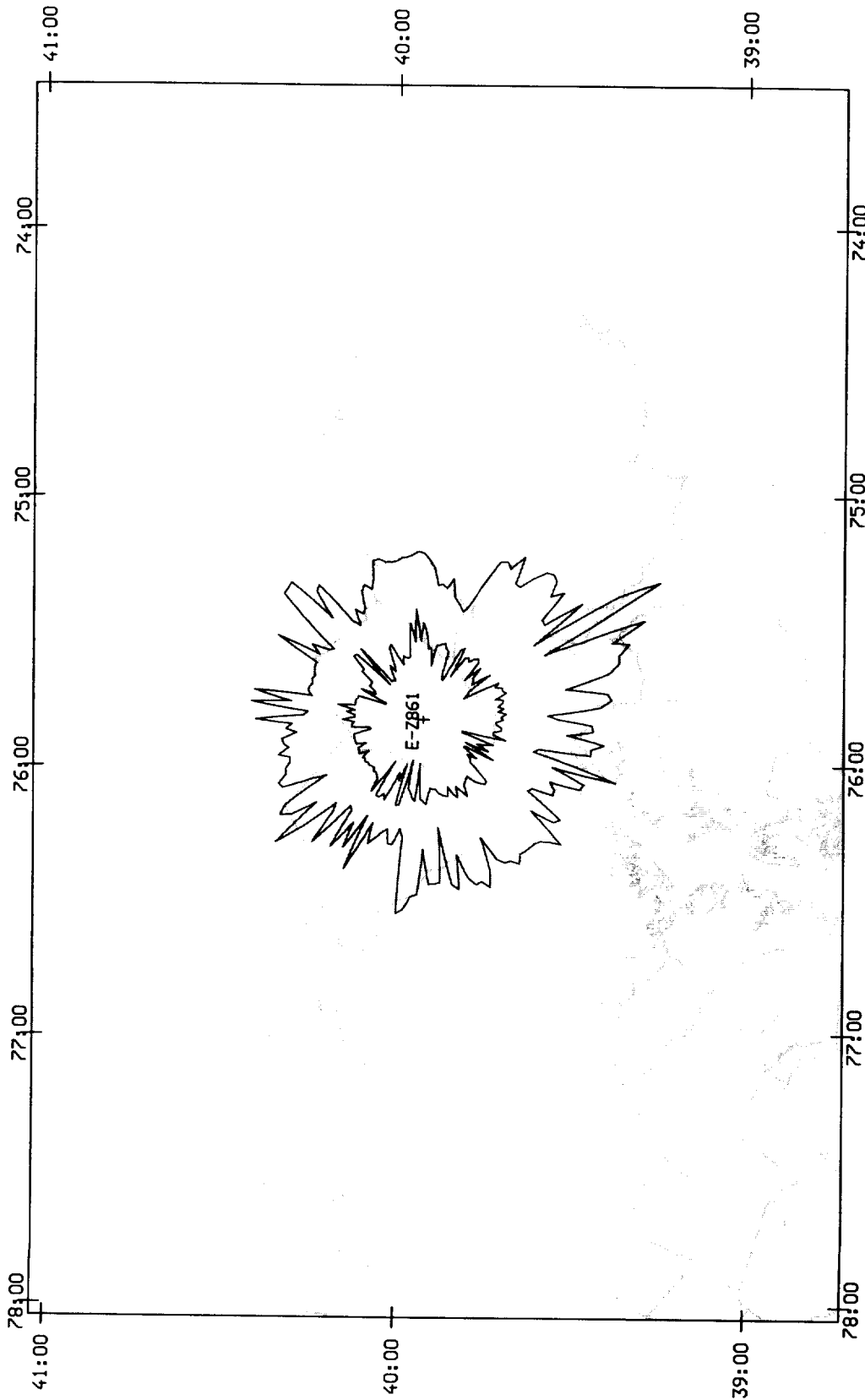
Interference Contours 5/25 dBu F(50/50)

Location: Commonwealth of Pennsylvania Window 6 Type: Omni 3DT 100 ERP 75'
 Engineer: Prepared for: Okumura-Hata-Davidson Adaptive
 Date: Sep 21 2000 File: /state/norm/foo.hpgl
 Number of sites: 1

D-Z712 Hindser, York County, PA

SIGNAL STRENGTH RANGES:

> 25 dBu
 25 to 5 dBu



Interference Contours 5/25 dBu F(50/50)

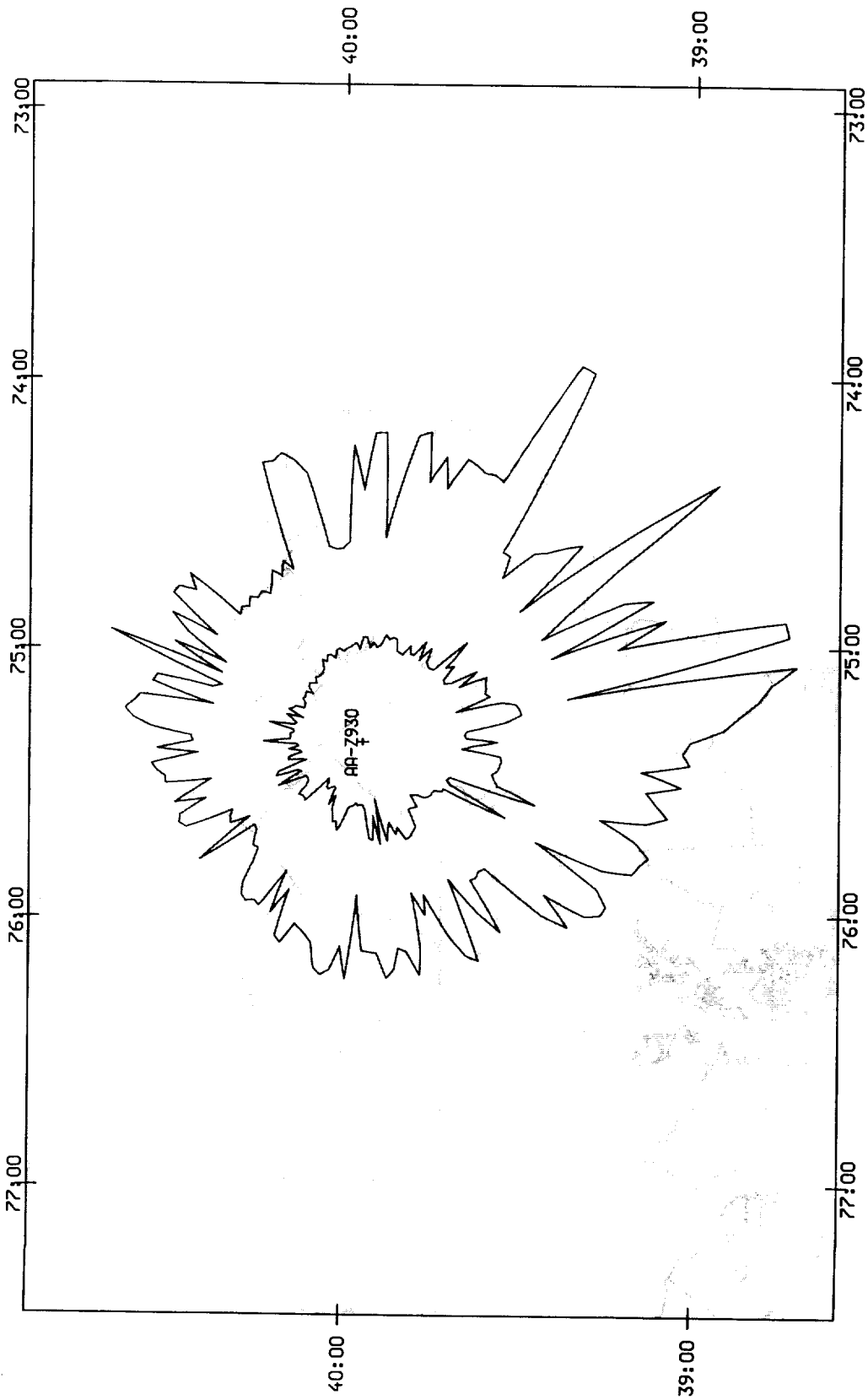
Location: Commonwealth of Pennsylvania Window 6
 Engineer: Type: Omni 3DT 100 ERP 75'
 Date: Sep 21 2000 Prepared for: Okumura-Hata-Davidson Adaptive
 File: /state/norm/foo.hpgl

Scale: 1 inch = 32 miles
 Frequency: 870 MHz
 Number of sites: 1

E-Z861 West Marlborough, Chester County, PA

SIGNAL STRENGTH RANGES:

> 25 dBu
 25 to 5 dBu

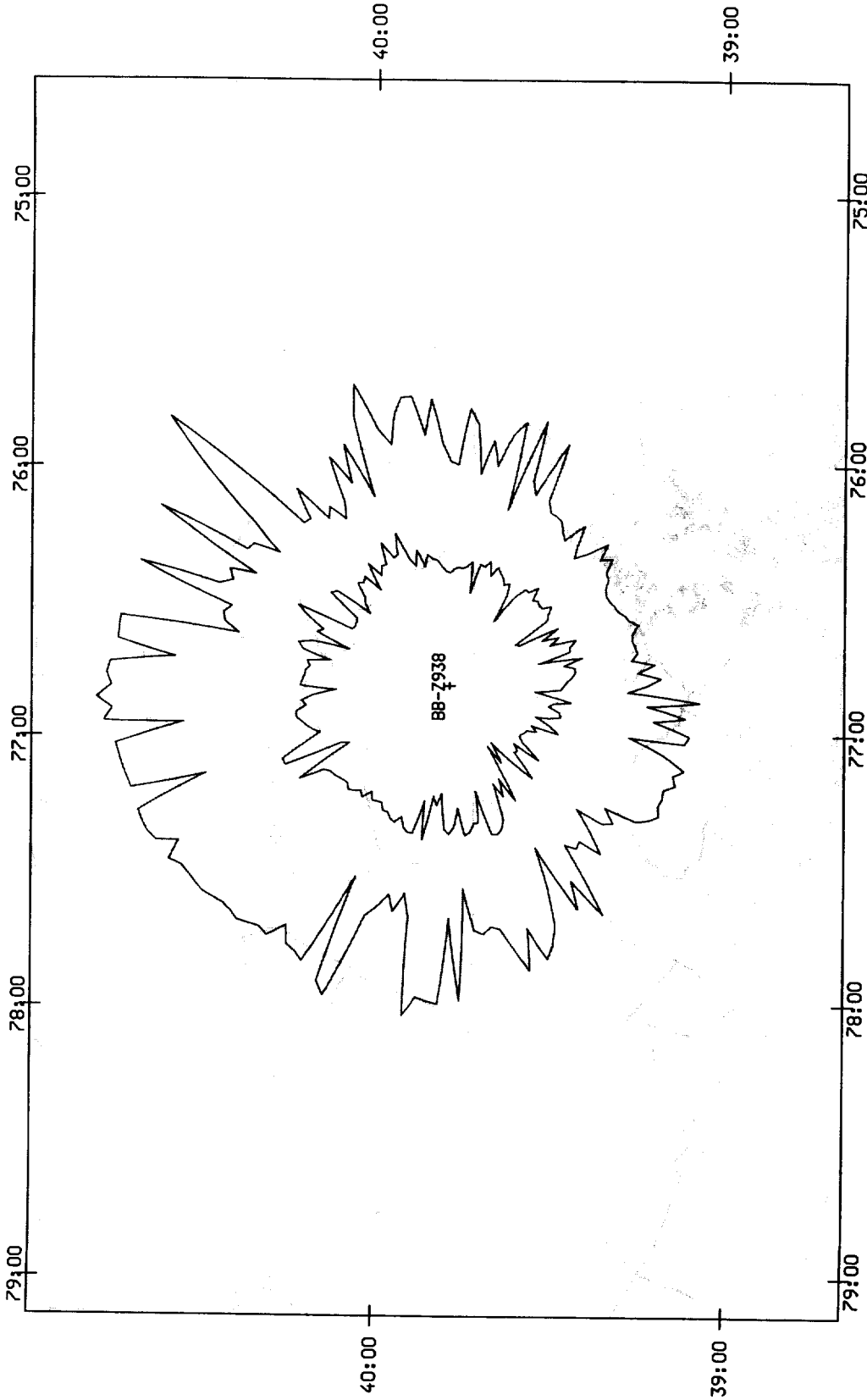


Interference Contours 5/25 dBu F(50/50)

Location: Commonwealth of Pennsylvania Window 6
 Engineer: Type: Omni 3DT 75 ERP 134'
 Date: Sep 21 2000 Prepared for: Okumura-Hata-Davidson Adaptive
 Number of sites: 1 File: /state/norm/foo.hpg1

SIGNAL STRENGTH RANGES:
 > 25 dBu
 25 to 5 dBu

AA-7930 Marple, Delaware County, PA



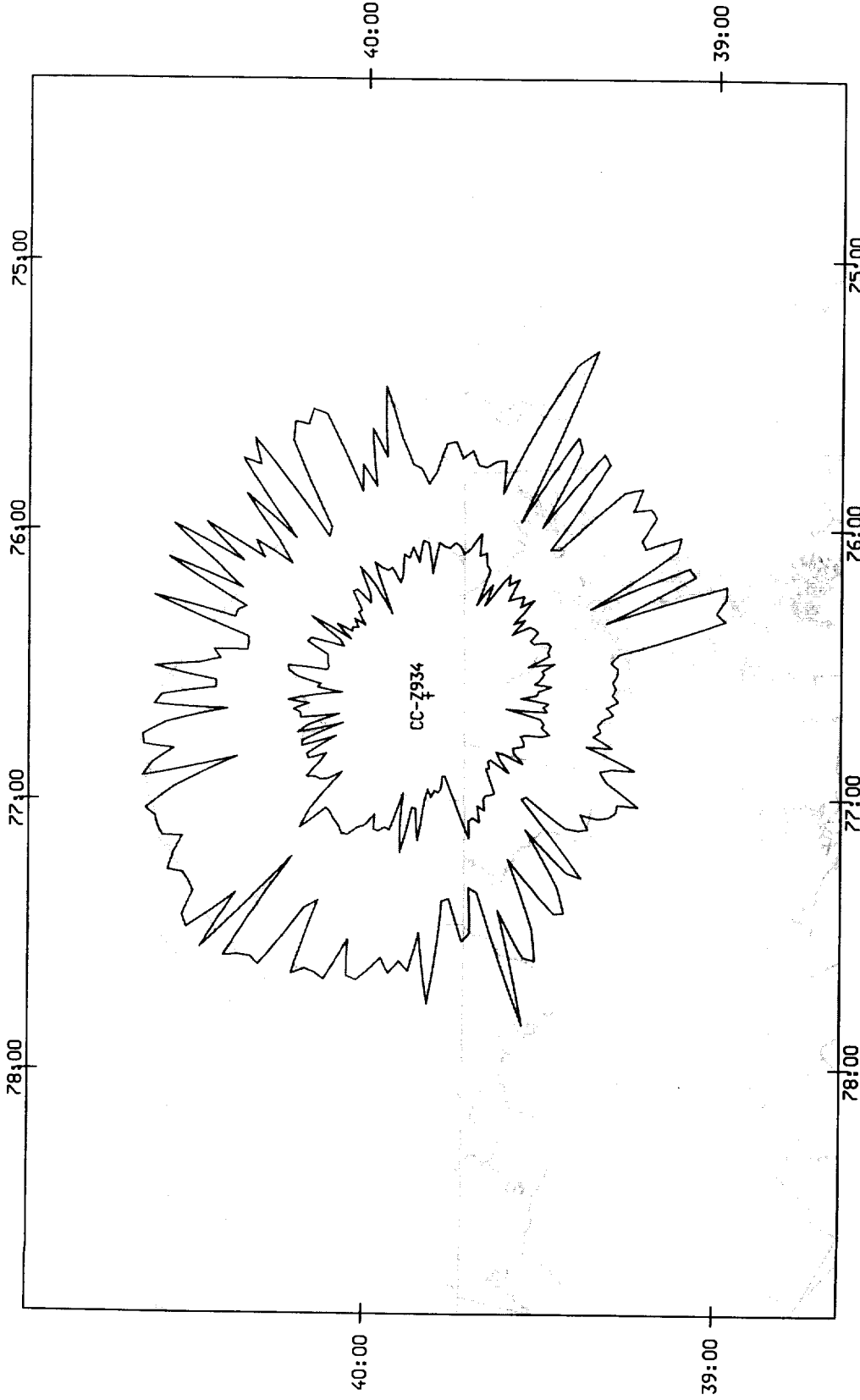
Interference Contours 5/25 dBu F (50/50)
 Type: Omni 3DT 100 ERP 75'
 Prepared for: Okumura-Hata-Davidson Adaptive
 File: /state/norm/foo.hpgl

Location: Commonwealth of Pennsylvania Window 6
 Scale: 1 Inch = 32 miles
 Frequency: 870 MHz
 Number of sites: 1

BB-7938 Condorus, York County, PA

SIGNAL STRENGTH RANGES:

> 25 dBu
 25 to 5 dBu



Interference Contours 5/25 dBu F(50/50)

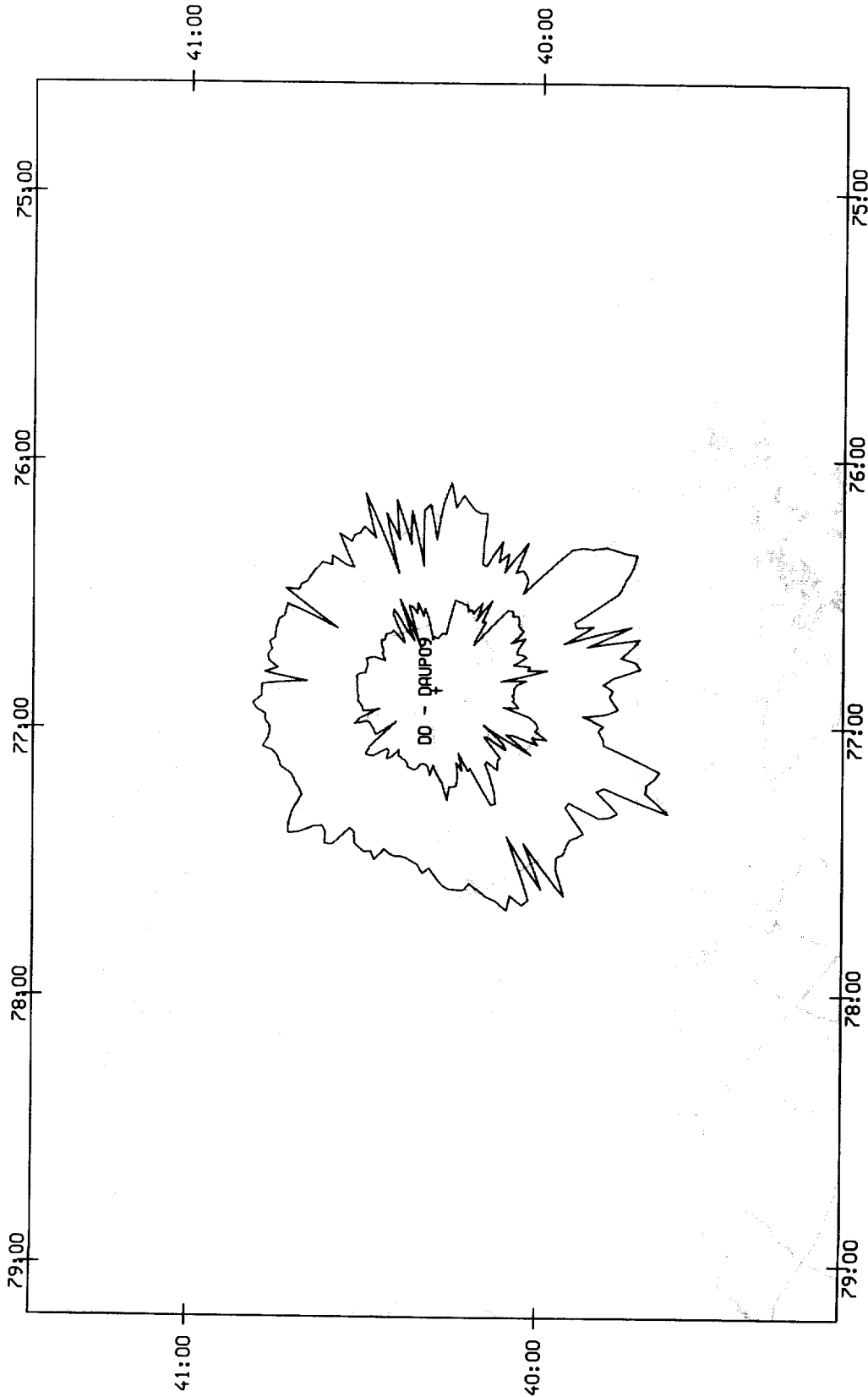
Location: Commonwealth of Pennsylvania Window 6
 Engineer: Type: OMni 3DT 100 ERP 75'
 Date: Sep 21 2000 Prepared for: Okumura-Hata-Davidson Adaptive
 File: /state/norm/foo.hpgl

Scale: 1 inch = 32 miles
 Frequency: 870 MHz
 Number of sites: 1

CC-7934 North Hopewell, York County, PA

SIGNAL STRENGTH RANGES:

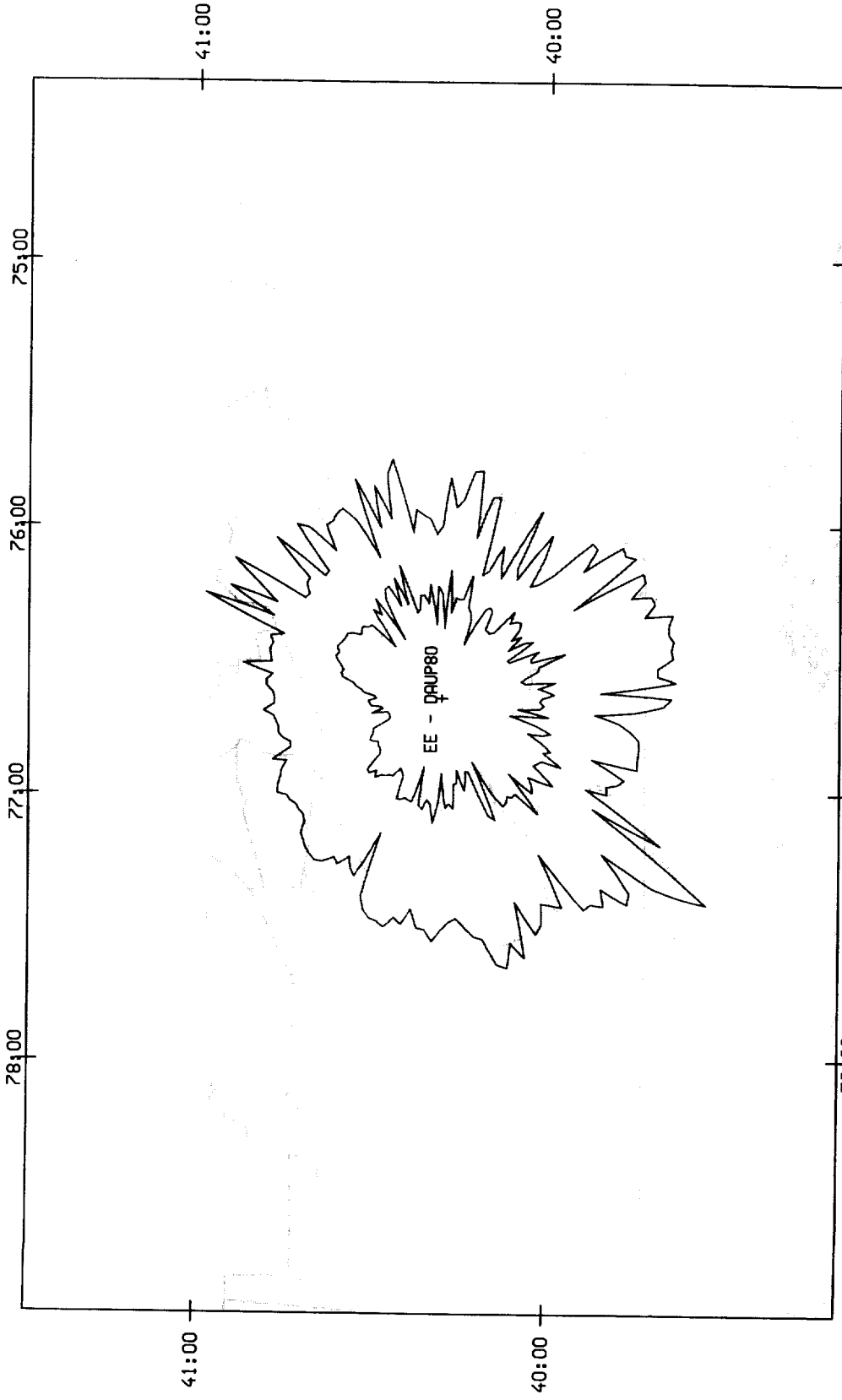
> 25 dBu
 25 to 5 dBu



Interference Contours 5/25 dBu F(50/50)

Location: Commonwealth of Pennsylvania Window 6
 Engineer: Type: Omni 3DT 75 ERP 100'
 Date: Sep 21 2000 Frequency: 870 MHz
 Number of sites: 1 Prepared for: Okumura-Hata-Davidson Adaptive
 File: /state/norm/foo.hpg1

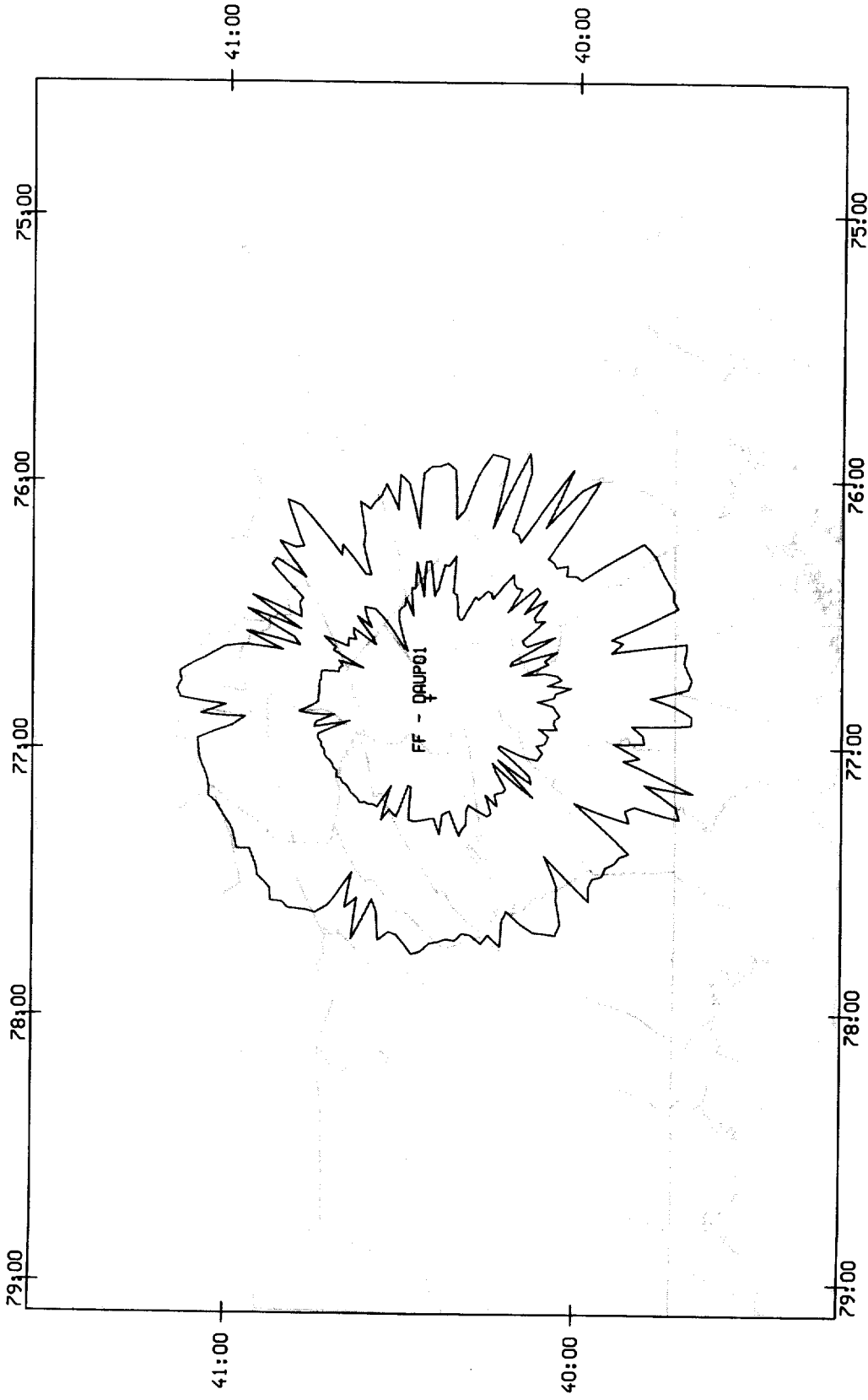
DD - DRAUPO9 PSP, Harrisburg, Dauphin County, PA
 SIGNAL STRENGTH RANGES:
 > 25 dBu
 25 to 5 dBu



Interference Contours 5/25 dBu F(50/50)

Location: Commonwealth of Pennsylvania Window 6
 Engineer: Type: Omni 3DT: 75 ERP 75'
 Date: Sep 21 2000 Prepared for: Okumura-Hata-Davidson Adaptive
 File: /state/norm/foo.hpgl
 Scale: 1 inch = 32 miles
 Frequency: 870 MHz
 Number of sites: 1

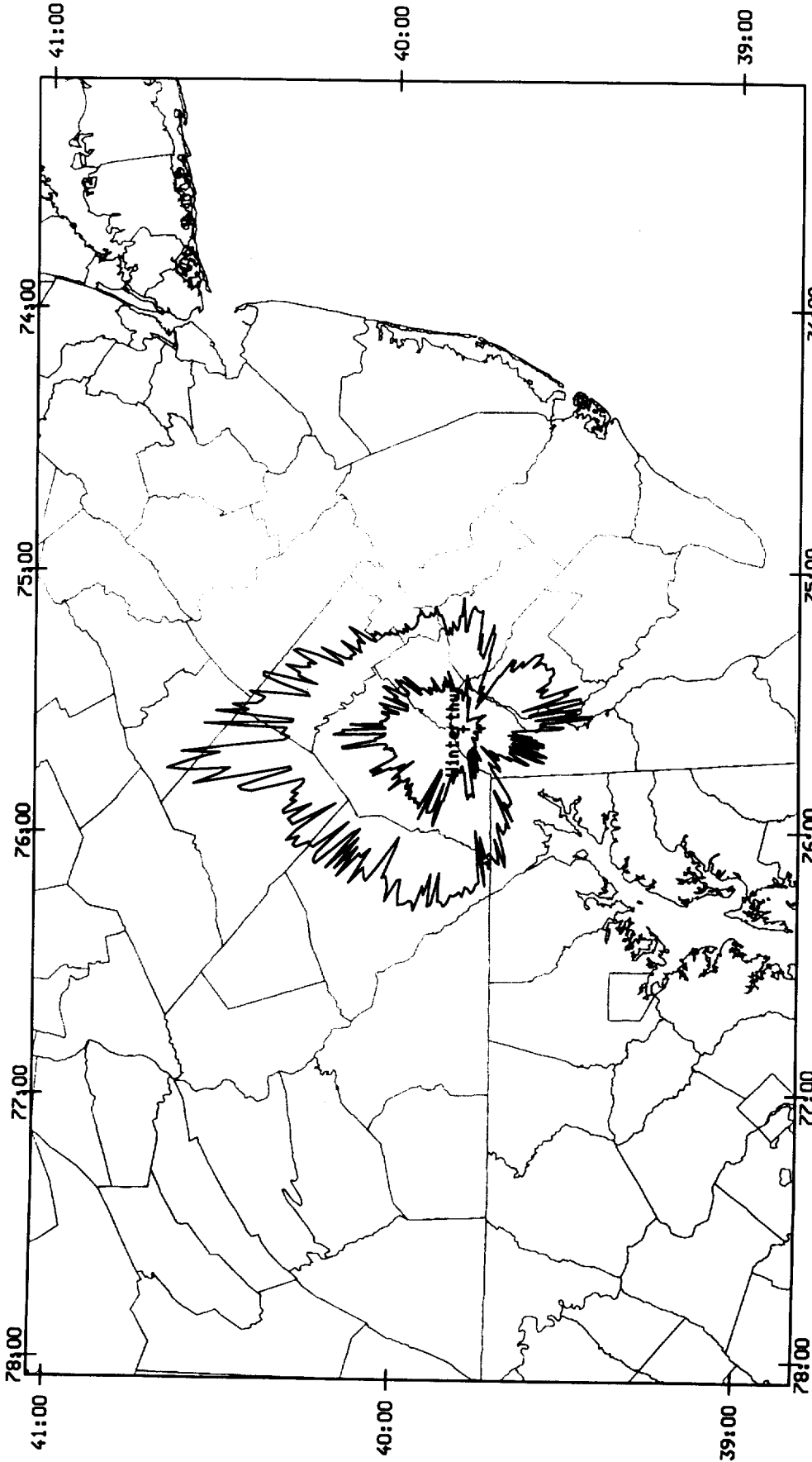
EE - DRUP80 PSP Academy, Hershey, Dauphin County, PA
 SIGNAL STRENGTH RANGES:
 > 25 dBu
 25 to 5 dBu



Interference Contours 5/25 dBu F(50/50)
 Type: Omni 6DT 75 ERP 160'
 Prepared for: Okumura-Hata-Davidson Adaptive
 File: /state/norm/foo.hpg1

Location: Commonwealth of Pennsylvania Window 6
 Engineer:
 Date: Sep 21 2000
 Scale: 1 inch = 32 miles
 Frequency: 870 MHz
 Number of sites: 1

FF - DRUP01 Rattling Run, Middle Paxton, Dauphin County, PA
 SIGNAL STRENGTH RANGES:
 > 25 dBu
 25 to 5 dBu



Interference Contours 5/25 dBu F(50/50)
 Type: SRL410-C4 350° 64 ERP 145'
 Prepared for: Okumura-Hata-Davidson Adaptive
 File: /homec/rccusr/hcoltri/.hpg1

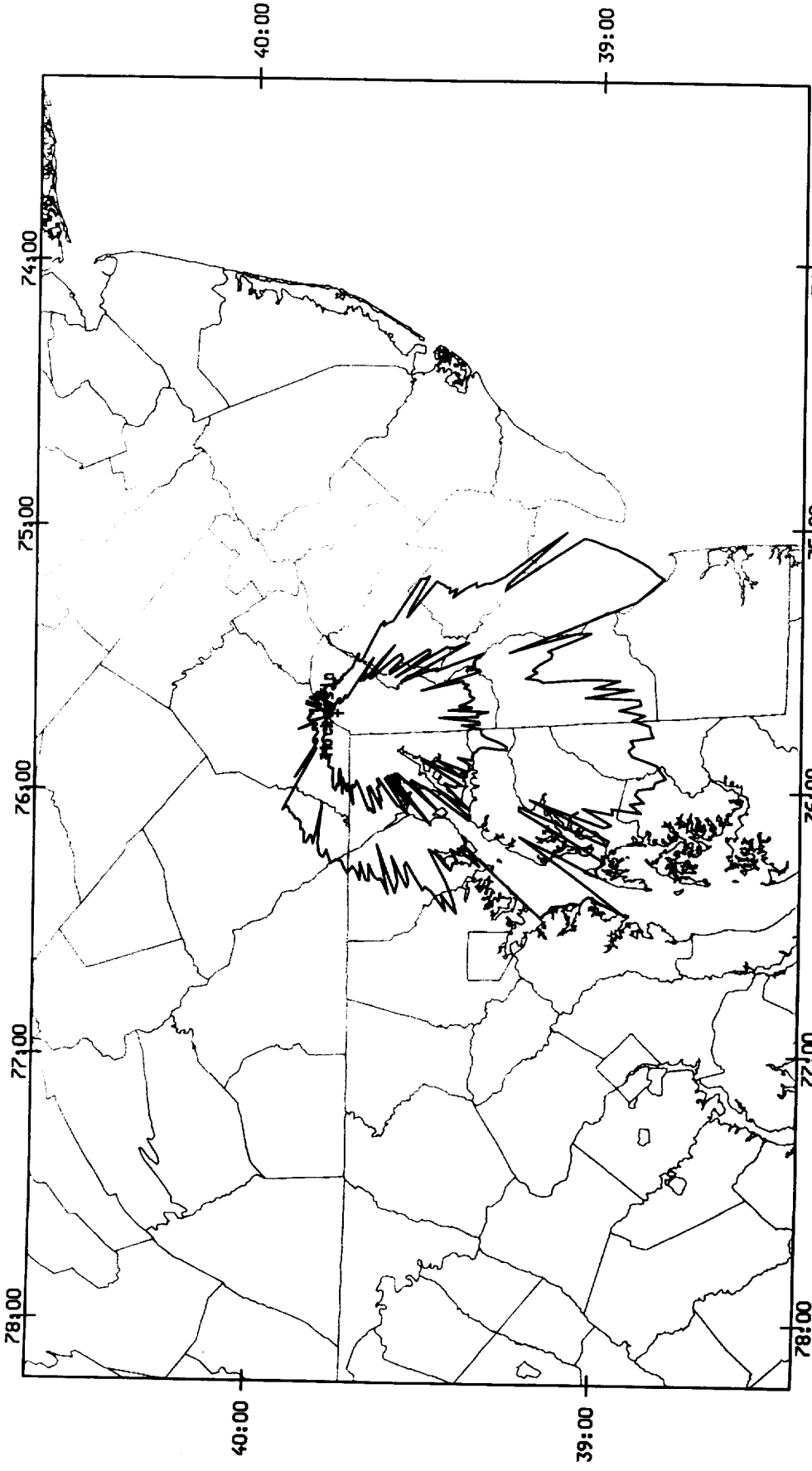
Scale: 1 inch = 32 miles
 Frequency: 868 MHz
 Number of sites: 1

Location: State of Delaware, Region 28, Window 6
 Engineer:
 Date: Sep 26 2000

SIGNAL STRENGTH RANGES:
 > 25.0 dBuV/m
 25.0 to 5.0 dBuV/m

Winterthur, New Castle County, DE

RCC Consultants, Inc.
 100 Woodbridge Center Dr., Suite 201, Woodbridge, NJ 07096, USA



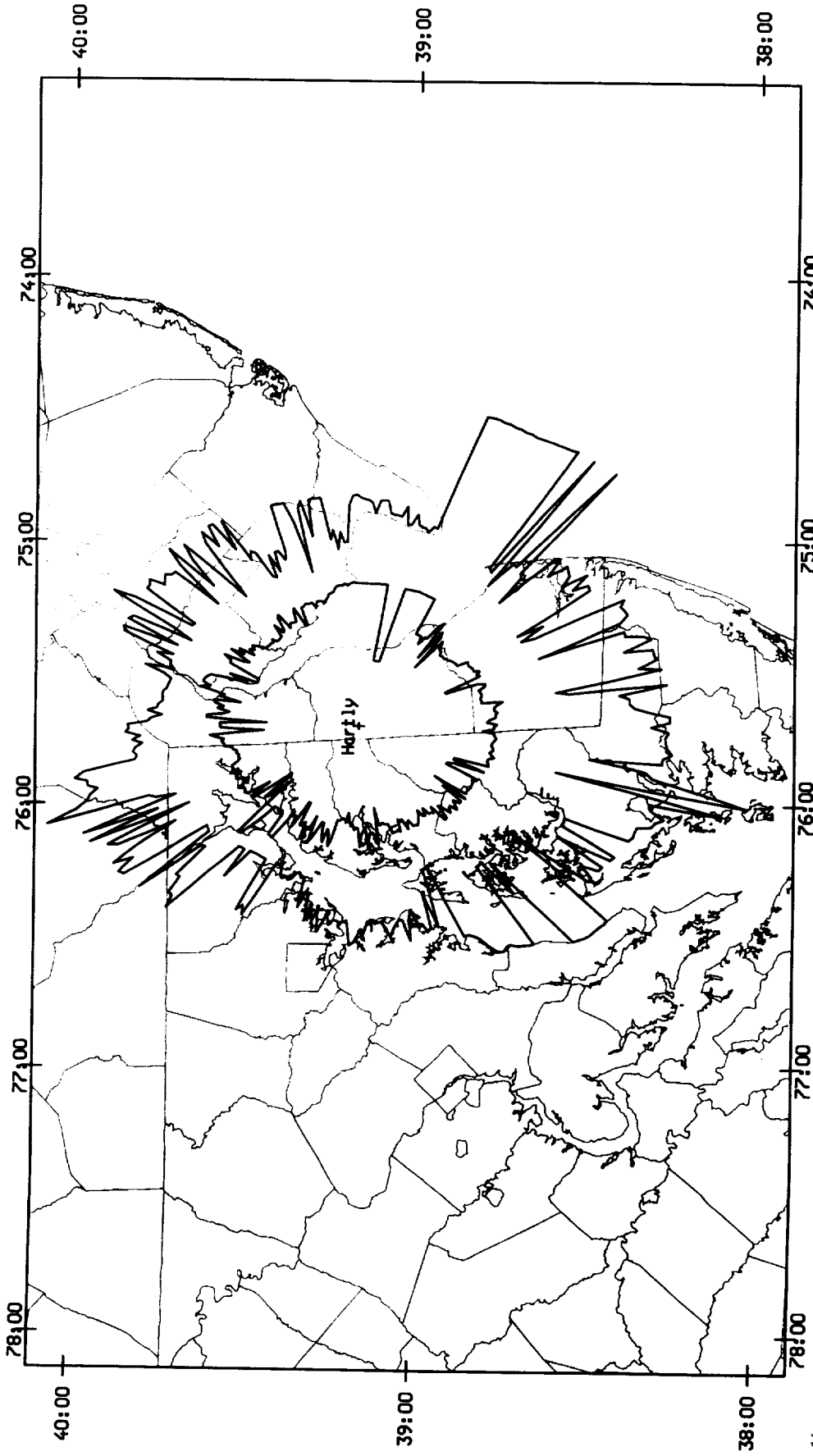
Interference Contours 5/25 dBu F(50/50)
 Type: DB834H 210° 99 ERP 100'
 Prepared for: Okumura-Hata-Davidson Adaptive
 File: /homec/roccusr/hcoltri/.hpg1

Scale: 1 inch = 32 miles
 Frequency: 868 MHz
 Number of sites: 1

Location: State of Delaware, Region 28, Window 6
 Engineer:
 Date: Sep 26 2000

SIGNAL STRENGTH RANGES:
 > 25.0 dBuV/m
 25.0 to 5.0 dBuV/m

Hockessin, New Castle County, DE



Interference Contours 5/25 dBu F(50/50)
 Type: BMRI2H 0-180° 107 ERP 200'
 Prepared for: Okumura-Hata-Davidson Adaptive
 File: /homec/rcours/mcoltri/.hpg1

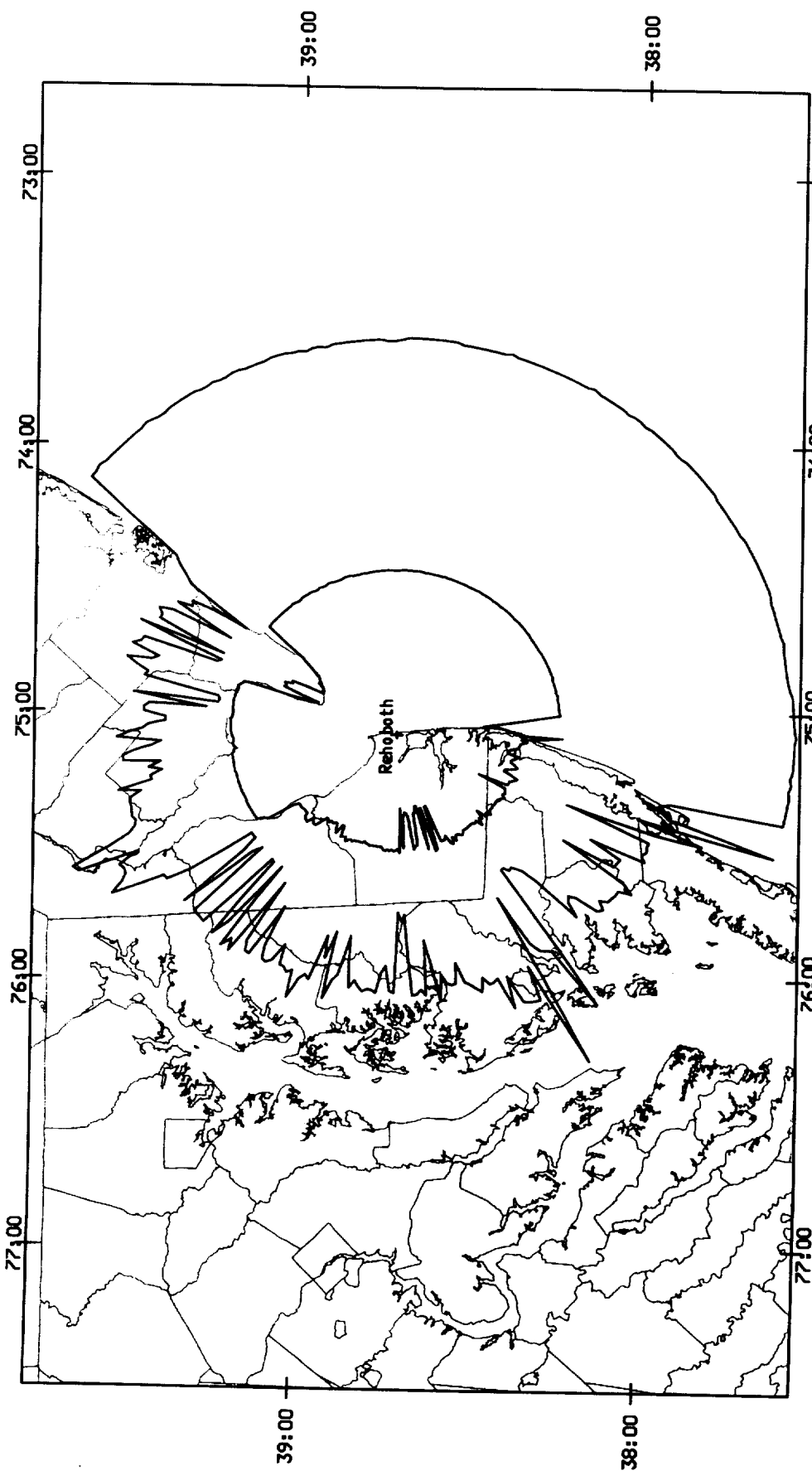
Location: State of Delaware, Region 28, Window 6
 Scale: 1 inch = 32 miles
 Frequency: 868 MHz
 Number of sites: 1

Location: State of Delaware, Region 28, Window 6
 Engineer:
 Date: Sep 26 2000

Hartly, Kent County, DE

SIGNAL STRENGTH RANGES:
 > 25.0 dBuV/m
 25.0 to 5.0 dBuV/m

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 100 Woodbridge Center Dr., Suite 201, Woodbridge, NJ 07096, USA



Interference Contours 5/25 dBu F(50/50)
 Location: State of Delaware, Region 28, Window 6
 Engineer: Type: SRL480-C 142 ERP 105'
 Date: Sep 26 2000 Prepared for: Okumura-Hata-Davidson Adaptive
 File: /homec/frcausr/ncoitri/.hpg1

Rehoboth, Sussex County, DE

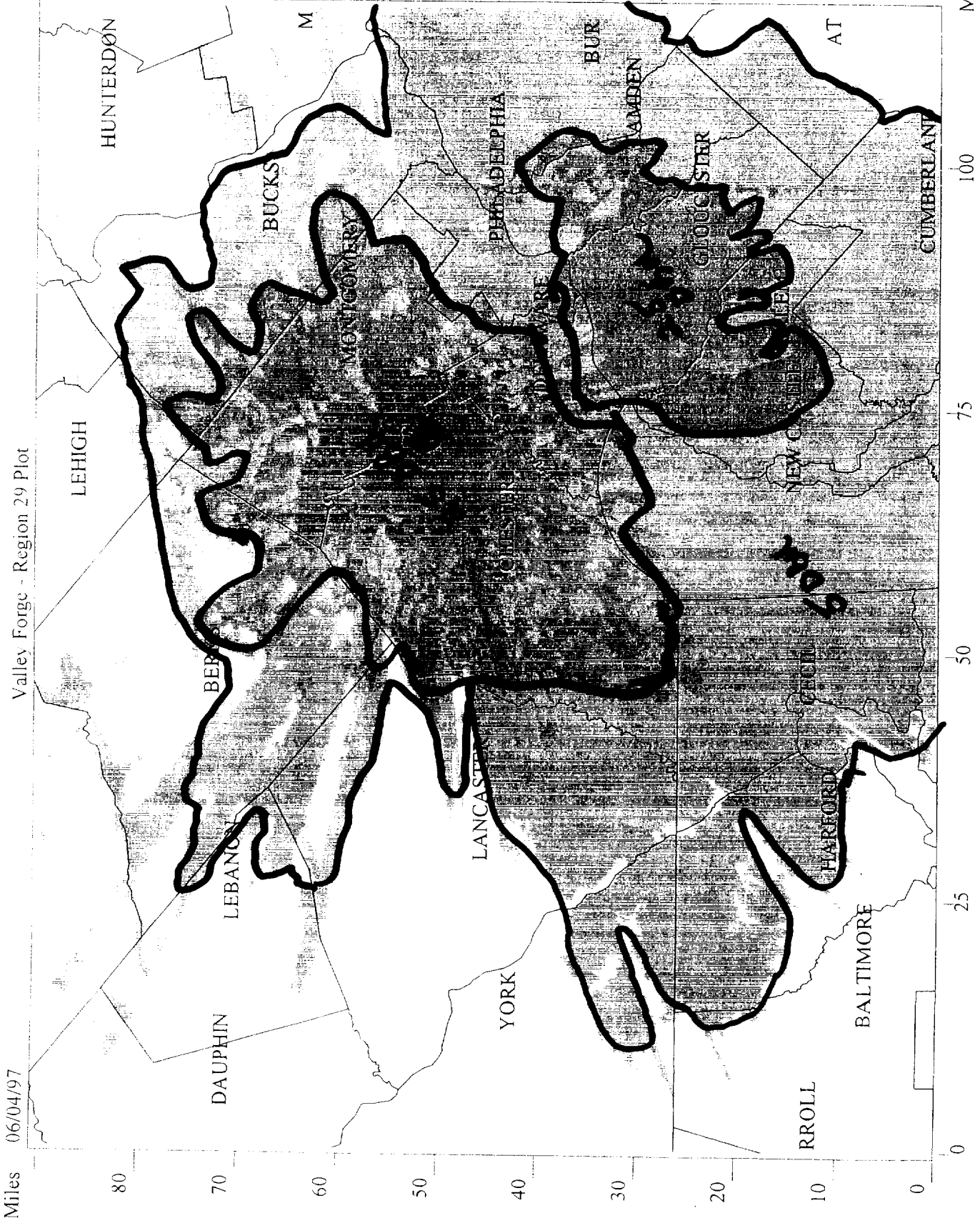
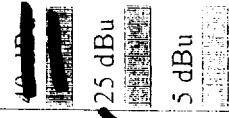
SIGNAL STRENGTH RANGES:
 > 25.0 dBuV/m
 25.0 to 5.0 dBuV/m

RCC Consultants, Inc.
 100 Woodbridge Center Dr., Suite 201, Woodbridge, NJ 07095, USA



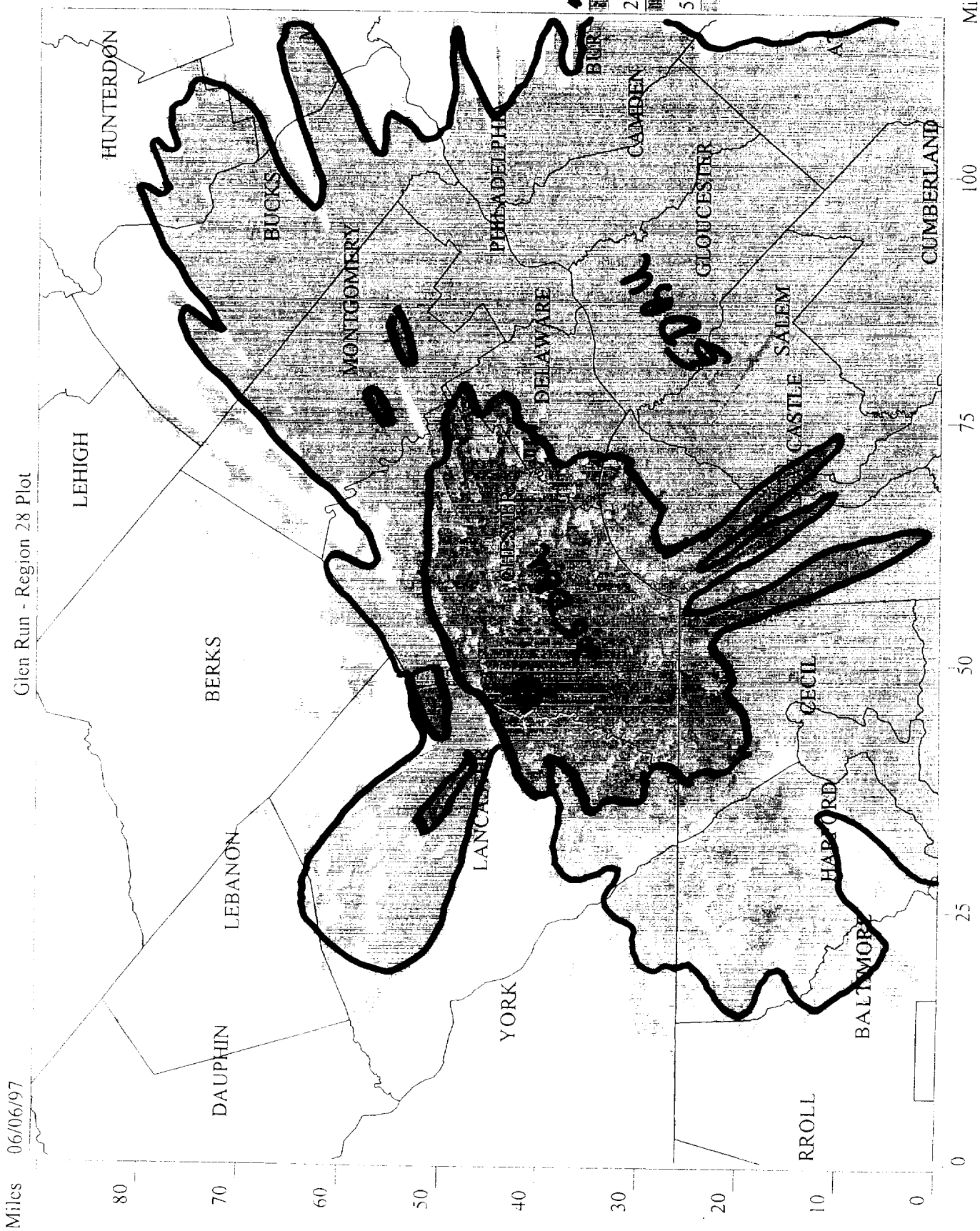
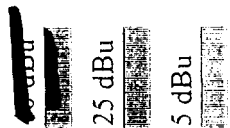
Site Information
 Lat: 40° 05' 17"
 Long: 75° 28' 47"
 AMSL: 650 feet

Base Transmitter
 Power: 75 watts
 ERP: 100 watts
 Frequency: 860 MHz
 Ant Model: PD10188
 Ant Gain: 10.5 dBd
 Ant BW: 120°
 Ant DT: N/A
 DT Type: N/A
 Ant Azmth: 240°
 Ant Height: 125 feet
 Ant HAAT: 474 feet



Site Information
 Lat: 39° 56' 29"
 Long: 75° 57' 02"
 AMSL: 701 feet

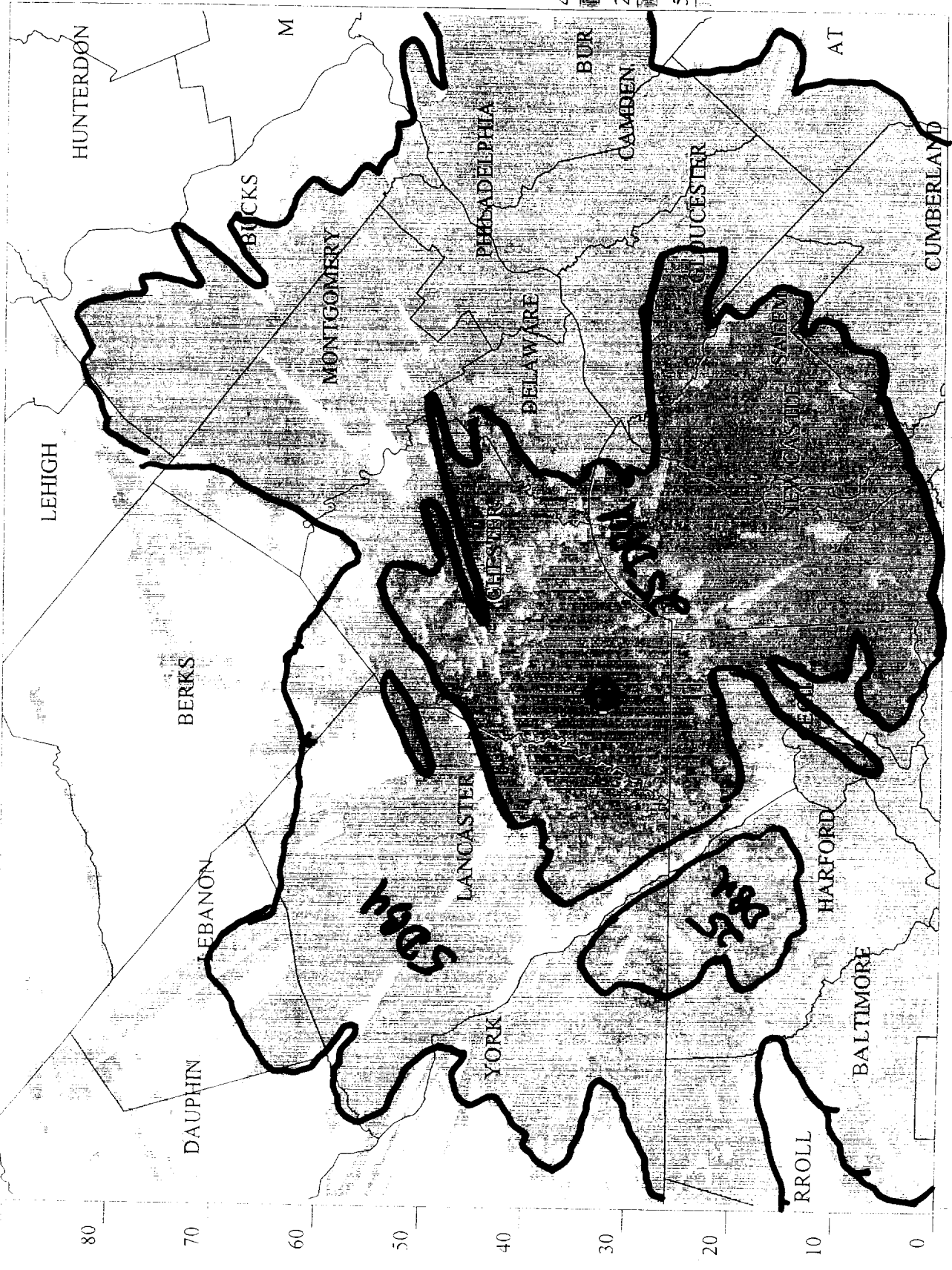
Base Transmitter
 Power: 75 watts
 ERP: 135 watts
 Frequency: 860 MHz
 Ant Model: PDI0188
 Ant Gain: 10.5 dBd
 Ant BW: Omni
 Ant DT: N/A
 DT Type: N/A
 Ant Azmth: 100°
 Ant Height: 175 feet
 Ant HAAT: 328 feet



Glen Run - Region 28 Plot

Site Information
 Lat: 39° 49' 20"
 Long: 75° 54' 42"
 AMSL: 522 feet

Base Transmitter
 Power: 75 watts
 ERP: 30 watts
 Frequency: 860 MHz
 Ant Model: SRL410C4
 Ant Gain: 8 dBd
 Ant BW: Elliptical
 Ant DT: N/A
 DT Type: N/A
 Ant Azmth: 45° & 225°
 Ant Height: 375 feet
 Ant HAAT: 454 feet

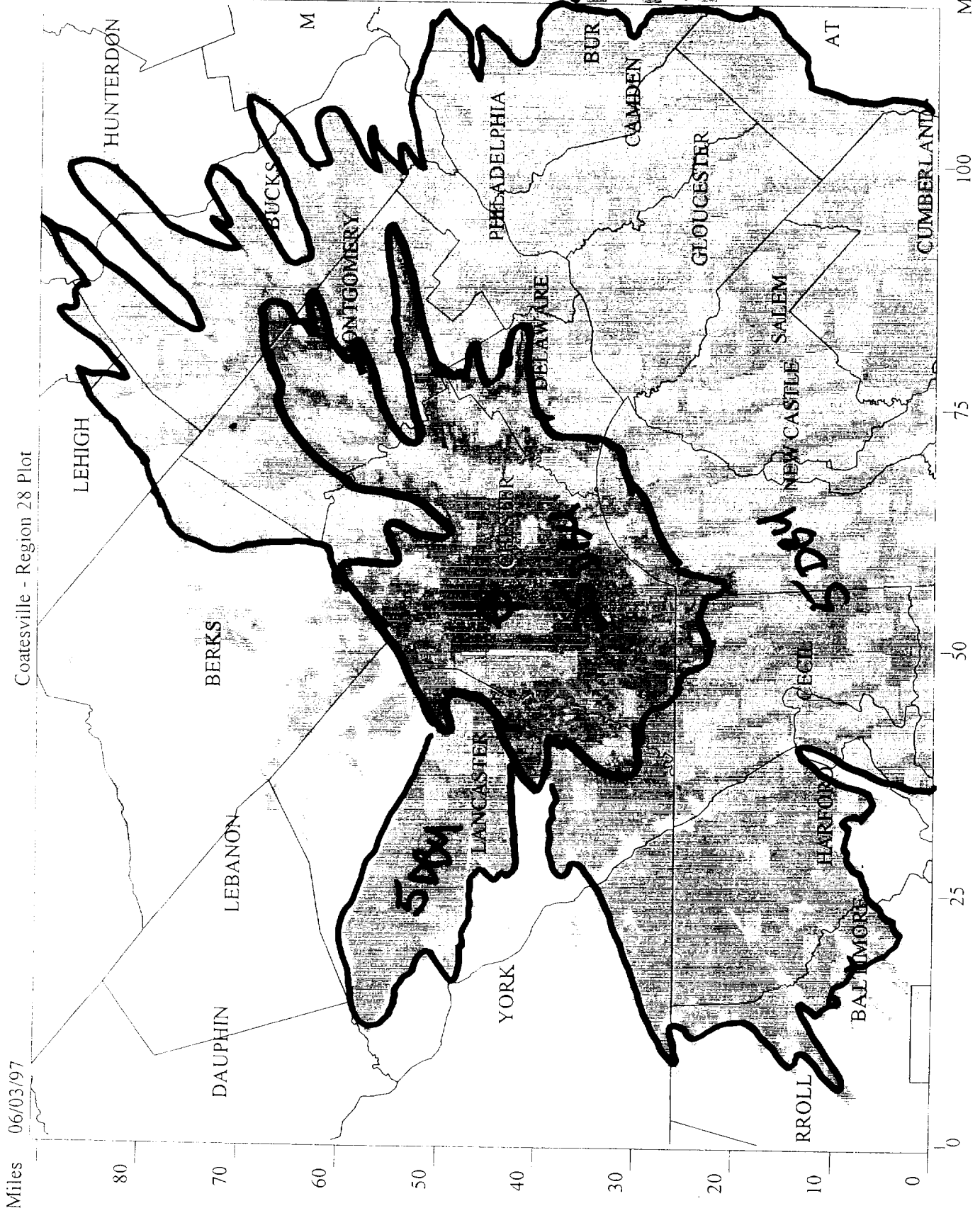


Miles 0 10 25 50 75 100 100 Miles



Site Information
 Lat: 39° 59' 27"
 Long: 75° 49' 02"
 AMSL: 634 feet

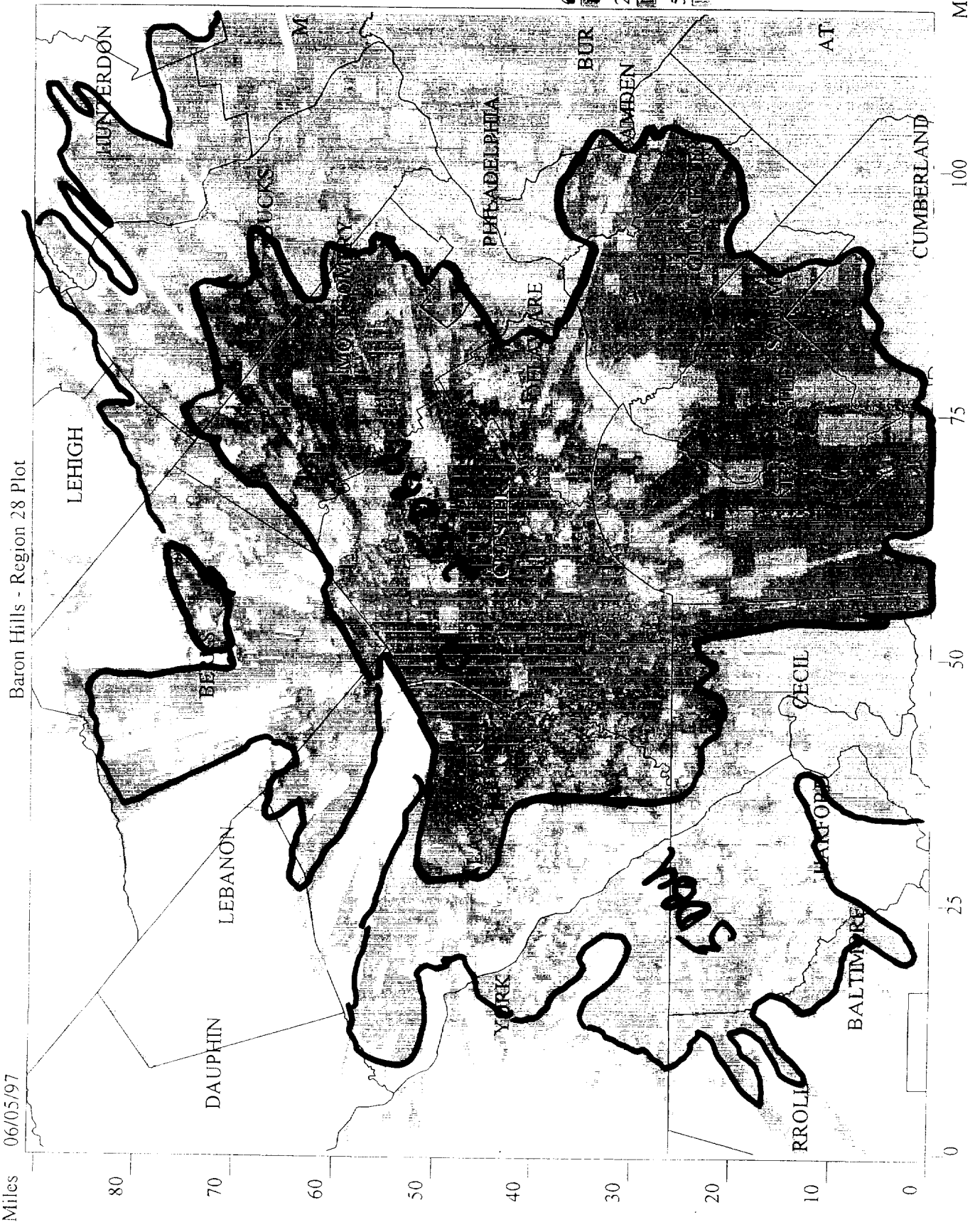
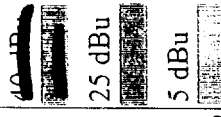
Base Transmitter
 Power: 75 watts
 ERP: 49 watts
 Frequency: 860 MHz
 Ant Model: DB806
 Ant Gain: 6 dBd
 Ant BW: Omni
 Ant DT: N/A
 DT Type: N/A
 Ant Azmth: N/A
 Ant Height: 170 feet
 Ant HAAT: 282 feet



Coatesville - Region 28 Plot

Site Information
 Lat: 40° 02' 48"
 Long: 75° 53' 37"
 AMSL: 960 feet

Base Transmitter
 Power: 75 watts
 ERP: 135 watts
 Frequency: 860 MHz
 Ant Model: PD10188
 Ant Gain: 10.5 dBd
 Ant BW: 120°
 Ant DT: N/A
 DT Type: N/A
 Ant Azimuth: 110°
 Ant Height: 175 feet
 Ant HAAT: 545 feet



Baron Hills - Region 28 Plot

Miles 06/05/97



Site Information

Lat: 39° 58' 29"
Long: 75° 25' 22"
AMSL: 418 feet

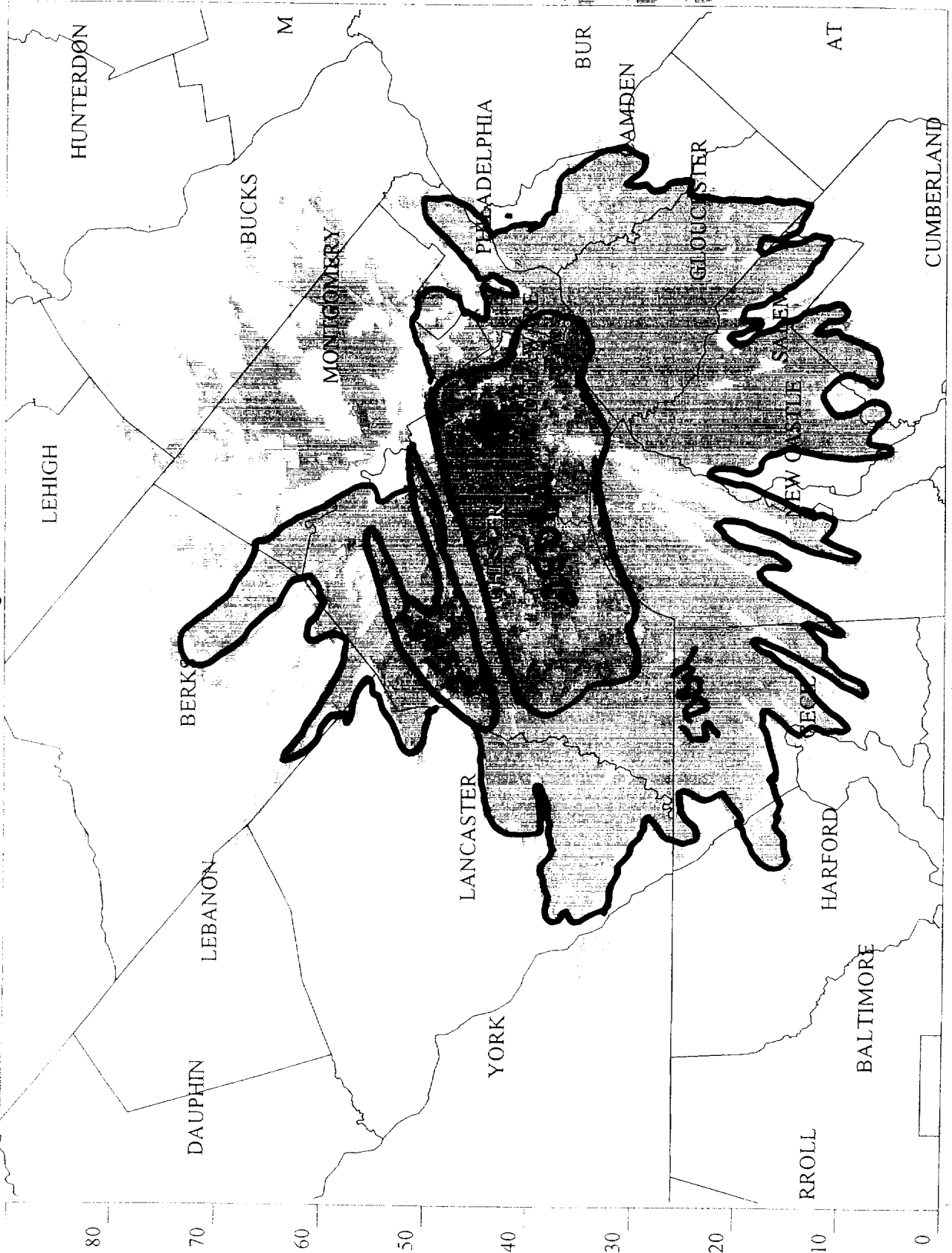
Base Transmitter

Power: 75 watts
ERP: 100 watts
Frequency: 860 MHz
Ant Model: PD10188
Ant Gain: 10.5 dBd
Ant BW: 120°
Ant DT: N/A
DT Type: N/A
Ant Azimuth: 315°
Ant Height: 270 feet
Ant HAAT: 236 feet



WPLY - Region 28 Plot

Miles 06/06/97



Miles

100

75

50

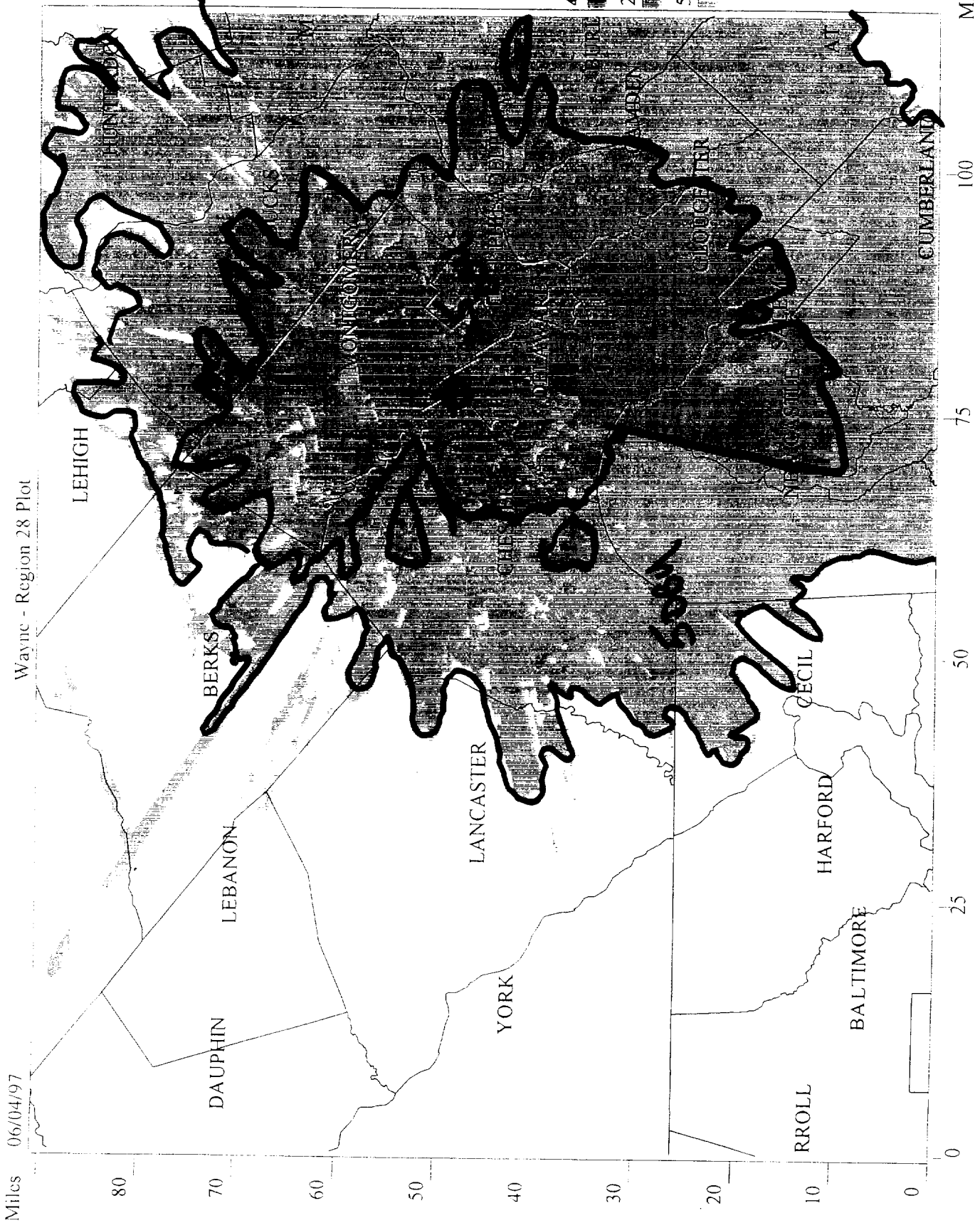
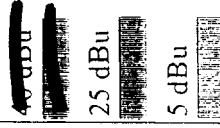
25

0



Site Information
 Lat: 40° 02' 44"
 Long: 75° 23' 30"
 AMSL: 400 feet

Base Transmitter
 Power: 75 watts
 ERP: 43 watts
 Frequency: 860 MHz
 Ant Model: DB806
 Ant Gain: 6 dBd
 Ant BW: Omni
 Ant DT: N/A
 DT Type: N/A
 Ant Azimuth: N/A
 Ant Height: 215 feet
 Ant HAAT: 236 feet



Wayne - Region 28 Plot

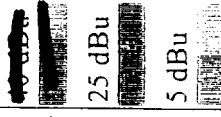
06/04/97

Site Information

Lat: 40° 11' 18"
 Long: 75° 40' 58"
 AMSL: 781 feet

Base Transmitter

Power: 75 watts
 ERP: 100 watts
 Frequency: 860 MHz
 Ant Model: PDI0188
 Ant Gain: 10.5 dBd
 Ant BW: 120°
 Ant DT: N/A
 DT Type: N/A
 Ant Azmlh: 180°
 Ant Height: 180 feet
 Ant HAAT: 562 feet

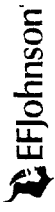


Bucktown - Region 28 Plot

Miles 06/06/97

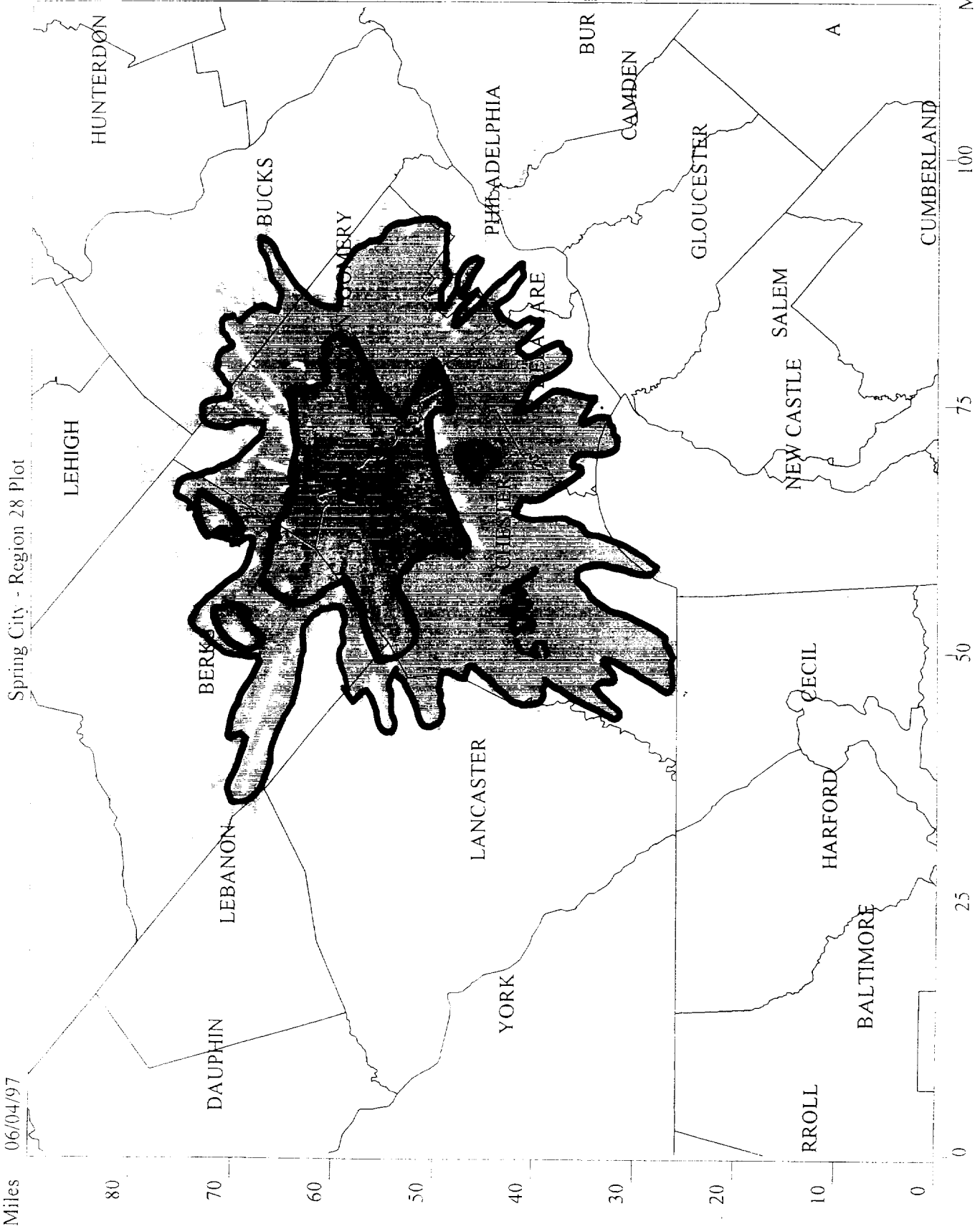


Miles



Site Information
 Lat: 40° 11' 25"
 Long: 75° 34' 01"
 AMSL: 310 feet

Base Transmitter
 Power: 75 watts
 ERP: 152 watts
 Frequency: 860 MHz
 Ant Model: PDI0188
 Ant Gain: 10.5 dBd
 Ant BW: 120°
 Ant DT: N/A
 DT Type: N/A
 Ant Azimuth: 225°
 Ant Height: 135 feet
 Ant HAAT: 143 feet



Spring City - Region 28 Plot

Miles 06/04/97



Site Information

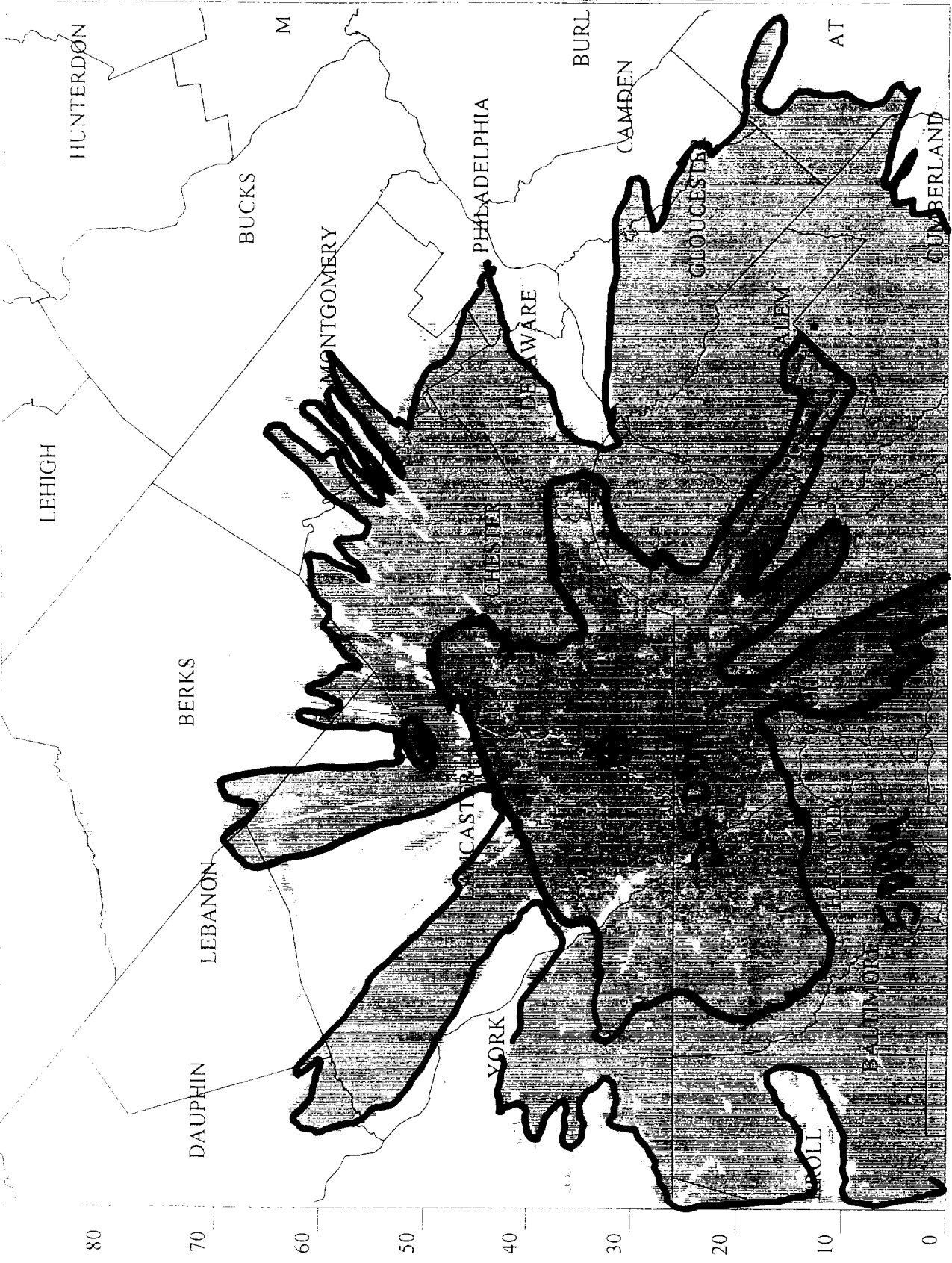
Lat: 39° 48' 10"
Long: 76° 01' 11"
AMSL: 520 feet

Base Transmitter

Power: 75 watts
ERP: 96 watts
Frequency: 860 MHz
Ant Model: DB809
Ant Gain: 9 dBd
Ant BW: Omni
Ant DT: N/A
DT Type: N/A
Ant Azimuth: N/A
Ant Height: 175 feet
Ant HAAT: 244 feet

Octoraro - Region 28 Plot

Miles 06/04/97



Chester County, Pennsylvania

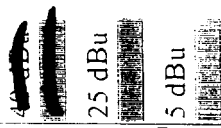
Octoraro - Field Strength Plot

E.F. Johnson Company
Proprietary and Confidential



Site Information
 Lat: 39° 48' 34"
 Long: 75° 45' 10"
 AMSL: 394 feet

Base Transmitter
 Power: 75 watts
 ERP: 61 watts
 Frequency: 860 MHz
 Ant Model: DB806
 Ant Gain: 6 dBd
 Ant BW: Omni
 Ant DT: N/A
 DT Type: N/A
 Ant Azimuth: N/A
 Ant Height: 140 feet
 Ant HAAT: 207 feet

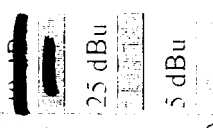
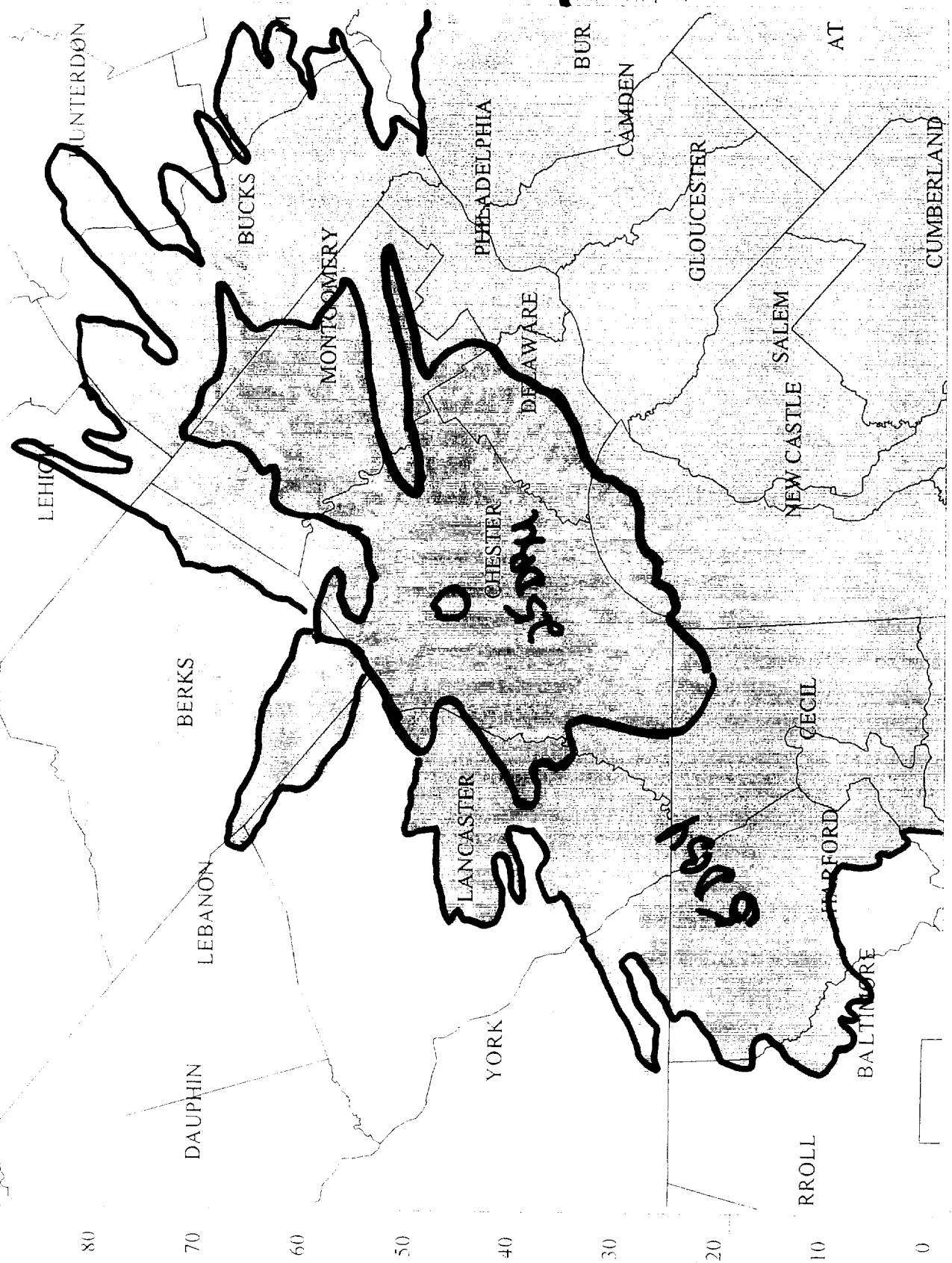


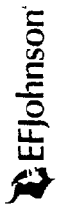
Site Information
 Lat: 40° 01' 46"
 Long: 74° 44' 56"
 AMSL: 560 feet

Base Transmitter
 Power: 75 watts
 ERP: 84 watts
 Frequency: 860 MHz
 Ant Model: DB8809T3
 Ant Gain: 9 dBd
 Ant BW: Omni
 Ant DT: 3°
 DT Type: Electrical
 Ant Azimuth: N/A
 Ant Height: 220 feet
 Ant HAAT: 301 feet

Downingtown - Region 28 Plot

Miles 06/04/97



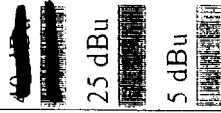


Site Information

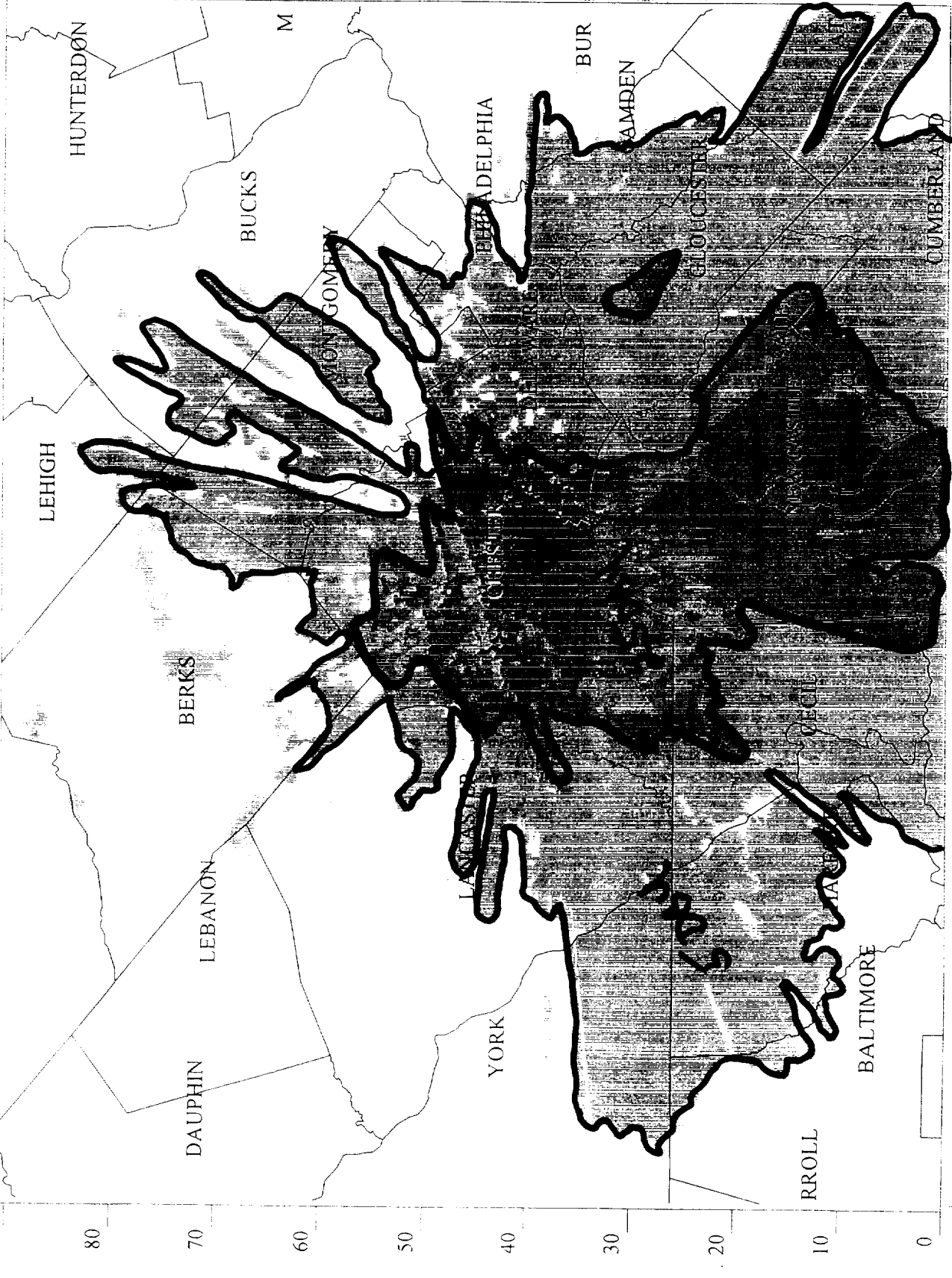
Lat: 39° 54' 32"
Long: 75° 39' 39"
AMSL: 362 feet

Base Transmitter

Power: 75 watts
ERP: 98 watts
Frequency: 860 MHz
Ant Model: SRL410C4
Ant Gain: 8 dBd
Ant BW: Elliptical
Ant DT: N/A
DT Type: N/A
Ant Azmth: 60° & 300°
Ant Height: 300 feet
Ant HAAT: 297 feet



Miles 06/05/97
Pocopson - Region 28 Plot



Chester County, Pennsylvania

Pocopson - Field Strength Plot

E.F. Johnson Company
Proprietary and Confidential