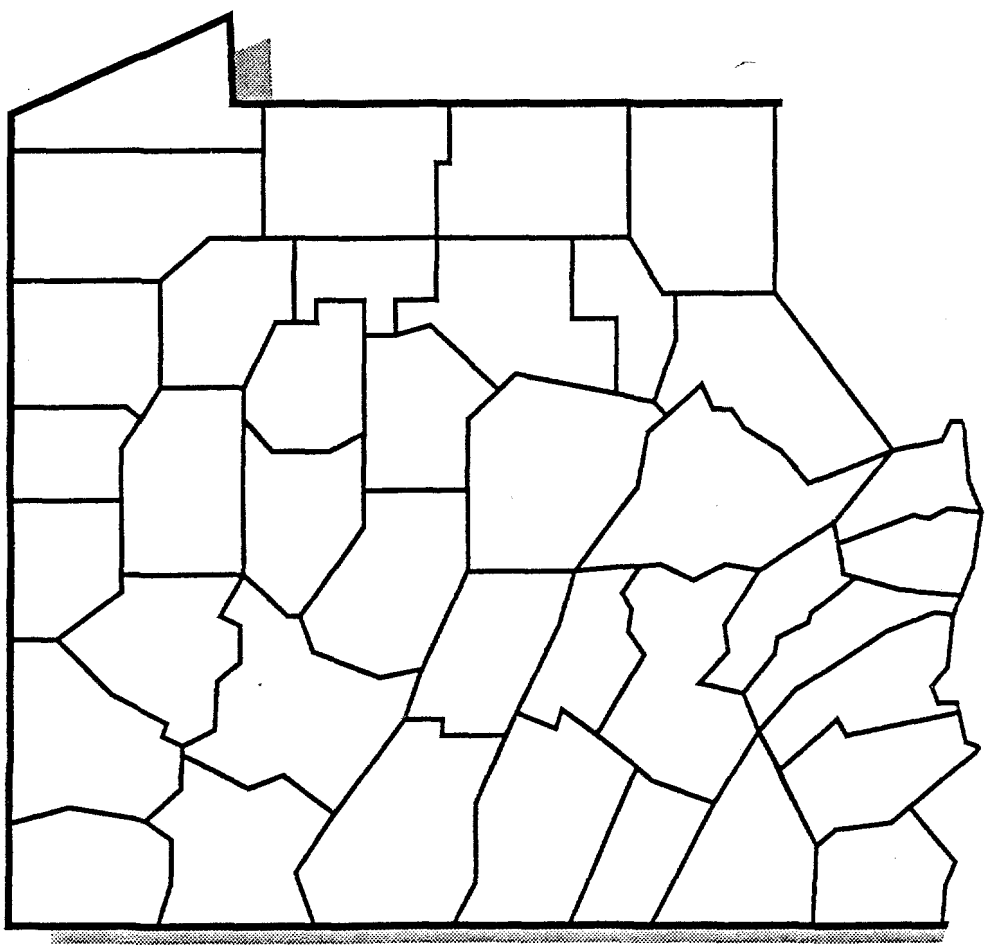
PR 92-274

PUBLIC SAFETY RADIO COMMUNICATIONS PLAN

- REGION 36 -
WESTERN PENNSYLVANIA

ORIGINAL
FILE

Developed in accordance with Federal Communications Commission
General Docket No. 87-112
as adopted November 24, 1987 and released December 18, 1987



NATIONAL PLAN - REGION 36

CHAIRMAN

JOHN S. HOLLAR, JR.
PENNSYLVANIA STATE POLICE
COMMUNICATIONS DIVISION
1800 ELMERTON AVE.
HARRISBURG, PENNSLYLVANIA 17110
(717) 787 - 0896

Region 36 - Western Pennsylvania

Planning Committee - 1800 Elmerton Avenue - Harrisburg, Pennsylvania - 17110

John. S. Hollar Jr.
Chairman
Pennsylvania State Police
Communications Division
717-787-0896

October 2, 1992

Ms. Donna Searcy
Secretary
Federal Communications Commission
1919 M Street N.W.
Washington, D.C. 20554

Dear Ms. Searcy:

The Region 36 Planning Committee, for Western Pennsylvania, is pleased to submit one (1) original and (4) copies of its Regional Plan for your review and approval by the Federal Communications Commission. The Committee has made every effort to formulate a plan which insures maximum utilization of the available spectrum for every eligible agency operating within the region.

The Plan represents the best effort of 24 members representing 14 agencies and addresses the concerns expressed by the Federal Communications Commission in its Report and Order terminating Docket 87-112.

Please direct any notices, correspondence or questions regarding this official filing to me.

Respectfully yours,

John S. Hollar Jr., Chairman
Region 36, Planning Committee

cc: Alireza Shahnami, APCO

REGION 36 PLAN

(As defined in)

FCC Gen. Docket No. 87-112

06-01-92

REGION 36 PLAN
(As defined in)
FCC Gen. Docket No. 87-112

TABLE OF CONTENTS

REGION 36 PLAN **APPENDIX INDEX**
(As defined in)
FCC Gen. Docket No. 87-112

REGION 36 PLAN
(As defined in)
FCC Gen. Docket No. 87-112

FORWARD

Future Planning Requirements

In order to provide realistic planning for public safety communications for the future, it is necessary to have sufficient contiguous radio spectrum at the onset of the planning process. There is a need for public safety contiguous radio spectrum to which an orderly migration from more conventional channels may proceed. The amount of spectrum allocated need not require substantially more spectrum than that already allocated to public safety. Efficiency gained through contiguous spectrum and advanced technology should result in adequate public safety communications. In exchange for contiguous spectrum, existing bands from 30 MHz up to the newly allocated 800 MHz band should be returned for reuse. Should their be insufficient spectrum, the planning effort is reduced to distribution of frequencies with little regard for the efficiencies sought. In urban areas, where frequency need and shortage is greatest, it is likely that the 800 MHz channels will be depleted before any type of significant planning process can make an inroad to the mounting demand for public safety communications. Spectrum sharing could provide short term additional frequencies to some urban areas. However, if the spectrum is not compatible inter-operability of public safety services could be compromised. Spectrum sharing appears available only within the major urban areas. Those areas just outside major urban areas are hardest hit without spectrum at

either 800 MHz or spectrum sharing. If, at a minimum, this plan could consider 800 MHz and TV sharing, for example, together; a more equitable and longer lasting plan would result. TV sharing could be used for limited coverage urban systems, while 800 MHz would be used for wide area systems which are now beyond the scope of TV sharing. Although allocation of spectrum in a piecemeal fashion appears necessary to satisfy present demand, holding the allocation as a pretext to a comprehensive Public Safety communications plan may not be prudent. Region 36 joins Region 28 in its hope.

REGION 36 PLAN
(As defined in)
FCC Gen. Docket No. 87-112

SCOPE

Introduction

When the Federal Communications Commission (FCC) announced the 821 MHz allocation of radio frequencies for the Public Safety Services in July 1986, a National Plan outlining the use of these public safety frequencies would have to be in place before any agency could receive channels from this new allocation. In November 1986, a national meeting of all interested parties was held in Washington, D.C. The Associated Public Safety Communications Officers, Inc., (APCO) was the convener. The major objective of the meeting was to determine the nature of the national plan. In December of 1986, the (FCC) established the National Public Safety Planning Advisory Committee (NPSPAC) bringing together parties interested in Public Safety in the planning effort. The deadline for submission of a final report from NPSPAC was established as September 30, 1987. The deadline was met. The recommendations contained in the Final Report were, for the most part, accepted by the FCC. A Final Report and Order, General Docket No 87-112, was adopted by the Commission, November 24, 1987. The National Plan established planning regions covering all parts of the United States, Puerto Rico, and the U.S. Virgin Islands. The Docket noted that no assignments would be made in the 821-824 and 866-869 MHz bands until a plan for each of the regions had been accepted by the FCC.

Region 36 Plan, per
FCC Docket 87-112

Forty-eight regions were identified in the final docket. Region 36 was identified as the "Western Pennsylvania" Region. However, the area defined in the Docket was in conflict with an area previously defined by an ad hoc regional planning committee, specifically, the Greater Delaware Valley Regional Planning Committee, which had been in existence for over one year. NPSPAC filed a "Petition for Partial Reconsideration and Expedited Action" with the F.C.C. requesting that Region 36 be modified to the Region identified by this Planning Committee.

Purpose

This Regional Plan was developed, as required by the Federal Communications Commission in Docket 87-112, to insure that maximum public benefit be derived <u>from all radio communication systems</u> used by eligibles that come under FCC rules for public safety radio services. Recognizing that Western Pennsylvania is currently not experiencing shortages in the number of radio channels needed by many public safety agencies, the Plan is never-the-less established with the objective of ensuring that unassigned frequencies could be distributed in an equitable fashion to those public safety agencies with the highest demonstrated need and to serve the interests of Commonwealth wide services wishing to establish a Pennsylvania statewide infrastructure in order to insure that the entire 821 MHz spectrum can being utilized in an efficient manner.

Coordination with Adjacent Regions

The importance of coordination of the Region 36 Plan with those of adjacent Regions has been uppermost in the minds of the committee members throughout the planning process. Consequently, the Region 36 Committee is pleased to be associated with members of other committees who also serve on Region 55, Region 33 and Region 28 Committees. The APCO frequency coordinator for Pennsylvania is a member of the Region 36 Committee. In addition, all of the surrounding Regions have been provided with a copy of the Plan and requested to provide their comments prior to filing of this plan. Positive comments were received from Region 55, Region 33, Region 20, and Region 28 and no comments were received from Region 44 (see Appendix K).

Flexibility of the Plan

Although the Plan concentrates on the current needs of the public safety community, there is recognition of the area's future requirements. To this extent the Plan may address such issues as UHF/TV sharing of frequencies, seeking a more restrictive definition of "public safety", channel loading models, introduction of new technologies such as mobile data, digital and simulcast as well as other operational/technical initiatives. Furthermore, as conditions change, the Plan will be modified, when warranted, to reflect such changes.

REGION 36 PLAN
(As defined in)
FCC Gen. Docket No. 87-112

AUTHORITY

Regional Planning Committee

The Federal Communications Commission, in its November 24, 1987 Report and Order applicable to Docket 87-112 noted:

> The Associated Public-Safety Officers, Inc. (APCO), acting under its frequency coordination responsibilities, will be responsible for convening a meeting to initiate the planning process in each region. For each region, APCO should appoint a local convener who will be responsible for organizing and publicizing the first planning meeting... ... The convener should set a date for the initial planning meeting, allowing at least 60 days for appropriate public notifications. Parties interested in participating in the regional planning process should contact the appropriate convener.

This was accomplished in Region 36, with the initial meeting being held on August 25, 1988, in the City of Pittsburgh, Public Safety Training Academy, Washington Blvd. & Negley Run Rd. Pittsburgh, Pennsylvania 15206 at 13:00. At that meeting, a board-of-officers was elected, rules of order established, and certain task chairpersons appointed. All attendants were invited to take part in the development of this Regional Plan.

National Interrelationships

The Regional Plan is in conformity with the National Plan. If there is a conflict between the two plans, the National Plan will govern. Regional Plans for other nearby areas may differ from the Plan for this area due to dissimilar situations. However, in order to insure uniformity for those applicants in Pennsylvania who require state-wide systems, there is intentional similarity between the Region 36 and the Region 28 Plan. By officially sanctioning this Plan the FCC agrees to its conformity to the National Plan. Nothing in the Plan interferes with the proper functions and duties of any organization appointed by the FCC for frequency coordination in the Private Land Mobile Service. This Plan provides procedures that are the consensus of the Public Safety Radio Services user agencies in the Region as well as in the Pennsylvania portion of Region 28. If there is any perceived conflict, the judgement of the FCC will prevail.

Federal Interoperability

Interoperability between Federal, State and Local Government during both daily and disaster operations will primarily take place on the five (5) common channels identified in the National Plan. Additionally, through the use of S-160 or equivalent agreements, a licensee may permit Federal use of its non-Federal communication system. Such use, on other than the five identified common channels, is to be in full compliance with FCC requirements for government use of non-government frequencies (Title 47 CFR section 2.103). It is permissible for a sub-

Federal licensee to increase channel requirements to account for up to a 2% increase in mobile units, provided that written documentation from Federal agencies supports at least that number of increased units.

Regional Plan Update Committee

With the approval of the Regional Planning Committee, the Chairman shall appoint a Regional Plan Update Committee (RPUC). This committee will remain in place to recommend changes in the Regional Plan to the FCC and provide a mechanism for interregional resolution of problems which arise.

The standing membership of the RPUC shall consist of the APCO designated local frequency advisor for the Regional Planning Area (one (1) member); plus one (1) each, representing the Commonwealth of Pennsylvania, and/or City of Pittsburgh, and for County Governments (three (3) members); three (3) members will also represent the Public Safety Radio Services with and two (2) members representing the Special Emergency Radio Service (five (5) members), for a total of nine (9) members. In no case shall any radio service have a majority membership.

The following rules and procedures shall be established:

- o elect a Chairperson
- o develop a mechanism to fill committee vacancies
- o with FCC approval, modify committee membership
- o set response time to process received frequency applications
- o publish meeting schedule
- o determine committee voting standards
- o develop applicant appeal process
- o audit implementation of those systems subject to the Plan
- o enact policy for frequency give-backs
- o maintain coordination with neighboring Regional committees
- o participate in the annual meeting of all Regional committees
- o promulgate other rules and procedures as required

It should be noted that the FCC will not fund any expenses incurred by the Regional Plan Update Committee.

REGION 36 PLAN
(As defined in)
FCC Gen. Docket No. 87-112

SPECTRUM UTILIZATION

This portion of the Plan provides a basis for proper spectrum utilization. Its purpose is to guide the Committee in their task of evaluating the implementation of radio communication systems within the Region.

Region Defined

As mentioned earlier, the Federal Communications Commission's Report and Order, adopted November 24, 1988 (applicable to General Docket No. 87-112), forty-eight Regions were identified. Region 36 was initially identified with having more counties in Pennsylvania resulting from the Region 28 dispute with that area which had been previously identified by the then in place ad hoc committee (The Greater Delaware Valley Regional Planning Committee). A Petition for Partial Reconsideration and Expedited Action was submitted to the FCC requesting that Region 28 be redefined so as to conform with the Regional boundaries established by the then in place ad hoc committees. The FCC granted relief. Region 36 lost counties to Region 28 which now includes half of New Jersey, the entire State of Delaware, specifically the counties of New Castle, Kent and Sussex. Thus, Pennsylvania was divided into two (2) regions. The West Branch Susquehanna River was generally the dividing line.

Usage Guidelines

All systems operating in the FCC Region 36 Planning area, having five (5) or more channels with similar coverages will be required to be trunked. Those systems having four (4) or less channels or with dissimilar coverages may remain conventional.

The FCC in its Report and Order states, "Exceptions will be permitted only when a substantial showing is made that alternative technology would be at least as efficient as trunking or that trunking would not meet operational requirements. Exceptions will not be granted routinely. Strong evidence showing why trunking is unacceptable must be presented in support of any request for exception."

Systems of four or less channels operating in the conventional mode which do not meet FCC loading standards will be required to share frequencies on a non-exclusive basis.

Statewide public safety agencies must submit their communications plans for impact approval if they utilize communications systems the Region.

The next level of communication coverage will be county/multiple municipality areas. Those systems which are designed to provide area communication coverage must demonstrate a need requiring such coverage. Coverages beyond the bounds of a jurisdictional area of concern may not be accepted for consideration unless it is critical to the protection of life and property or a part of frequency sharing. If 821 MHz trunked radio technology is utilized, any system designed should include as many

county/multiple municipality government public safety radio users as possible.

The county/multiple municipality agency or agencies, depending upon systems loading and the need for multiple systems within an area, should provide inter-communications between area systems. In a multi-agency environment, a lead agency which proposes 821 MHz spectrum must construct all of the Common Channels in this band as mandated by the National Plan. Such implementation must be reviewed and approved by the Committee.

Municipal government terminology in differing areas may not be uniform. Thus for the next level of communications will be presumed to be "Township". Township public safety communication should provide for communications need only within its boundaries. However, if the total number of radios in service does not reach minimum loading criteria for a trunked system, a township may be required to utilizing the next higher system level if 821 MHz trunked radio channels are available in the area. As higher level systems reach capacity, smaller system operator are encouraged to consider uniting their communications efforts to formulate one large system or forfeit of allocation of resources at 821 MHz.

Where smaller conventional 821 MHz systems are requested, frequencies assigned will not interfere with a Regional trunked system. 821 MHz trunked radio systems are assumed to be the higher technology and in greater compliance with FCC guidelines. Interfering Radio service that can be tolerated depends on the service affected. Protection of life

and property must receive the highest priority. Destructive interference caused to communications involved in these services must be abated through on going or cessation. Co-channel interference within an authorized area of coverage will be examined on a case-by-case basis. A standard of 12db below system strength will be considered the maximum tolerable interference.

A requesting applicant for radio communications in the 821 MHz public safety services in the Region will be required to provide loading criteria information for its proposed system. The provisions of this Regional Plan must be used as a guide for establishing any new systems. Strict adherence to limiting area of coverage to the boundaries of the applicant's jurisdiction must be observed. Overlapping or extended coverage must be minimized even where systems utilizing 821 MHz trunked radio are proposing to intermix systems for cooperative and/or mutual aid purposes.

Antenna heights are to be limited to provide only the necessary coverage for a system. When antenna locations are restricted to only the "high ground", transmitter outputs and special antenna patterns must be employed to produce the required coverage with a proper amount of ERP. Due diligent must be taken to insure maximum reuse of the limited 821 MHz spectrum.

As part of this plan, distances between transmitters for co-channel reuse may not be held to seventy (70) mile separation. Separation of co-channel transmitters will be determined by the coverage needs of the applicant, natural barriers affecting separation, use of antenna

patterns and limiting ERP's where possible. System tests and/or propagation studies may also be requested in order to establish minimum distances for separation.

Reassignment of Frequencies

It is anticipated that, in all but the most unusual cases, frequencies presently utilized by a licensee will be turned back for reassignment. The FCC authorized frequency coordinator for Pennsylvania will be responsible for assignment of the channels to other various agencies waiting for channels in the lower frequency bands. Normal coordination procedures will be followed with these take-back channels except that the applicant evaluation criteria established in the National Plan and further defined in this Regional Plan included in the consideration by the frequency coordinator for Pennsylvania.

In such cases where specific 821 MHz channels are required by numerous applicants, efforts will be made by the Region to facilitate a settlement prior to the application of the evaluation matrix. At this time the applicant evaluation matrix will be utilized. In all cases, area of coverage criteria and channel loading criteria will be applied, except upon compelling justification for results in receipt of waivers from the Regional Planning Committee. In general it will not be consistent with the goals and objectives of this Region to permit the direct reassignment of radio frequencies as a result of givebacks or 821 MHz allocations between agencies. All frequencies are to be returned to their respective pools to be assigned to the most public beneficial use. Similarly, an agency will not be able to use as sole justification "farm

down" its apposed frequencies to other services within its political subdivision simply to take advantage of surplus equipment. The need for communications by such an agency may be outweighed by the needs of another political subdivision.

This Regional Plan will consider, for planning purposes, the communication needs of all current eligibles under the FCC's Public Safety Radio Services and Special Emergency Radio Services. Additionally, this Regional Plan will consider the communication needs of those public safety service associated operations as the Regional Planning Committee may deem necessary and desirable for Local area needs.

SUPPLEMENT TO THE APPLICATION FORM

With each application form (modified APCO Form FDR2) submitted directly to the local frequency advisor, the applicant shall also supply the following supplemental information:

* Details of engineering survey showing radio coverage will not exceed applicants minimum requirements.
* Explain how system will be used to communicate with other services in other bands.
* A detail the finances required to insure construction of the proposed system within the required period.
* Explain how system will interface with long distant radio communications such as amateur radio, satellite communications, and/or long-range emergency preparedness communications systems.
* Statement of need for installing a new 821 MHz system.
* Explain and certify that the applicant's agency will comply the common channel implementation requirements.
* Detailed information as to the frequencies presently licensed to the applicant. Which frequencies will be turned back and which will be retained. Justification for any retained frequencies.

Blank Page

REGION 36 PLAN
(As defined in)
FCC Gen. Docket No. 87-112

COMMUNICATIONS REQUIREMENTS

Common Channel Implementation

It shall be the responsibility of each agency unless otherwise directed (in the case of data only systems) to provide base station equipment in compliance with the National Plan on the "Calling Channel".

Areas of Operation

The total area of operation shall encompass the Region, as defined elsewhere in the Plan, and shall extend outward to include the total system area of any system of which any portion thereof falls within the Region.

Operation of the Common Channels

Normally, the five interoperable channels are to be used only for activities requiring inter-communications between agencies not sharing any other compatible communications system. Interoperable channels are not to be used by any level agency for daily operations or for inter-agency communications not requiring interoperability. In major emergency situations, one or more tactical channels may be assigned by the primary dispatch center to alleviate temporary communications loading problems. Police, Fire and providers of Basic and Advanced Life support services will be the primary using agencies. Other services provided in their Public Safety Radio Service may also participate to the extent required to insure the safety of the public. School buses or other

approved transportation facilities shall be included into interoperability only to the extent that such vehicles are enrolled in an emergency evacuation plan under the auspices of an emergency management agency.

Sub Regions

Region 36 is broken down into sub-regions that conform with state political boundaries. Each sub-region, defined generally as a County or a group of counties, shall establish at least one mobile relay operation for the Calling Channel and the tactical channels assigned. Each dispatch center shall be responsible for the coordination with adjacent dispatch centers as well as with other central points in the region, if required. Any agency operating independently of the county plan (sub-region) shall be required to establish a radio control point on the calling and tactical channel in its area.

OPERATING PROCEDURES

Vocabulary

On all common channels plain ENGLISH will be used at all times, and the use of unfamiliar terms, phrases or codes will not be allowed. Users will be coming from varied backgrounds and disciplines each having its own language. Any attempt to introduce a new code might be delusionary and cause confusion, defect interoperability concept.

Calling Channel (CALL)

The calling channel shall be used to contact other users in the Region that can render assistance at an incident. This channel shall not be utilized as an ongoing working channel. Once contact is made between agencies, an agreed upon tactical or mutual aid channel shall be

used for continued communications.

Tactical Channels (TAC 1 - TAC 4)

These channels are reserved for use by agencies involved in interagency communications. Incidents requiring multi-agency participation will utilize these channels as directed by the control agency assuming responsibility for an incident or area of concern. These tactical Channels 1 through 4, are allocated to each sub-region as primary and secondary, such that co-channel interference will be minimized. The following is a schedule of tactical channel assignments for each of the sub-regions.

COUNTY	STATE	TAC CHANNEL PRI	SEC	COUNTY	STATE	TAC CHANNEL PRI	SEC
1. Adams	PA	1	4	21. Fulton	PA	3	2
2. Allegheny	PA	1	4	22. Greene	PA	1	4
3. Armstrong	PA	2	3	23. Huntingdon	PA	3	2
4. Beaver	PA	4	1	24. Indiana	PA	1	4
5. Bedford	PA	4	1	25. Jefferson	PA	4	1
6. Blair	PA	4	1	26. Juniata	PA	4	1
7. Butler	PA	3	2	27. Lawrence	PA	2	3
8. Cambria	PA	4	1	28. McKean	PA	1	4
9. Cameron	PA	2	3	29. Mercer	PA	1	4
10. Centre	PA	4	1	30. Mifflin	PA	2	3
11. Clarion	PA	1	4	31. Perry	PA	4	1
12. Clearfield	PA	1	4	32. Potter	PA	1	4
13. Clinton	PA	3	4	33. Snyder	PA	3	2
14. Crawford	PA	2	3	34. Somerset	PA	1	4
15. Cumberland	PA	3	2	35. Union	PA	1	4
16. Elk	PA	3	2	36. Venango	PA	4	1
17. Erie	PA	1	4	37. Warren	PA	3	2
18. Fayette	PA	4	1	38. Washington	PA	2	3
19. Forest	PA	2	3	39. Westmorelan	PA	3	2
20. Franklin	PA	2	3				

Network Operation Method

A network will be established on the calling channel, CALL. This network will be wide area to cover large sections of the Region. Multiple networks may be required to fully cover the outlying areas of the Region. Multi-state coverage networks may be monitored by a selected agency in the Commonwealth of Pennsylvania, i.e., State Police Communications. Communications systems on TAC 1 - TAC 4 will be implemented by agencies who place trunking systems on line. Every geographic section of the Region is intended to be covered by at least one of the working channels. Mobile relays on TAC 1 - TAC 4 may be provided for limited coverage to permit reuse of the channel within the Region or in adjacent Regions.

Encryption Standards

The use of encryption in the Region 36 Plan is encouraged by agencies, who requires the need to conduct covert operations assurancing communications security. The Plan recommends encryption techniques which provide high levels of security as well as a high level of voice recognition. It is also required that systems operating within the Region which utilize digital encryption algorithms, be transmitted in a digital format, an so that bit rates will not exceed the 25 KHz channel bandwidth. Agencies that interoperate with Federal agencies in covert operations may be required to use secure communications that comply with standards set by the National Security Agency. Standards vary according to classifications and are based on the sensitivity and nature of the

information to be exchanged. Many agencies, such as the FBI, US Customs, DEA, and the Coast Guard, who interoperate with State and Local agencies are required to use encryption which meets FIP-S42 (see also Federal Standard 1027 & 1024) data encryption standard. To provide encryption, all communication system infrastructures should be digital capable, that is capable of passing encrypted digital communications through a system(20K0F3E). A digital capability capable at base stations allow State, Local, and Federal agencies the use of units on any of these systems in the encrypted mode. Digital capability will accommodate agencies with S160 agreements and will provide anticipated future interoperability requirements. The nature of communications on the five (5) common channel pairs supports the National Mutual Aid system as designated for tactical operations, disaster and emergency management, as well as local and regional interoperability. The ability to operate securely on these channels could also protect and enhance these operations. The capability of these channels to support secure communications is strongly recommended.

Use of Long Range Communications

During major incidents of where public safety requirements might include the need for long range communications in and out of a disaster area, alternate radio communications methods should be addressed by each primary Public Safety Dispatch Center in the Region. At minimum, agencies operating such centers shall integrate the appropriate interface either electrically or through a dispatcher to interconnect with

the five (5) national channels. Expanded regional radio communications might be achieved through amateur radio operations, satellite communications and/or long range HF/SSB emergency preparedness communications systems. These techniques should be incorporated as part of the communications plan of all agencies. These techniques can provide the means to communicate outside an area when agencies need assistance. Instances an addressed in the National Public Safety Planning Advisory Committee's Plan, such as earthquakes, hurricanes, floods, widespread forest fires or nuclear reactor problems justify the use head for long range communication capabilities.

Use of Cellular Telephone

The incorporation of switched public telephone network (SPTN) in a planned radio system could plug a vital part in public safety communications. To provide this capability, Region 36 strongly recommends the use of cellular telephones in areas where (and when) cellular service is available. In addition, this Regional Plan encourages the use of dispatcher intervention when telephone interconnection to any planned radio system is proposed. Routine, day-to-day operations, using of automatic telephone interconnects, should be used sólely on a secondary basis and may not be used to determine loading requirements used to justify additional channels. Accordingly, interconnected traffic may cause loading of air time where the use of cellular telephones might not impact so dramatically. However, in exceptional circumstances (such as the cellular system becoming inoperable due to loading or equipment malfunction, or in those areas where there is no cellular telephone

service) automatic telephone interconnection may be used to provide access to the SPTN.

Blank

REGION 36 PLAN
(As defined in)
FCC Gen. Docket No. 87-112

IMPLEMENTATION AND PROCEDURES

Notification

All interested parties were invited to participate in the development of this Regional Plan. An Official Notification was accomplished by the FCC issuing a Public Notice and by the "convener" directly notifying organizations representing eligibles. In addition, the mobile communications print media was contacted by the "convener" and made aware of the Committee's formulation. Also notified were the appropriate government contacts through out the Region. See "Appendix H"

Evaluation Sub-Committee

The Evaluation Sub-Committee shall consist of the Chairman of the Region 36 Committee and the Task Group Facilitators for the Region 36 Committee. In addition, the APCO Frequency Advisor for Pennsylvania shall serve as a member of this sub-committee.

Frequency Allocation Process

The attached flow chart, (Appendix A) entitled "800 MHz Frequency Allocation Process", shows the sequence of events to be followed by The Region 36 Planning Committee in the process of allocating the six megahertz of 800 MHz spectrum. This process follows the guidelines established under the National Plan for Public Safety Spectrum Relief.

The Region 36 Plan incorporates a filing window concept which will provide for the evaluation of all applications for the available spectrum at the same time. The evaluation matrix process is as follows:

Upon approval of the Region 36 Plan by the Federal Communications Commission (FCC) the six megahertz of spectrum is made available for allocation. The allocation is placed in the frequency pool (Block #1). If frequencies are available in the pool (a second iteration of the evaluation matrix could occur if all frequencies are not allocated on the first iteration) a window opening announcement is made (Block #2). The window period will be two (2) calendar months or 60 days, (Block #3 thru Block #4) with early or late applications rejected (Block #5). Those applications which are received during the window period are reviewed by the Pennsylvania Frequency Advisor (Block #6). The Advisor will determine if the application is in compliance with the State Plan, if a State Plan exists (Block #7). An application that is not in compliance will be returned to the applicant with an explanation of changes required to be compliant. Having complied with State Plan and provided a needs assessment (Block 9) has been provided, the Evaluation Sub-Committee will apply the Evaluation Matrix (Block 10). The Evaluation Sub-Committee is defined as: one (1) member (four (4) minimum) from each area of eligibility, including the Frequency Advisor who are also members of the Planning Committee for Region 36.

The implementation of the Evaluation Matrix will result in the

award of a score for each application. That score is the total of the points awarded in seven categories, with a maximum possible score of 1000 points, as outlined in Appendix B. The seven (7) categories are as follows:

EVALUATION MATRIX

I. SERVICE (Block #11) - maximum score 350 points. Each of the eligible services has a predetermined point value. That point value ranging from 0 to 35 is multiplied by ten (10) to determine the score for the Service Category. An applicant with multiple services, within an entity will be scored on the basis of the number of different services that each system serves in the total system. That is, a system which is 80 percent police and 20 percent school administration (local government) would be awarded a total of 20 points.

II. INTEROPERABILITY (Block #12) - maximum score 100 points. The application is scored on the degree of interoperability that is demonstrated with a range of points from 0 to 100. This category does not rate the application on the inclusion of the mandated five common channels for interoperability. This category rates the application on its capability to communicate with different levels of government and services during times of emergency.

III. LOADING (Block #13) - maximum score 200 points. Applicants demonstrating that they are part of a cooperative, multi organization system will be scored on a range of 0 to 150 points depending upon the extent of the cooperative system. An expansion of an existing 800 MHz

system will be scored on a range of 0 to 50 points, depending upon the degree of expansion. A system could be an expansion of an existing 800 MHz system and a cooperative system as well and as a result receive the combined point values for these two sub-categories for a maximum value of 200 points.

IV. SPECTRUM EFFICIENT TECHNOLOGY (Block #14) - maximum score 50 points. This category scores the applicant on the degree of spectrum efficient technology that the system demonstrates. A point value range of 0 to 50 points can be awarded for this category. A trunked system would be considered a spectrum efficient technology as well as any technological systems feature which is designed to enhance the efficiency of the system and provide for the efficient use of spectrum.

V. SYSTEMS IMPLEMENTATION FACTORS (Block #15) - maximum score 100 points. This category scores the applicant on two factors, fiscal responsibility and planning completeness. The degree of fiscal responsibility is scored on a range of 20 to 50 points. Applicants demónstrating that the system proposed can be constructed within the required construction period will receive the full score of 50 points. Applicant's having no financial commitment nor approved budget (0 to 19 points) will be considered "speculative" and will be dismissed as defective in the current window under consideration. Each applicant will be scored on the degree of planning completeness with a range of scoring from 10 to 50 points. Applicants will be required to submit a time table for

the implementation of the communications system or systems (10 points).

VI. GEOGRAPHIC EFFICIENCY (Block #16) - Maximum point value of 100 points. Each applicant will be scored on the level of geographic efficiency based on the following factors; total number of radio units (including control stations), the number of frequency pairs requested, and the square miles covered. For a line zone system the square mile figure will be replaced by the length in miles of the line.

VII. GIVEBACKS (Block #17) - maximum score 100 points. The applicant is scored in two sub-categories, each having a point range of 0 to 50; the number of channels given back and the extent of availability of those channels to others. The greater the number of channels given back, the higher the score. The greater the level of availability of the give-backs, the higher the score will be in this sub-category.

Points are totaled for each application (Block #18) and the applications are prioritized by the Evaluation Sub-Committee (Block #19). The frequency pool is allocated (Block #20) and the Regional Plan is updated. The plan is then sent to the FCC for review and approval as outlined in the Report and Order Docket 87-112 (Block #21). Upon approval of the plan by the FCC, the applicant will be notified and the prepared (FCC Form 574) applications are submitted to APCO for coordination (block 22), after successful processing and site consideration, the FCC would grant the license to the applicant (Block #23).

The system implementation is monitored by the Local Frequency Advisor who determines if progress is made on the implementation of the system (Block #24). If progress is made (Block #25) the system is ultimately implemented (Block #26). If progress is not made the licensee is warned of the consequences of his lack of progress (Block #27). The Commonwealth of Pennsylvania Frequency Advisor continues to monitor implementation progress (Block #28). If the continued monitoring indicates that progress is still not being made the licensee is notified of pending action to withdraw the license (Block #29). The notified licensee can appeal this action (Block #30) or can allow the license to be withdrawn (Block #31). If the allocated frequencies are withdrawn they are added back to the frequency pool (Block #32) and the process starts a second iteration at Block #1.

Implementation Schedules (Slow Growth)[1]

The majority of eligible public safety organizations are either of State and Local government, or else are subject to governmental regulation. The nature of governmental planning and budgeting processes, combined with difficult revenue constraints, prohibits most eligibles from implementing newer technology systems in the normal time required by FCC Rules (8 months for construction of conventional stations, 12 months for trunked stations).[2] In most cases, public safety systems will require multi-year phased-implementation schedules requiring three to five times as long to construct as private or commercial systems.

Regional, wide-area, and statewide systems may require even longer periods to construct.

In view of these known situations, this Regional Plan has established an extended implementation schedule ("slow growth") in accordance with FCC Rules[3] which is available to all eligible applicants, if requested by stating "SLOW GROWTH" on the license application.

A "SLOW GROWTH" schedule will allow up to three years for completion of station construction. Regardless of station construction time however, the FCC five-year channel loading requirement (of mobiles, portables and RF control stations) is maintained by this Region Plan.

Applicants who clearly request "SLOW GROWTH" on their license application are not required to submit the specific items of "SLOW GROWTH" justification otherwise required by FCC Rules.

Applicants who propose a station construction schedule which is longer than the three-year "SLOW GROWTH" schedule, or a channel loading schedule (for mobiles, portables, and RF control stations) beyond five years, are required to submit a Request for Waiver for such additional extensions of time in accordance with FCC Rules.

Appeal Process

Throughout the frequency allocation process applicants are given opportunities to appeal decisions which have caused rejection of their application. The appeal process has two levels; APCO and the FCC. An applicant who decides to appeal a rejected application should initiate that appeal immediately upon notification of rejection. In the event

that an appeal reaches the second level, the FCC, their decision will be final and binding upon all parties.

1. This section of the Plan was accomplished through an amendment to the FCC.
2. See FCC Rules and Regulations 90.155 (a) and 90.631 (e).
3. See FCC Rules and Regulations 90.629, 90.631 and 90.633.

REGION 36 PLAN
(As defined in)
FCC Gen. Docket No. 87-112

EPILOGUE

The development of an operational plan providing for frequency assignment within Region 36 has been achieved with the effort, support and time by the parties of interest. The formulating committee has had the advantage of a wide range of individual representation and the assistance of Regional Plans already operating throughout the country. The objective, upon which it has been devised, recognizes current and future public safety needs including the interoperability among users (for both the new allocation and for those presently using 806/821 & 851/866 MHz.Band). The plan further recognizes the importance and proper use of the common mutual aid channels also established by the allocation.

Of great importance was the need to insure that the plan be flexible enough to provide for expansion of systems. System modifications must not be unduly restricted in order to employ evolving applications and technologies nor to provide voice/data encryption. The interdiction of high speed data transmission from and to mobile units as well as between base stations and links, must offer highly efficient alternatives to traditional technologies and will serve both inter and intra disciplinary modes of operation.

EPILOGUE

No matter how proficient, our plan is not without its caveats. More than likely any deficiency will be caused not by ignorance but in the absence of a more convincing argument supporting another alternative. An issue requiring refinement will be the obvious interaction of coordination required between Regions. Frequency demands near borders is sure to create conflict between Committee assignment criteria. In the case of Region 36, the Commonwealth of Pennsylvania is a divided Region which conceivably could require as many as eight (8) Regional concurrences for the assignment of a single channel if used statewide.

The cumulative effect of this added coordination activity will impose strain upon the system and may profoundly effect the resources which may be approved for use.

The establishment of this plan under which allocations will be made, require a much greater emphasis upon short range rather than long range telecommunications planning. Because the Federal Communications Commission has indicated that it intends to grant waivers in cases which are fully justifiable, the nature of waivers will soon be accepted as reasonably assured and become practice. By assuming that greater emphasis be placed in awarding allocation consideration to funded rather than speculative or integrated rather than isolated systems, many of these waivers may not be necessary if long range planning is credible.

For almost every assignment criteria proposed, an adjustment will more than likely need to be made. Planning groups wishing to conclude their work in order to provide an approved allocation rationale must also provide for suitable policy revisions should the need arise.

The issue of engineering standards in signaling and equipment systems has clearly been resolved in the record but remains as an issue of controversy. The long range effect of no set standard will be hard to predict. Yet it may be possible for interface software to solve the manufacturing incompatibility problem in the future with imposition of such standards. In addition, manufacturers who develop equipment and systems with ease of frequency agility can maximize the effectiveness of any mistakenly assigned frequencies or whole scale readjustment which may be required in an on going program. Such capability would be very desirable and definitely enhance the Frequency Coordinating Group's task of maximizing systems.

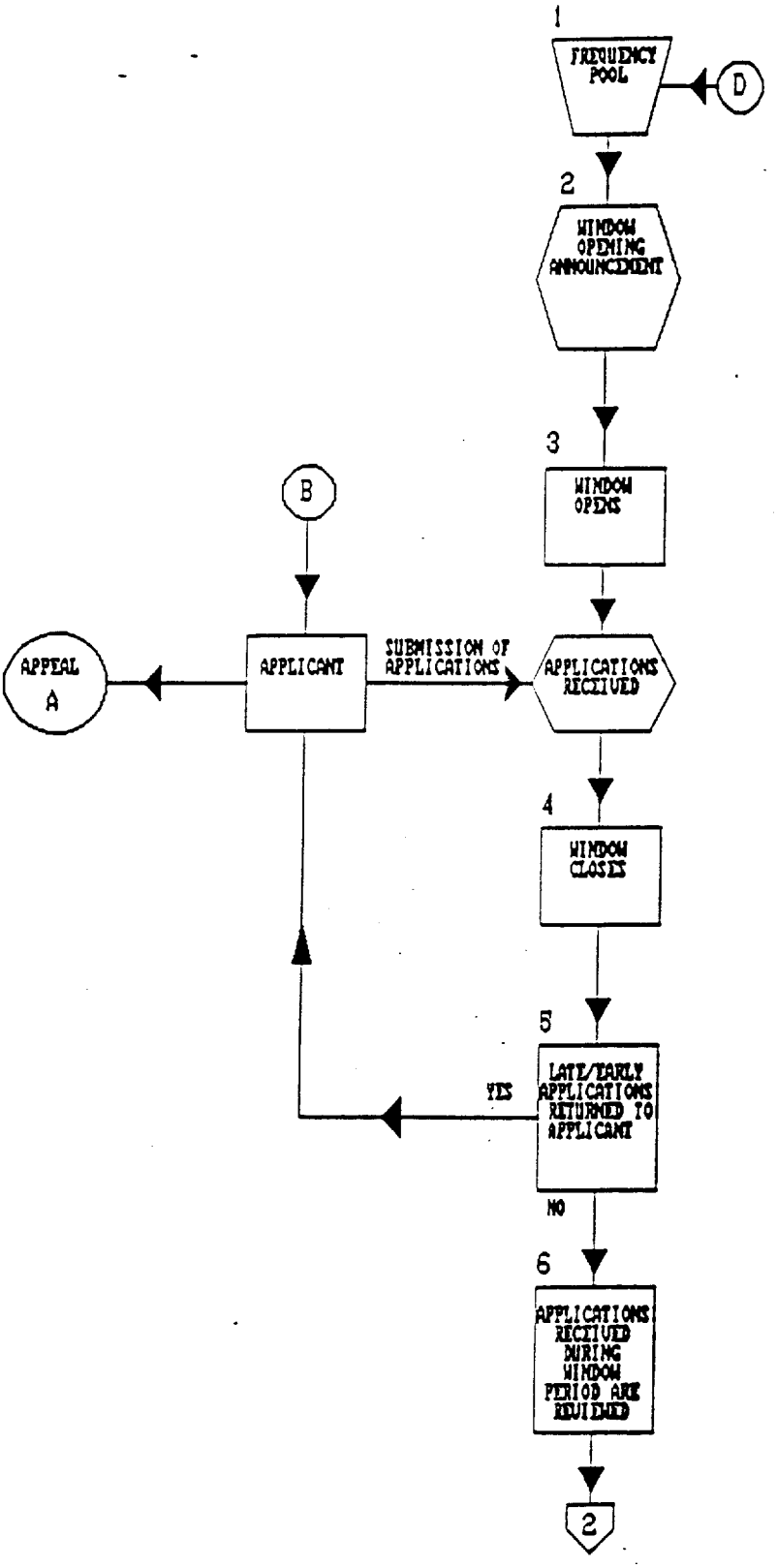
Finally, the committee encourages the development of user groups to resolve economies of scale, and facility sharing arrangements, or future systems. Perhaps legislation could enhance the attractiveness of such sharing by protecting users from unsuspected liabilities characteristic of such participation.

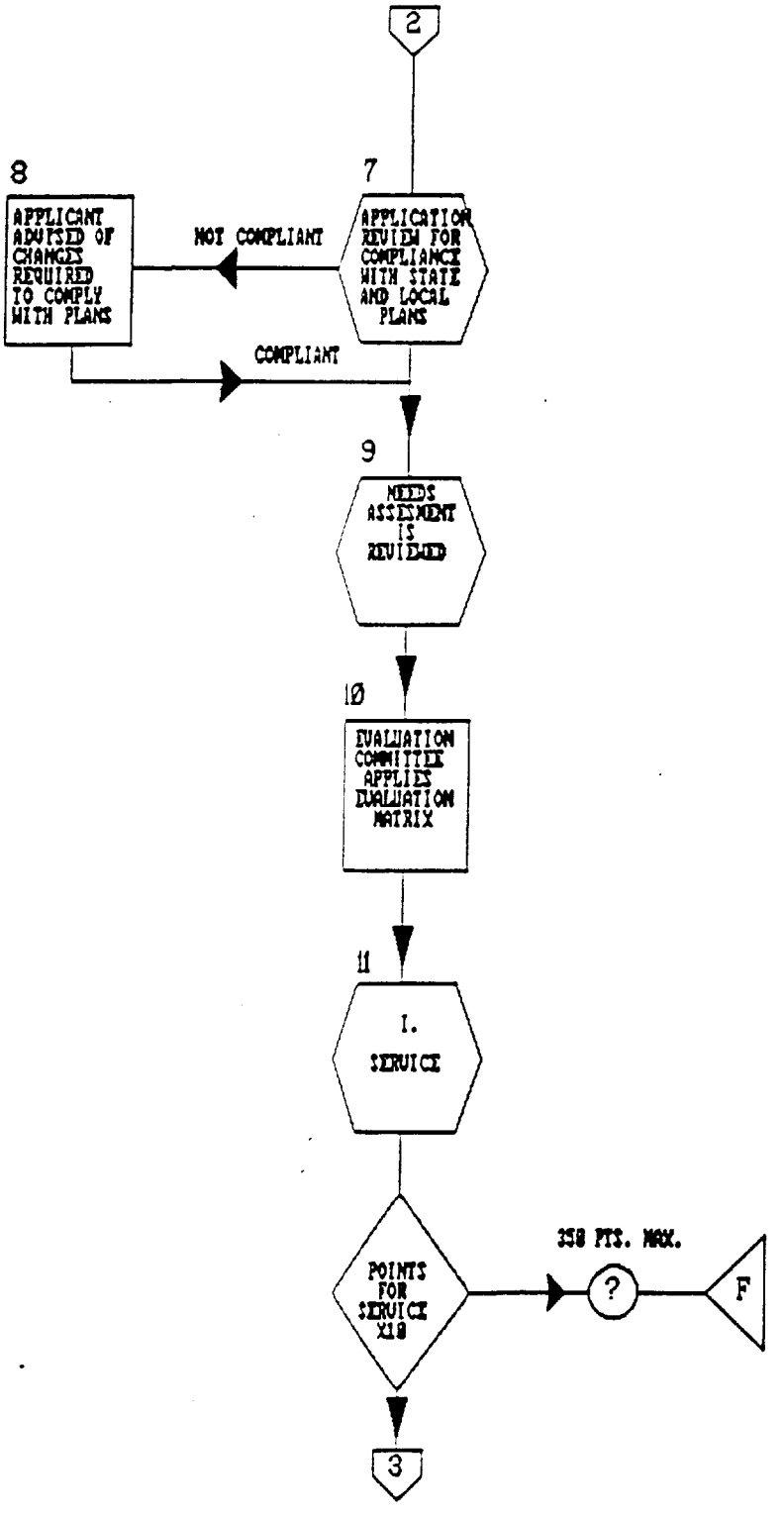
The potential for the creative use of this resource and the effective use of the reserve are at complete odds. If current resources are totally maximized then reserves may be slow to be assigned or assigned elsewhere. If on the other hand Committees are liberal in their assignments, the reserves may be reached far sooner than predicted. This self-defeating conflict of interest will play a part in the effectiveness of all planning and coordination group of activities. The

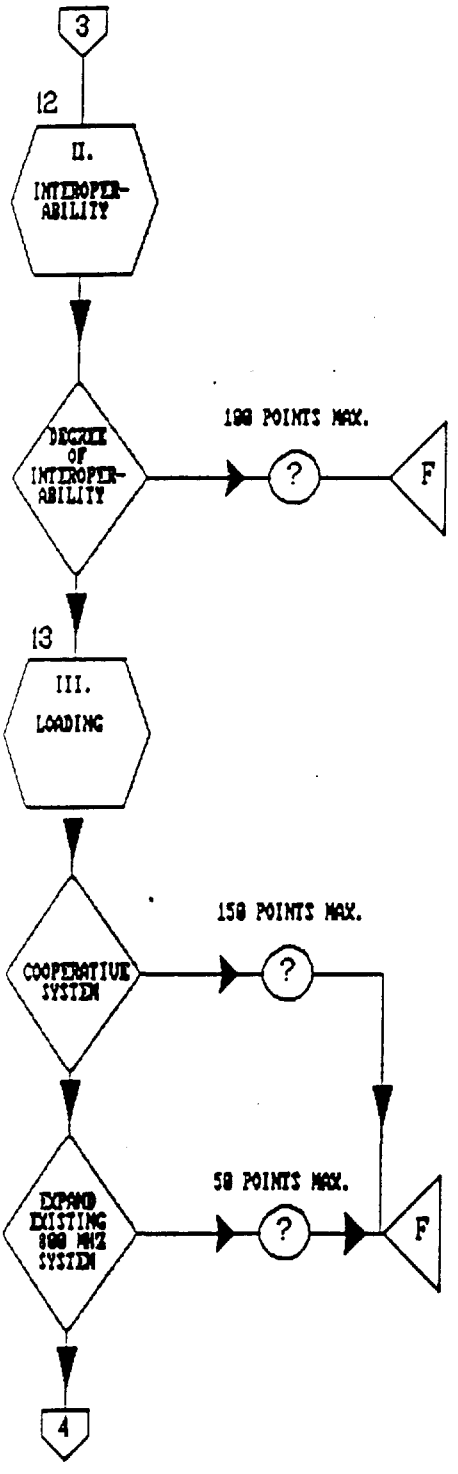
FCC should provide some assurance now that reserves will be provided so that initial efforts will not be undermined.

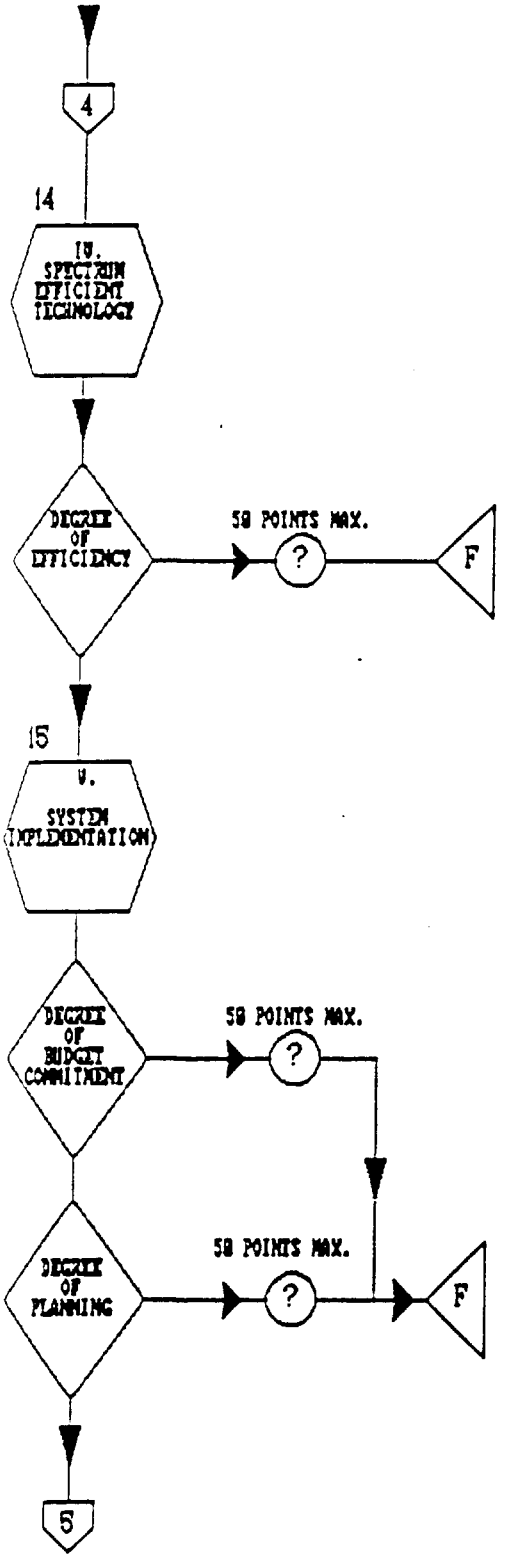
***** End *****

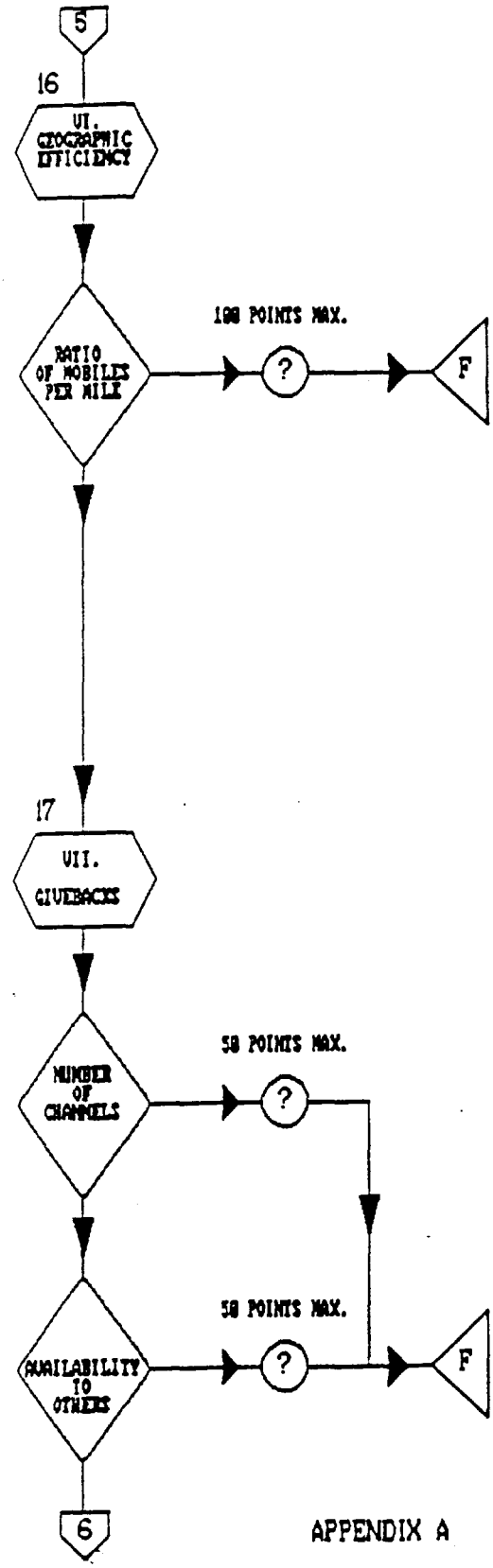
800 MHZ FREQUENCY ALLOCATION PROCESS

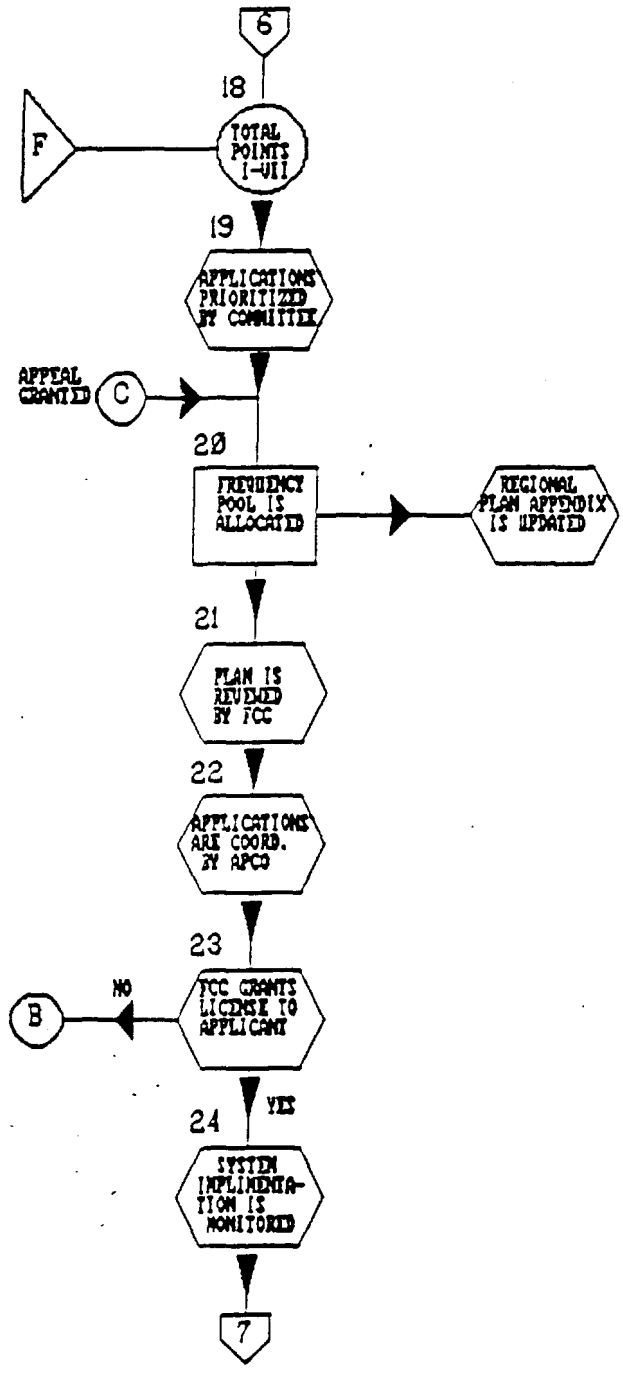


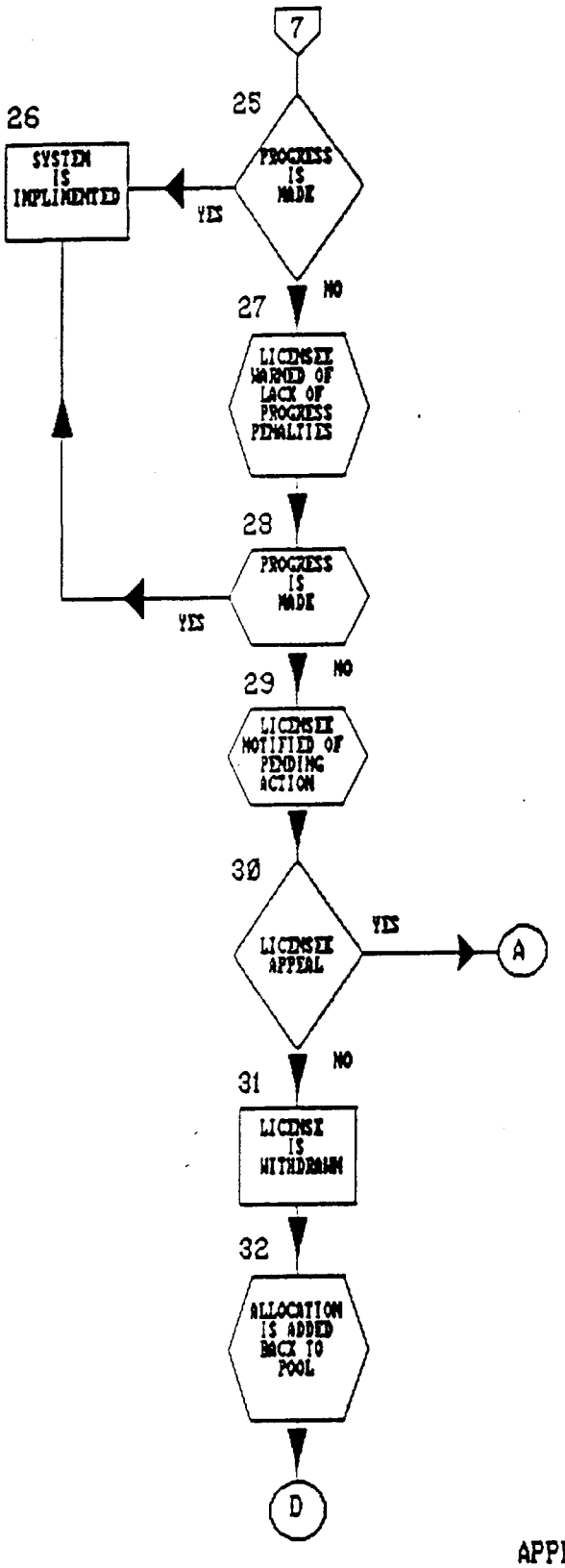

2
8
APPLICANT ADVISED OF CHANGES REQUIRED TO COMPLY WITH PLANS
NOT COMPLIANT
7
APPLICATION REVIEW FOR COMPLIANCE WITH STATE AND LOCAL PLANS
COMPLIANT
9
NEEDS ASSESSMENT IS REVIEWED
10
EVALUATION COMMITTEE APPLIES EVALUATION MATRIX
11
I.
SERVICE
POINTS FOR SERVICE X10
250 PTS. MAX.
?
F
3


3
12
II.
INTEROPER-
ABILITY
DEGREE
OF
INTEROPER-
ABILITY
100 POINTS MAX.
?
F
13
III.
LOADING
COOPERATIVE
SYSTEM
150 POINTS MAX.
?
EXPAND
EXISTING
800 MHZ
SYSTEM
50 POINTS MAX.
?
F
4

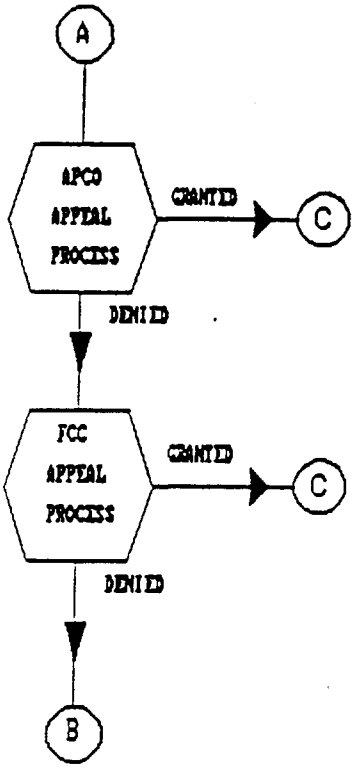

4
14
IV.
SPECTRUM
EFFICIENT
TECHNOLOGY
DEGREE
OF
EFFICIENCY
50 POINTS MAX.
?
F
15
V.
SYSTEM
IMPLEMENTATION
DEGREE
OF
BUDGET
COMMITMENT
50 POINTS MAX.
?
DEGREE
OF
PLANNING
50 POINTS MAX.
?
F
5


5
16
VI. GEOGRAPHIC EFFICIENCY
RATIO OF MOBILES PER MILE
100 POINTS MAX.
?
F
17
VII. GIVEBACKS
NUMBER OF CHANNELS
50 POINTS MAX.
?
AVAILABILITY TO OTHERS
50 POINTS MAX.
?
F
6


6
18
F
TOTAL POINTS I-VII
19
APPLICATIONS PRIORITIZED BY COMMITTEE
APPEAL GRANTED
C
20
FREQUENCY POOL IS ALLOCATED
REGIONAL PLAN APPENDIX IS UPDATED
21
PLAN IS REVIEWED BY FCC
22
APPLICATIONS ARE COORD. BY APCO
23
NO
B
FCC GRANTS LICENSE TO APPLICANT
YES
24
SYSTEM IMPLIMENTATION IS MONITORED
7


7
25
26
SYSTEM IS IMPLIMENTED
PROGRESS IS MADE
YES
NO
27
LICENSEE WARNED OF LACK OF PROGRESS PENALTIES
28
PROGRESS IS MADE
YES
NO
29
LICENSEE NOTIFIED OF PENDING ACTION
30
LICENSEE APPEAL
YES
A
NO
31
LICENSE IS WITHDRAWN
32
ALLOCATION IS ADDED BACK TO POOL
D

APPEAL PROCESS



REGION 36 PLAN
(As defined in)
FCC Gen. Docket No. 87-112

CATEGORY I. SERVICE

FCC/PAR	SERVICE DESCRIPTION	*SA/SS (MIN)	*SA/MS (AVG)	*MA/MS (MAX)	POINT VALUE (AVG. x 10)
(90.17)	LOCAL GOVERNMENT:	5.9	11.7	16.6	117
	Transit systems	5.0	16.6	30.0	166
	Utility Operations	5.0	16.0	30.0	166
	School Boards	0.0	5.9	20.0	59
	Administration	0.0	8.9	25.0	89
	Maintenance	5.0	12.4	25.0	124
	Security Patrols	5.0	14.4	25.0	144
	Other Functions	0.0	6.9	25.0	69
(90.19)	POLICE: (Primary)	35.0	35.0	35.0	350
	(Auxiliary)	5.0	16.7	30.0	167
(90.21)	FIRE:	35.0	35.0	35.0	350
(90.23)	HIGHWAY:	10.0	21.4	30.0	214
(90.25)	FORESTRY: (Fire)	15.0	27.9	35.0	279
	(Conservation)	10.0	14.6	35.0	146
(90.35)	MEDICAL SERVICES:	4.5	7.0	11.0	70
	Hospitals	0.0	11.0	20.0	110
	Invalid Coach	0.0	5.6	20.0	56
	Physicians	0.0	4.5	10.0	45
(90.37)	RESCUE ORGANIZATIONS : (Basic & Advanced Life Support Systems)	35.5	35.0	35.0	350
(90.38)	PHYSICALLY HANDICAPPED:	0.0	7.3	20.0	73
(90.39)	VETERINARIANS:	0.0	2.2	5.0	22
(90.41)	DISASTER RELIEF ORG.:	5.0	11.6	20.0	116
(90.43)	SCHOOL BUSES:	3.8	8.4	14.3	84
	Private Under Contract	0.0	3.8	10.0	38
	Municipal Operation	0.0	7.2	20.0	72
	Part of OEM EVAC	5.0	14.3	35.0	143
(90.45)	BEACH PATROLS:	0.0	11.1	30.0	111
(90.47)	ISOLATED AREAS:	0.0	8.9	25.0	89
(90.49)	COMMUNICATIONS STANDBY:	0.0	8.2	25.0	82

(90.51) REPAIR OF COMM. FAC.:	0.0	11.1	25.0	111

* SA/SS = Single Agency/Single Service
* SA/MS = Single Agency/Multiple Service
* MA/MS = Multiple Agency/Multiple Service

CATEGORY II. INTEROPERABILITY

This category measures the ability of the applicant to communicate with other governmental entities and services during times of emergency, without consideration given for the five common channels. The 100 points are awarded on the bases of ability to communicate with additional entities or services:

ADDITIONAL ENTITIES:	NUMBER OF POINTS:
ONE	20
TWO	40
THREE	60
FOUR	80
FIVE OR MORE	100

CATEGORY III. LOADING

PART 1:

Loading will consider the cooperative, multi-organization type systems awarding points based on 10 points per hundred mobiles of actual system loading:

NUMBER OF CHANNELS:	POTENTIAL UNIT LOADING:	NUMBER OF POINTS:
1 TO 4	300 UNITS	30
5 TO 9	900 UNITS	90
10 TO 14	1400 UNITS	140
15 OR MORE	1500 PLUS	150

PART 2:

Expansion to an existing system is awarded bonus points based on the minimum number of channels requested with the maximum loading at 10 points per channel, up to five channels:

NUMBER OF CHANNELS:	POTENTIAL UNIT LOADING:	NUMBER OF BONUS POINTS:
1	100	50
2	200	40
3	300	30
4	400	20
5 OR MORE	500 PLUS	10

CATEGORY IV. SPECTRUM EFFICIENT TECHNOLOGY

Applications are awarded points based on the type of technology utilized at 5 points per channel for conventional systems and 10 points per channel for trunking systems and is considered on bases of spectrum which offers maximum loading with minimum channels:

NUMBER OF CHANNELS:	POINTS FOR CONVENTIONAL:	POINTS FOR TRUNKING:
1	25	50
2	20	40
3	15	30
4	10	20
5 OR MORE	5	10

CATEGORY V. SYSTEM IMPLEMENTATION

If the applicant provides documentation of clear budgetary commitment and documentation of complete plan for system implementation. The application will be awarded the entire 100 points. However, if the documentation does not clearly demonstrate total budget and planning commitment to a complete system then the application will receive a percentage of the total 100 points as determined by the Evaluation Sub-Committee.

CATEGORY VI. GEOGRAPHIC EFFICIENCY

The application will be awarded a part of the 100 points based on two factors:

1. The total square-miles of proposed system coverage at a percentage ratio of MOBILES-PER-MILE, and

2. The potential channel reuse, with exceptions to "strip or ribbon" type systems, which will receive a fixed score of 75 points due to the difficulty in calculating efficiency of such systems.

Apply the following formulas:

1. [(SQUARE MILES/10) / (SQUARE MILES/MOBILES) = % FACTOR]

2. [POINTS AWARD = % FACTOR * 50]

Example: A County Government entity requests a 5 channel system for a proposed system in a geographic area having 325 square miles and a loading of 750 mobiles and portables. The system area of 325 square miles is divided by the 750 mobiles which is a ratio of .433, then divide a scale factor of 32.5 by the .433 ratio to arrive at percent factor of 75 % of the total points to be awarded which is 75% of 50 or 37.5 points. The other 50 points will be awarded based on the channel reuse potential [1 point per 10 square miles of covered area]. This example covers an area of 325 square miles. If we divide the 325 by 10 we will arrive at an award of 32.5 points for channel reuse. The points for this example re: 37.5 for mobiles-per-mile and 32.5 for channel reuse for a total of 70 points.

CATEGORY VII. GIVEBACKS

The points awarded or the number of channels given back and the extent of reuse by other entities will be determined by the amount of documentation provided by the applicant. The Core Committee will then determine a percentage based on the number of channels requested and the number of channels being given back and a prospect list for reuse provided by the local frequency advisor.

APPENDIX C

REGION 36 PLAN
(As defined in)

FCC Gen. Docket No. 87-112

POPULATION IN THE REGIONAL PLANNING AREA
1988 & 2000

County	Population 1988	Population 2000	Change	Percent Change
Pennsylvania				
Adams	68,411	69,129	718	1.0
Allegheny	1,409,829	1,439,435	29,606	2.1
Armstrong	82,238	106,909	24,671	29.9
Beaver	199,161	203,343	4,182	2.1
Bedford	48,060	54,788	6,728	14.0
Blair	134,396	137,218	2,822	2.0
Butler	151,253	169,403	18,150	11.9
Cambria	177,106	180,825	3,719	2.1
Cameron	6,615	6,754	139	2.1
Centre	114,461	123,617	9,156	8.0
Clarion	43,085	43,989	904	2.0
Clearfield	84,534	89,352	4,818	5.6
Clinton	39,132	39,953	821	2.1
Crawford	89,052	90,922	1,870	2.0
Cumberland	185,541	217,082	31,541	16.9
Elk	37,617	38,407	790	2.1
Erie	282,124	293,973	11,849	4.2
Fayette	159,178	162,521	3,343	2.1
Forest	5,040	5,146	106	2.1
Franklin	116,248	130,197	13,949	11.9
Fulton	13,549	17,451	3,902	2.8
Greene	41,200	45,093	3,893	9.4
Huntingdon	42,716	45,151	2,435	5.7
Indiana	93,321	98,640	5,319	5.7
Jefferson	48,922	52,248	3,326	6.7
Juniata	19,830	23,201	3,371	16.9
Lawrence	105,772	107,993	2,221	2.0
McKean	49,248	50,282	1,034	2.1
Mercer	126,943	129,608	2,665	2.3
Mifflin	46,649	47,628	979	2.1
Perry	37,621	48,154	10,533	27.9
Potter	18,350	21,653	3,303	18.0
Snyder	35,384	45,291	9,907	27.9

POPULATION IN THE REGIONAL PLANNING AREA
1988 & 2000

County	Population 1988	Population 2000	Change	Percent Change
Pennsylvania				
Somerset	81,882	85,157	3,275	3.9
Union	33,620	37,654	4,034	11.9
Venango	64,467	65,820	1,353	2.1
Warren	47,672	48,911	1,239	2.6
Washington	217,184	221,744	4,560	2.9
Westmoreland	386,603	394,721	8,118	2.1
Total Pennsylvania	4,944,014	5,189,363	245,349	4.9

Source: U.S. Department of Commerce, Bureau of Census (Pennsylvania).

APPENDIX D

REGION 36 PLAN
(As defined in)

FCC Gen. Docket No. 87-112

POPULATION DENSITY OF COUNTIES IN THE REGIONAL PLANNING AREA
1988 & 2000

County	SQUARE MILES	Population PER Square Mile 1988	2000
Pennsylvania			
Adams	525	120	131
Allegheny	728	1,936	1,977
Armstrong	652	126	163
Beaver	440	452	462
Bedford	1,018	47	53
Blair	530	253	258
Butler	794	190	213
Cambria	692	255	261
Cameron	401	16	17
Centre	1,115	102	110
Clarion	597	72	74
Clearfield	1,139	74	78
Clinton	899	43	44
Crawford	1,012	88	90
Cumberland	555	334	391
Elk	807	46	47
Erie	813	347	361
Fayette	802	198	202
Forest	419	12	12
Franklin	754	154	172
Fulton	435	31	40
Greene	578	71	78
Huntingdon	894	47	50
Indiana	825	113	119
Jefferson	652	75	80
Juniata	386	51	60
Lawrence	367	288	294
McKean	992	49	50
Mercer	670	189	193
Mifflin	431	108	110
Perry	551	68	87
Potter	1,092	16	19
Snyder	327	108	138

POPULATION DENSITY OF COUNTIES IN THE REGIONAL PLANNING AREA
1988 & 2000

County	SQUARE MILES	Population PER Square Mile 1988	2000
Pennsylvania			
Somerset	1,078	76	78
Union	318	105	118
Venango	678	95	97
Warren	905	52	54
Washington	857	253	259
Westmoreland	1,024	377	385
Total Region 36	27,753	178	186

Source:

U.S. Department of Commerce, Bureau of Census (Pennsylvania).

- REGION 36 -
WESTERN PENNSYLVANIA

Developed in accordance with Federal Communications Commission
General Docket No. 87-112
as adopted November 24, 1987 and released December 18, 1987

Area Planning Map

Appendix E
to the Regional Plan

REGION 36 PLAN
(As defined in)

FCC Gen. Docket No. 87-112

FREQUENCY ASSIGNMENT METHODOLOGY

Introduction:

The frequency assignment methodology used is a two stage process. The first stage is to assign channels, to the degree possible, to all eligibles who have applied for them in accordance with the committee's plan. The second stage is to create frequency pools to be used by future applicants for channels which satisfy the coverage and interference parameters to be defined later in this section.

Desired Coverage:

The desires coverage of a system is considered to be, as a maximum, three (3) miles outside of the boundary of the applicant's jurisdiction. The maximum "designed mean signal strength" at this contour shall not exceed +40dbu (+40db above one microvolt per meter). In order to allow f practical system design, the 3 mile pad may be altered on a case by cas basis, and the minimum coverage radius in all cases shall be five (5) miles.

Interference -- Co-channel:

Co-channel assignments will be made when it is determined that the two or more systems will create a signal strength of +5dbu or less anywhere within their co-channel partner's boundary.

Interference -- Adjacent Channel:

Adjacent channel assignments will be made when it is determined that the two or more systems will create a signal strength of +25dbu or less anywhere within their adjacent channel partner's boundary.

Miscellaneous Considerations:

For practical engineering reasons in the area of transmitter combining, frequency assignments for the same site, for the same applicant, will be spaced 0.25 MHz apart, to the degree possible.

Computer Model:

The computer propagation model used to calculate the "designed mean signal strength" is Okumura/Hata. This model has been shown to provide the most accurate results in this frequency band.

Computer Aided Assignments:

A computer program is used to do the many calculations and iterations required to solve an otherwise impossible task of efficient channel usage.

Inputs to the program include the applicant's identification, location, coverage requirements and number of channels.

The computer will take all of the inputs and find, if possible, a solution of specific channel assignments which meet the coverage and interference parameters stated above using the minimum number of channels.

Following this stage, future assignments are considered by creating compatible pools of channels based on growth projections of population.

Region 36 Plan, per
FCC Gen.Doc. 87-112

Appendix F
Summary of Informational
Window May 1, 19[illegible]

KEY: B - Butler County
C - Commonwealth of Pennsylvania
CA - Cambria County
CL - Carlisle Advance Life Support
F - Forest County
P - Penn State University
PSP - Pennsylvania State Police

ADAMS	658C	682C	706C	764C	784C					
ALLEGHENY	604C	616C	624C	626C	628C	632C	638C	642C	647C	651C
	653C	662	666	671	673	678	684	686	704	706
	708	714	716	722	724	726	728	734	742	744
	746	748	754	764	783	785	787	799	803	806
	808	812	823							
ARMSTRONG	606C	618C	655C	777C	797C	818				
BEAVER	607C	622C	649C	669C	693C	712C	718C	750C	769C	771C
	791	793								
BEDFORD	616C	621C	636C	645C	775C	790C	796C	812C	819C	
BLAIR	603C	623C	643C	794C	816C					
BUTLER	602B	640B	660B	675B	680B/	697C	700C	732C	759C	779C
	810C									
CAMBRIA	619CA	629CA	631CA	641CA	649CA	654CA	669CA	763CA	768CA	784CA
	786C	788C	805C	807C	809C					
CAMERON	602C	622C	642C	797C	817C					
CENTRE	611P	615P	635P	637P	657P	659P	661P	680C	732C	752C
	754C	758C	772C	774C	778	799				
CLARION	609C	633C	782C	802C	822C					
CLEARFIELD	617C	646C	666C	776C	803C					
CLINTON	604C	624C	764C	785C	808C					
CRAWFORD	768C	788C	820C	(Four channels not available) *						
CUMBERLAND	638C	655C	660C	672C	688C	690C	708C	726C	728C	746C
	748CL									
ELK	620C	644C	770C	792C	812C					
ERIE	770C	790C	812C	(Three channels not available) *						
FAYETTE	630C	656C	664C	773C	789C	795	817			
FOREST	603C	605C	623C	647C	796C	809F	816F			

Region 36 Plan, per
FCC Gen.Doc. 87-112

FRANKLIN	628C	633C	662C	664C	666C	668C	685C	692C	723C	742C
	744C	751C	761C	781C	801C	808	817			
FULTON	610C	630C	647C	671C	694C	759C	783C	785C	787C	806
	810									
GREENE	606C	621C	636C	668C	770C	779	810			
HUNTINGDON	605C	607C	626C	674C	676C	696C	720C	738C	740C	823C
INDIANA	658C	688C	751C	771C	793C					
JEFFERSON	625C	627C	652C	672C	749C	757	773			
JUNIATA	609C	683C	714C	736C	820C					
LAWRENCE	620C	630C	636C	664C	682C	702C	710C	730C	752C	789C
	819	821								
MCKEAN	760C	780C	800C	823C	(Three channels not available)					
MERCER	643C	670C	705C	747C	804C	807C				
MIFFLIN	640C	670C	769C	789C	811C					
PERRY	652C	681C	755C	776C	797C					
POTTER	610C	616C	630C	650C	788C	806C	810C			
SNYDER	622C	663C	665C	707C	727	747				
SOMERSET	612C	627C	660C	667C	675C	682C	690C	695C	713C	727C
	739C	743C	745C	747C	760C	798	822			
UNION	642C	667C	734C	756C	796C					
VENANGO	612C	650C	685C	762C	794C					
WARREN	764C	785C	805C	825C	(Three channels not available)					
WASHINGTON	619C	659C	681C	701C	731C	775C				
WESTMORELAND	608C	610C	614C	634C	644C	692C	736C	801C	820C	
	825C									
REGIONWIDE	766PSP		814PSP							

Notes:
1. Channel assignments are for planning purposes only and may be preempted by formal applications in adjacent regions with exception of those marked with an asterisk.

Appendix F

Channel Assignment Tables
Continued:

****
* REGION 36 *
* F.C.C. Channel Assignments *
****

Channel Number	601	Mobile Frequency	821.0125 Mz	Base Frequency	866.0125 Mz	Mutual aid
Channel Number	602	Mobile Frequency	821.0375 Mz	Base Frequency	866.0375 Mz	BUTLER
Channel Number	602	Mobile Frequency	821.0375 Mz	Base Frequency	866.0375 Mz	CAMERON
Channel Number	603	Mobile Frequency	821.0500 Mz	Base Frequency	866.0500 Mz	BLAIR
Channel Number	603	Mobile Frequency	821.0500 Mz	Base Frequency	866.0500 Mz	FOREST
Channel Number	604	Mobile Frequency	821.0625 Mz	Base Frequency	866.0625 Mz	ALLEGHENY
Channel Number	604	Mobile Frequency	821.0625 Mz	Base Frequency	866.0625 Mz	CLINTON
Channel Number	605	Mobile Frequency	821.0750 Mz	Base Frequency	866.0750 Mz	FOREST
Channel Number	605	Mobile Frequency	821.0750 Mz	Base Frequency	866.0750 Mz	HUNTINGDON
Channel Number	606	Mobile Frequency	821.0875 Mz	Base Frequency	866.0875 Mz	ARMSTRONG
Channel Number	606	Mobile Frequency	821.0875 Mz	Base Frequency	866.0875 Mz	GREENE
Channel Number	607	Mobile Frequency	821.1000 Mz	Base Frequency	866.1000 Mz	BEAVER
Channel Number	607	Mobile Frequency	821.1000 Mz	Base Frequency	866.1000 Mz	HUNTINGDON
Channel Number	608	Mobile Frequency	821.1125 Mz	Base Frequency	866.1125 Mz	WESTMORELAND
Channel Number	609	Mobile Frequency	821.1250 Mz	Base Frequency	866.1250 Mz	CLARION
Channel Number	609	Mobile Frequency	821.1250 Mz	Base Frequency	866.1250 Mz	JUNIATA
Channel Number	610	Mobile Frequency	821.1375 Mz	Base Frequency	866.1375 Mz	FULTON
Channel Number	610	Mobile Frequency	821.1375 Mz	Base Frequency	866.1375 Mz	POTTER
Channel Number	610	Mobile Frequency	821.1375 Mz	Base Frequency	866.1375 Mz	WESTMORELAND
Channel Number	611	Mobile Frequency	821.1500 Mz	Base Frequency	866.1500 Mz	CENTRE
Channel Number	612	Mobile Frequency	821.1625 Mz	Base Frequency	866.1625 Mz	SOMERSET
Channel Number	612	Mobile Frequency	821.1625 Mz	Base Frequency	866.1625 Mz	VENANGO
Channel Number	613	Mobile Frequency	821.1750 Mz	Base Frequency	866.1750 Mz	Unassigned
Channel Number	614	Mobile Frequency	821.1875 Mz	Base Frequency	866.1875 Mz	WESTMORELAND
Channel Number	615	Mobile Frequency	821.2000 Mz	Base Frequency	866.2000 Mz	CENTRE
Channel Number	616	Mobile Frequency	821.2125 Mz	Base Frequency	866.2125 Mz	ALLEGHENY
Channel Number	616	Mobile Frequency	821.2125 Mz	Base Frequency	866.2125 Mz	BEDFORD
Channel Number	616	Mobile Frequency	821.2125 Mz	Base Frequency	866.2125 Mz	POTTER
Channel Number	617	Mobile Frequency	821.2250 Mz	Base Frequency	866.2250 Mz	CLEARFIELD
Channel Number	618	Mobile Frequency	821.2375 Mz	Base Frequency	866.2375 Mz	ARMSTRONG
Channel Number	619	Mobile Frequency	821.2500 Mz	Base Frequency	866.2500 Mz	CAMBRIA
Channel Number	619	Mobile Frequency	821.2500 Mz	Base Frequency	866.2500 Mz	WASHINGTON
Channel Number	620	Mobile Frequency	821.2625 Mz	Base Frequency	866.2625 Mz	LAWRENCE
Channel Number	620	Mobile Frequency	821.2625 Mz	Base Frequency	866.2625 Mz	ELK
Channel Number	621	Mobile Frequency	821.2750 Mz	Base Frequency	866.2750 Mz	BEDFORD
Channel Number	621	Mobile Frequency	821.2750 Mz	Base Frequency	866.2750 Mz	GREENE
Channel Number	622	Mobile Frequency	821.2875 Mz	Base Frequency	866.2875 Mz	BEAVER
Channel Number	622	Mobile Frequency	821.2875 Mz	Base Frequency	866.2875 Mz	CAMERON
Channel Number	622	Mobile Frequency	821.2875 Mz	Base Frequency	866.2875 Mz	SNYDER
Channel Number	623	Mobile Frequency	821.3000 Mz	Base Frequency	866.3000 Mz	BLAIR
Channel Number	623	Mobile Frequency	821.3000 Mz	Base Frequency	866.3000 Mz	FOREST
Channel Number	624	Mobile Frequency	821.3125 Mz	Base Frequency	866.3125 Mz	ALLEGHENY
Channel Number	624	Mobile Frequency	821.3125 Mz	Base Frequency	866.3125 Mz	CLINTON
Channel Number	625	Mobile Frequency	821.3250 Mz	Base Frequency	866.3250 Mz	JEFFERSON
Channel Number	626	Mobile Frequency	821.3375 Mz	Base Frequency	866.3375 Mz	ALLEGHENY
Channel Number	625	Mobile Frequency	821.3375 Mz	Base Frequency	866.3375 Mz	HUNTINGDON

Appendix F

Channel Assignment Tables
Continued:

Channel Number	627	Mobile Frequency	821.3500 Mz	Base Frequency	866.3500 Mz	JEFFERSON
Channel Number	627	Mobile Frequency	821.3500 Mz	Base Frequency	866.3500 Mz	SOMERSET
Channel Number	628	Mobile Frequency	821.3625 Mz	Base Frequency	866.3625 Mz	ALLEGHENY
Channel Number	628	Mobile Frequency	821.3625 Mz	Base Frequency	866.3625 Mz	FRANKLIN
Channel Number	629	Mobile Frequency	821.3750 Mz	Base Frequency	866.3750 Mz	CAMBRIA
Channel Number	630	Mobile Frequency	821.3875 Mz	Base Frequency	866.3875 Mz	LAWRENCE
Channel Number	630	Mobile Frequency	821.3875 Mz	Base Frequency	866.3875 Mz	FAYETTE
Channel Number	630	Mobile Frequency	821.3875 Mz	Base Frequency	866.3875 Mz	FULTON
Channel Number	630	Mobile Frequency	821.3875 Mz	Base Frequency	866.3875 Mz	POTTER
Channel Number	631	Mobile Frequency	821.4000 Mz	Base Frequency	866.4000 Mz	CAMBRIA
Channel Number	632	Mobile Frequency	821.4125 Mz	Base Frequency	866.4125 Mz	ALLEGHENY
Channel Number	633	Mobile Frequency	821.4250 Mz	Base Frequency	866.4250 Mz	CLARION
Channel Number	633	Mobile Frequency	821.4250 Mz	Base Frequency	866.4250 Mz	FRANKLIN
Channel Number	634	Mobile Frequency	821.4375 Mz	Base Frequency	866.4375 Mz	WESTMORELAND
Channel Number	635	Mobile Frequency	821.4500 Mz	Base Frequency	866.4500 Mz	CENTRE
Channel Number	636	Mobile Frequency	821.4625 Mz	Base Frequency	866.4625 Mz	LAWRENCE
Channel Number	636	Mobile Frequency	821.4625 Mz	Base Frequency	866.4625 Mz	BEDFORD
Channel Number	636	Mobile Frequency	821.4625 Mz	Base Frequency	866.4625 Mz	GREENE
Channel Number	637	Mobile Frequency	821.4750 Mz	Base Frequency	866.4750 Mz	CENTRE
Channel Number	638	Mobile Frequency	821.4875 Mz	Base Frequency	866.4875 Mz	ALLEGHENY
Channel Number	638	Mobile Frequency	821.4875 Mz	Base Frequency	866.4875 Mz	CUMBERLAND
Channel Number	639	Mobile Frequency	821.5125 Mz	Base Frequency	866.5125 Mz	Mutual aid
Channel Number	640	Mobile Frequency	821.5375 Mz	Base Frequency	866.5375 Mz	BUTLER
Channel Number	640	Mobile Frequency	821.5375 Mz	Base Frequency	866.5375 Mz	MIFFLIN
Channel Number	641	Mobile Frequency	821.5500 Mz	Base Frequency	866.5500 Mz	CAMBRIA
Channel Number	642	Mobile Frequency	821.5625 Mz	Base Frequency	866.5625 Mz	ALLEGHENY
Channel Number	642	Mobile Frequency	821.5625 Mz	Base Frequency	866.5625 Mz	CAMERON
Channel Number	642	Mobile Frequency	821.5625 Mz	Base Frequency	866.5625 Mz	UNION
Channel Number	643	Mobile Frequency	821.5750 Mz	Base Frequency	866.5750 Mz	BLAIR
Channel Number	643	Mobile Frequency	821.5750 Mz	Base Frequency	866.5750 Mz	MERCER
Channel Number	644	Mobile Frequency	821.5875 Mz	Base Frequency	866.5875 Mz	ELK
Channel Number	644	Mobile Frequency	821.5875 Mz	Base Frequency	866.5875 Mz	WESTMORELAND
Channel Number	645	Mobile Frequency	821.6000 Mz	Base Frequency	866.6000 Mz	BEDFORD
Channel Number	646	Mobile Frequency	821.6125 Mz	Base Frequency	866.6125 Mz	CLEARFIELD
Channel Number	647	Mobile Frequency	821.6250 Mz	Base Frequency	866.6250 Mz	ALLEGHENY
Channel Number	647	Mobile Frequency	821.6250 Mz	Base Frequency	866.6250 Mz	FOREST
Channel Number	647	Mobile Frequency	821.6250 Mz	Base Frequency	866.6250 Mz	FULTON
Channel Number	648	Mobile Frequency	821.6375 Mz	Base Frequency	866.6375 Mz	Unassigned
Channel Number	649	Mobile Frequency	821.6500 Mz	Base Frequency	866.6500 Mz	BEAVER
Channel Number	649	Mobile Frequency	821.6500 Mz	Base Frequency	866.6500 Mz	CAMBRIA
Channel Number	650	Mobile Frequency	821.6625 Mz	Base Frequency	866.6625 Mz	POTTER
Channel Number	650	Mobile Frequency	821.6625 Mz	Base Frequency	866.6625 Mz	VENANGO
Channel Number	651	Mobile Frequency	821.6750 Mz	Base Frequency	866.6750 Mz	ALLEGHENY
Channel Number	652	Mobile Frequency	821.6875 Mz	Base Frequency	866.6875 Mz	JEFFERSON
Channel Number	652	Mobile Frequency	821.6875 Mz	Base Frequency	866.6875 Mz	PERRY
Channel Number	653	Mobile Frequency	821.7000 Mz	Base Frequency	866.7000 Mz	ALLEGHENY
Channel Number	654	Mobile Frequency	821.7125 Mz	Base Frequency	866.7125 Mz	CAMBRIA
Channel Number	655	Mobile Frequency	821.7250 Mz	Base Frequency	866.7250 Mz	ARMSTRONG
Channel Number	655	Mobile Frequency	821.7250 Mz	Base Frequency	866.7250 Mz	CUMBERLAND
Channel Number	656	Mobile Frequency	821.7375 Mz	Base Frequency	866.7375 Mz	FAYETTE
Channel Number	657	Mobile Frequency	821.7500 Mz	Base Frequency	866.7500 Mz	CENTRE
Channel Number	658	Mobile Frequency	821.7625 Mz	Base Frequency	866.7625 Mz	ADAMS
Channel Number	658	Mobile Frequency	821.7625 Mz	Base Frequency	866.7625 Mz	INDIANA
Channel Number	659	Mobile Frequency	821.7750 Mz	Base Frequency	866.7750 Mz	CENTRE

Channel Number	659	Mobile Frequency	821.7750 Mz	Base Frequency	866.7750 Mz	WASHINGTON
Channel Number	660	Mobile Frequency	821.7875 Mz	Base Frequency	866.7875 Mz	BUTLER
Channel Number	660	Mobile Frequency	821.7875 Mz	Base Frequency	866.7875 Mz	CUMBERLAND
Channel Number	660	Mobile Frequency	821.7875 Mz	Base Frequency	866.7875 Mz	SOMERSET
Channel Number	661	Mobile Frequency	821.8000 Mz	Base Frequency	866.8000 Mz	CENTRE
Channel Number	662	Mobile Frequency	821.8125 Mz	Base Frequency	866.8125 Mz	ALLEGHENY
Channel Number	662	Mobile Frequency	821.8125 Mz	Base Frequency	866.8125 Mz	FRANKLIN
Channel Number	663	Mobile Frequency	821.8250 Mz	Base Frequency	866.8250 Mz	SNYDER
Channel Number	664	Mobile Frequency	821.8375 Mz	Base Frequency	866.8375 Mz	LAWRENCE
Channel Number	664	Mobile Frequency	821.8375 Mz	Base Frequency	866.8375 Mz	FAYETTE
Channel Number	664	Mobile Frequency	821.8375 Mz	Base Frequency	866.8375 Mz	FRANKLIN
Channel Number	665	Mobile Frequency	821.8500 Mz	Base Frequency	866.8500 Mz	SNYDER
Channel Number	666	Mobile Frequency	821.8625 Mz	Base Frequency	866.8625 Mz	ALLEGHENY
Channel Number	666	Mobile Frequency	821.8625 Mz	Base Frequency	866.8625 Mz	CLEARFIELD
Channel Number	666	Mobile Frequency	821.8625 Mz	Base Frequency	866.8625 Mz	FRANKLIN
Channel Number	667	Mobile Frequency	821.8750 Mz	Base Frequency	866.8750 Mz	SOMERSET
Channel Number	667	Mobile Frequency	821.8750 Mz	Base Frequency	866.8750 Mz	UNION
Channel Number	668	Mobile Frequency	821.8875 Mz	Base Frequency	866.8875 Mz	FRANKLIN
Channel Number	668	Mobile Frequency	821.8875 Mz	Base Frequency	866.8875 Mz	GREENE
Channel Number	669	Mobile Frequency	821.9000 Mz	Base Frequency	866.9000 Mz	BEAVER
Channel Number	669	Mobile Frequency	821.9000 Mz	Base Frequency	866.9000 Mz	CAMBRIA
Channel Number	670	Mobile Frequency	821.9125 Mz	Base Frequency	866.9125 Mz	MERCER
Channel Number	670	Mobile Frequency	821.9125 Mz	Base Frequency	866.9125 Mz	MIFFLIN
Channel Number	671	Mobile Frequency	821.9250 Mz	Base Frequency	866.9250 Mz	ALLEGHENY
Channel Number	671	Mobile Frequency	821.9250 Mz	Base Frequency	866.9250 Mz	FULTON
Channel Number	672	Mobile Frequency	821.9375 Mz	Base Frequency	866.9375 Mz	CUMBERLAND
Channel Number	672	Mobile Frequency	821.9375 Mz	Base Frequency	866.9375 Mz	JEFFERSON
Channel Number	673	Mobile Frequency	821.9500 Mz	Base Frequency	866.9500 Mz	ALLEGHENY
Channel Number	674	Mobile Frequency	821.9625 Mz	Base Frequency	866.9625 Mz	HUNTINGDON
Channel Number	675	Mobile Frequency	821.9750 Mz	Base Frequency	866.9750 Mz	BUTLER
Channel Number	675	Mobile Frequency	821.9750 Mz	Base Frequency	866.9750 Mz	SOMERSET
Channel Number	676	Mobile Frequency	821.9875 Mz	Base Frequency	866.9875 Mz	HUNTINGDON
Channel Number	677	Mobile Frequency	822.0125 Mz	Base Frequency	867.0125 Mz	Mutual aid
Channel Number	678	Mobile Frequency	822.0375 Mz	Base Frequency	867.0375 Mz	ALLEGHENY
Channel Number	679	Mobile Frequency	822.0500 Mz	Base Frequency	867.0500 Mz	Unassigned
Channel Number	680	Mobile Frequency	822.0625 Mz	Base Frequency	867.0625 Mz	BUTLER
Channel Number	680	Mobile Frequency	822.0625 Mz	Base Frequency	867.0625 Mz	CENTRE
Channel Number	681	Mobile Frequency	822.0750 Mz	Base Frequency	867.0750 Mz	PERRY
Channel Number	681	Mobile Frequency	822.0750 Mz	Base Frequency	867.0750 Mz	WASHINGTON
Channel Number	682	Mobile Frequency	822.0875 Mz	Base Frequency	867.0875 Mz	LAWRENCE
Channel Number	682	Mobile Frequency	822.0875 Mz	Base Frequency	867.0875 Mz	ADAMS
Channel Number	682	Mobile Frequency	822.0875 Mz	Base Frequency	867.0875 Mz	SOMERSET
Channel Number	683	Mobile Frequency	822.1000 Mz	Base Frequency	867.1000 Mz	JUNIATA
Channel Number	684	Mobile Frequency	822.1125 Mz	Base Frequency	867.1125 Mz	ALLEGHENY
Channel Number	685	Mobile Frequency	822.1250 Mz	Base Frequency	867.1250 Mz	FRANKLIN
Channel Number	685	Mobile Frequency	822.1250 Mz	Base Frequency	867.1250 Mz	VENANGO
Channel Number	686	Mobile Frequency	822.1375 Mz	Base Frequency	867.1375 Mz	ALLEGHENY
Channel Number	687	Mobile Frequency	822.1500 Mz	Base Frequency	867.1500 Mz	Unassigned
Channel Number	688	Mobile Frequency	822.1625 Mz	Base Frequency	867.1625 Mz	CUMBERLAND
Channel Number	688	Mobile Frequency	822.1625 Mz	Base Frequency	867.1625 Mz	INDIANA
Channel Number	689	Mobile Frequency	822.1750 Mz	Base Frequency	867.1750 Mz	Unassigned
Channel Number	690	Mobile Frequency	822.1875 Mz	Base Frequency	867.1875 Mz	CUMBERLAND
Channel Number	690	Mobile Frequency	822.1875 Mz	Base Frequency	867.1875 Mz	SOMERSET
Channel Number	691	Mobile Frequency	822.2000 Mz	Base Frequency	867.2000 Mz	Unassigned

Appendix F

Channel Assignment Tables
Continued:

Channel Number	771	Mobile Frequency	823.2500 Mz	Base Frequency	868.2500 Mz	INDIANA
Channel Number	772	Mobile Frequency	823.2625 Mz	Base Frequency	868.2625 Mz	CENTRE
Channel Number	773	Mobile Frequency	823.2750 Mz	Base Frequency	868.2750 Mz	FAYETTE
Channel Number	773	Mobile Frequency	823.2750 Mz	Base Frequency	868.2750 Mz	JEFFERSON
Channel Number	774	Mobile Frequency	823.2875 Mz	Base Frequency	868.2875 Mz	CENTRE
Channel Number	775	Mobile Frequency	823.3000 Mz	Base Frequency	868.3000 Mz	BEDFORD
Channel Number	775	Mobile Frequency	823.3000 Mz	Base Frequency	868.3000 Mz	WASHINGTON
Channel Number	776	Mobile Frequency	823.3125 Mz	Base Frequency	868.3125 Mz	CLEARFIELD
Channel Number	776	Mobile Frequency	823.3125 Mz	Base Frequency	868.3125 Mz	PERRY
Channel Number	777	Mobile Frequency	823.3250 Mz	Base Frequency	868.3250 Mz	ARMSTRONG
Channel Number	778	Mobile Frequency	823.3375 Mz	Base Frequency	868.3375 Mz	CENTRE
Channel Number	779	Mobile Frequency	823.3500 Mz	Base Frequency	868.3500 Mz	BUTLER
Channel Number	779	Mobile Frequency	823.3500 Mz	Base Frequency	868.3500 Mz	GREENE
Channel Number	780	Mobile Frequency	823.3625 Mz	Base Frequency	868.3625 Mz	MCKEAN
Channel Number	781	Mobile Frequency	823.3750 Mz	Base Frequency	868.3750 Mz	FRANKLIN
Channel Number	781	Mobile Frequency	823.3750 Mz	Base Frequency	868.3750 Mz	WESTMORELAND
Channel Number	782	Mobile Frequency	823.3875 Mz	Base Frequency	868.3875 Mz	CLARION
Channel Number	783	Mobile Frequency	823.4000 Mz	Base Frequency	868.4000 Mz	ALLEGHENY
Channel Number	783	Mobile Frequency	823.4000 Mz	Base Frequency	868.4000 Mz	FULTON
Channel Number	784	Mobile Frequency	823.4125 Mz	Base Frequency	868.4125 Mz	ADAMS
Channel Number	784	Mobile Frequency	823.4125 Mz	Base Frequency	868.4125 Mz	CAMBRIA
Channel Number	785	Mobile Frequency	823.4250 Mz	Base Frequency	868.4250 Mz	ALLEGHENY
Channel Number	785	Mobile Frequency	823.4250 Mz	Base Frequency	868.4250 Mz	CLINTON
Channel Number	785	Mobile Frequency	823.4250 Mz	Base Frequency	868.4250 Mz	FULTON
Channel Number	785	Mobile Frequency	823.4250 Mz	Base Frequency	868.4250 Mz	WARREN
Channel Number	786	Mobile Frequency	823.4375 Mz	Base Frequency	868.4375 Mz	CAMBRIA
Channel Number	787	Mobile Frequency	823.4500 Mz	Base Frequency	868.4500 Mz	ALLEGHENY
Channel Number	787	Mobile Frequency	823.4500 Mz	Base Frequency	868.4500 Mz	FULTON
Channel Number	788	Mobile Frequency	823.4625 Mz	Base Frequency	868.4625 Mz	CAMBRIA
Channel Number	788	Mobile Frequency	823.4625 Mz	Base Frequency	868.4625 Mz	CRAWFORD
Channel Number	788	Mobile Frequency	823.4625 Mz	Base Frequency	868.4625 Mz	POTTER
Channel Number	789	Mobile Frequency	823.4750 Mz	Base Frequency	868.4750 Mz	LAWRENCE
Channel Number	789	Mobile Frequency	823.4750 Mz	Base Frequency	868.4750 Mz	FAYETTE
Channel Number	789	Mobile Frequency	823.4750 Mz	Base Frequency	868.4750 Mz	MIFFLIN
Channel Number	790	Mobile Frequency	823.4875 Mz	Base Frequency	868.4875 Mz	BEDFORD
Channel Number	790	Mobile Frequency	823.4875 Mz	Base Frequency	868.4875 Mz	ERIE
Channel Number	791	Mobile Frequency	823.5000 Mz	Base Frequency	868.5000 Mz	BEAVER
Channel Number	792	Mobile Frequency	823.5125 Mz	Base Frequency	868.5125 Mz	ELK
Channel Number	793	Mobile Frequency	823.5250 Mz	Base Frequency	868.5250 Mz	BEAVER
Channel Number	793	Mobile Frequency	823.5250 Mz	Base Frequency	868.5250 Mz	INDIANA
Channel Number	794	Mobile Frequency	823.5375 Mz	Base Frequency	868.5375 Mz	BLAIR
Channel Number	794	Mobile Frequency	823.5375 Mz	Base Frequency	868.5375 Mz	VENANGO
Channel Number	795	Mobile Frequency	823.5500 Mz	Base Frequency	868.5500 Mz	FAYETTE
Channel Number	796	Mobile Frequency	823.5625 Mz	Base Frequency	868.5625 Mz	BEDFORD
Channel Number	796	Mobile Frequency	823.5625 Mz	Base Frequency	868.5625 Mz	FOREST
Channel Number	796	Mobile Frequency	823.5625 Mz	Base Frequency	868.5625 Mz	UNION
Channel Number	797	Mobile Frequency	823.5750 Mz	Base Frequency	868.5750 Mz	ARMSTRONG
Channel Number	797	Mobile Frequency	823.5750 Mz	Base Frequency	868.5750 Mz	CAMERON
Channel Number	797	Mobile Frequency	823.5750 Mz	Base Frequency	868.5750 Mz	PERRY
Channel Number	798	Mobile Frequency	823.5875 Mz	Base Frequency	868.5875 Mz	SOMERSET
Channel Number	799	Mobile Frequency	823.6000 Mz	Base Frequency	868.6000 Mz	ALLEGHENY
Channel Number	799	Mobile Frequency	823.6000 Mz	Base Frequency	868.6000 Mz	CENTRE
Channel Number	800	Mobile Frequency	823.6125 Mz	Base Frequency	868.6125 Mz	MCKEAN
Channel Number	801	Mobile Frequency	823.6250 Mz	Base Frequency	868.6250 Mz	FRANKLIN

Channel Number	801	Mobile Frequency	823.6250 Mz	Base Frequency	868.6250 Mz	WESTMORELAND
Channel Number	802	Mobile Frequency	823.6375 Mz	Base Frequency	868.6375 Mz	CLARION
Channel Number	803	Mobile Frequency	823.6500 Mz	Base Frequency	868.6500 Mz	ALLEGHENY
Channel Number	803	Mobile Frequency	823.6500 Mz	Base Frequency	868.6500 Mz	CLEARFIELD
Channel Number	804	Mobile Frequency	823.6625 Mz	Base Frequency	868.6625 Mz	MERCER
Channel Number	805	Mobile Frequency	823.6750 Mz	Base Frequency	868.6750 Mz	CAMBRIA
Channel Number	805	Mobile Frequency	823.6750 Mz	Base Frequency	868.6750 Mz	WARREN
Channel Number	806	Mobile Frequency	823.6875 Mz	Base Frequency	868.6875 Mz	ALLEGHENY
Channel Number	806	Mobile Frequency	823.6875 Mz	Base Frequency	868.6875 Mz	FULTON
Channel Number	806	Mobile Frequency	823.6875 Mz	Base Frequency	868.6875 Mz	POTTER
Channel Number	807	Mobile Frequency	823.7000 Mz	Base Frequency	868.7000 Mz	CAMBRIA
Channel Number	807	Mobile Frequency	823.7000 Mz	Base Frequency	868.7000 Mz	MERCER
Channel Number	808	Mobile Frequency	823.7125 Mz	Base Frequency	868.7125 Mz	ALLEGHENY
Channel Number	808	Mobile Frequency	823.7125 Mz	Base Frequency	868.7125 Mz	CLINTON
Channel Number	808	Mobile Frequency	823.7125 Mz	Base Frequency	868.7125 Mz	FRANKLIN
Channel Number	809	Mobile Frequency	823.7250 Mz	Base Frequency	868.7250 Mz	CAMBRIA
Channel Number	809	Mobile Frequency	823.7250 Mz	Base Frequency	868.7250 Mz	FOREST
Channel Number	810	Mobile Frequency	823.7375 Mz	Base Frequency	868.7375 Mz	BUTLER
Channel Number	810	Mobile Frequency	823.7375 Mz	Base Frequency	868.7375 Mz	FULTON
Channel Number	810	Mobile Frequency	823.7375 Mz	Base Frequency	868.7375 Mz	GREENE
Channel Number	810	Mobile Frequency	823.7375 Mz	Base Frequency	868.7375 Mz	POTTER
Channel Number	811	Mobile Frequency	823.7500 Mz	Base Frequency	868.7500 Mz	MIFFLIN
Channel Number	812	Mobile Frequency	823.7625 Mz	Base Frequency	868.7625 Mz	ALLEGHENY
Channel Number	812	Mobile Frequency	823.7625 Mz	Base Frequency	868.7625 Mz	BEDFORD
Channel Number	812	Mobile Frequency	823.7625 Mz	Base Frequency	868.7625 Mz	ELK
Channel Number	812	Mobile Frequency	823.7625 Mz	Base Frequency	868.7625 Mz	ERIE
Channel Number	813	Mobile Frequency	823.7750 Mz	Base Frequency	868.7750 Mz	Unassigned
Channel Number	814	Mobile Frequency	823.7875 Mz	Base Frequency	868.7875 Mz	REGIONWIDE
Channel Number	815	Mobile Frequency	823.8000 Mz	Base Frequency	868.8000 Mz	Unassigned
Channel Number	816	Mobile Frequency	823.8125 Mz	Base Frequency	868.8125 Mz	BLAIR
Channel Number	816	Mobile Frequency	823.8125 Mz	Base Frequency	868.8125 Mz	FOREST
Channel Number	817	Mobile Frequency	823.8250 Mz	Base Frequency	868.8250 Mz	CAMERON
Channel Number	817	Mobile Frequency	823.8250 Mz	Base Frequency	868.8250 Mz	FAYETTE
Channel Number	817	Mobile Frequency	823.8250 Mz	Base Frequency	868.8250 Mz	FRANKLIN
Channel Number	818	Mobile Frequency	823.8375 Mz	Base Frequency	868.8375 Mz	ARMSTRONG
Channel Number	819	Mobile Frequency	823.8500 Mz	Base Frequency	868.8500 Mz	LAWRENCE
Channel Number	819	Mobile Frequency	823.8500 Mz	Base Frequency	868.8500 Mz	BEDFORD
Channel Number	820	Mobile Frequency	823.8625 Mz	Base Frequency	868.8625 Mz	CRAWFORD
Channel Number	820	Mobile Frequency	823.8625 Mz	Base Frequency	868.8625 Mz	JUNIATA
Channel Number	820	Mobile Frequency	823.8625 Mz	Base Frequency	868.8625 Mz	WESTMORELAND
Channel Number	821	Mobile Frequency	823.8750 Mz	Base Frequency	868.8750 Mz	LAWRENCE
Channel Number	822	Mobile Frequency	823.8875 Mz	Base Frequency	868.8875 Mz	CLARION
Channel Number	822	Mobile Frequency	823.8875 Mz	Base Frequency	868.8875 Mz	SOMERSET
Channel Number	823	Mobile Frequency	823.9000 Mz	Base Frequency	868.9000 Mz	ALLEGHENY
Channel Number	823	Mobile Frequency	823.9000 Mz	Base Frequency	868.9000 Mz	HUNTINGDON
Channel Number	823	Mobile Frequency	823.9000 Mz	Base Frequency	868.9000 Mz	MCKEAN
Channel Number	824	Mobile Frequency	823.9125 Mz	Base Frequency	868.9125 Mz	Unassigned
Channel Number	825	Mobile Frequency	823.9250 Mz	Base Frequency	868.9250 Mz	WARREN
Channel Number	825	Mobile Frequency	823.9250 Mz	Base Frequency	868.9250 Mz	WESTMORELAND
Channel Number	826	Mobile Frequency	823.9375 Mz	Base Frequency	868.9375 Mz	Unassigned
Channel Number	827	Mobile Frequency	823.9500 Mz	Base Frequency	868.9500 Mz	Unassigned
Channel Number	828	Mobile Frequency	823.9625 Mz	Base Frequency	868.9625 Mz	Unassigned
Channel Number	829	Mobile Frequency	823.9750 Mz	Base Frequency	868.9750 Mz	Unassigned
Channel Number	830	Mobile Frequency	823.9875 Mz	Base Frequency	868.9875 Mz	Unassigned

Maximum field strength for co-channel operation is 5.00 Dbu
Maximum field strength for adj.-channel operation is 25.00 Dbu
Iterations required for solution = 27
Number of channels used for solution = 224
Total number of channels assigned = 335
Total number of unassigned channels = 30
Total number of reserved channels = 0
Total number of co-channels assigned = 140
Probability of interference with the nearest :
* Co-channel user is between 0 % and 1 % .
* Adj.-channel user is between 0 % and 1 % .

** Estimated assuming a 40 Dbu signal at the boundary.*

LAWRENCE	636	752	682	702	789	664	821	620	730	710
	819	630								
ADAMS	658	784	682	764	706					
ALLEGHENY	812	662	742	684	704	616	744	673	653	799
	785	716	806	764	642	823	604	724	671	632
	624	754	803	734	783	722	651	748	686	628
	726	666	706	787	638	728	647	708	626	808
	714	678	746							
ARMSTRONG	818	606	797	655	777	618				
BEAVER	607	649	750	718	771	793	622	693	769	669
	712	791								
BEDFORD	819	616	796	636	775	621	812	645	790	
BLAIR	603	816	623	794	643					
BUTLER	675	732	810	697	602	759	700	640	660	680
	779									
CAMBRIA	809	619	788	641	768	629	807	649	786	669
	805	631	784	654	763					
CAMERON	602	817	622	797	642					
CENTRE	799	611	778	635	758	615	774	637	754	657
	772	659	752	680	732	661				
CLARION	822	609	802	633	782					
CLEARFIELD	617	803	646	776	666					
CLINTON	808	604	785	624	764					
CRAWFORD	768	820	788							
CUMBERLAND	748	655	728	688	708	660	746	690	726	638
	672									
ELK	812	620	792	644	770					
ERIE	770	812	790							
FAYETTE	817	630	795	656	773	664	789			
FOREST	603	816	623	796	647	809	605			
FRANKLIN	808	628	781	662	761	633	801	664	751	685
	744	666	723	692	817	742	668			
FULTON	810	610	787	630	759	647	806	671	785	694
	783									
GREENE	606	810	636	779	668	770	621			
HUNTINGDON	740	674	720	626	605	676	738	696	823	607
INDIANA	793	658	771	688	751					
JEFFERSON	625	773	652	749	672	757	627			
JUNIATA	736	683	714	609	820					
MCKEAN	760	823	800	780						
MERCER	643	807	670	747	705	804				
MIFFLIN	640	789	670	769	811					
PERRY	681	755	776	797	652					
POTTER	610	810	630	788	650	806	616			
SNYDER	747	622	727	663	707	665				
SOMERSET	760	660	739	682	713	667	747	690	727	612
	675	745	695	798	822	743	627			
UNION	796	642	756	667	734					
VENANGO	612	794	650	762	685					
WARREN	785	805	764	825						

WASHINGTON	681	731	775	659	701	619				
WESTMORELAND	736	692	634	820	608	801	610	781	644	825
	614									
REGIONWIDE	814	766								

+ Border situation requiring odd channel numbers
* Old equipment requiring even channel numbers

LAWRENCE	620	630	636	664	682	702	710	730	752	789
	819	821								
ADAMS	658	682	706	764	784					
ALLEGHENY	604	616	624	626	628	632	638	642	647	651
	653	662	666	671	673	678	684	686	704	706
	708	714	716	722	724	726	728	734	742	744
	746	748	754	764	783	785	787	799	803	805
	808	812	823							
ARMSTRONG	606	618	655	777	797	818				
BEAVER	607	622	649	669	693	712	718	750	769	771
	791	793								
BEDFORD	616	621	636	645	775	790	796	812	819	
BLAIR	603	623	643	794	816					
BUTLER	602	640	660	675	680	697	700	732	759	779
	810									
CAMBRIA	619	629	631	641	649	654	669	763	768	784
	786	788	805	807	809					
CAMERON	602	622	642	797	817					
CENTRE	611	615	635	637	657	659	661	680	732	752
	754	758	772	774	778	799				
CLARION	609	633	782	802	822					
CLEARFIELD	617	646	666	776	803					
CLINTON	604	624	764	785	808					
CRAWFORD	768	788	820							
CUMBERLAND	638	655	660	672	688	690	708	726	728	746
	748									
ELK	620	644	770	792	812					
ERIE	770	790	812							
FAYETTE	630	656	664	773	789	795	817			
FOREST	603	605	623	647	796	809	816			
FRANKLIN	628	633	662	664	666	668	685	692	723	742
	744	751	761	781	801	808	817			
FULTON	610	630	647	671	694	759	783	785	787	806
	810									
GREENE	606	621	636	668	770	779	810			
HUNTINGDON	605	607	626	674	676	696	720	738	740	823
INDIANA	658	688	751	771	793					
JEFFERSON	625	627	652	672	749	757	773			
JUNIATA	609	683	714	736	820					
MCKEAN	760	780	800	823						
MERCER	643	670	705	747	804	807				
MIFFLIN	640	670	769	789	811					
PERRY	652	681	755	776	797					
POTTER	610	616	630	650	788	806	810			

SNYDER	622	663	665	707	727	747				
SOMERSET	612	627	660	667	675	682	690	695	713	727
	739	743	745	747	760	798	822			
UNION	642	667	734	756	796					
VENANGO	612	650	685	762	794					
WARREN	764	785	805	825						
WASHINGTON	619	659	681	701	731	775				
WESTMORELAND	608	610	614	634	644	692	736	781	801	820
	825									
REGIONWIDE	766	814								

+ Border situation requiring odd channel numbers
* Old equipment requiring even channel numbers

********** REGION 36 Single Site Systems **********

Appendix F

Summary of System Locations

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* LAWRENCE	40 59 0	80 19 45	12	13.00	-11.00	100.00	3

********** Multiple Site Systems **********

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* ADAMS	A 39 53 57	77 18 0	5	10.00	-15.20	100.00	3
* ADAMS	B 39 56 6	77 8 24	5	10.00	-15.20	100.00	3
* ADAMS	C 39 49 12	77 19 24	5	10.00	-15.20	100.00	3
* ADAMS	D 39 49 21	77 7 48	5	10.00	-15.20	100.00	3
* ALLEGHENY	A 40 34 24	80 0 54	43	10.00	-6.40	500.00	1
* ALLEGHENY	B 40 34 30	79 51 0	43	10.00	-6.40	500.00	1
* ALLEGHENY	C 40 27 6	80 10 9	43	10.00	-6.40	500.00	1
* ALLEGHENY	D 40 25 21	79 52 21	43	10.00	-6.40	500.00	1
* ALLEGHENY	E 40 19 42	79 55 45	43	10.00	-6.40	500.00	1
* ARMSTRONG	A 40 55 45	79 35 21	6	9.00	-16.80	100.00	3
* ARMSTRONG	B 40 54 0	79 19 33	6	9.00	-16.80	100.00	3
* ARMSTRONG	C 40 46 24	79 35 0	6	9.00	-16.80	100.00	3
* ARMSTRONG	D 40 46 3	79 21 45	6	9.00	-16.80	100.00	3
* ARMSTRONG	E 40 38 36	79 29 27	6	9.00	-16.80	100.00	3
* BEAVER	A 40 45 15	80 24 48	12	8.00	-18.60	100.00	3
* BEAVER	B 40 45 39	80 15 0	12	8.00	-18.60	100.00	3
* BEAVER	C 40 34 27	80 25 6	12	8.00	-18.60	100.00	3
* BEAVER	D 40 38 9	80 17 45	12	8.00	-18.60	100.00	3
* BEDFORD	A 40 13 24	78 31 16	9	9.00	-16.80	100.00	3
* BEDFORD	B 40 11 45	78 22 12	9	9.00	-16.80	100.00	3
* BEDFORD	C 40 8 6	78 33 39	9	9.00	-16.80	100.00	3
* BEDFORD	D 40 6 51	78 17 57	9	9.00	-16.80	100.00	3
* BEDFORD	E 39 59 15	78 37 39	9	9.00	-16.80	100.00	3
* BEDFORD	F 39 57 51	78 23 6	9	aw9.00	-16.80	100.00	3
* BEDFORD	G 39 47 30	78 39 45	9	9.00	-16.80	100.00	3
* BEDFORD	H 39 49 30	78 28 30	9	9.00	-16.80	100.00	3
* BLAIR	A 40 41 21	78 15 54	5	8.00	-18.60	100.00	3
* BLAIR	B 40 32 0	78 22 54	5	8.00	-18.60	100.00	3
* BLAIR	C 40 31 27	78 14 0	5	8.00	-18.60	100.00	3
* BLAIR	D 40 23 3	78 29 0	5	8.00	-18.60	100.00	3
* BLAIR	E 40 21 45	78 19 0	5	8.00	-18.60	100.00	3
* BUTLER	A 41 1 12	79 59 0	11	11.00	-13.80	100.00	3
* BUTLER	B 41 3 15	79 48 0	11	11.00	-13.80	100.00	3
* BUTLER	C 40 47 33	80 2 18	11	11.00	-13.80	100.00	3
* BUTLER	D 40 47 42	79 48 0	11	11.00	-13.80	100.00	3
* CAMBRIA	A 40 38 42	78 42 54	15	8.00	-18.60	100.00	3

*	CAMBRIA	B	40	38	39	78	29	54	15	8.00	-18.60	100.00	3
*	CAMBRIA	C	40	29	39	78	48	45	15	8.00	-18.60	100.00	3
*	CAMBRIA	D	40	27	30	78	39	48	15	8.00	-18.60	100.00	3
*	CAMBRIA	E	40	19	39	78	54	48	15	8.00	-18.60	100.00	3
*	CAMBRIA	F	40	20	51	78	42	51	15	8.00	-18.60	100.00	3
*	CAMERON	A	41	30	30	78	17	24	5	11.00	-13.80	100.00	3
*	CAMERON	B	41	21	15	78	6	45	5	11.00	-13.80	100.00	3
*	CENTRE	A	41	4	45	77	56	0	16	10.00	-15.20	100.00	3
*	CENTRE	B	40	57	0	77	58	39	16	10.00	-15.20	100.00	3
*	CENTRE	C	40	58	45	77	41	9	16	10.00	-15.20	100.00	3
*	CENTRE	D	40	48	42	78	11	51	16	10.00	-15.20	100.00	3
*	CENTRE	E	40	49	48	77	55	21	16	10.00	-15.20	100.00	3
*	CENTRE	F	40	50	24	77	40	21	16	10.00	-15.20	100.00	3
*	CENTRE	G	40	55	21	77	22	30	16	10.00	-15.20	100.00	3
*	CLARION	A	41	15	48	79	30	54	5	10.00	-15.20	100.00	3
*	CLARION	B	41	20	9	79	17	48	5	10.00	-15.20	100.00	3
*	CLARION	C	41	5	36	79	32	39	5	10.00	-15.20	100.00	3
*	CLARION	D	41	6	36	79	18	36	5	10.00	-15.20	100.00	3
*	CLEARFIELD	A	41	7	0	78	35	30	5	12.00	-12.40	100.00	3
*	CLEARFIELD	B	41	5	0	78	15	0	5	12.00	-12.40	100.00	3
*	CLEARFIELD	C	40	51	15	78	38	16	5	12.00	-12.40	100.00	3
*	CLEARFIELD	D	40	52	14	78	27	24	5	12.00	-12.40	100.00	3
*	CLINTON	A	41	20	54	77	49	57	5	12.00	-12.40	100.00	3
*	CLINTON	B	41	19	36	77	42	30	5	12.00	-12.40	100.00	3
*	CLINTON	C	41	17	45	77	53	30	5	12.00	-12.40	100.00	3
*	CLINTON	D	41	12	0	77	32	36	5	12.00	-12.40	100.00	3
*	CLINTON	E	41	6	9	77	22	24	5	12.00	-12.40	100.00	3
*	CRAWFORD	A	41	43	24	80	22	6	3	12.00	-12.40	100.00	3
*	CRAWFORD	B	41	44	6	80	7	36	3	12.00	-12.40	100.00	3
*	CRAWFORD	C	41	44	18	79	46	15	3	12.00	-12.40	100.00	3
*	CRAWFORD	D	41	36	57	80	21	12	3	12.00	-12.40	100.00	3
*	CRAWFORD	E	41	36	48	80	2	0	3	12.00	-12.40	100.00	3
*	CUMBERLAND	A	40	11	30	77	27	51	11	8.00	-18.60	100.00	3
*	CUMBERLAND	B	40	12	51	77	14	6	11	8.00	-18.60	100.00	3
*	CUMBERLAND	C	40	13	39	77	0	30	11	8.00	-18.60	100.00	3
*	CUMBERLAND	D	40	3	15	77	23	36	11	8.00	-18.60	100.00	3
*	CUMBERLAND	E	40	7	15	77	10	0	11	8.00	-18.60	100.00	3
*	ELK	A	41	33	30	78	48	27	5	9.00	-16.80	100.00	3
*	ELK	B	41	31	24	78	33	12	5	9.00	-16.80	100.00	3
*	ELK	C	41	22	30	78	55	45	5	9.00	-16.80	100.00	3
*	ELK	D	41	19	51	78	37	51	5	9.00	-16.80	100.00	3
*	ELK	E	41	19	15	78	21	48	5	9.00	-16.80	100.00	3
*	ERIE	A	42	9	18	79	52	0	3	8.00	-18.60	100.00	3
*	ERIE	B	42	2	48	80	3	30	3	8.00	-18.60	100.00	3
*	ERIE	C	42	0	36	79	52	24	3	8.00	-18.60	100.00	3
*	ERIE	D	41	59	15	80	12	18	3	8.00	-18.60	100.00	3
*	ERIE	E	41	55	6	80	23	48	3	8.00	-18.60	100.00	3
*	ERIE	F	41	55	18	80	11	57	3	8.00	-18.60	100.00	3
*	ERIE	G	41	55	45	79	57	30	3	8.00	-18.60	100.00	3
*	ERIE	H	41	55	24	79	44	0	3	8.00	-18.60	100.00	3
*	FAYETTE	A	39	59	24	79	48	30	7	11.00	-13.80	100.00	3
*	FAYETTE	B	39	58	45	79	27	30	7	11.00	-13.80	100.00	3
*	FAYETTE	C	39	49	9	79	45	0	7	11.00	-13.80	100.00	3

Appendix F

Summary of System Locations

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* FAYETTE	D 39 50 18	79 32 48	7	11.00	-13.80	100.00	3
* FOREST	A 41 34 9	79 21 12	7	9.00	-16.80	100.00	3
* FOREST	B 41 32 30	79 5 39	7	9.00	-16.80	100.00	3
* FOREST	C 41 29 18	79 22 9	7	9.00	-16.80	100.00	3
* FOREST	D 41 27 33	79 8 54	7	9.00	-16.80	100.00	3
* FRANKLIN	A 40 8 9	77 41 45	17	10.00	-15.20	100.00	3
* FRANKLIN	B 39 57 15	77 46 0	17	10.00	-15.20	100.00	3
* FRANKLIN	C 39 56 0	77 37 30	17	10.00	-15.20	100.00	3
* FRANKLIN	D 39 47 30	77 55 48	17	10.00	-15.20	100.00	3
* FRANKLIN	E 39 48 33	77 38 0	17	10.00	-15.20	100.00	3
* FULTON	A 40 2 6	78 3 15	11	10.00	-15.20	100.00	3
* FULTON	B 39 54 36	78 6 18	11	10.00	-15.20	100.00	3
* FULTON	C 39 49 9	78 13 0	11	10.00	-15.20	100.00	3
* GREENE	A 39 53 45	80 21 30	7	10.00	-20.20	100.00	4
* GREENE	B 39 53 30	80 6 21	7	10.00	-20.20	100.00	4
* GREENE	C 39 49 9	80 22 36	7	10.00	-20.20	100.00	4
* GREENE	D 39 48 6	80 6 0	7	10.00	-20.20	100.00	4
* HUNTINGDON	A 40 39 3	78 4 54	10	8.00	-18.60	100.00	3
* HUNTINGDON	B 40 40 57	77 48 57	10	8.00	-18.60	100.00	3
* HUNTINGDON	C 40 31 6	77 57 51	10	8.00	-18.60	100.00	3
* HUNTINGDON	D 40 28 36	78 2 54	10	8.00	-18.60	100.00	3
* HUNTINGDON	E 40 18 54	78 8 24	10	8.00	-18.60	100.00	3
* HUNTINGDON	F 40 14 15	78 4 21	10	8.00	-18.60	100.00	3
* HUNTINGDON	G 40 11 0	77 53 45	10	8.00	-18.60	100.00	3
* HUNTINGDON	H 40 18 15	77 51 30	10	8.00	-18.60	100.00	3
* INDIANA	A 40 49 24	79 6 30	5	8.00	-18.60	100.00	3
* INDIANA	B 40 49 42	78 55 3	5	8.00	-18.60	100.00	3
* INDIANA	C 40 40 30	79 11 42	5	8.00	-18.60	100.00	3
* INDIANA	D 40 45 0	78 55 6	5	8.00	-18.60	100.00	3
* INDIANA	E 40 36 21	78 58 45	5	8.00	-18.60	100.00	3
* INDIANA	F 40 31 39	79 18 0	5	8.00	-18.60	100.00	3
* INDIANA	G 40 28 12	79 4 30	5	8.00	-18.60	100.00	3
* JEFFERSON	A 41 13 42	78 59 0	7	14.00	-9.60	100.00	3
* JEFFERSON	B 41 2 21	79 0 0	7	14.00	-9.60	100.00	3
* JUNIATA	A 40 22 41	77 38 9	5	8.00	-18.60	100.00	3
* JUNIATA	B 40 31 9	77 28 0	5	8.00	-18.60	100.00	3
* JUNIATA	C 40 36 54	77 17 45	5	8.00	-18.60	100.00	3
* JUNIATA	D 40 38 39	77 6 30	5	8.00	-18.60	100.00	3
* MCKEAN	A 41 53 45	78 44 6	4	12.00	-12.40	100.00	3
* MCKEAN	B 41 54 0	78 24 0	4	12.00	-12.40	100.00	3
* MCKEAN	C 41 43 15	78 46 0	4	12.00	-12.40	100.00	3
* MCKEAN	D 41 43 12	78 23 33	4	12.00	-12.40	100.00	3
* MERCER	A 41 23 45	80 23 42	6	9.00	-16.80	100.00	3
* MERCER	B 41 23 30	80 8 0	6	9.00	-16.80	100.00	3
* MERCER	C 41 13 0	80 23 3	6	9.00	-16.80	100.00	3
* MERCER	D 41 11 51	80 7 30	6	9.00	-16.80	100.00	3
* MIFFLIN	A 40 43 51	77 26 0	5	8.00	-18.60	100.00	3
* MIFFLIN	B 40 39 3	77 35 48	5	8.00	-18.60	100.00	3
* MIFFLIN	C 40 33 51	77 41 48	5	8.00	-18.60	100.00	3

Appendix F

Summary of System Locations

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* MIFFLIN	D 40 27 54	77 46 12	5	8.00	-18.60	100.00	3
* PERRY	A 40 17 0	77 33 0	5	7.00	-20.50	100.00	3
* PERRY	B 40 23 33	77 24 30	5	7.00	-20.50	100.00	3
* PERRY	C 40 29 6	77 13 6	5	7.00	-20.50	100.00	3
* PERRY	D 40 33 0	77 3 36	5	7.00	-20.50	100.00	3
* PERRY	E 40 21 57	77 3 15	5	7.00	-20.50	100.00	3
* PERRY	F 40 20 39	77 15 12	5	7.00	-20.50	100.00	3
* POTTER	A 41 52 24	78 2 42	7	12.00	-12.40	100.00	3
* POTTER	B 41 52 15	77 45 3	7	12.00	-12.40	100.00	3
* POTTER	C 41 36 39	78 3 0	7	12.00	-12.40	100.00	3
* POTTER	D 41 36 57	77 45 0	7	12.00	-12.40	100.00	3
* SNYDER	A 40 46 12	77 12 15	6	9.00	-16.80	100.00	3
* SNYDER	B 40 46 30	76 56 21	6	9.00	-16.80	100.00	3
* SOMERSET	A 40 10 15	78 57 21	17	10.00	-15.20	100.00	3
* SOMERSET	B 40 10 6	78 48 54	17	10.00	-15.20	100.00	3
* SOMERSET	C 40 6 48	79 4 6	17	10.00	-15.20	100.00	3
* SOMERSET	D 39 56 42	79 13 30	17	10.00	-15.20	100.00	3
* SOMERSET	E 39 55 45	78 53 33	17	10.00	-15.20	100.00	3
* SOMERSET	F 39 48 51	79 15 0	17	10.00	-15.20	100.00	3
* SOMERSET	G 39 48 51	78 55 18	17	10.00	-15.20	100.00	3
* UNION	A 41 3 36	76 56 54	5	7.00	-20.50	100.00	3
* UNION	B 41 0 0	77 4 6	5	7.00	-20.50	100.00	3
* UNION	C 40 53 0	77 14 39	5	7.00	-20.50	100.00	3
* UNION	D 40 54 30	77 0 9	5	7.00	-20.50	100.00	3
* VENANGO	A 41 28 54	79 48 48	5	11.00	-13.80	100.00	3
* VENANGO	B 41 31 6	79 35 33	5	11.00	-13.80	100.00	3
* VENANGO	C 41 16 42	79 52 48	5	11.00	-13.80	100.00	3
* VENANGO	D 41 19 39	79 41 12	5	11.00	-13.80	100.00	3
* WARREN	A 41 54 21	79 27 6	4	11.00	-13.80	100.00	3
* WARREN	B 41 54 0	79 5 45	4	11.00	-13.80	100.00	3
* WARREN	C 41 42 54	79 26 21	4	11.00	-13.80	100.00	3
* WARREN	D 41 43 35	79 7 42	4	11.00	-13.80	100.00	3
* WASHINGTON	A 40 21 21	80 22 54	6	12.00	-12.40	100.00	3
* WASHINGTON	B 40 15 0	80 5 9	6	12.00	-12.40	100.00	3
* WASHINGTON	C 40 6 4	80 22 0	6	12.00	-12.40	100.00	3
* WASHINGTON	D 40 7 15	80 4 45	6	12.00	-12.40	100.00	3
* WESTMORELAND	A 40 32 54	79 40 39	11	9.00	-16.80	100.00	3
* WESTMORELAND	B 40 18 6	79 41 0	11	9.00	-16.80	100.00	3
* WESTMORELAND	C 40 11 54	79 43 45	11	9.00	-16.80	100.00	3
* WESTMORELAND	D 40 12 48	79 33 15	11	9.00	-16.80	100.00	3
* WESTMORELAND	E 40 10 15	79 17 15	11	9.00	-16.80	100.00	3
* WESTMORELAND	F 40 20 18	79 7 57	11	9.00	-16.80	100.00	3
* WESTMORELAND	G 40 24 6	79 25 12	11	9.00	-16.80	100.00	3

Appendix F

Summary of System Locations

	Site Name		Site Latitude			Site Longitude			Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
*	REGIONWIDE	A	41	57	35	80	2	42	2	25.00	-2.40	200.00	3
*	REGIONWIDE	B	41	28	46	80	3	50	2	25.00	-2.40	200.00	3
*	REGIONWIDE	C	40	56	46	80	3	50	2	25.00	-2.40	200.00	3
*	REGIONWIDE	D	40	24	45	80	3	50	2	25.00	-2.40	200.00	3
*	REGIONWIDE	E	40	2	21	80	3	50	2	25.00	-2.40	200.00	3
*	REGIONWIDE	F	40	2	21	79	29	37	2	25.00	-2.40	200.00	3
*	REGIONWIDE	G	40	2	21	78	47	49	2	25.00	-2.40	200.00	3
*	REGIONWIDE	H	40	2	21	78	2	12	2	25.00	-2.40	200.00	3
*	REGIONWIDE	I	40	2	21	77	16	35	2	25.00	-2.40	200.00	3
*	REGIONWIDE	J	40	27	57	77	24	11	2	25.00	-2.40	200.00	3
*	REGIONWIDE	K	40	53	14	77	17	20	2	25.00	-2.40	200.00	3
*	REGIONWIDE	L	41	6	22	77	50	48	2	25.00	-2.40	200.00	3
*	REGIONWIDE	M	41	39	48	78	2	12	2	25.00	-2.40	200.00	3
*	REGIONWIDE	N	41	39	48	78	44	1	2	25.00	-2.40	200.00	3
*	REGIONWIDE	O	41	39	48	79	22	1	2	25.00	-2.40	200.00	3
*	REGIONWIDE	P	41	4	36	79	18	13	2	25.00	-2.40	200.00	3
*	REGIONWIDE	Q	41	7	48	78	36	24	2	25.00	-2.40	200.00	3
*	REGIONWIDE	R	40	32	36	78	9	48	2	25.00	-2.40	200.00	3
*	REGIONWIDE	S	40	34	2	79	18	59	2	25.00	-2.40	200.00	3
*	REGIONWIDE	T	40	34	2	78	44	46	2	25.00	-2.40	200.00	3

Co-channel Users

Site : LAWRENCE

Co-channel Users

ELK	77.63 miles
FAYETTE	73.85 miles
FULTON	136.22 miles
POTTER	125.94 miles
BEDFORD	108.36 miles
GREENE	75.12 miles
FRANKLIN	150.04 miles
ADAMS	175.93 miles
SOMERSET	89.37 miles
CENTRE	111.90 miles
MIFFLIN	138.64 miles

Adjacent channel Users

CAMBRIA	86.25 miles
WASHINGTON	43.42 miles
BEDFORD	108.36 miles
GREENE	75.12 miles
CENTRE	111.90 miles
SNYDER	163.84 miles
PERRY	153.46 miles
JUNIATA	147.11 miles
FRANKLIN	150.04 miles
INDIANA	62.37 miles
CRAWFORD	43.70 miles
POTTER	125.94 miles
ERIE	64.67 miles
ARMSTRONG	38.78 miles
WESTMORELAND	45.44 miles
CLARION	41.59 miles
SOMERSET	89.37 miles

Site : ADAMS
Co-channel Users

INDIANA	101.07 miles
LAWRENCE	175.93 miles
SOMERSET	82.24 miles
ALLEGHENY	140.50 miles
CLINTON	81.55 miles
WARREN	158.28 miles
CAMBRIA	80.84 miles

Adjacent channel Users

CENTRE	67.87 miles

Site : ADAMS continued

Adjacent channel Users

WASHINGTON	147.32 miles
PERRY	28.88 miles
JUNIATA	37.52 miles
MERCER	173.24 miles
SNYDER	57.76 miles
CAMBRIA	80.84 miles
ALLEGHENY	140.50 miles
FULTON	41.00 miles
CLINTON	81.55 miles
WARREN	158.28 miles

Site : ALLEGHENY

Co-channel Users

CLINTON	113.65 miles
BEDFORD	71.90 miles
POTTER	117.87 miles
HUNTINGDON	91.46 miles
FRANKLIN	111.47 miles
CUMBERLAND	127.83 miles
CAMERON	103.72 miles
UNION	138.02 miles
FOREST	67.87 miles
FULTON	96.86 miles
CLEARFIELD	66.32 miles
ADAMS	140.50 miles
JUNIATA	117.11 miles
CENTRE	88.06 miles
WARREN	81.58 miles
ELK	73.20 miles
ERIE	93.31 miles
MCKEAN	97.14 miles

Adjacent channel Users

BLAIR	72.99 miles
FOREST	67.87 miles
HUNTINGDON	91.46 miles
CENTRE	88.06 miles
CLEARFIELD	66.32 miles
JEFFERSON	54.79 miles
SOMERSET	45.64 miles
CAMBRIA	50.89 miles
CLARION	39.20 miles
FRANKLIN	111.47 miles
MERCER	43.49 miles

Site : ALLEGHENY continued

Adjacent channel Users

POTTER	117.87 miles
VENANGO	48.60 miles
PERRY	122.57 miles
SNYDER	139.23 miles
UNION	138.02 miles
MIFFLIN	109.46 miles
CUMBERLAND	127.83 miles
JUNIATA	117.11 miles
ADAMS	140.50 miles
CRAWFORD	71.83 miles
MCKEAN	97.14 miles
WARREN	81.58 miles

Site : ARMSTRONG

Co-channel Users

GREENE	61.20 miles
CUMBERLAND	107.36 miles
CAMERON	68.28 miles
PERRY	100.85 miles

Adjacent channel Users

FOREST	39.70 miles
HUNTINGDON	67.30 miles
BEAVER	34.88 miles
CLEARFIELD	36.07 miles
CAMBRIA	34.46 miles
WASHINGTON	41.42 miles
FAYETTE	45.90 miles
PERRY	100.85 miles
CENTRE	59.25 miles
BEDFORD	58.01 miles
UNION	108.68 miles
SOMERSET	42.82 miles
CAMERON	68.28 miles
FRANKLIN	97.85 miles
LAWRENCE	38.78 miles

Site : BEAVER

Co-channel Users

HUNTINGDON	113.77 miles
CAMERON	114.27 miles
SNYDER	159.31 miles
CAMBRIA	75.68 miles
MIFFLIN	131.61 miles
INDIANA	52.32 miles

Adjacent channel Users

ARMSTRONG	34.88 miles
GREENE	46.95 miles
WESTMORELAND	32.98 miles
BEDFORD	97.55 miles
BLAIR	96.26 miles
FOREST	68.00 miles
POTTER	128.52 miles
VENANGO	40.61 miles
FRANKLIN	137.71 miles
MERCER	30.85 miles
MIFFLIN	131.61 miles
FULTON	123.28 miles
SOMERSET	73.88 miles
JEFFERSON	68.02 miles
INDIANA	52.32 miles
CAMBRIA	75.68 miles
CRAWFORD	59.29 miles
ELK	80.80 miles
ERIE	80.21 miles
CENTRE	107.38 miles

Site : BEDFORD

Co-channel Users

ALLEGHENY	71.90 miles
POTTER	98.93 miles
GREENE	76.28 miles
LAWRENCE	108.36 miles
WASHINGTON	77.29 miles
ERIE	133.29 miles
FOREST	91.42 miles
UNION	75.80 miles
ELK	76.24 miles

Adjacent channel Users

CENTRE	43.48 miles
CLEARFIELD	43.99 miles
LAWRENCE	108.36 miles
ELK	76.24 miles
BEAVER	97.55 miles
CAMERON	80.97 miles
SNYDER	72.95 miles
WESTMORELAND	33.18 miles
PERRY	41.21 miles
FAYETTE	43.97 miles
MIFFLIN	36.65 miles
ARMSTRONG	58.01 miles
CRAWFORD	123.25 miles
JUNIATA	39.43 miles

Site : BLAIR

Co-channel Users

FOREST	70.30 miles
MERCER	101.95 miles
VENANGO	86.21 miles

Adjacent channel Users

BUTLER	74.65 miles
CAMERON	46.61 miles
ALLEGHENY	72.99 miles
CLINTON	46.20 miles
BEAVER	96.26 miles
SNYDER	55.80 miles
UNION	55.04 miles
ELK	43.92 miles
WESTMORELAND	34.31 miles
INDIANA	30.21 miles
FAYETTE	58.56 miles
FRANKLIN	36.28 miles

Site : BUTLER

Co-channel Users

CAMERON	84.41 miles
MIFFLIN	108.81 miles
CUMBERLAND	129.56 miles
SOMERSET	60.78 miles
CENTRE	83.78 miles
FULTON	105.74 miles
GREENE	62.31 miles
POTTER	98.56 miles

Site: BUTLER

Adjacent channel Users

BLAIR	74.65 miles
FOREST	37.40 miles
CAMBRIA	55.76 miles
CENTRE	83.78 miles
WASHINGTON	35.12 miles
HUNTINGDON	90.48 miles
PERRY	123.26 miles
MCKEAN	70.61 miles
SOMERSET	60.78 miles
MIFFLIN	108.81 miles

Site : CAMBRIA

Co-channel Users

WASHINGTON	62.00 miles
BEAVER	75.68 miles
CRAWFORD	93.34 miles
ADAMS	80.84 miles
POTTER	70.72 miles
WARREN	77.71 miles
MERCER	82.88 miles
FOREST	60.59 miles

Adjacent channel Users

ARMSTRONG	34.46 miles
LAWRENCE	86.25 miles
ELK	47.26 miles
ALLEGHENY	50.89 miles
FRANKLIN	54.90 miles
FAYETTE	37.50 miles
FULTON	40.96 miles
POTTER	70.72 miles
BUTLER	55.76 miles
MIFFLIN	40.17 miles
CAMERON	53.00 miles
UNION	67.65 miles
VENANGO	69.19 miles
CUMBERLAND	62.72 miles
GREENE	69.81 miles
MERCER	82.88 miles
ADAMS	80.84 miles
CLINTON	55.01 miles
WARREN	77.71 miles
BEAVER	75.68 miles

Site : CAMERON

Co-channel Users

BUTLER	84.41 miles
BEAVER	114.27 miles
SNYDER	62.17 miles
ALLEGHENY	103.72 miles
UNION	55.66 miles
ARMSTRONG	68.28 miles
PERRY	75.91 miles
FAYETTE	118.26 miles
FRANKLIN	86.92 miles

Adjacent channel Users

BLAIR	46.61 miles
FOREST	41.64 miles
BEDFORD	80.97 miles
GREENE	145.32 miles
CAMBRIA	53.00 miles
MERCER	95.76 miles
UNION	55.66 miles
SOMERSET	89.76 miles
ARMSTRONG	68.28 miles

Site : CENTRE

Co-channel Users

WASHINGTON	106.44 miles
BUTLER	83.78 miles
LAWRENCE	111.90 miles
ALLEGHENY	88.06 miles

Adjacent channel Users

FULTON	54.16 miles
POTTER	37.21 miles
WESTMORELAND	58.94 miles
SOMERSET	55.01 miles
VENANGO	85.33 miles
ALLEGHENY	88.06 miles
BEDFORD	43.48 miles
LAWRENCE	111.90 miles
GREENE	118.84 miles
CUMBERLAND	46.09 miles
FAYETTE	87.77 miles
ADAMS	67.87 miles
INDIANA	37.65 miles
BUTLER	83.78 miles
FRANKLIN	48.65 miles
PERRY	30.55 miles
WASHINGTON	106.44 miles
JEFFERSON	44.72 miles
BEAVER	107.38 miles
ARMSTRONG	59.25 miles
MCKEAN	50.24 miles

Site : CLARION

Co-channel Users

JUNIATA	101.13 miles
FRANKLIN	108.10 miles
SOMERSET	67.46 miles

Adjacent channel Users

WESTMORELAND	38.28 miles
FULTON	99.25 miles
POTTER	67.25 miles
ALLEGHENY	39.20 miles
FRANKLIN	108.10 miles
CLEARFIELD	37.38 miles
LAWRENCE	41.59 miles
HUNTINGDON	71.55 miles
MCKEAN	38.18 miles
ALLEGHENY	66.32 miles
FRANKLIN	64.58 miles
PERRY	62.50 miles

Adjacent channel Users

ALLEGHENY	66.32 miles
BEDFORD	43.99 miles
POTTER	37.83 miles
ARMSTRONG	36.07 miles
FOREST	37.34 miles
FULTON	61.46 miles
SNYDER	58.70 miles
SOMERSET	48.27 miles
UNION	54.23 miles
WASHINGTON	86.68 miles
CLARION	37.38 miles
MERCER	79.92 miles

Site : CLINTON

Co-channel Users

ALLEGHENY	113.65 miles
ADAMS	81.55 miles
WARREN	70.53 miles
FULTON	81.92 miles
FRANKLIN	68.87 miles

Adjacent channel Users

BLAIR	46.20 miles
FOREST	64.55 miles
HUNTINGDON	37.08 miles
JEFFERSON	56.86 miles
CAMBRIA	55.01 miles
ADAMS	81.55 miles
MERCER	116.16 miles

Site: CRAWFORD

Co-channel Users

CAMBRIA	93.34 miles
POTTER	89.20 miles
JUNIATA	145.55 miles
WESTMORELAND	75.85 miles

Adjacent channel Users

BEAVER	59.29 miles
MIFFLIN	134.93 miles
ALLEGHENY	71.83 miles
FULTON	147.88 miles
LAWRENCE	43.70 miles
FAYETTE	112.72 miles
BEDFORD	123.25 miles

Site : CUMBERLAND

Co-channel Users

ALLEGHENY	127.83 miles
ARMSTRONG	107.36 miles
BUTLER	129.56 miles
SOMERSET	71.29 miles
JEFFERSON	99.54 miles
INDIANA	84.66 miles

Adjacent channel Users

CENTRE	46.09 miles
CAMBRIA	62.72 miles
FAYETTE	106.38 miles
WASHINGTON	138.11 miles
ALLEGHENY	127.83 miles
FULTON	32.99 miles
SNYDER	37.98 miles
SOMERSET	71.29 miles
MERCER	155.67 miles
JEFFERSON	99.54 miles

Site : ELK

Co-channel Users

LAWRENCE	77.63 miles
WESTMORELAND	69.15 miles
ERIE	53.96 miles
GREENE	119.57 miles
ALLEGHENY	73.20 miles
BEDFORD	76.24 miles

Adjacent channel Users

CAMBRIA	47.26 miles
WASHINGTON	98.44 miles
BEDFORD	76.24 miles
GREENE	119.57 miles
BLAIR	43.92 miles
MERCER	62.41 miles
BEAVER	80.80 miles
MIFFLIN	61.14 miles
INDIANA	37.76 miles

Site : ERIE

Co-channel Users

ELK	53.96 miles
GREENE	139.69 miles
BEDFORD	133.29 miles
ALLEGHENY	93.31 miles

Adjacent channel Users

BEAVER	80.21 miles
MIFFLIN	141.40 miles
INDIANA	82.58 miles
LAWRENCE	64.67 miles
FAYETTE	133.58 miles

Site : FAYETTE

Co-channel Users

LAWRENCE	73.85 miles
FULTON	66.71 miles
POTTER	134.60 miles
FRANKLIN	82.02 miles
JEFFERSON	77.06 miles
MIFFLIN	95.14 miles
CAMERON	118.26 miles

Adjacent channel Users

CAMBRIA	37.50 miles
ARMSTRONG	45.90 miles
CUMBERLAND	106.38 miles
CENTRE	87.77 miles
SNYDER	130.56 miles
CRAWFORD	112.72 miles
POTTER	134.60 miles
BEDFORD	43.97 miles
ERIE	133.58 miles
BLAIR	58.56 miles
VENANGO	89.05 miles
FOREST	103.49 miles
UNION	132.08 miles

Site : FOREST

Co-channel Users

BLAIR	70.30 miles
HUNTINGDON	78.75 miles
ALLEGHENY	67.87 miles
FULTON	113.80 miles
BEDFORD	91.42 miles
UNION	106.32 miles
CAMBRIA	60.59 miles

Adjacent channel Users

BUTLER	37.40 miles
CAMERON	41.64 miles
ALLEGHENY	67.87 miles
CLINTON	64.55 miles
ARMSTRONG	39.70 miles
GREENE	116.82 miles
BEAVER	68.00 miles
SNYDER	111.79 miles
CLEARFIELD	37.34 miles
FAYETTE	103.49 miles
PERRY	116.45 miles
FRANKLIN	118.82 miles
FULTON	113.80 miles

Adjacent channel Users

POTTER	54.16 miles

Site : FRANKLIN

Co-channel Users

ALLEGHENY	111.47 miles
CLARION	108.10 miles
LAWRENCE	150.04 miles
FAYETTE	82.02 miles
CLEARFIELD	64.58 miles
GREENE	115.14 miles
VENANGO	132.76 miles
WESTMORELAND	73.92 miles
INDIANA	74.92 miles
CLINTON	68.87 miles
CAMERON	86.92 miles

Adjacent channel Users

JEFFERSON	92.57 miles
SOMERSET	51.90 miles
CAMBRIA	54.90 miles
ALLEGHENY	111.47 miles
WESTMORELAND	73.92 miles
CENTRE	48.65 miles
SNYDER	50.85 miles
UNION	56.81 miles
BEAVER	137.71 miles
LAWRENCE	150.04 miles
MCKEAN	115.28 miles
VENANGO	132.76 miles
CLARION	108.10 miles
MERCER	146.85 miles
FOREST	118.82 miles
BLAIR	36.28 miles
ARMSTRONG	97.85 miles

Site : FULTON

Co-channel Users

POTTER	108.83 miles
WESTMORELAND	60.23 miles
LAWRENCE	136.22 miles
FAYETTE	66.71 miles
ALLEGHENY	96.86 miles
FOREST	113.80 miles
BUTLER	105.74 miles
CLINTON	81.92 miles
WARREN	129.57 miles
GREENE	99.92 miles

Adjacent channel Users

CLARION	99.25 miles
JUNIATA	32.38 miles
CENTRE	54.16 miles
CAMBRIA	40.96 miles
CLEARFIELD	61.46 miles
MERCER	135.02 miles
MIFFLIN	33.26 miles
CUMBERLAND	32.99 miles
JEFFERSON	85.28 miles
BEAVER	123.28 miles
SOMERSET	36.62 miles
MCKEAN	117.70 miles
ADAMS	41.00 miles
CRAWFORD	147.88 miles
POTTER	108.83 miles
WARREN	129.57 miles
FOREST	113.80 miles

Site : GREENE

Co-channel Users

ARMSTRONG	61.20 miles
BEDFORD	76.28 miles
LAWRENCE	75.12 miles
FRANKLIN	115.14 miles
ELK	119.57 miles
ERIE	139.69 miles
BUTLER	62.31 miles
FULTON	99.92 miles
POTTER	160.19 miles

Adjacent channel Users

FOREST	116.82 miles
HUNTINGDON	107.88 miles
BEAVER	46.95 miles
LAWRENCE	75.12 miles
ELK	119.57 miles
CAMERON	145.32 miles
SNYDER	164.36 miles
CENTRE	118.84 miles
SOMERSET	45.10 miles
UNION	165.37 miles
CAMBRIA	69.81 miles
MIFFLIN	129.45 miles
INDIANA	61.11 miles
MCKEAN	144.42 miles

Site : HUNTINGDON

Co-channel Users

FOREST	78.75 miles
BEAVER	113.77 miles
ALLEGHENY	91.46 miles
MCKEAN	75.58 miles

Site: HUNTINGDON

Adjacent channel Users

ALLEGHENY	91.46 miles
CLINTON	37.08 miles
ARMSTRONG	67.30 miles
GREENE	107.88 miles
WESTMORELAND	52.28 miles
JEFFERSON	54.96 miles
SOMERSET	37.00 miles
BUTLER	90.48 miles
CLARION	71.55 miles

Site : INDIANA

Co-channel Users

ADAMS	101.07 miles
CUMBERLAND	84.66 miles
FRANKLIN	74.92 miles
BEAVER	52.32 miles

Adjacent channel Users

CENTRE	37.65 miles
WASHINGTON	45.56 miles
BEAVER	52.32 miles
LAWRENCE	62.37 miles
ELK	37.76 miles
ERIE	82.58 miles
GREENE	61.11 miles
BLAIR	30.21 miles
VENANGO	46.03 miles

Site : JEFFERSON

Co-channel Users

SOMERSET	60.01 miles
PERRY	92.17 miles
CUMBERLAND	99.54 miles
FAYETTE	77.06 miles

Adjacent channel Users

ALLEGHENY	54.79 miles
CLINTON	56.86 miles
HUNTINGDON	54.96 miles
FRANKLIN	92.57 miles
FULTON	85.28 miles
CUMBERLAND	99.54 miles
BEAVER	68.02 miles
UNION	92.20 miles
CENTRE	44.72 miles

Site : JUNIATA

Co-channel Users

CLARION	101.13 miles
ALLEGHENY	117.11 miles
WESTMORELAND	78.81 miles
CRAWFORD	145.55 miles

Adjacent channel Users

WESTMORELAND	78.81 miles
FULTON	32.38 miles
POTTER	73.05 miles
LAWRENCE	147.11 miles
ADAMS	37.52 miles
SOMERSET	63.80 miles
ALLEGHENY	117.11 miles
BEDFORD	39.43 miles

Site :	MCKEAN	
	Co-channel Users	
SOMERSET		107.25 miles
ALLEGHENY		97.14 miles
HUNTINGDON		75.58 miles
	Adjacent channel Users	
BUTLER		70.61 miles
FULTON		117.70 miles
FRANKLIN		115.28 miles
GREENE		144.42 miles
WESTMORELAND		93.81 miles
ALLEGHENY		97.14 miles
CENTRE		50.24 miles
CLARION		38.18 miles
SOMERSET		107.25 miles
Site :	MERCER	
	Co-channel Users	
BLAIR		101.95 miles
MIFFLIN		133.04 miles
SNYDER		155.10 miles
SOMERSET		93.12 miles
CAMBRIA		82.88 miles
	Adjacent channel Users	
ALLEGHENY		43.49 miles
CAMERON		95.76 miles
UNION		151.61 miles
ELK		62.41 miles
WESTMORELAND		50.56 miles
BEAVER		30.85 miles
CAMBRIA		82.88 miles
FULTON		135.02 miles
ADAMS		173.24 miles
CUMBERLAND		155.67 miles
CLEARFIELD		79.92 miles
WARREN		42.26 miles
POTTER		108.81 miles
CLINTON		116.16 miles
FRANKLIN		146.85 miles
Site :	MIFFLIN	
	Co-channel Users	
BUTLER		108.81 miles
MERCER		133.04 miles
BEAVER		131.61 miles
LAWRENCE		138.64 miles
FAYETTE		95.14 miles
	Adjacent channel Users	
CAMBRIA		40.17 miles
BEAVER		131.61 miles
ALLEGHENY		109.46 miles
FULTON		33.26 miles
CRAWFORD		134.93 miles
ELK		61.14 miles
ERIE		141.40 miles

GREENE	129.45 miles
POTTER	63.30 miles
BEDFORD	36.65 miles
BUTLER	108.81 miles

Site : PERRY

Co-channel Users

JEFFERSON	92.17 miles
WASHINGTON	133.65 miles
CLEARFIELD	62.50 miles
ARMSTRONG	100.85 miles
CAMERON	75.91 miles

Adjacent channel Users

ALLEGHENY	122.57 miles
BUTLER	123.26 miles
CENTRE	30.55 miles
LAWRENCE	153.46 miles
ADAMS	28.88 miles
SOMERSET	67.17 miles
UNION	24.93 miles
BEDFORD	41.21 miles
WASHINGTON	133.65 miles
ARMSTRONG	100.85 miles
FOREST	116.45 miles

Site : POTTER

Co-channel Users

FULTON	108.83 miles
WESTMORELAND	104.44 miles
ALLEGHENY	117.87 miles
BEDFORD	98.93 miles
LAWRENCE	125.94 miles
FAYETTE	134.60 miles
VENANGO	79.96 miles
CAMBRIA	70.72 miles
CRAWFORD	89.20 miles
BUTLER	98.56 miles
GREENE	160.19 miles

Adjacent channel Users

CLARION	67.25 miles
JUNIATA	73.05 miles
CENTRE	37.21 miles
CLEARFIELD	37.88 miles
CAMBRIA	70.72 miles
BEAVER	128.52 miles
ALLEGHENY	117.87 miles
FULTON	108.83 miles
LAWRENCE	125.94 miles
FAYETTE	134.60 miles
MIFFLIN	63.30 miles
WARREN	54.06 miles
MERCER	108.81 miles
FOREST	54.16 miles

Site : SNYDER

Co-channel Users

BEAVER	159.31 miles
CAMERON	62.17 miles
SOMERSET	94.28 miles
MERCER	155.10 miles

Adjacent channel Users

BEDFORD	72.95 miles
GREENE	164.36 miles
BLAIR	55.80 miles
FOREST	111.79 miles
ALLEGHENY	139.23 miles
FRANKLIN	50.85 miles
LAWRENCE	163.84 miles
FAYETTE	130.56 miles
CLEARFIELD	58.70 miles
ADAMS	57.76 miles
CUMBERLAND	37.98 miles

Site : SOMERSET

Co-channel Users

VENANGO	88.56 miles
JEFFERSON	60.01 miles
BUTLER	60.78 miles
CUMBERLAND	71.29 miles
UNION	96.11 miles
LAWRENCE	89.37 miles
ADAMS	82.24 miles
SNYDER	94.28 miles
MERCER	93.12 miles
MCKEAN	107.25 miles
CLARION	67.46 miles

Adjacent channel Users

CENTRE	55.01 miles
ALLEGHENY	45.64 miles
HUNTINGDON	37.00 miles
FRANKLIN	51.90 miles
WASHINGTON	46.77 miles
CLEARFIELD	48.27 miles
GREENE	45.10 miles
PERRY	67.17 miles
JUNIATA	63.80 miles
FULTON	36.62 miles
BEAVER	73.88 miles
CUMBERLAND	71.29 miles
BUTLER	60.78 miles
ARMSTRONG	42.82 miles
CAMERON	89.76 miles
LAWRENCE	89.37 miles
MCKEAN	107.25 miles

Site : UNION

Co-channel Users

ALLEGHENY	138.02 miles
CAMERON	55.66 miles
SOMERSET	96.11 miles
BEDFORD	75.80 miles
FOREST	106.32 miles

Adjacent channel Users

CAMBRIA	67.65 miles
BLAIR	55.04 miles
MERCER	151.61 miles
ALLEGHENY	138.02 miles
CLEARFIELD	54.23 miles
FRANKLIN	56.81 miles
GREENE	165.37 miles
PERRY	24.93 miles
JEFFERSON	92.20 miles
FAYETTE	132.08 miles
ARMSTRONG	108.68 miles
CAMERON	55.66 miles

Site : VENANGO

Co-channel Users

SOMERSET	88.56 miles
POTTER	79.96 miles
FRANKLIN	132.76 miles
BLAIR	86.21 miles

Adjacent channel Users

CENTRE	85.33 miles
BEAVER	40.61 miles
CAMBRIA	69.19 miles
ALLEGHENY	48.60 miles
FRANKLIN	132.76 miles
INDIANA	46.03 miles
FAYETTE	89.05 miles

Site : WARREN

Co-channel Users

ADAMS	158.28 miles
ALLEGHENY	81.58 miles
CLINTON	70.53 miles
FULTON	129.57 miles
CAMBRIA	77.71 miles
WESTMORELAND	81.52 miles

Adjacent channel Users

CAMBRIA	77.71 miles
ADAMS	158.28 miles
MERCER	42.26 miles
ALLEGHENY	81.58 miles
FULTON	129.57 miles
POTTER	54.06 miles

Site : WASHINGTON

Co-channel Users

CAMBRIA	62.00 miles
CENTRE	106.44 miles
PERRY	133.65 miles
BEDFORD	77.29 miles

Adjacent channel Users

ARMSTRONG	41.42 miles
LAWRENCE	43.42 miles
ELK	98.44 miles
ADAMS	147.32 miles
INDIANA	45.56 miles
BUTLER	35.12 miles
CUMBERLAND	138.11 miles
SOMERSET	46.77 miles
CENTRE	106.44 miles
CLEARFIELD	86.68 miles
PERRY	133.65 miles

Site : WESTMORELAND

Co-channel Users

FULTON	60.23 miles
POTTER	104.44 miles
ELK	69.15 miles
FRANKLIN	73.92 miles
JUNIATA	78.81 miles
CRAWFORD	75.85 miles
WARREN	81.52 miles

Adjacent channel Users

BEAVER	32.98 miles
HUNTINGDON	52.28 miles
CLARION	38.28 miles
JUNIATA	78.81 miles

Site: WESTMORELAND Cont...

CENTRE	58.94 miles
FRANKLIN	73.92 miles
BLAIR	34.31 miles
MERCER	50.56 miles
BEDFORD	33.18 miles
MCKEAN	93.81 miles
LAWRENCE	45.44 miles

Site : REGIONWIDE

Co-channel Users

Adjacent channel Users

REGION 36 CHANNELS EXCLUDED APPENDIX F

LAWRENCE	603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 623 624 625 626 627 628 629 633 634 635 644 645 646 647 648 649 654 655 656 657 658 666 667 668 686 687 688 689 690 691 692 694 695 696 719 720 721 736 737 738 739 740 741 754 755 756 757 758 760 761 762 763 764 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 794 795 796 797 798 799 800 801 802 816 817 818 820 824 825 826
ADAMS	602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 659 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 678 679 680 681 683 684 685 686 687 689 692 693 695 696 697 698 699 700 702 703 704 705 707 709 710 712 716 717 718 719 720 721 723 724 725 726 728 732 735 736 737 740 745 747 750 751 752 754 755 756 757 758 759 760 761 762 763 765 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 785 786 787 788 789 790 791 792 793 794 795 796 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830
ALLEGHENY	608 609 610 611 612 613 614 615 618 633 634 635 644 645 646 654 655 656 657 658 667 687 688 689 690 691 692 694 695 696 719 720 721 736 737 738 739 740 741 755 756 757 758 760 761 762 763 772 773 774 776 777 778 780 781 782 786 794 795 796 797 798 800 801 802 804 816 817 818 819 820 821 822 824 825
ARMSTRONG	none
BEAVER	604 606 608 609 610 611 612 613 614 615 616 617 618 619 624 626 628 633 634 635 644 645 646 647 648 654 655 656 657 658 666 667 668 686 687 688 689 690 691 692 694 695 696 719 720 721 736 737 738 739 740 741 754 755 756 757 758 760 761 762 763 764 772 773 774 775 776 777 778 779 780 781 782 784 785 786 787 794 795 796 797 798 799 800 801 802 804 816 817 818 819 820 821 822 824 825 826

BEDFORD	602 603 604 605 606 607 618 619 620 640 641 642 643 678 679 680 681 716 717 718 719 754 755 756 757 791 792 793 803 804 805 823 824 825 826 827 828 829
BLAIR	602 604 606 619 640 642 678 680 716 718 754 756 792 804 824 826
BUTLER	604 606 608 609 610 611 612 613 614 615 618 624 626 628 633 634 635 644 645 646 647 648 654 655 656 657 658 667 687 688 689 690 691 692 694 695 696 719 720 721 736 737 738 739 740 741 755 756 757 758 760 761 762 763 772 773 774 776 777 778 780 781 782 784 786 794 795 796 797 799 800 801 802 815 817 818 820 825
CAMBRIA	602 604 606 640 642 678 680 716 718 754 756 792 826 828
CAMERON	607 608 609 612 613 614 627 628 629 632 633 634 653 654 655 790 791 792 803 804 805 818 819 820 821 822 823 824 825
CENTRE	603 605 607 608 610 612 613 614 616 617 618 619 620 625 626 627 628 630 632 633 634 641 643 644 645 646 647 648 653 654 655 679 695 697 720 741 749 760 761 762 768 779 780 781 782 783 785 787 788 790 791 792 800 801 802 803 804 805 807 809 812 816 818 819 820 821 822 823 824 825 827 829
CLARION	none
CLEARFIELD	608 613 628 633 654 791 804 819 821 824
CLINTON	603 605 606 607 608 609 610 612 613 614 615 616 617 618 619 620 623 625 626 627 628 629 630 632 633 634 644 645 646 647 648 653 654 655 695 697 720 741 749 760 761 762 768 779 780 781 782 783 787 788 789 790 791 792 800 801 802 803 804 805 807 809 815 816 817 818 819 820 821 822 823 824 825 827 829
CRAWFORD	601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670

CRAWFORD Cont.	671	672	673	674	675	676	677	678	679	680
	681	682	683	684	685	686	687	688	689	690
	691	692	693	694	695	696	697	698	699	700
	701	702	703	704	705	706	707	708	709	710
	711	712	713	714	715	716	717	718	719	720
	721	722	723	724	725	726	727	728	729	730
	731	732	733	734	735	736	737	738	739	740
	741	742	743	744	745	746	747	748	749	750
	751	752	753	754	755	756	757	758	759	760
	761	762	763	764	772	773	774	776	778	779
	780	781	783	784	785	786	787	794	795	796
	798	799	800	815	817	818	825			
CUMBERLAND	602	603	604	605	606	607	608	609	610	611
	612	613	614	615	616	617	618	619	620	621
	622	623	624	625	626	627	628	629	630	631
	632	633	634	635	636	637	640	641	642	643
	644	645	646	647	648	649	650	651	652	654
	656	659	662	663	664	665	666	667	668	669
	670	671	673	674	675	676	678	679	680	681
	684	685	686	687	693	695	696	697	698	704
	709	716	717	718	719	720	724	736	741	749
	750	751	752	754	755	756	757	758	759	760
	761	762	763	768	769	770	771	772	773	774
	775	776	777	778	779	780	781	782	784	785
	786	787	788	789	790	791	792	793	794	795
	796	798	799	800	801	802	803	804	805	806
	807	808	809	810	811	812	813	814	815	816
	817	818	819	820	821	822	823	824	825	826
	827	828	829	830						
ELK	608	613	628	633	654	791	804	819	821	824
ERIE	601	602	603	604	605	606	607	608	609	610
	611	612	613	614	615	616	617	618	619	620
	621	622	623	624	625	626	627	628	629	630
	631	632	633	634	635	636	637	638	639	640
	641	642	643	644	645	646	647	648	649	650
	651	652	653	654	655	656	657	658	659	660
	661	662	663	664	665	666	667	668	669	670
	671	672	673	674	675	676	677	678	679	680
	681	682	683	684	685	686	687	688	689	690
	691	692	693	694	695	696	697	698	699	700
	701	702	703	704	705	706	707	708	709	710
	711	712	713	714	715	716	717	718	719	720
	721	722	723	724	725	726	727	728	729	730
	731	732	733	734	735	736	737	738	739	740
	741	742	743	744	745	746	747	748	749	750
	751	752	753	754	755	756	757	758	759	760
	761	762	763	764	772	773	774	779	780	781
	783	784	785	786	787	794	795	796	798	799
	800	816	817	818						

FAYETTE	602 603 604 605 606 607 640 641 642 643 678 679 680 681 716 717 718 719 754 755 756 757 791 792 793 825 826 827 828 829
FORREST	none
FRANKLIN	602 603 604 605 606 607 608 609 610 612 613 614 616 618 619 620 622 624 625 626 629 630 631 632 634 635 638 640 641 642 643 644 645 646 647 648 649 650 651 652 654 656 669 670 671 674 676 678 679 680 681 684 696 698 704 710 716 717 718 719 720 724 728 732 735 736 737 740 752 754 755 756 757 758 759 760 768 769 770 771 772 773 777 778 779 780 782 786 787 788 789 790 791 792 793 794 798 799 800 802 803 804 805 806 807 809 810 811 812 815 818 819 820 822 823 824 825 826 827 829
FULTON	602 603 604 605 606 607 613 618 619 620 635 640 641 642 643 646 670 678 679 680 681 716 717 718 719 754 755 756 757 769 789 791 792 793 803 804 805 809 811 823 824 825 826 827 828
GREENE	602 604 609 611 612 613 640 642 644 645 646 654 655 656 657 658 678 680 688 689 690 691 692 694 695 696 716 718 719 720 721 736 737 738 739 740 741 754 756 760 761 762 772 773 774 777 792 794 795 796 797 801 802 803 804 805 816 817 818 820 821 822 823 824 825 828
HUNTINGDON	602 603 604 606 608 612 613 614 619 625 627 630 632 633 640 642 645 646 648 650 654 670 678 680 716 718 754 756 758 761 769 778 781 787 789 791 792 799 801 803 804 807 809 811 819 821 824 825 826 827 829
INDIANA	none
JEFFERSON	none
JUNIATA	602 603 604 605 606 607 608 610 611 612 613 614 615 616 617 618 619 620 621 623 624 625 626 627 628 630 631 632 633 635 637 640 641 642 643 644 645 646 647 648 649 650 651 654 662 664 666 668 670 673 675 678 679 680 686 693 694 695 696 697 698 716 718 719 720 721 740 741 742 748 749 750 751 754 756 758 760 761 762 767 768 769 770 772 774 777 778 779 780 781

JUNIATA Cont.	782	783	784	785	786	787	788	789	791	792
	793	795	798	799	800	801	802	803	804	805
	806	807	808	809	810	811	812	813	814	816
	818	819	821	822	823	824	825	826	827	828
	829	830								
MCKEAN	601	602	603	604	605	606	607	608	609	610
	611	612	613	614	615	616	617	618	619	620
	621	622	623	624	625	626	627	628	629	630
	631	632	633	634	635	636	637	638	639	640
	641	642	643	644	645	646	647	648	649	650
	651	652	653	654	655	656	657	658	659	660
	661	662	663	664	665	666	667	668	669	670
	671	672	673	674	675	676	677	678	679	680
	681	682	683	684	685	686	687	688	689	690
	691	692	693	694	695	696	697	698	699	700
	701	702	703	704	705	706	707	708	709	710
	711	712	713	714	715	716	717	718	719	720
	721	722	723	724	725	726	727	728	729	730
	731	732	733	734	735	736	737	738	739	740
	741	742	743	744	745	746	747	748	749	750
	751	752	753	754	755	756	757	758	759	791
	804	819	821	824						
MERCER	603	604	605	606	607	608	609	610	611	612
	613	614	615	616	617	618	619	623	624	625
	626	627	628	629	633	634	635	644	645	646
	647	648	649	654	655	656	657	658	666	667
	668	686	687	688	689	690	691	692	694	695
	696	719	720	721	736	737	738	739	740	741
	754	755	756	757	758	760	761	762	763	764
	772	773	774	775	776	777	778	779	780	781
	782	783	784	785	786	787	794	795	796	797
	798	799	800	801	802	816	817	818	824	825
	826									
MIFFLIN	602	603	604	605	606	607	608	611	612	613
	614	615	616	617	618	619	620	624	625	626
	627	628	630	631	632	633	634	641	643	644
	645	646	647	648	649	650	653	654	655	679
	695	697	720	741	749	758	760	761	762	768
	778	779	780	781	782	785	786	787	788	790
	791	792	799	800	801	802	803	805	806	807
	808	809	810	812	816	818	819	820	821	822
	824	825	826	827	828	829	830			
PERRY	602	603	604	605	606	607	608	609	610	611
	612	613	614	615	616	617	618	619	620	621
	622	623	624	625	626	627	628	629	630	631
	632	633	634	635	636	637	640	641	642	643
	644	645	646	647	648	649	650	651	654	662
	663	664	665	666	667	668	669	670	673	674
	675	676	678	679	680	685	686	687	693	694
	695	696	697	698	716	718	719	720	721	736

PERRY cont.	740 741 742 748 749 750 751 752 754 756 757 758 759 760 761 762 763 767 768 769 770 771 772 773 774 775 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830
POTTER	603 606 607 608 609 612 613 614 623 625 627 628 629 632 633 634 647 653 654 655 789 790 791 792 803 804 805 809 818 819 820 821 822 823 824 825 827 829
SNYDER	602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 623 624 625 626 627 628 629 630 631 632 633 634 635 637 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 658 662 664 666 668 670 672 673 675 678 679 680 686 690 692 693 694 695 696 697 698 713 719 720 721 740 741 742 748 749 750 751 758 760 761 762 767 768 769 770 772 773 774 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830
SOMERSET	602 603 604 605 606 607 619 640 641 642 643 678 679 680 681 716 717 718 719 754 755 756 757 791 792 793 804 824 825 826 827 828 829
UNION	602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 623 624 625 626 627 628 629 630 631 632 633 634 637 641 643 644 645 646 647 648 649 651 652 653 654 655 656 658 660 662 670 672 673 679 690 692 693 694 695 696 697 698 713 719 720 721 740 741 742 748 749 750 760 761 762 767 768 769 770 773 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 794 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830
VENANGO	604 606 608 611 613 615 618 624 626 628 634 645 647 648 655 657 667 687 689 691 695 720 737 740 755 757 761 763 773 776 778 780 781 784 786 795 796 799 801 817 825

WARREN	601	602	603	604	605	606	607	608	609	610
	611	612	613	614	615	616	617	618	619	620
	621	622	623	624	625	626	627	628	629	630
	631	632	633	634	635	636	637	638	639	640
	641	642	643	644	645	646	647	648	649	650
	651	652	653	654	655	656	657	658	659	660
	661	662	663	664	665	666	667	668	669	670
	671	672	673	674	675	676	677	678	679	680
	691	692	693	694	695	696	697	698	699	700
	701	702	703	704	705	706	707	708	709	710
	711	712	713	714	715	716	717	718	719	720
	721	722	723	724	725	726	727	728	729	730
	731	732	733	734	735	736	737	738	739	740
	741	742	743	744	745	746	747	748	749	750
	751	752	753	754	755	756	757	758	759	
WASHINGTON	602	604	608	609	610	611	612	613	614	615
	618	633	634	635	640	642	644	645	646	654
	655	656	657	658	667	678	680	687	688	689
	690	691	692	694	695	696	716	718	719	720
	721	736	737	738	739	740	741	754	755	756
	757	758	760	761	762	763	772	773	774	776
	777	778	780	781	782	786	792	794	795	796
	797	798	800	801	802	803	804	805	816	817
	818	819	820	821	822	823	824	825	828	
WESTMORELAND	602	604	606	640	642	645	655	657	678	680
	689	691	695	716	718	720	737	740	754	756
	761	773	792	795	817	826	828			
REGIONWIDE	601	602	603	604	605	606	607	608	609	610
	611	612	613	614	615	616	617	618	619	620
	621	622	623	624	625	626	627	628	629	630
	631	632	633	634	635	636	637	638	639	640
	641	642	643	644	645	646	647	648	649	650
	661	662	663	664	665	666	667	668	669	670
	671	672	673	674	675	676	677	678	679	680
	681	682	683	684	685	686	687	688	689	690
	691	692	693	694	695	696	697	698	699	700
	701	702	703	704	705	706	707	708	709	710
	711	712	713	714	715	716	717	718	719	720
	721	722	723	724	725	726	727	728	729	730
	731	732	733	734	735	736	737	738	739	740
	741	742	743	744	745	746	747	748	749	750
	751	752	753	754	755	756	757	758	759	760
	761	762	763	765	767	768	769	770	771	772
	773	774	775	776	777	778	779	780	781	782
	783	784	785	786	787	788	789	790	791	792
	793	794	795	796	797	798	799	800	801	802
	803	804	805	806	807	808	809	810	811	812
	813	815	816	817	818	819	820	821	822	823
	824	825	826	827	828	829	830			

Armstrong EMR Operation Ctr
Bower, Robert T.
P O Box 731
Kittanning, PA 16201
Codes: AB List by: 1 Date: Aug 5 92

Borough of State College (W) 814-234-7150
Orndorf, Jack S.
Bureau of Police Services
118 South Fraser Street
State College, PA 16801
Codes: AB List by: 1 Date: Aug 5 92

Centre Regional Planning Comm.
Elpern, Mr. Dennis I.
Municipal Building
119 S. Fraser Street
State College, PA 16801
Director
Codes: AB List by: 1 Date: Aug 5 92

City of Pittsburgh (W) 412 255-2916
Demichiei, Raymond
Dept. of Public Safety
2925 Railroad St.
Pittsburgh, PA 15201
Codes: AB List by: 1 Date: Aug 5 92

Clarion Co. Emerg. Mgt. Agency (H) 814-226-7020
McEwen, Mr. Joseph (W) 814-226-6631
Court House
Main Street
Clarion, PA 16214
USA
Coordinator
Codes: AB List by: 1 Date: Aug 5 92

Clearfield County Comm. (W) 814-765-1407
Porter, Sharon B.
700 Leonard Street
Clearfield, PA 16830
Codes: AB List by: 1 Date: Aug 5 92

County of Somerset (W) 814-445-4135
Baumgarder, E. Alan
Somerset County Control
Somerset, PA 15501
Codes: AB List by: 1 Date: Aug 5 92

County of Somerset (W) 814-445-4135
Karashowsky, James A.
Somerset County Control
Somerset, PA 15501
Codes: AB List by: 1 Date: Aug 5 92

County of Somerset (W) 814-445-4135
Lohr, Richard B.
Somerset County Control
Somerset, PA 15501
Codes: AB List by: 1 Date: Aug 5 92

Cumberland Co. Office of Emer. (H) 717-532-4078
Wise, Mr. Theodore (W) 717-249-5522
Court House
Carlisle, PA 17013
USA
Coordinator
Codes: AB List by: 1 Date: Aug 5 92

Dept. Emg. Mgt. Westmorland Co (W) 814 834-7007
Cavanaugh, Susan
12 Court House Square
Greensburg, PA 15601
USA
Codes: AB List by: 1 Date: Aug 5 92

Dept. Gen. Services (W) 717-787-4235
Mineo, Nicholas
Bureau of Telecommunications
2221 Foster St. - Room G-11
Harrisburg, PA 17125
USA
Div. Chief
Codes: AB List by: 1 Date: Aug 5 92

Forest Co. Civil Defense (H) 814-463-7493
Kennedy, Mr. Jack B. (W) 814-755-8863
R. D. #1
Tidioute, PA 16351
USA
Coordinator
Codes: AB List by: 1 Date: Aug 5 92

Fulton Co. Emerg. Mgt. Agency (H) 717-485-3201
Carmack, Mr. Lester (W) 717-485-3201
Court House Annex No. 1
214 N. Second Street
McConnellsburg, PA 17233-1199
USA
Coordinator
Codes: AB List by: 1 Date: Aug 5 92

Game Commission
Beam, Jack
2001 Elmerton Ave.
Harrisburg, PA 17110
Codes: AB List by: 1 Date: Aug 5 92

Indiana Cty. Plng. Comm.
Allen, Ms. Lorraine P.
Third Floor, Court House
825 Philadelphia St.
Indiana, PA. 15701
USA
Dir.
Codes: AB List by: 1 Date: Aug 5 92

Mifflin Cty. Plng. Comm.
Arnold, Mr. Scott
20 N. Wayne St.
Lewistown, PA 17044
USA
Dir.
Codes: AB List by: 1 Date: Aug 5 92

Office of Mgmt. & Budget (W) 717-783-3700
Heltebridle, Laine A.
Penna. Intergovernmental Counl
PO Box 11880
Harrisburg, PA 17108
USA
Special Assistant
Codes: AB List by: 1 Date: Aug 5 92

PEMA (W) 717-783-8150
Greenway, Mr. Brian R.
PO Box 3321
Harrisburg, PA 17105
USA
Warning & Comm. Officer
Codes: AB List by: 1 Date: Aug 5 92

Pennsylvania State Police (H) 717-566-0979
Hollar Jr., John (W) 717-787-0896
1425 Bradley Ave
Hummelstown, PA 17036
USA
Chairman, Region 36
Codes: AB List by: 1 Date: Aug 5 92

Somerset Cty. Plng. Comm.
Burggraf, Mr. Frank J.
Box 4
165 E. Union St.
Somerset, PA 15501
USA
Dir.
Codes: AB List by: 1 Date: Aug 5 92

Warren County EMS (W) 814-726-2498
Hammerbeck, Tommy
Warren County Commissioners
333 Hickory St.
Warren, PA 16365
Codes: AB List by: 1 Date: Aug 5 92

Westmoreland County (W) 412-834-2191
Hunger, Mr. Richard J.
Dept. of Emergency Mgt.
12 Court House Square
Greenburg, PA 15601
USA
Exec. Dir.
Codes: AB List by: 1 Date: Aug 5 92

Westmoreland County Emer.
Fisher, John R.
12 Courthouse Square
Greensburg, PA 15601
Codes: AB List by: 1 Date: Aug 5 92

Donaldson, Mr. Robert
Third Floor-Willobank Bldg.
Valentine and Home Streets
Bellefonte, PA 16823
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Adams Co. Emer. Mgt. Agency (H) 717-334-3543
Fox, Mr. James D.
Court House, Room 6
Gettysburg, PA 17325
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Adams Co. Planning Commission
Callenbach, Mr. John L.
Room 205 Adams Co. Court House
Gettysburg, PA 17325
USA
Codes: B List by: 1 Date: Aug 5 92

Adams County Emr. Mgt. (W) 717 334-8603
Ketterman, Richard L.
Adams County Courthouse R6
111-117 Baltimore St.
Gettysburg, PA 17325-2313
Codes: B List by: 1 Date: Aug 3 92

Allegheny Co. Planning Comm.
Reaves, Mr. Raymond
Allegheny Building, 13th Flr.
429 Forbes Avenue
Pittsburgh, PA 15219
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Allegheny County Advisory Bd. (W) 412-344-9000
Maehling, Mr. J. Peter
1610 Potomac Ave.
Pittsburgh, PA 15216
USA
Convenor
Codes: B List by: 1 Date: Aug 5 92

Altoona Police Department (W) 814-949-2509
Wenzel, Carlton E.
P.O. Box 1805
Altoona, PA
Codes: B List by: 1 Date: Aug 5 92

Armstrong Co. Emer. Mgt. Agenc (H) 412-845-9201
Simon, Mr. G. Paul (W) 412-548-5105
Armsdale Admin. Building
R. D. #8
Kittanning, PA 16201
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Armstrong Co. Planning Comm.
Palilla, Mr. Richard
Dept. of Economic & Comm. Dept
402 East Market Street
Kittanning, PA 16201
USA
Codes: B List by: 1 Date: Aug 5 92

Armstrong EMR Operation Ctr
Bower, Robert T.
P O Box 731
Kittanning, PA 16201
Codes: AB List by: 1 Date: Aug 5 92

Beaver Co. Emerg. Mgt. Agency (H) 412-846-7688
Chiodo, Mr. Russell T. (W) 412-774-1049
250 East End Avenue
Beaver, PA 15009
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Beaver Co. Planning Commission
Zapsic, Mr. Robert
Court House
Beaver, PA 15009
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Beaver County Emr Center (W) 412-775-1700
Harley, Wayne W.
250 East End Ave.
Beaver, PA 15009
Codes: B List by: 1 Date: Aug 3 92

Beaver County Emr. (W) 412 775-1700
Hill, Wesley W.
250 East End Ave.
Beaver, PA 15009
Codes: B List by: 1 Date: Aug 5 92

Bedford Co. Emerg. Mgt. Agency (H) 814-623-5844
Perce, III, Mr. LeGrand W. (W) 814-623-1105
130 Vondersmith
Bedford, PA 15522
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Bedford Co. Planning Comm.
Carter, Mr. Larry
Court House Annex #3
203 South Juliana Street
Bedford, PA 15522
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Blair Co. Planning Commission
Haines, Mr. Richard
Court House
Highland Hall Annex
Hollidaysburg, PA 16648
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Blair Co.-Altoona Emer. Mgt. (H) 814-942-7836
Carroll, Mr. Lawrence V. (W) 814-695-5035
Emergency Operating Center
Court House
Hollidaysburg,, PA 16648
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Borough of State College (W) 814-234-7150
Orndorf, Jack S.
Bureau of Police Services
118 South Fraser Street
State College, PA 16801
Codes: AB List by: 1 Date: Aug 5 92

Bradford Co. Emer. Mgt. Agency (H) 717-673-3332
Mosser, Mr. John A. (W) 717-265-5022
Bradford County Court House
Towanda, PA 18848
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Butler Co. EMA (9-1-1) (W) 412-352-1511
Cooper, Reldon
703 Morton Ave.
Butler, PA 16001-3397
Codes: B List by: 1 Date: Aug 5 92

Butler Co. Emerg. Mgt. Agency (H) 412-282-7119
Magill, Mr. W. Brad (W) 412-287-7769
703 Morton Avenue
Butler, PA 16001
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Butler Co. Planning Commission
Ford, Mrs. Margaret
6th Floor Court House Annex
Lafayett Building
Butler, PA 16001-5978
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Cambria Co. Emerg. Mgt. Agency (H) 814-495-9357
Penatzer, Mr. Daniel (W) 814-472-5440
Court House (E) 270
Ebensburg, PA 15931
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Cambria Co. Planning Comm.
Beigay, Mr. Bradford G.
Court House Annex
Edensburg, PA 15931
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Cameron Co. Emerg. Mgt. Agency (H) 814-486-1294
Markert, Mr. Michael L. (W) 814-647-8661
60 South Maple Street
Emporium, PA 15834
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Cameron Co. Planning Comm.
Krellner, Mr. Theodore
Cameron Co. Court House
Emporium, PA 15834
USA
Chairman
Codes: B List by: 1 Date: Aug 5 92

Carbon Co. Planning Commission
Conrad, Mr. Bruce
Court House
Post Office Box 210
Jim Thorpe, PA 18229
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Center Co.Emerg. Mgt. Agency (H) 814-359-2575
Parko, Mr. Larry A. (W) 814-355-6745
Willowbank Building
Bellefonte, PA 16823
USA
Acting Coordinator
Codes: B List by: 1 Date: Aug 5 92

Centre Regional Planning Comm.
Elpern, Mr. Dennis I.
Municipal Building
118 S. Fraser Street
State College, PA 16801
Director
Codes: AB List by: 1 Date: Aug 5 92

Chief (W) 814-234-7161
Williams, Elwood G.
Bureau of Police
118 South Fraser St.
State College, PA 16801
Codes: B List by: 1 Date: Aug 5 92

City of Erie
Reddinger, Mr. Ed
921 West 30th
Erie, PA 16508
USA
Codes: B List by: 1 Date: Aug 5 92

City of Pittsburgh (W) 412 255-2916
Demichiei, Raymond
Dept. of Public Safety
2925 Railroad St.
Pittsburgh, PA 15201
Codes: AB List by: 1 Date: Aug 5 92

City of Pittsburgh (W) 412-255-2916
Martorano, Mark G.
Bureau of Administration
2925 Railroad St.
Pittsburg, PA 15201
USA
Asistant Chief
Codes: B List by: 1 Date: Aug 5 92

Clarion Co. Emerg. Mgt. Agency (H) 814-226-7020
McEwen, Mr. Joseph (W) 814-226-6631
Court House
Main Street
Clarion, PA 16214
USA
Coordinator
Codes: AB List by: 1 Date: Aug 5 92

Clarion County Plng. Comm.
Breniman, Mr. Benjamin J.
Court House
Clarion, PA 16214
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Clearfield Co. Emer. Mgt. Agen (H) 814-236-0384
Witherow, Mr. Brian (W) 814-765-5357
700 Leonard Street
Clearfield, PA 16830
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Clearfield County Comm. (W) 814-765-1407
Porter, Sharon B.
700 Leonard Street
Clearfield, PA 16830
Codes: AB List by: 1 Date: Aug 5 92

Clearfield Cty. Plng. Comm.
Tatanish, Mr. Alex L.
PO Box 860
Clearfield, PA 16830
Dir.
Codes: B List by: 1 Date: Aug 5 92

Clinton Co. Emerg. Mgt. Agency (H) 717-748-4753
Wooding, Ms. Brenda (W) 717-893-4090
Susque-View, Cree Drive
Lock Haven, PA 17745
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Clinton Cty. Plng. Comm.
McNallie, Ms. Anna B.
Court House Annex
151 Susquehanna Ave.
Lock Haven, PA 17745
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Co. Allegheny Dept. Emer. Mgt. (H) 412-621-8791
Kroner, Mr. Robert G. (W) 412-362-8550
Penn Liberty Plaza
1520 Penn Avenue
Pittsburgh, PA 15222
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Columbia Co. Emerg. Mgt. Agenc (H) 717-784-2648
Miller, Ms. Irene M. (W) 717-784-6300
Court House
West Main Street
Bloomsburg, PA 17815
USA
Coordinator, Acting
Codes: B List by: 1 Date: Aug 5 92

County of Somerset (W) 814-445-4135
Baumgarder, E. Alan
Somerset County Control
Somerset, PA 15501
Codes: AB List by: 1 Date: Aug 5 92

County of Somerset (W) 814-445-4135
Karashowsky, James A.
Somerset County Control
Somerset, PA 15501
Codes: AB List by: 1 Date: Aug 5 92

County of Somerset (W) 814-445-4135
Lohr, Richard B.
Somerset County Control
Somerset, PA 15501
Codes: AB List by: 1 Date: Aug 5 92

Crawford Co. Emer. Mgt. Agency (H) 814-333-6092
Watt, Mr. Stephen M. (W) 814-724-8110
Court House
Meadville, PA 16335
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Crawford Cty. Plng. Comm.
Edinger, Mr. Edward P.
Court House
Meadville, PA 16335
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Cumberland Co. Office of Emer. (H) 717-532-4078
Wise, Mr. Theodore (W) 717-249-5522
Court House
Carlisle, PA 17013
USA
Coordinator
Codes: AB List by: 1 Date: Aug 5 92

Cumberland Cty. Plng. Comm.
Kelly, Mr. Jeffrey S.
Court House
Carlisle, PA 17013
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Cumberland-Dauphin-Perry
Zeiters, Mr. James R.
Tri-County Reg. Plng. Comm.
112 Market St. - 7th Floor
Harrisburg, PA 17101-2015
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Dept. Emg. Mgt. Westmorland Co (W) 814 834-7007
Cavanaugh, Susan
12 Court House Square
Greensburg, PA 15601
USA
Codes: AB List by: 1 Date: Aug 5 92

Dept. Gen. Services (W) 717-787-4235
Mineo, Nicholas
Bureau of Telecommunications
2221 Foster St. - Room G-11
Harrisburg, PA 17125
USA
Div. Chief
Codes: AB List by: 1 Date: Aug 5 92

Elk Co. Civil Defense (H) 814-776-1394
Zettle, Mr. Edward (W) 814-776-1161
Court House
Ridgway, PA 15853
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Elk County Plng. Comm.
Abrams, Mr. Kevin B.
Court House
PO Box 448
Ridgway, PA 15853
USA
Codes: B List by: 1 Date: Aug 3 92

Erie County (W) 814-870-1950
Sleptzoff, Mr. Nicholas (E) 373
Health Dept.
606 West Second St.
Erie, PA 16501
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Erie Cty. Metro Plng. Comm.
Skellie, Mr. David
Erie County Court House
Erie, PA 16501
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Fayette Co. Office of Emer Mgt (H) 412-628-9712
Shipley, Mr. Roy (W) 412-437-2701
Court House
Uniontown, PA 15401
USA
Acting Coordinator
Codes: B List by: 1 Date: Aug 5 92

Fayette Cty. Plng. Comm.
Lavery, Mr. James
Court House
Uniontown, PA. 15401
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Forest Co. Civil Defense (H) 814-463-7493
Kennedy, Mr. Jack B. (W) 814-755-8863
R. D. #1
Tidioute, PA 16351
USA
Coordinator
Codes: AB List by: 1 Date: Aug 5 92

Forest Cty. Plng. Comm.
Kaputa, Ms. Cheryl
Court House
Tionesta, PA 16353
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Franklin Co. Emer. Mgt. Agency (H) 717-863-8739
Tarquino, Mr. Philip A. (W) 717-264-2813
Court House
Chambersburg, PA 17201
USA
Acting Coordinator
Codes: B List by: 1 Date: Aug 5 92

Franklin Cty. Plng. Comm.
Tarquino, Mr. Philip A.
Franklin County Court House
2 N. Main St.
Chambersburg, PA 17201
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Fulton Co. Emerg. Mgt. Agency (H) 717-485-3201
Carmack, Mr. Lester (W) 717-485-3201
Court House Annex No. 1
214 N. Second Street
McConnellsburg, PA 17233-1199
USA
Coordinator
Codes: AB List by: 1 Date: Aug 5 92

Fulton Cty. Plng. Comm.
Woy, Mr. Thomas
Fulton County Court House
Annex 1
McConnelsburg, PA 17233
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Game Commission
Beam, Jack
2001 Elmerton Ave.
Harrisburg, PA 17110
Codes: AB List by: 1 Date: Aug 5 92

General Electric (W) 412-941-1711
Pastor, Frank
General Electric Co.
PO Box 807
McMurray, PA 15317
USA
Dist. Sales Mgr.
Codes: B List by: 1 Date: Aug 5 92

Green Co. Emerg. Mgt. Agency (H) 412-852-2175
Marshall, Mr. Larry A. (W) 412-627-5387
76 East Lincoln Street
Waynesburg, PA 15370
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Greene Cty. Plng. Comm.
Cole, Mrs. Valerie
Room 202, Office Building
Waynesburg, PA 15370
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Huntingdon Co. Emer. Mgt.Agenc (H) 814-447-5527
Moore, Mr. Richard N. (W) 814-643-6613
Court House
Huntingdon, PA 16652
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Huntingdon Cty. Plng. Comm.
Stahl, Mr. Richard
County Court House
Huntingdon, PA 16652
USA
Director
Codes: B List by: 1 Date: Aug 5 92

Indiana Co. Emerg. Mgt. Agency (H) 412-397-4051
Beatty, Mr. Paul R. (W) 412-349-9300
825 Philadelphia Street
Indiana, PA 15701
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Indiana Cty. Plng. Comm.
Allen, Ms. Lorraine P.
Third Floor, Court House
825 Philadelphia St.
Indiana, PA. 15701
USA
Dir.
Codes: AB List by: 1 Date: Aug 5 92

Jefferson Co. Office Emer. Mgt (H) 814-653-2590
Stover, Mr. Richard (W) 814-849-5052
Jefferson Co. Service Center
R. D. #5
Brookville, PA 15825
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Jefferson Cty. Plng. Comm.
Jefferson
Jefferson Cty. Service Center
R.D. 5, Room 209
Brookville, PA 15825
USA
Codes: B List by: 1 Date: Aug 5 92

Juniata Co. Emerg. Mgt. Agency (H) 717-436-9626
Naylor, Mr. Fred (W) 717-436-2181
Court House
Mifflintown, PA 17059
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Juniata Cty. Plng. Comm.
Freyermuth, Mr. Sidney
Box 68
Court House Annex
Mifflintown, PA 17059
USA
Act. Dir.
Codes: B List by: 1 Date: Aug 5 92

Land Use Admin.
Black, Mr. William
Sullivan Cty Plng. Comm.
Court House
Laporte, PA 18626
USA
Codes: B List by: 1 Date: Aug 5 92

Lawrence City Plng. Comm.
Craig, Mr. Stephen J.
Court House
New Castle, PA 16101
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Lawrence Co. Civil Defense (H) 412-654-3239
Critchlow, Ms. Sharyn (W) 412-655-2541
Court House
New Castle, PA 16101
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Lycoming Co. Dept. Emer. Serv. (H) 717-435-0930
Rupert, Mr. John E. (W) 717-327-2447
48 West Third Street
Williamsport, PA 17701
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Lycoming Cty. Plng. Comm.
Walls, Mr. Jerry
Court House
48 W. 3rd St.
Williamsport, PA 17701
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

McKean Co. Emerg. Mgt. Agency (H) 814-362-2321
Ishman, Mr. Ernest (W) 814-887-5070
Court House
Smethport, PA 16749
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

McKean Cty Plng. Comm.
Hess, Terry
Court House
Smethport, PA 16749
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Mercer Co. Emerg. Mgt. Agency (H) 412-981-6255
Black, Jr., Mr. Carl M. (W) 412-662-2603
R. D. #2, Box 2055
Mercer, PA 16137
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Mercer Cty. Reg. Plng. Comm.
Spaulding, Leslie
94 E. Shenango St.
Sharpsville Plaza
Sharpsville, PA 16150
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Mifflin Co. Civil Defense (H) 717-667-6538
Snook, Mr. John R. (W) 717-248-9645
North Wayne & West Third Sts.
Lewistown, PA 17044
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Mifflin Cty. Plng. Comm.
Arnold, Mr. Scott
20 N. Wayne St.
Lewistown, PA 17044
USA
Dir.
Codes: AB List by: 1 Date: Aug 5 92

Monroe Cty. Plng. Comm.
Krumsky, Mr. Joe
Court House
Stroudsburg, PA 18390
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Montour Co. Emerg. Mgt. Agency (H) 717-275-1721
Peters III, Mr. Walter H. (W) 717-275-3047
115 Church Street
Danville, PA 17821
USA
Acting Coordinator
Codes: B List by: 1 Date: Aug 5 92

Montour Cty. Plng. Comm.
Hack, Ms. Betsy
29 Mill St.
Danville, PA. 17821
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Northumberland Co. Emerg. Mgt. (H) 717-374-0764
Roup, Mr. Todd Brennan (W) 717-988-4217
Court House Annex
Second and Chestnut Streets
Sunbury, PA 17801
USA
Acting Coordinator
Codes: B List by: 1 Date: Aug 5 92

Northumberland Cty.Plng.Comm.
Lloyd, Mr. Keith
Court House Annex
Second & Chestnut Sts.
Sunbury, PA 17801
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Office of Mgmt. & Budget (W) 717-783-3700
Heltebridle, Laine A.
Penna. Intergovernmental Counl
PO Box 11880
Harrisburg, PA 17108
USA
Special Assistant
Codes: AB List by: 1 Date: Aug 5 92

PA Emergency Mgt. Agency (H) 717-523-0214
Dougherty, Mr. Joseph L. (W) 717-374-2055
Box 88
Selinsgrove, PA 17870
USA
Central Area Director
Codes: B List by: 1 Date: Aug 5 92

PA Emergency Mgt. Agency (W) 412-357-2990
Manclark, Mr. James
Indiana University of PA
Indiana, PA 15705
USA
Western Area Director
Codes: B List by: 1 Date: Aug 5 92

Pa. APCO (W) 412-255-2919
Rowntree, John S.
Dept. of Public Safety
2925 Railroad St.
Pittsburgh, PA 15201
USA
Communications Coordinator
Codes: B List by: 1 Date: Aug 5 92

PEMA (W) 717-783-8150
Greenway, Mr. Brian R.
PO Box 3321
Harrisburg, PA 17105
USA
Warning & Comm. Officer
Codes: AB List by: 1 Date: Aug 5 92

Pennsylvania State Police (H) 717-566-0979
Hollar Jr., John (W) 717-787-0896
1425 Bradley Ave
Hummelstown, PA 17036
USA
Chairman, Region 36
Codes: AB List by: 1 Date: Aug 5 92

Perry Co. Emerg. Mgt. Agency (H) 717-582-4612
Smeigh, Mr. Larry (W) 717-582-2131
Court House (E) 256
New Bloomfield, PA 17068
USA
Coordinator
Codes: B List by: 1 Date: Aug 5 92

Potter Cty. Plng. Comm.
Hetrick, Mr. John P.
Court House
Box 349
Coudersport, PA 16915
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Snyder Cty. Plng. Comm.
Staschiak, Mr. Kevin
Box 215 - Court House
Middleburg, PA 17842
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Somerset Cty. Plng. Comm.
Burggraf, Mr. Frank J.
Box 4
165 E. Union St.
Somerset, PA 15501
USA
Dir.
Codes: AB List by: 1 Date: Aug 5 92

State College (W) 814 234-7150
Prestia Jr., Carmine W.
Bureau of Police
118 S. Fraser St.
State College, PA 16801
Codes: B List by: 1 Date: Aug 3 92

Tioga Cty. Plng. Comm.
Balleine, Mr. Charles
Court House Annex
Wellsboro, PA 16901
USA
Codes: B List by: 1 Date: Aug 5 92

Union Cty. Plng. Comm.
Hovey, Mr. Douglass W.
Union Cty. Court House
Second & St. Louis Sts.
Lewisburg, PA 17837
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Venango Cty. Plng. Comm.
Haag, Mr. Timothy
County Office Bldg.
1283 Liberty St. Box 1130
Franklin, PA 16323
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Warren County Director EMS (W) 814-726-2498
Shoemaker, Gregg B.
333 Hickory Street
Warren, PA 16365
Codes: BB List by: 1 Date: Aug 5 92

Warren County EMS (W) 814-726-2498
Hammerbeck, Tommy
Warren County Commissioners
333 Hickory St.
Warren, PA 16365
Codes: AB List by: 1 Date: Aug 5 92

Warren Cty, Plng. Comm.
Evans, Ms. Patricia
Court House
Warren, PA 16365
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Washington Cty. Plng. Comm.
Sember, Mr. William P.
Courthouse Square
100 W. Beau St.
Washington, PA 15301
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Westmoreland County (W) 412-834-2191
Hunger, Mr. Richard J.
Dept. of Emergency Mgt.
12 Court House Square
Greenburg, PA 15601
USA
Exec. Dir.
Codes: AB List by: 1 Date: Aug 5 92

Westmoreland County Emer.
Fisher, John R.
12 Courthouse Square
Greensburg, PA 15601
Codes: AB List by: 1 Date: Aug 5 92

Westmoreland Cty. Plng. Comm.
Larese, Mr. Larry
Court House Plaza
601 Court House Square
Greensburg, PA 15601
USA
Dir.
Codes: B List by: 1 Date: Aug 5 92

Date: Aug 5 92
File: REGION36 (sorted by Company Name)
C: Vendor/Consult. - A -

APCO (W) 904-322-2500
Shahnami, Alireza
2040 S. Ridge Ave.
South Daytona, FL 32119-2257
USA
Dir.
Codes: C List by: 1 Date: Aug 5 92

E.F. Johnson Co. (H) 717 545-5041
Provenzano, Mr. Joseph J.
2085 Fairway Lane
Harrisburg, PA 17112
Codes: C List by: 1 Date: Aug 3 92

Motorola
Kell, Darwin
Suiute 220
21 Yost Blvd.
Pittsburgh, PA 15221
Codes: C List by: 1 Date: Aug 3 92

Motorola (W) 412-824-0007
McGeary, J. Kevin
Motorola Comm. & Elec, Inc.
21 Yost Blvd. Suite 220
Pittsburg, PA 15221
USA
Product Specialist
Codes: C List by: 1 Date: Aug 3 92

Motorola (H) 717-774-1407
Miller, Gary
Suite 220
21 Yost Road
Pittsburgh, PA 15221
Codes: C List by: 1 Date: Aug 3 92

Motorola
Moughamer, William
Suite 220
21 Yost Blvd
Pittsburgh, PA 15221
Codes: C List by: 1 Date: Aug 3 92

Motorola (W) 412-824-0007
Sauers, Mr. Gary
Suite 220
21 Yost Blvd
Pittsburgh, PA 15221
Codes: C List by: 1 Date: Aug 3 92

- R -

RAM Communications (W) 313-569-2337
Robinson, Russell V.
18311 W. Ten Mile Road
Southfield, MI 48075
Codes: C List by: 1 Date: Aug 3 92

Steiger, Hurray & Assoc.,Inc. (W) 216-526-7187
Steiger, Mr. Robert
6816 Westview Drive
Cleveland, OH 44141-2924
USA
Private Consultant
Codes: C List by: 1 Date: Aug 3 92

REGION 36 PLAN APPENDIX I
(As defined in)
FCC Gen. Docket No. 87-112

COMMITTEE RULES

1. After being recognized by the Chair any person may address the meeting.

2. Quorum is at least 4 members, each representing a different agency plus the Chair or the Chair's Alternate.

3. One vote per eligible agency. Any number or members in an agency may participate, but the agency has only one vote.

4. All motions require a simple majority of eligible agencies present in order to carry the motion.

5. Regular meeting dates to be scheduled in advance about once a month.

6. Special meetings to be called by the Chair with seven day's notice.

7. Eligible members may submit agenda items to the Chair up to two weeks prior to the next scheduled meeting.

OFFICIAL COMMITTEE ANNOUNCEMENTS

FCC NOTICES & ORDERS

ANNOUNCEMENTS

BEFORE THE
FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C.

In the Matter of

Development and Implementation of a Public Safety National Plan and Amendment of Part 90 to Establish Service Rules and Technical Standards for Use of the 821-824/ 866-869 MHz Bands by the Public Safety Services.	)	General Docket No. 87-112

To: The Commission

SUPPORT FOR PETITION FOR PARTIAL RECONSIDERATION AND EXPEDITED ACTION

The Associated Public-Safety Communications Officers, Inc., has designated me as the Convenor of Region 36 (as defined in the Report and Order) for the Regional Planning Process which is developing from this proceeding. I hereby express my support for the "Petition for Partial Reconsideration and Expedited Action" filed with the Commission in this proceeding on or about February 11, 1988 by J. Y. Nasser, Chairman of the National Public Safety Planning Advisory Committee.

Respectfully submitted,

J. Peter Maehling 2-18-88

Convenor, Region 36

ENGINEERED COMMUNICATIONS, INC.
1610 Potomac Avenue
Pittsburgh, PA 15216
(412) 344-9000

JPM14:fccform

OFFICIAL MEETING NOTICE

Having been duly certified to the Federal Communications Commission (FCC) by the Associated Public-Safety Communications Officers, Inc. (APCO) as the Convenor of an initial meeting of representatives of parties eligible for radio licensing in the FCC's Public Safety and Special Emergency Radio Services to establish a Regional Planning Committee in the State of Pennsylvania (in Region 36, as described hereinafter), I hereby give Public Notice that such an initial meeting will be held on Thursday, August 25, 1988, at The City of Pittsburgh, Public Safety Training Academy, Washington Blvd. & Negley Run Rd., Pittsburgh, PA 15206, beginning at 1:00 p.m. This region is one of 55 established by the FCC throughout the United States.

Region 36: essentially consists of the western half of Pennsylvania (west of the west branch of the Susquehanna River).

The responsibility of the Regional Planning Committee will be to develop a Plan for use of frequencies in the 821 - 824 and 866 - 869 megahertz bands allocated by the FCC for use by such licensees. Parties interested in participating in the regional planning process should contact me.

This Public Notice is in accordance with the FCC's Report and Order in General Docket No. 87-112, adopted by the FCC on November 24, 1987 and released on December 18, 1987, plus subsequently granted petitions for partial reconsideration of Regional Boundaries adopted by the FCC on March 30, 1988 and released on April 11, 1988. The Report and Order was printed in the Federal Register.

The Report and Order was based in large part on the Final Report of the National Public Safety Planning Advisory Committee, which was submitted to the FCC on September 9, 1987.

Copies of both the Report and Order and the Final Report are available from the FCC's duplication contractor, International Transcription Services, Inc., Suite 140, 2100 M Street, N.W., Washington , DC 20037. Phone 202-857-3800.

J. Peter Maehling, Convenor
Region 36, NPSPAC
1610 Potomac Avenue
Pittsburgh, PA 15216

412-344-9000

Convenor

June 23, 1988

JPM/kk:ws3

ØØ973MM-IND
:ALL

CLARION COUNTY TO ALL COUNTIES AND AREAS
Ø6/24/88 1115

PLEASE RELAY TO ALL COUNTY AND STATE COMMUNICATIONS PERSONNEL

OFFICIAL MEETING NOTICE

Having been duly certified to the Federal Communications Commission (FCC??!? th Associated Public-Safety Communications Officers, Inc. (APCO) as the Convenor of an initial meeting of representatives of parties eligible for radio locensing in the FCC's Public Safety and Special Emergency Radio Service to establish a Regional Planning Committee in the State of Pennsylvania (in Region 36, as described hereinafter), I hereby give Public Notice that such an inital meeting will be held on THURSDAY, AUGUST 25, 1988, AT THE CITY OF PITTSBURGH, PUBLIC SAFETY TRAINING ACADEMY, WASHINGTON BLVD. & NEGLEY RUN RD., PITTSBURGH, PA 15206, BEGINNING AT 1:ØØ P.M. This region is one of 55 established by the FCC throughout the United States.

Region 36: essentially consists of the western half of Pennsylvania (west of the west branch of the Susquehanna River).

The responsibility of the Regional Planning Committee will be to develop a Plan for use of frequencies in the 821 - 824 and 866 - 869 megahertz bands allocated by the FCC for use by such licensees. Parties interested in participating in the regional planning process should contact me.

This Public Notice is in accordance with the FCC's Report and Order in General Docket No. 87-112, adopted by the FCC on November 24, 1987 and released on December 18, 1987, plus subsequently granted petitions for partial reconsideration of Regional Boundaries adopted by the FCC on March 3Ø, 1988 and released on April 11, 1988. The Report and Order was printed in the Federal Register.

The Report and Order was based in large part on the Final Report of the Nation Public Safety Planning Advisory Committee, which was submitted to the FCC on September 9, 1987.

Copies of both the Report and Order and the Final Report are available from the FCC's duplication contractor, International Transcription Services, Inc., Suite 14Ø, 21ØØ M Street, N.W., Washington, DC 2ØØ37. Phone 2Ø2-857-38ØØ.

J. Peter Maehling, Convenor
Regional 36, NPSPAC
1610 Potomac Avenue
Pittsburgh, PA 15216

412-344-9ØØØ.

END

NPSPAC
Region 36 Meeting - August 25, 1988

A. Call Meeting to Order at 1:00 p.m.

B. Introduction by National Executive Council Member, from PA Chapter of APCO, Sue Cavanaugh
   1. Convener - Pete Maehling
   2. Temporary Secretary -
   3. Appointment of Parliamentarian -
   4. Roberts Rules of Order will be used.
   5. Appointment of Credentials Committee - John Hollar

C. Purpose of Meeting
   1. History of 800 MHz
   2. NPSPAC
   3. FCC Report and Order (87-112)
   4. Region 36 boundaries

D. Brief Remarks About Ad Hoc Groups
   1. Broad participation
   2. Lobbying effort
   3. Working with NPSPAC/APCO
   4. Draft plans for regions
   5. Open architecture/standards

E. Report of Credentials Committee

F. Election of Officers
   1. Duties of chairman
      a) Preside over committee meetings
      b) Name is submitted by APCO to FCC
      c) Insures that the Regional Plan conforms to the National Plan as outlined in Report & Order in Dkt. 87-112
      d) Signs the Regional Plan
      e) Forwards the Regional Plan to the FCC
      f) Modifies the Regional Plan as directed by the FCC
      g) Recommends to the FCC changes to the Regional Plan
   2. Election of Chairman
   3. Propose election of Vice-Chairman and Secretary

G. Operating Procedures (Vote on Each)
   1. After being recognized by the Chair, any person may address the meeting.
   2. Quorum is at least 6 members, each representing a different agency from within Region 36's boundaries plus the Chair or the Chair's Alternate.
   3. One vote per eligible agency. Any number of members in an agency may participate, but the agency has only one vote.

4. All motions require a simple majority of eligible agencies present in order to carry the motion.
5. Regular meeting dates to be scheduled in advance about once a month or so.
6. Special meetings to be called by the Chair with seven days notice.
7. Eligible members may submit agenda items to the Chair up to two weeks prior to the next scheduled meeting.

H. Sub-Committee (Appointed by the Chair)
   1. Credentials - who represents a particular agency for voting purposes
   2. Rules - including officers duties and reponsibilities
   3. Arrangements - meeting facilities and notices
   4. FCC/APCO liaison - maintains contact with the FCC and APCO
   5. Regional interface - coordinates with neighboring regions
   6. State liaison - maintains contact with state agencies

I. Task Groups (Facilitators Appointed by the Chair)
   1. Scope and authority -
   2. Spectrum utilization -
      a) Region defined
      b) Usage guidelines
      c) Reassignment of frequencies
      d) Supplement to the application form
         1) Form FDR-3

   3. Communication requirements -
      a) Common channel implementation
      b) Areas of operation
      c) Operation on the common channels
      d) Sub-regions
      e) Operating procedures
      f) Primary network control center
      g) Network operating method
      h) Encryption standards
      i) Use of long range communications
      j) Use of cellular telephones

   4. Implementation and procedures -
      a) Notification
      b) Approval of Regional Plan
      c) Frequency allocation process
      d) Appeal process

   5. Epilogue -
      a) Future planning requirements

J. Review Each Plan Section by Appropriate Facilitator

K. Schedule Next Meeting

L. Adjourn

JPM/kk:ws1

NPSPAC MINUTES

Region 36 Meeting August 25, 1988 Pittsburgh, PA Fire Academy

1300 hours Sue Cavanaugh convened meeting of Region 36, introducing Pete Maehling (appointed convenor of Western PA.)

John Holler appointed as Parliamentarian also in charge of credentials committee. Mr. Maehling declined convenor/chairman position. John Holler nominated and elected Chairman of REgion 36, Sue Cavanaugh temporary secretary.

Mr. Maehling proceded

PURPOSE OF REGIONAL PLANNING AND EXPLANATION OF NPSPAC

NPSPAC
F.C.C. RULINGS
PETITIONS WITH CHANGES IN BOUNDARIES OF REGIONS//APPROVED CHANGES MAY 1988

HISTORY AND GEOGRAPHY OF REGIONS

REGIONS 20, 28, 30,33,40, 55
DISCUSSION ON DKT. 87-112
DISCUSSION ON APCO's RESOLUTION 12 ADOPTED IN AUGUST/1988 IN BEHALF OF EMERGENCY MEDICAL

3 Regional plans turned in so far: Region 40, Florida region, greater New York

TAlk of REgion 36 merging with West Virginia.

Vendors//directly involed with 800 MHz Systems
Motorola, G.E., Phillips, Johnson

ORPS

RULES AND REGULATIONS CHANGED

Eligible members may submit agena items to the chair up to 2 weeks prior to the next scheduled meeting.
REVISED
Eligible members may submit agena items to the chair up to 2 days prior to the next scheduled meeting.

AT THIS TIME JOHN HOLLER WILL BE HANDLING:
Chairman
Regional interface-coordinates with neighboring regions
State Liaison (Western Pa) maintains contact with state agencies

TASK GROUP DRAFT//COMMENTS

Kevin McGeary //Motorola representative discussed 800 MHz Systems//users City of Pittsburgh as one//also representative from Pittsburgh spoke

Counties proposal coverage

Maehling suggested Region 36 sit back and wait for more plans to be finalized//find a middle common ground//watch F.C.C. for rulings accepted/rejected.

Pursue other actvities, one being an information survey (needs of Communications. John Holler, Chairman with procede with this project.

Discussed A.P.C.O. decision in purchasing C.E.T. Data Base, and also in purchasing land and building to house data base for frequency coordination.
New
FDR 3 Forms//Effective June 1, 1988
Licensing
Status on how JV Federal Licensing can and will be handed.
(Hearing in Washington D.C.)

Turnpike Commission Plan //3 channels//problems

232 frequencies allocated
single site 10 channel trunking

TALK ON NEXT MEETING

ADJOURNED APPROXIMATELY 1500 Hours

RADIO SPECTRUM COMMITTEE
CREDENTIALS SUB-COMMITTEE

The following is offered for your consideration and comment to answer to our charge of "To determine representatives of particular agencies for voting purposes."

MEMBERSHIP

The following entities shall be given membership on the committee:

* All entities eligible to be licensed under Part 90 as modified by the Report and Order of Docket 87-112.

* Federal public safety and emergency preparedness agencies

DISCUSSION

As discussed in paragraphs 12 and 13 of the R & O, we must consider all eligibles for membership. This point is further emphasized in paragraph 46 and 47.

The inclusion of the federal agencies is done in light of the statement made in paragraph 74. "We strongly encourage federal public safety and emergency preparedness agencies to participate in the regional planning process."

If we fail to follow these guidelines or further restrict membership, it could cause our entire planning process to be questioned.

The term "entity" or "agency" must be accepted as spelled out in 90.617 and not restricted to the agency or office of the license signer. This means that just because the top elected official of a political subdivision signs all licensee applications that an individual agency or entity is not barred from membership.

VOTING

* Each eligible entity will be allowed one vote, on any matter brought to a vote, regardless of the number of persons present.

* Any one person will only be allowed to vote once on any matter before the committee.

* Each eligible entity must decide among its membership which person at the meeting will cast the vote.

* A person must be present in order to vote.

* Agency representative must be an employee of that agency.

DISCUSSION

* One agency, one vote

This policy is to avoid any one agency from stacking the meeting and causing a vote to favor their particular needs.

This policy does give just as much voice to the little agency as to the large one or to an agency that due to travel cost can send only one representative.

* One person, one vote

This policy is again looking at the stacking theory of one person going out and obtaining sanction from several eligibles to speak for them and thus swaying a vote.

* Present in order to vote

On many issues that come before the membership for a vote, there may be discussion before the vote is called and a person must have the benefit of that discussion to vote.

* Agency representative

Each and every agency has its own peculiar internal structure and thus the choice of who shall speak for that group is best left to the individual agency.

BEFORE THE
FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D. C. 20554

In the matter of:

Changes to the Regional Boundaries for the State of Pennsylvania as Identified Report and Order General Docket No. 87-112	)))))

TO: The Commission

1. In the Report and Order, General Docket No. 87-112, the Commission partitioned the State of Pennsylvania into two metropolitan regions. Due to geographic considerations, it is requested that certain counties be removed from Region number 36 as identified in the Docket into Region number 28 as identified in the Docket.

2. Specifically, the Counties of Berks, Bradford, Carbon, Columbia, Dauphin, Delaware, Lackawanna, Lancaster, Lebanon, Lehigh, Luzerne, Lycoming, Monroe, Montour, Northampton, Northumberland, Pike, Schuylkill, Sullivan, Susquehanna, Tioga, Wayne, Wyoming and York would be transferred into Region number 28.

3. The proposed alteration of the planning process is more in line with the geographic and demographic needs of the Commonwealth. We view this change as administrative in nature, as it does not affect the number or general composition of the regions. It does, however, better align the regions with the critical public safety needs of the Commonwealth of Pennsylvania. Such an administrative change would enhance the interoperability planning and spectral assignment efficiency.

4. As appointed convenors of the aforementioned regions, we request that the Commission effect such change to the regional boundaries as an administrative clarification.

Thomas E. Gibson
Convenor
Region 28

date 2/3/88

J. Peter Maehling
Convenor
Region 36

date 2/9/88

FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

DEC 29 1988

7330-06

Mr. Peter Maehling
Engineered Communications, Inc.
1610 Potomac Avenue
Pittsburg, Pennsylvania 15216

Dear Mr. Maehling:

The Federal Communications Commission, in conjunction with the State Department, is in the process of negotiating an agreement with Canada concerning use of the 821-824 and 866-869 MHz bands. Depending upon the outcome of those negotiations, your region may or may not have full use of the 240 public safety channels within 140 kilometers (87 miles) of the U.S./Canadian border. The purpose of this letter is to make you aware of this possibility as you engage in preliminary planning for your region.

As soon as an agreement has been reached between Canada and the United States, you will be notified. If you have any questions in the meantime, contact Marty Liebman at (202) 632-6497.

Sincerely,

Richard J. Shiben
Chief, Land Mobile
and Microwave Division

Copy to: Robert E. Tall, Executive Director
Associated Public Safety
Communications Officers, Inc.
930 Third Avenue
P.O. Box 669
New Smyrna Beach, Florida 32070

Region 36 - Western Pennsylvania
Public Safety Planning Committee Meeting
October 26, 1989
11:00 AM

Call to Order - The Region 36, Planning Committee meeting under FCC General Docket 87-112 was called to order at 11:05 AM at the Multi-Service Center, 650 Leonard Street, Clearfield, Pennsylvania. The Chairman thanked Sharon B. Porter, Director, Public-Safety, for the excellent facilities provided.

Reading of Minutes of the previous meeting were read and acknowledged.

Report of Eligibility:

The following applications for committee, membership observation or participation were received and approved by unanimous voice vote.

Clearfield County	Sharon B. Porter
Somerset County	Richard B. Lohr E. Alan Baumgarder James A. Karashowsky
Armstrong County	Robert T. Bower Wesley Klingonsmith Tom Krizmanich John Thomas Harold Graham J. Paul Galbratih
Altoona Police Department	Carlton E. Wehzel
Beaver County	Russell T. Chiode Wayne W. Harley Wesley W. Hill
Adams County	Richard L. Ketterman
Butler County	W. Brad Magill Reldon Cooper
Borough of State College	Jack S. Orndorf Carmine U. Prestia, Jr. Elwood G. Williams, Jr.
Westmoreland County	John R. Fisher Sue Cavanaugh - Secretary

Commonwealth of Penna.	John S. Hollar, Jr. - Chairman Pennsylvania State Police - Region 28 Liaison
	Jack G. Beam - Commonwealth Liaison Bureau of AT Management
	Nicholas A. Mineo Bureau of Automated Technology Management
	John F. Booker Bureau of Automated Technology Management
City of Pittsburgh	Raymond DeMichiel Lt. Robert Bryen
Mt. Lebanon Fire	J. Peter Maehling

The following vendor/suppliers have been approved for committee assignment, assistance and observation but will not be permitted to vote on committee policy issues:

General Electric	Frank J. Pastor - District Sales Manager
E.F. Johnson	Joseph J. Provenzano - Account Executive
Motorola C & E, Inc.	Kevin McGeary - System Specialist Gary Savers - Area Manager Gary Miller - District Sales Manager Darwin Kell - Account Executive Bill Moughamer - Account Executive

The following consulting firms have been approved for observation:

Steiger, Hurray & Assoc.	R. J. Steiger
RAM Comm. Consultants	Russell V. Robinson

It was directed that these representatives be placed on the mailing list and be advised of all meetings, actions and correspondence pertaining to the activities of the committee.

Old Business: After a brief review of the developments of Region 28, Mr. Hollar outlined the planning strategy for the Region 36 Plan Submission.

Region 28 Chairman, Thomas Gibson was formally thanked for forwarding the disk containing the text of the Plan as submitted which will be used as the basis for the Region 36 Plan.

Mr. Jack Beam, Commonwealth of Pennsylvania presented the completed work sheets required to permit APCO to develop the Frequency Matrx for the Region. After reviewing the definitions, it was agreed that in spite of the frequency negotiations with Canada, two formal request for a channel study would be made in order to reserve channeling for those counties whose borders are adjacent to other regions. Mr. Beam moved to submit the request, Ms. Porter seconded and the motion carried.

Mr. Beam reported on the Office of Administration test of a trunked 800 MHz system in Central Pennsylvania to be conducted by Midland Corporation. Additional details of test objections and results will be reported at a later date.

Mr. Frank J. Pastor, of General Electric, suggested a seminar for the Region on 800 MHz applications, in order to provide much needed orientation as to the importance of 800 MHz in future communications planning. A discussion followed which proposed perhaps holding such a seminar at Penn State University. A day long seminar could provide information on systems applications and operations. It was also pointed out that if the Commonwealth of Pennsylvania decided to construct an infrastructure, more interest would immediately be placed in the work of the committee. The Chairman asked the representative from the Governor's Office to follow up on the idea and make a proposal at the next meeting.

The matter of the next meeting was discussed. It was determined that the Region's geographic center was not as convenient to reach as perhaps the Pittsburgh area. The Chairman indicated that it would be the policy to meet at various locations so that as many county and municipal officials could attend.

The next meeting was proposed for December 6, 1989, at the Southwest Training Center near Pittsburgh.

Meeting was adjourned at 12:15 PM.

Respectfully Submitted,

Hollar, for Secretary
Sue Cavanaugh

Region 36 - Western Pennsylvania
Public Safety Planning Committee Meeting
ANNOUNCEMENT
Meeting Date December 6, 1989
1:30 PM

The December meeting of the Region 36 - Western Pennsylvania, Public Safety Planning Committee will be held at 13:30 on Wednesday December 6, 1989 at the Pennsylvania State Police Southwest Training Center, near Greensburg, Pennsylvania, Westmoreland County.

From the Pennsylvania Turnpike Exit 8, New Stanton Interchange, take Route 119 North to Route 30 East. (Turn left on Route 30 at the Hoss's Restaurant). Proceed about four miles East on Route 30, to Saint Joseph's Hall on the left. It will be necessary to double back at the top of the hill as the entrance to the PSP Training Center and the grounds of Saint Joseph Hall are on the West side of a six lane portion of route 30 with no left turn access.

The PSP South West Training Center Telephone number is 412-832-5250. If you have any questions please call John S. Hollar Jr. Chairman, at 717 787-0896.

area of coverage criteria and channel loading criteria as covered in this Plan will be applied.

As lower band frequencies are vacated, they will be reassigned to conform to the lists of Statewide channels as shown in Table V and Table VI in accordance with State of Florida communications plans. In each table, the base station transmit frequency is shown first, followed by the mobile transmit frequency.

Table V - Statewide Emergency/Mutual-Aid Frequencies

FREQUENCY	CTCSS	SVC	PRIMARY USE
39.10/39.10	none	PL	Emergency Mgmt.
39.18/39.18	none	PL	Emergency Mgmt.
45.86/45.86	none	PL	Law Enf. Emergency
154.265/154.265	none	PF	Fire Mutual Aid (red)
154.280/154.280	none	PF	Fire Mutual Aid (white)
154.295/154.295	none	PF	Fire Mutual Aid (blue)
154.950/154.950	none	PP	Law Enf. Emergency
155.340/155.340	none	PS	Medical Resource Coord.
155.370/155.370	none	PP	Law Enf. Intercity
460.275/465.275	none	PP	Law Enf. Emergency
463.175/463.175	167.9	PS	EMS Medical Resource & Scene Coordination
463.175/468.175	167.9	PS	EMS Medical Coordination
853.3875/808.3875	210.7	GP	Public Safety/Special Emergency Mutual Aid

5.6 Implementation Schedules

The majority of eligible public safety organizations are either of State and Local government, or else are subject to governmental regulation. The nature of governmental planning and budgeting processes, combined with difficult revenue constraints, prohibits most eligibles from implementing newer technology systems in the normal time required by FCC Rules (8 months for construction of conventional stations, 12 months for trunked stations)[26]. In most cases, public safety systems will require multi-year phased-implementation schedules requiring three to five times as long to construct as private or commercial systems. Regional, wide-area, and statewide systems will require even longer periods to construct.

Table VI - Statewide VHF Highband Law Enforcement Frequency Pairs

154.650/155.190	154.830/155.565	155.730/156.030
154.710/155.250	154.845/155.580	155.790/156.090
154.725/155.310	154.860/155.595	155.850/156.150
154.740/155.415	154.875/155.610	155.910/156.210
154.755/155.430	154.890/155.625	158.730/159.030
154.770/155.490	155.010/155.655	158.790/159.090
154.785/155.520	155.070/155.670	158.850/159.150
154.800/155.535	155.130/155.685	158.910/159.210
154.815/155.550	155.640/156.970	155.700/158.970

In view of these known situations, this Region Plan establishes an extended implementation schedule ("slow growth") in accordance with FCC Rules[27] which is available to all eligible applicants, *if requested by stating "SLOW GROWTH" on the license application.*

[26] See FCC Rules and Regulations, §§ 90.155 (a) and 90.631 (e).

[27] See FCC Rules and Regulations, §§ 90.629, 90.631, and 90.633.

A "slow growth" schedule will allow up to three years for completion of station construction. Regardless of station construction time however, the FCC five-year channel loading requirement (of mobiles, portables and RF control stations)[28] is maintained by this Region Plan.

Applicants who clearly request "*SLOW GROWTH*" on their license application are *not required* to submit the specific items of "slow growth" justification otherwise required by FCC Rules[29].

Applicants who propose a station construction schedule which is longer than the three-year "slow growth" schedule, or a channel loading schedule (for mobiles, portables, and RF control stations) beyond five years, are required to submit a Request For Waiver for such additional extensions of time in accordance with FCC Rules[30].

END OF SECTION 5

[28] See FCC Rules, §90.631 for loading requirements of trunked systems; see FCC Rules §90.633 for loading requirements of conventional systems.

[29] See FCC Rules, §90.629 (a).

[30] See FCC Rules, §90.151, "Requests for waiver".

PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
1919 M STREET N.W.
WASHINGTON, D.C. 20554

2914

News media information 202/632-5050. Recorded listing of releases and texts 202/632-0002.

April 27, 1990

PUBLIC SAFETY REGION 36
APPLICATIONS WINDOW ANNOUNCED

The Region 36 Regional Planning Committee, which is responsible for planning spectrum usage in the Western Pennsylvania area west of the Susquehanna River, in accordance with the Federal Communications Commission's Report and Order in General Docket 87-112, announces a two-month window for receiving applications for spectrum in the 821-824/866-869 MHz bands.

The window period will be from May 1, 1990, through June 30, 1990. No applications will be accepted before May 1, 1990, or after June 30, 1990. Interested parties should contact the APCO Frequency Coordinator to receive the necessary application forms and additional information.

The APCO Frequency Coordinator for Pennsylvania is:

Joseph E. Monahan
Montgomery County Communications Division
50 Eagleville Road
Eagleville, PA 19403

Additional information concerning Region 36 may be obtained from:

John S. Hollar
Chairman, Region 36 Planning Committee
Pennsylvania State Police Communications Division
1800 Elmerton Avenue
Harrisburg, PA 17110
(717) 787-0896

The Region 28 (including the Commonwealth of Pennsylvania east of the Susquehanna River) window will also be opened during this period to facilitate any applications for statewide facilities.

Questions regarding this public notice may be directed to Maureen Cesaitis, Private Radio Bureau, (202) 632-6497.

Before the
Federal Communications Commission
Washington, D.C. 20554

In the Matter of

Amendment of Subpart S of
Part 90 of the Rules to
Permit Licensing of Channels
in the 821-824/866-869 MHz
and 896-901/935-940 MHz Bands
in the U.S./Canada Border Area

ORDER

Adopted: September 28, 1990; Released: October 5, 1990

By the Acting Chief, Private Radio Bureau:

1. On July 24, 1986, the Commission allocated six megahertz of spectrum in the 821-824 MHz and 866-869 MHz bands for the exclusive use of the Public Safety and Special Emergency Radio Services and ten megahertz of spectrum in the 896-901 and 935-940 MHz bands for use in the Private Land Mobile Radio Services.[1] Service rules for the six megahertz of public safety spectrum were delineated in a subsequent Report and Order.[2] This Report and Order, however, did not provide for the use of this spectrum within 140 km (87 miles) of the Canadian border, pending completion of an agreement between the United States and Canada on the shared use of this spectrum. A Public Notice issued on November 4, 1986, established filing procedures for the ten megahertz of private land mobile spectrum.[3] In that Public Notice, we restricted the filing of applications for channels in the Business and Industrial/Land Transportation pools[4] to systems to be located at least 100 miles (160 km) from the Canadian border. Although we accepted applications for channels in the SMR pool in the Canadian border area, we stated that no license grants would be made for applications in border areas pending further discussion with Canada.

2. On September 17, 1990, two Arrangements between the Department of Communications of Canada (DOC) and the Federal Communications Commission of the United States of America concerning use of these bands along the U.S./Canadian border were signed. The Arrangements specify which channels will be available for licensing by each administration within the border area. This *Order* modifies Subpart S of Part 90, 47 C.F.R. Part 90, to conform the Rules to the Arrangements and to permit licensing of radio systems in the Canadian border area.

3. The 821-824/866-869 MHz Public Safety channels are immediately available for licensing in the Canadian border zone upon publication of this Order in the Federal Register. Such licensing shall be pursuant to and in conformance with Regional Public Safety Plans that have been approved by the Commission. The 896-901/935-940 MHz channels are also available in the Canadian border area for licensing in the Business and Industrial/Land Transportation pools immediately upon publication of this Order in the Federal Register. The processing procedures that will be used for the already filed and rank-ordered applications for SMR licenses in the Seattle, Detroit, Cleveland, Buffalo, and Rochester Designated Filing Areas will be delineated in letters to be sent directly to the selectees in those areas. No additional applications for 900 MHz SMR facilities will be accepted for filing with the Commission for any region within the United States pending adoption of a Public Notice specifically calling for such applications.

4. These rule changes will facilitate the construction of additional Private Land Mobile Radio stations in the Canadian border area. This should result in improved mobile communication service to the public without adversely affecting any party. As this *Order* does not impose new rules on licensees that would adversely affect their substantive rights, we find that notice and comment procedures are neither necessary nor appropriate.[5] To initiate a notice and comment procedure to make these additional channels available for licensing in the Canadian border area would significantly delay the use of these channels without any countervailing public interest benefit. Further, because the rule changes relieve a restriction, we also conclude that these changes should become effective immediately upon publication in the Federal Register.[6]

5. Accordingly, IT IS ORDERED, pursuant to Sections 4(i) and 303(r) of the Communications Act, as amended, 47 U.S.C. §§ 154(i) and 303(r), and Section 0.331(a)(1) of the Commission's Rules, 47 C.F.R. § 0.331(a)(1), that Part 90 of the Commission's Rules is amended as set forth in the attached Appendix.

6. IT IS FURTHER ORDERED that, because these amendments eliminate restrictions on the use of spectrum in the Canadian border area, this *Order* is effective immediately upon publication in the Federal Register.

FEDERAL COMMUNICATIONS COMMISSION

Beverly G. Baker
Acting Chief, Private Radio Bureau

APPENDIX

47 C.F.R. Part 90 is amended as follows:

1. The authority citation for Part 90 continues to read as follows: Authority: Sections 4, 303, 48 Stat., as amended, 1066, 1082; 47 U.S.C. 154, 303, unless otherwise noted.

2. 47 C.F.R. § 90.619 is amended by revising the introductory text of paragraph (b) and adding paragraphs (c) and (d) to read as follows:

§ 90.619 Frequencies available for use in the U.S./Mexico and U.S./Canada border areas.

* * * * *

(b) *U.S./Canada border area.* The following criteria shall govern the assignment of frequency pairs (channels) in the 806-821/851-866 and 896-901/935-940 MHz bands for stations located in the U.S./Canada border area. These channels are available for assignment for conventional or

trunked systems in accordance with all applicable sections of this subpart. They are available for intercategory sharing as indicated in § 90.621(g). Specific provisions for use of the 821-824/866-869 MHz bands in the U.S./Canada border area are contained in paragraph (c) of this section, and provisions for use of the 896-901/935-940 MHz bands in the U.S./Canada border are contained in paragraph (d) of this section.

* * * * *

(c) *Use of frequencies in the 821-824/866-869 MHz band (Channels 601-830) in the U.S./Canada border area.* The following criteria shall govern the assignment of frequency pairs (channels) in the 821-824/866-869 MHz band for stations located in the U.S./Canada border area. They are available for assignments for conventional or trunked systems in accordance with applicable sections of this subpart and the Report and Order in Gen. Docket No. 87-112. They are not available for intercategory sharing.

(1) Channels 601-830, as listed in § 90.613 Table of 806-824/851-869 MHz Channel Designations, are available to eligible applicants in the Public Safety Category for use in the U.S./Canada border area as shown in Table 25. Additionally, Channels 601, 639, 677, 715, and 753 are available in all regions only for mutual aid purposes as defined in Gen. Docket No. 87-112.

TABLE 25 - CHANNELS IN THE 821-824/866-869 MHZ FREQUENCY BANDS AVAILABLE IN THE U.S./CANADA BORDER AREA

Region	Location (longitude)		Channels
1	66°W - 71°W	(0-100 km from border)	715-830
2	71°W - 80°30'W	(0-100 km from border)	760-830
3	80°30'W - 85°W	(0-100 km from border)	636-830
4	85°W - 121°30'W	(0-100 km from border)	715-830
5	121°30'W - 127°W	(0-140 km from border)	715-830
6	127°W - 143°W	(0-100 km from border)	715-830
7	66°W - 121°30'W	(100-140 km from border)	601-830
8	127°W - 143°W	(100-140 km from border)	601-830

For assignments in the 821-824/866-869 MHz bands, the cities of Akron, Ohio (41°05' 00"N, 81°30' 40"W) and Youngstown, Ohio (41°05' 57"N, 80°39' 02"W) are considered outside of Region 3, and Syracuse, New York (43°03' 04"N, 76°09' 14"W) is considered outside of Region 2. These cities are defined as an area with the given center coordinates and encompassing a circle of 30 km radius.

(2) All frequency assignments made pursuant to paragraph (c)(1) of this section shall comply with the requirements of § 90.619(b)(2).

(3) In Region 5, Channels 601-714 may be authorized in the United States under the following conditions:

(i) An assignment may be made if the predicted power flux density (PFD) of a proposed station's signal does not exceed -107 dBW/m^2 at the border. The prediction of the PFD is calculated based upon a modified Longley-Rice point-to-point propagation model with time and location variabilities of 10 percent[1] and 3-second digitized terrain data[2].

(ii) Authorizations for Channels 601-714 in Region 5 are secondary to Canadian operations and conditioned to require that licensees take immediate action to eliminate any harmful interference resulting from the station's transmitted signal exceeding -107 dBW/m^2 at or beyond the U.S./Canada border.

(4) Channel assignments for stations to be located in the geographical area in Region 1 enclosed by the United States-Canada border, the meridian 71°W and the line beginning at the intersection of 44°25'N, 71°W, then running by great circle arc to the intersection of 45°N, 70°W, then North along meridian 70°W to the intersection of 45°45'N, then running West along 45°45'N to the intersection of the United States-Canada border, will be only for even numbered channels beginning with Channel 716 and ending with Channel 758.

(5) Channel assignments for stations to be located in the geographical area in Region 3 enclosed by the meridian of 81°W longitude, the arc of a circle of 100 km radius centered at 42°39' 30"N latitude and 81°W longitude at the northern shore of Lake Erie and drawn clockwise from the southerly intersection with 80°30'W longitude to intersect the United States-Canada border West of 81°W, and the United States-Canada border, will be only for even numbered channels beginning with Channel 636 and ending with Channel 758. Coordination with Canada will be required for these channels. U.S. stations must protect Canadian stations operating on channels 636 through 758 within an area of 30 km radius from the center city coordinates of London, Ontario (42° 59' N, 81° 14' W).

(6) *Additional channels available* - The channels listed in Table 26 are available for assignment in Regions 1-6 if the maximum power flux density (PFD) of the station's transmitted signal does not exceed the limits specified in Tables 27 and 28. The spreading loss shall be calculated using the free space formula taking into account any antenna discrimination in the direction of the border.

TABLE 26 - ADDITIONAL CHANNELS AVAILABLE (REGIONS 1-6)

Region	Channel No.'s	Effective Radiated Power
1	601-714	See Table 29
2	601-759	See Table 29
3	601-635	See Table 29
4	601-714	See Table 29
5	601-714	See Table 30
6	601-714	See Table 29

(i) Authorizations for stations using these channels will be secondary to Canadian operations and conditioned to require that licensees take immediate action to eliminate any harmful interference resulting from the station's transmitted signal exceeding the values specified in Tables 29 or 30 at or beyond the U.S./Canada border.

(d) *Use of frequencies in the 896-901/935-940 MHz band (Channels 1-399) in the U.S./Canada border area.* - The following criteria shall govern the assignment of frequency pairs (channels) in the 896-901/935-940 MHz band for stations located in the U.S./Canada border area. They are available for assignments for conventional or trunked systems in accordance with applicable sections of this subpart.

(1) Channels 1-399, as listed in § 90.613 Table of 896-901/935-940 MHz Channel Designations, are available to eligible applicants for use in the U.S./Canada border area as shown in Table 27. Additionally, Channels 71, 75, 79, 151, 155, and 159 are available in all regions only for implementation of an Advanced Train Control System as defined in 3 FCC Rcd 427 (1988) (Advanced Train Control Waiver).

TABLE 27 - CHANNELS IN THE 896-901/935-940 MHZ FREQUENCY BANDS AVAILABLE IN THE U.S./CANADA BORDER AREA

Region	Location (longitude)		Channels
1	66°W - 71°W	(0-100 km from border)	1-200, 398, 399
2	71° 80°30'W	(0-100 km from border)	1-120
3	80°30'W - 85°W	(0-100 km from border)	1-340
4	85°W - 121°30'W	(0-100 km from border)	1-200, 398, 399
5	121°30'W - 127°W	(0-140 km from border)	1-200, 398, 399
6	127°W - 143°W	(0-100 km from border)	1-200, 398, 399
7	66°W - 121°30'W	(100-140 km from border)	1-399
8	127°W - 143°W	(100-140 km from border)	1-399

For assignments in the 896-901/935-940 MHz bands, the cities of Akron, Ohio (41°05' 00"N, 81-0' 40"W) and Youngstown, Ohio (41°05' 57"N, 80°39' 02"W) are considered outside of Region 3, and Syracuse, New York (43°03' 04"N, 76°09' 14"W) is considered outside of Region 2. These cities are defined as an area with the given center coordinates and encompassing a circle of 30 km radius.

(2) All frequency assignments made pursuant to paragraph (d)(1) of this section shall comply with the requirements of § 90.619(b)(2).

(3) In Region 5, Channels 201-397 may be authorized in the United States under the following conditions:

(i) An assignment may be made if the predicted power flux density (PFD) of a proposed station's signal does not exceed -107 dBW/m^2 at the border. The prediction of the PFD is calculated based upon a modified Longley-Rice point-to-point propagation model with time and location variabilities of 10 percent[1] and 3-second digitized terrain data[2].

(ii) Authorizations for Channels 201-397 in Region 5 are secondary to Canadian operations and conditioned to require that licensees take immediate action to eliminate any harmful interference resulting from the station's transmitted signal exceeding -107 dBW/m^2 at or beyond the U.S./Canada border.

(4) Channel assignments for stations to be located in the geographical area in Region 1 enclosed by the United States-Canada border, the meridian 71°W and the line beginning at the intersection of 44°25'N, 71°W, then running by great circle arc to the intersection of 45°N, 70°W, then North along meridian 70°W to the intersection of 45°45'N, then running West along 45°45'N to the intersection of the United States-Canada border, will be only for channels 121 through 160, inclusive, and will be limited to assignments with 11 kHz or less necessary bandwidth. Coordination with Canada will be required for these channels.

(5) Channel assignments for stations to be located in the geographical area in Region 3 enclosed by the meridian of 81°W longitude, the arc of a circle of 100 km radius centered at 42°39' 30"N latitude and 81°W longitude at the northern shore of Lake Erie and drawn clockwise from the southerly intersection with 80°30'W longitude to intersect the United States-Canada border West of 81°W, and the United States-Canada border, will be only for channels 121 through 230, inclusive, and will be limited to assignments with 11 kHz or less necessary bandwidth. Coordination with Canada will be required for these channels. U.S. stations must protect Canadian stations operating on channels 121 through 230 within an area of 30 km radius from the center city coordinates of London, Ontario (42° 59' N, 81° 14' W).

(6) *Additional channels available* - The channels listed in Table 28 are available for assignment in Regions 1-6 if the maximum power flux density (PFD) of the station's transmitted signal does not exceed the limits specified in Tables 29 and 30. The spreading loss shall be calculated using the free space formula taking into account any antenna discrimination in the direction of the border.

TABLE 28 - ADDITIONAL CHANNELS AVAILABLE (REGIONS 1-6)

Region	Channel No.'s	Effective Radiated Power
1	201-397	See Table 29
2	121-399	See Table 29
3	341-399	See Table 29
4	201-397	See Table 29
5	201-397	See Table 30
6	201-397	See Table 29

(i) Authorizations for stations using these channels will be secondary to Canadian operations and conditioned to require that licensees take immediate action to eliminate any harmful interference resulting from the station's transmitted signal exceeding the values specified in Tables 29 or 30 at or beyond the U.S./Canada border.

TABLE 29 - MAXIMUM POWER FLUX DENSITY (PFD) AT THE U.S./CANADA BORDER CORRESPONDING TO EFFECTIVE ANTENNA HEIGHT (REGIONS 1,2,3,4, AND 6)

Effective Antenna Height (EAH)		PFD
Feet	Meters	$dBWm^2$
0-500	0-152	-84
501-1000	153-305	-90
1001-1500	306-457	-95
1501-2000	458-609	-98
2001-2500	610-762	-101
2500-3000	763-914	-101
3001-3500	915-1066	-103
3501-4000	1067-1219	-104
Above 4000	Above 1219	-104

TABLE 30 - MAXIMUM POWER FLUX DENSITY (PFD) AT THE U.S./CANADA BORDER CORRESPONDING TO ANTENNA HEIGHT ABOVE MEAN SEA LEVEL (REGION 5)

Antenna Height Above Mean Sea Level		PFD
Feet	Meters	dBW/m^2
0-1650	0-503	-87
1651-2000	504-609	-88.5
2001-2500	610-762	-91
2501-3000	763-914	-92.5
3001-3500	915-1066	-94
3501-4000	1067-1219	-95
4001-4500	1220-1371	-95.5
4501-5000	1372-1523	-96
Above 5000	Above 1523	-107

FOOTNOTES TO APPENDIX

[1] G.A. Hufford, A.G. Longley, and W.A. Kissick, *A guide to the use of the ITS irregular terrain model in the area prediction mode*, NTIA Report 82-100. (Available from U.S. Department of Commerce, National Technical and Information Service (NTIS), Springfield, VA 22161. Accession number PB-217977.)

A.G. Longley and P.L. Rice, *Prediction of tropospheric radio transmission loss over irregular terrain - a computer method 1968*, ESSA Technical Report ERL 79-ITS 67. (Available from NTIS, Accession number AD-676-874.)

P.L. Rice, A.G. Longley, K.A. Norton, and A.P. Barsis, *Transmission loss predictions for tropospheric communication circuits*, National Bureau of Standards Technical Note 101, Volumes I and II. (Available from NTIS, Accession numbers AD-687-820 and AD-687-821.)

[2] *Level 1 - Digital Terrain Elevation Data*, United States Defense Mapping Agency. (Available from National Cartographic Information Center, U.S. Geological Survey, 507 National Center, Reston, VA 22092 as *Digital Elevation Model Data* in 1^0x1^0 units. Two of these units are required to cover each 1^0x2^0 map (1:250,000-scale quadrangle) from which the data were produced.

FOOTNOTES

[1] Report and Order, Gen. Docket Nos. 84-1231, 84-1233, and 84-1234, 61 RR2d 165 (1986).

[2] In the Matter of Development and Implementation of a Public Safety National Plan and Amendment of Part 90 to Establish Service Rules and Technical Standards for Use of the 821-824/866-869 MHz Bands by the Public Safety Services, Report and Order, Gen. Docket No. 87-112, 3 FCC Rcd 905 (1988).

[3] Public Notice, Private Land Mobile Application Procedures for Spectrum in the 896-901 MHz and 935-940 MHz Bands, 1 FCC Rcd 543 (1986).

[4] Of the 400 channels included in the allocation to the Private Land Mobile Radio Services, 100 channels were allotted to the Business pool, 99 channels to the Industrial/Land Transportation pool, and 200 channels to the SMR pool.

[5] *See* 5 U.S.C. § 553(b)(3)(B).

[6] *See* 5 U.S.C. § 553(d)(1).

FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D. C. 20554

October 12, 1990

REFER TO:
7330-06

Mr. John Hollar, Jr.
Pennsylvania State Police
1800 Elmerton Avenue
Harrisburg, PA 17110

Dear Mr. Hollar:

On December 29, 1988, I sent you a letter stating that bilateral negotiations were in progress concerning use of the 821-824/866-869 MHz bands within 140 kilometers (87 miles) of the U.S./Canadian border.

I am happy to inform you that on September 17, 1990, an Arrangement was signed by the Department of Communications of Canada (DOC) and the Federal Communications Commission of the United States of America concerning use of those bands. On October 5, 1990, my Bureau released an Order implementing the Arrangement. I am enclosing a copy of that Order. As stated in paragraph 3, the 235 channels in the 821-824/866-869 MHz bands will be available for licensing as soon as the Order appears in the Federal Register.

Should you have any questions concerning your regional plan formulation or amendment, please contact Maureen Cesaitis of my staff. Her telephone number is 202-632-6497.

Sincerely,

Richard J. Shiben
Chief, Land Mobile
and Microwave Division

Enclosure

Copy to: Robert E. Tall
Executive Director, APCO
P.O. Box 669
New Smyrna Beach, FL 32070-0669

PENNSYLVANIA STATE POLICE
DEPARTMENT HEADQUARTERS
1800 ELMERTON AVENUE
HARRISBURG, PA. 17110

May 6, 1991

To: Region 36 Committee Members and Eligible Licensees for the 800 Mhz. NPSPAC Frequencies

On April 23, Communications Engineering Technology, Incorporated, forwarded our Region's long awaited "frequency packing run". Extensive data was prepared and forwarded to APCO in early November 1990, shortly after the Federal Communications Commission concluded bilateral negotiations covering the use of the 821-824/866-896 MHz bands within 140 kilometers (87 miles) of the U.S./Canadian border. As a result of the U.S./Canadian settlement, 235 of the 240 channels are now available for assignment. Now that the "packing run" has been completed, our committee is finalizing the Region 36 Plan for submission to the FCC on or about July 1, 1991.

On April 27, 1990 (see FCC Public Notice 2914), Region 36 opened an application window from May 1, 1990 through June 30, 1990. Seven applications for 284 channel assignments were received. Should every applicant construct the facilities requested during this window, Region 36 will have less than 5% of our original frequencies left for assignment. This is an impressive showing and certainly an encouraging development in the use of 800 MHz. in the Commonwealth.

The enclosed printout lists channel assignments, by County, within Region 36. Channels have been coded as to their likelihood of being coordinated for the requesting agency. Should your agency be listed, you are to be commended for your foresight. Should your agency have any frequencies not coded for assignment it is suggested that you consider preparation of your presentation to obtain them as soon as our Regional Plan is approved by the FCC. If you find NO channels available for assignment and you now desire to participate at 800 MHz., it is suggested that you contact Mr. Richard M. Walsh, Special Assistant for Computer Information Systems, Commonwealth of Pennsylvania, Governor's Office, Harrisburg, Pennsylvania 17120. The Commonwealth of Pennsylvania has indicated that their "system, when implemented, would be offered to local municipalities to support their requirements".

Accordingly, except for restrictions due to lack of frequency availabilities in Crawford, Erie, McKean and Warren Counties, all channels requested will more than likely be able to be licensed.

The draft plan for Region 36 closely follows the Region 28 Plan (already approved by the FCC). Should you require a copy of this draft, please call me at (717) 787-0896. Since the 150 page draft is costly to reproduce and mail, I am attempting to keep expenses to a minimum.

On other Region matters, your Chairman was recently appointed Secretary of the Region 28 Plan Update Committee. I have been serving as liaison for the two Regions from inception so hopefully the additional work should be complimentary to our own Region's objectives.

Of particular interest to Region 28 at the moment, is the controversy arising over dismissal of the Commonwealth of Pennsylvania's, window #2 filing. The Commonwealth has challenged the RPUC decision that its application was incomplete before the Federal Communications Commission and has requested reinstatement for its original filing.

The issue arose, according to Region 28, because the Commonwealth failed to provide fiscal data along with some other procedural concerns when it filed its application. The Region 28 Plan provides the format for filing as well as setting the criteria for comparative consideration between competing applicants. It is difficult to speculate what impact the outcome will have. Either way, it will mean more work for the Region 28 Update Committee.

Many of you are interested in how the proposed Commonwealth Law Enforcement Assistance Network 800 MHz Mobile Data System (now termed "CLEAN-M") is progressing. I am pleased to report that both Region 28 and 36 frequency allocations have supported the statewide channels necessary to provide such a service. More on this project will be provided at a forthcoming Region 36 meeting.

In closing, I am including a summary of the new National Emergency Police Frequency Plan recently approved by the FCC. Should you wish to dispatch on this frequency please contact me for additional information.

Sincerely,

John S. Hollar, Jr.
Chairman
Region 36 Planning Committee

COORDINATION

With

ADJACENT REGIONS

(Note: Concurrence memos will replace requests when received)

Region 36 - Western Pennsylvania

Planning Committee - 1800 Elmerton Avenue - Harrisburg, Pennsylvania - 17110

John. S. Hollar Jr.
Chairman
Pennsylvania State Police
Communications Division

August 12, 1992

Mr. Allen L. Capwell
Wyoming County Sheriff
Chairman Region 55 Planning Committee
145 North Main Street
Warsaw, NY 14569

Dear Sheriff Capwell:

On behalf of the Region 36 Planning Committee I am enclosing a copy of our Western Pennsylvania Regional Plan which we are in the process of filing before the Federal Communications Commission. I would appreciate any comments that you may have.

Also included for your information is a 3 1/2" disk containing our plan information, text and sort packing information.

We would appreciate a letter of concurrence once you have had an opportunity to review the plan. Because time is of the essence, should we not hear from you by October 1st. 1992 we will assume that you have no significant objection which would delay FCC approval of our initial plan.

Thank you for your consideration and my best regards to the membership of your committee.

Sincerely yours,

John S. Hollar Jr.
Chairman

Enclosure

Region 36 - Western Pennsylvania

Planning Committee - 1800 Elmerton Avenue - Harrisburg, Pennsylvania - 17110

John. S. Hollar Jr.
Chairman
Pennsylvania State Police
Communications Division

August 12, 1992

Mr. Donald G. Flahan
Chairman, Region 33
Planning Committee
Ohio Turnpike Commission
682 Prospect St.
Beras, Ohio 44017

Dear Mr. Flahan:

On behalf of the Region 36 Planning Committee I am enclosing a copy of our Western Pennsylvania Regional Plan which we are in the process of filing before the Federal Communications Commission. I would appreciate any comments that you may have.

Also included for your information is a 3 1/2" disk containing our plan information, text and sort packing information.

We would appreciate a letter of concurrence once you have had an opportunity to review the plan. Because time is of the essence, should we not hear from you by October 1st. 1992 we will assume that you have no significant objection which would delay FCC approval of our initial plan.

Thank you for your consideration and my best regards to the membership of your committee.

Sincerely yours,

John S. Hollar Jr.
Chairman

Enclosure

Region 36 - Western Pennsylvania

Planning Committee - 1800 Elmerton Avenue - Harrisburg, Pennsylvania - 17110

John. S. Hollar Jr.
Chairman
Pennsylvania State Police
Communications Division

August 12, 1992

Mr. Jack Pase
Chairman, Region 44
Planning Committee
S.O. Emergency Medical Services
P.O. Box 901
Big Chimney, WV 25302

Dear Mr. Pase:

On behalf of the Region 36 Planning Committee I am enclosing a copy of our Western Pennsylvania Regional Plan which we are in the process of filing before the Federal Communications Commission. I would appreciate any comments that you may have.

Also included for your information is a 3 1/2" disk containing our plan information, text and sort packing information.

We would appreciate a letter of concurrence once you have had an opportunity to review the plan. Because time is of the essence, should we not hear from you by October 1st. 1992 we will assume that you have no significant objection which would delay FCC approval of our initial plan.

Thank you for your consideration and my best regards to the membership of your committee.

Sincerely yours,

John S. Hollar Jr.
Chairman

Enclosure

Region 36 - Western Pennsylvania
Planning Committee - 1800 Elmerton Avenue - Harrisburg, Pennsylvania - 17110

John. S. Hollar Jr.
Chairman
Pennsylvania State Police
Communications Division

August 12, 1992

Mr. Steven Souder
Chairman, Region 20
Planning Committee
Arlington County Emergency Center
2100 N. 15th. Street
Arlington, VA 22201

Dear Mr. Souder:

On behalf of the Region 36 Planning Committee I am enclosing a copy of our Western Pennsylvania Regional Plan which we are in the process of filing before the Federal Communications Commission. I would appreciate any comments that you may have.

Also included for your information is a 3 1/2" disk containing our plan information, text and sort packing information.

We would appreciate a letter of concurrence once you have had an opportunity to review the plan. Because time is of the essence, should we not hear from you by October 1st. 1992 we will assume that you have no significant objection which would delay FCC approval of our initial plan.

Thank you for your consideration and my best regards to the membership of your committee.

Sincerely yours,

John S. Hollar Jr.
Chairman

Enclosure

Region 36 - Western Pennsylvania
Planning Committee - 1800 Elmerton Avenue - Harrisburg, Pennsylvania - 17110

John. S. Hollar Jr.
Chairman
Pennsylvania State Police
Communications Division

August 12, 1992

Mr. Richard R. Reynolds
Chairman, Region 28
Planning Update Committee
Delaware Office of Telecommunications
Management
801 Silver Lane Blvd.
Dover, DE 19901

Dear Mr. Reynolds:

On behalf of the Region 36 Planning Committee I am enclosing a copy of our Western Pennsylvania Regional Plan (patterned after the Region 28 Plan) which we are in the process of filing before the Federal Communications Commission. I would appreciate any comments that you may have.

Also included for your information is a 3 1/2" disk containing our plan information, text and sort packing information.

We would appreciate a letter of concurrence once you have had an opportunity to review the plan. Because time is of the essence, should we not hear from you by October 1st. 1992 we will assume that you have no significant objection which would delay FCC approval of our initial plan.

Thank you for your consideration and my best regards to the membership of your committee.

Sincerely yours,

John S. Hollar Jr.
Chairman

Enclosure