# The New England

# 806MHz NPSPAC Regional Plan

# Region 19

July 2011

# REGION 19 806MHz PLAN

## NEW ENGLAND RADIO PLANNING COMMITTEE

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**-REGIONAL PLAN –**

**THE NEW ENGLAND RADIO PLANNING COMMITTEE**

**(FCC-REGION 19)**

**SCOPE**

## Introduction

When the Federal Communications Commission announced the 800 MHz allocation of reserve radio frequencies to Public Safety Radio Services and Special Emergency Radio Services (SER) in July 1986, they mandated that a National Plan outlining the use of public safety radio frequencies must be in place before any agency would receive channels from this new allocation. As part of this mandate, Regional Plans conforming to the National Plan were to be developed. A Regional Plan for radio spectrum usage by public safety agencies in the New England States including the portion of Connecticut not covered by the Regional 8 plan was written by members of the New England Radio Planning Committee. This group, representing a cross-section of public safety radio users in the New England area, has among its committee members, the APCO local frequency advisors for these states. See Appendix G for the original committee members and the current membership.

## Purpose

The Regional Plan was developed to insure that maximum public benefit be derived from all radio communication systems used by eligibles that come under FCC rules for Public Safety Radio Services and SERS. The Plan was established with the objective of insuring that unassigned frequencies would be distributed in an equitable fashion with the priority given to those public safety agencies that are primarily responsible for the protection of life and property and that assigned frequencies were being utilized in the most efficient manner.

**Regional Planning Committee**

The original membership of the Regional Planning Committee (the Committee) was initially drawn from representatives of the New England area and includes members from the Metropolitan District Commission, Boston Police, Boston EMS, Connecticut State Police, Worcester Fire Department, the State of Vermont, the State of New Hampshire, the State of Maine, the City of Hartford, the State of Connecticut Bureau of State-wide Emergency Telecommunications, the Connecticut Department of Transportation, and the Southeastern Massachusetts Emergency Medical Services Council.

Authority for the Regional Planning Committee to carry out its assigned tasks is derived from the Federal Communications Commission (FCC Report and Order, Docket 87-112). Each Committee member that is a representative of an eligible licensee under the Public Safety Radio Services and The Special Emergency Radio Services is entitled to one vote in all Committee matters. Except as may be provided elsewhere in this Plan, the majority of those present at a scheduled meeting will prevail. See Appendix I.

**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. It is expected that Regional Plans for other areas in the country may differ from the Plan for this area due to dissimilar situations. By officially sanctioning the plan the FCC agrees to its conformity to the National Plan. Nothing in the Plan is to interfere with the proper functions and duties of the organizations appointed by the FCC for frequency coordination in the Private Land Mobile Radio (PLMR) Service, but rather it provides procedures that are the consensus of the Public Safety Radio Service user agencies in the Region. If there is a perceived conflict then the judgment of the FCC will prevail.

**Federal Interoperability**

Interoperability between Federal, State and Local Governments during both daily and disaster operations will primarily take place on the five common channels identified in the National Plan. Additionally, through the use of a S-160 or equivalent agreements, a license may permit Federal use of a non-Federal communications 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, sec 2.103). It is permissible for a non-Federal government licensee to increase channel requirement to account for up to a 3% increase in mobile units, provided that written documentation from Federal agencies supports at least that number of increased units.

**Regional Plan Update Committee**

Upon approval of the Regional Plan, the Planning committee 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 at least one designated local frequency advisor from the New England Regional Planning Area, and one member each representing the states of Connecticut, Massachusetts, New Hampshire, Rhode Island, Vermont and Maine.

The following rules and procedures shall be established:

- elect a Chairman
- develop a mechanism to fill committee vacancies
- with FCC approval, modify committee membership
- determine when to invoke the formal frequency allocation process
- set response time to process received frequency applications

- publish meeting schedule
- determine committee voting standards
- develop applicant appeal process
- audit implementation of those systems subject to the Plan
- enact policy for frequency give-backs
- maintain coordination with neighboring regional committees
- participate in the annual meeting of all regional committees
- promulgate other rules and procedures as required

**Region 19 – Committee Officers**
At the September 2009 meeting of New England Region 800 MHz Planning Committee meeting, held at the Connecticut Fire Academy, Windsor Locks, CT. Mr. Jerry Zarwanski, acting chairman of the Region 19 800 MHz Committee, called the meeting to order.

Mr. Jerry Zarwanski was nominated from the floor for the position of Chairperson. His election for appointment to the position was unanimous. The following officers were then also elected/reappointed: Mr. Stephen Verbil was elected as Vice Chairman, and Mr. Jim Warakois was elected as Recording Secretary.

At the September 2010 annual election of Committee Officers Chairman Zarwanski and Vice Chairman Verbil were reappointed to the positions unanimously. Recording Secretary, Mr. Warakois requested to step down from the position and the committee members present elected Mr. James Kowalik to the position by unanimous vote.

The names and addresses of current officers follows:

Chairman: Mr. Jerry Zarwanski
CT Dept. of Emergency Services and Public Protection
Office of Statewide Emergency Telecommunications
1111 Country Club Road
Middletown, CT 06457-9294
Phone: (860) 685-8157
Fax: (860) 685-8363
E-mail: jerry.zarwanski@po.state.ct.us

Vice Chairman: Mr. Stephen Verbil
CT Dept. of Emergency Services and Public Protection
Office of Statewide Emergency Telecommunications
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Middletown, CT 06457-9294
Phone: (860) 685-8127
Fax: (860) 685-8363
E-mail: Stephen.verbil@po.state.ct.us

Recording Secretary: Mr. James Kowalik
New Hampshire Dept of Safety-Div. of State Police
33 Hazen Drive
Concord, NH 03305-0011
Phone: (603) 271-2421
E-mail: james.kowalik@dos.nh.gov

Treasurer: E. Douglas Hackett
(Current Elected APCO Atlantic Chapter Treasurer)
Hanover Police Department
46 Lyme Road
Hanover, NH 03755
Phone: (603) 643-2222

It should be noted that the FCC did not fund any expenses incurred by the RPUC.

## 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 (see Appendix C)**

A region is a geographic area that is designated a region for some noteworthy purpose. In the New England area for Public Safety Communications purposes, it is that area having population and multiple administrative jurisdictions. The communities within that area intermingle so acutely that the many abutting boundaries coalesce formulating one massive region. Therefore, for reasons of the Region Plan, contiguous parts of Connecticut, Massachusetts, Rhode Island, New Hampshire, Vermont and Maine formulate a unified region to be known as the New England Region.

The total population of the area as outlined below is estimated to be greater than 10,000,000 people constituting approximately 4.4% of the nation. Within this region is a plethora of jurisdictions ranging from state governments, to quasi-municipal organizations crossing state lines, townships, villages, water districts, fire districts, etc. with many involved in public safety. Their involvement extends from search and rescue during crisis to immediately responding to the replenishment and repair of roadways, lights, power, etc.

In the Massachusetts, Rhode Island, and the New Hampshire portions of the Region, there are primary and secondary zones (See Appendix E). A primary zone contains jurisdictions which are or will be severely impacted as a result of an excess demand for scarce spectrum. The requirement for system implementation in a primary zone will be more restrictive than in a secondary zone. Those jurisdictions in a secondary zone will be under the general requirements of the Regional Plan, but will not be required to adhere to the more stringent requirement of the primary zone jurisdictions.

The New England regions primary zone is defined as follows:

In Massachusetts the counties of:

Essex, Middlesex, Suffolk, Norfolk, Worcester, Plymouth, and Bristol.

In Rhode Island the counties of:

Providence, Kent and Bristol.

In New Hampshire the counties of:

Hillsborough, Cheshire and Rockingham

**Usage Guidelines**

All systems operating in the Region having five or more channels will be required to be trunked. Those systems having four or less channels may be conventional.

The FCC in its Report and Order state, "Exception 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, however, and 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 who do not meet FCC loading standards will be required to share the frequency on a non-exclusive basis.

Public safety communications at a state level as it impacts the Region will be reviewed by the Committee. Statewide public safety agencies will submit their communications plans for impact approval if they utilize communications systems within the Region and those portions of such systems must be compatible with the Regional Plan.

The next level of communication coverage will be a county/multiple municipality area. Those systems that are designed to provide area communication coverage must demonstrate their need to require such wide area coverage. Communication coverage beyond the bounds of a jurisdictional area of concern cannot be tolerated unless it is critical to the protection of life and property. If the 800 MHz trunked radio technology is utilized, the system design must include as many county/multiple municipality government public safety radio users as can be managed technically.

The county/multiple municipality agency or agencies, depending upon systems loading and the need for multiple systems within an area, must provide inter-communications between area-wide systems. In a multi-agency environment, a lead agency using 800 MHz spectrum must implement the Common Channels in this band as mandated by the National Plan. Such implementation must be reviewed and approved by the Committee.

Municipal terminology in each state may be different. In order to provide a title for the next level of communications the term “Township” is used to define the level below countywide. Township communications for public safely purposes must provide only the communications needed within its boundaries. However, if the total number of radios in service does not reach minimum loading criteria for a trunked system, that township must consider utilizing the next higher system level if 800 MHz trunked radio is available in the area. As those higher-level systems reach capacity, the smaller system communicators in the public safety service must then consider uniting their communications efforts to formulate one large system or forfeit use of the limited 800 MHz spectrum.

Where smaller conventional 800 MHz needs are requested, those frequencies to be utilized must not interfere with the region’s trunked systems. The 800 MHz trunked radio system is to be considered the higher technology at this time and in greater compliance with FCC guidelines. The amount of interference that can

be tolerated depends on the service affected. Personal life and property protection shall receive the highest priority and disruptive interference within and authorized area of coverage will be examined on a case-by-case basis.

A requesting applicant for radio communications in the 800 MHz public safety services in the Region will be required to provide loading criteria information for its proposed system. The provision of this regional plan must be used as a guide for establishing any new systems. Strict adherence for limiting area of coverage to the boundaries of the applicant's agency's jurisdiction must be observed. Overlap or extended coverage must be minimized even where systems utilizing 800 MHz trunked radio are proposing to intermix systems for cooperative and/or mutual aid purposes.

Antenna heights are to be limited t 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 necessary coverage with the proper amount of ERP. All necessary precautions will be taken to gain maximum reuse of the limited 800 MHz spectrum.

As part of this plan, distances between transmitters for co-channel reuse will not be held to seventy (70) mile separation. Separation of co-channel will be determined by the coverage needs of the applicant, natural barriers for separation, antenna patterning and limited ERP's where possible. System tests and/or propagation studies should also be provided to establish minimum distances for separation.

**Application Guideline**

The Committee has an application process and guideline in place. Each new or modified frequency requested by an applicant or existing licensee must adhere to this process. The latest application guideline can be found in Appendix K – Application Guideline

**Channel Application**

The Committee will accept applications during two Windows on an annual basis postmarked between April 1 – May 31 and October 1 – November 30. To be considered by the committee, the application must contain all information requested and be postmarked no earlier or later than these dates. The channel application can be found in Appendix L – Channel Application

**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 coordinators will be responsible for assignment of the channels to the various agencies awaiting 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 is to be considered in making recommendations to the coordinators. In such cases were specific channels are required by numerous applicants, the applicant evaluation matrix will be utilized. In all cases, are of criteria and channel loading criteria will be applied, except upon unique circumstances after receiving a waiver from the Regional Planning Committee. It is not consistent with the goals and objectives of this Region to permit the direct reassignment of radio frequencies between agencies. All frequencies are to be returned to their respective pools to be assigned to the most public beneficial use. Similarly, an agency should not be able to "farm down" frequencies to other services within their political structure 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 (APCO Form FRD2) 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 the other bands.
- Explain any budget commitment that has been made for the proposed system.
- 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 800 MHz
- Explain and certify that the applicant's agency will comply with the common channel implementation requirements.

## COMMUNICATIONS REQUIREMENTS

### Common Channel Implementation

The implementation of the common channels required under the National Plan will utilize a two tier network.

### Calling Channel -ICALL

The National Calling Channel will be implemented as a full mobile relay system. Each user of five or more channels assigned under this Regional Plan will be required to implement, individually or jointly, calling channel repeaters, which at a minimum shall cover their jurisdictional area. If a statewide ICALL/ITAC system exists within the jurisdictional area the requirement will be waived. Wide area coverage transmitters will be installed to maximize regional coverage. A watch will be maintained on this channel using control stations. All agencies in the Regional Planning area will be required to operate a control station for the purpose of monitoring and rendering assistance on the calling channel.

### Mutual Aid Channels - ITAC

The four National Mutual Aid channels will be geographically assigned throughout the region. Each user of 5 or more channels assigned under this regional plan will be required to implement, individually or jointly, two tactical channels covering a specific geographic area for each five channels assigned to their repeater site. This will give a fixed number of working channels in an area. Depending upon the needs in an

area, multiple channels could be implemented. The placement and coverage of these systems will be controlled to permit reuse several times within the region. Talk-around on all four mutual aid channels will provide on-scene communication in areas where there exists no localized mobile relay.

**Area of Operation**

The total area of operation shall encompass the Region, as defined elsewhere in the Plan.

**Operation on 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 agency for daily operations or for inter-agency communications not requiring interoperability. Participants on the interoperable channels will include Federal, State and Local Disaster management agencies. See Appendix L-(Channel application) for International Common Channels and Common Channel Usage Policy.

**Operating Procedures**

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 of which will have their own language. Any attempt to introduce a new code would only cause confusion and possible hamper communications.

**National Calling Channel (01)**

The National Calling Channel ICALL shall be used to contact other users in the Region that can render assistance at an incident. This channel will not be utilized as an ongoing working channel. Once contact has been made between agencies, continued communications will be conducted on an agreed upon tactical or mutual aid channel.

**National Mutual Aid Channels (39, 77, 115, 153)**

These four National Mutual Aid Channels (ITAC1-4) are reserved for use by those agencies involved in inter-agency communications. Incidents requiring multi-agency participation will utilize these frequencies as directed by the Lead agency assuming responsibility for an incident or area of concern.

**Encryption**

The use of encryption is encouraged for those agencies, as part of their operation, have the need to conduct covert operations that require some assurance of communications security. We strongly recommend that encryption transmissions over systems operating within the region be transmitted in a digital format with the use of an analog/digital conversion technique having a bandwidth which will fit within a 25 MHz channel. Agencies that interoperate with Federal Agencies in covert operations may be required to use secure communications that comply with the standards set by the National Security Agency.

Within this region, transmissions on the National Calling Channel (01) shall not use any means of encryption. Encryption will be allowed on the four National Mutual Aid Channels. Those agencies, which require secure speech communications interoperability with other agencies outside their normal channel operations, will be expected to provide or work out compatibility as is required for their mutual needs.

**Use of Long-Range Communications**

During incidents of major proportions where public safety requirements might include the need for long-range communications in and out of a disaster area, alternate radio communications plans are to be addressed by those state agencies or others responsible for such communications. These agencies should integrate the appropriate interface to the five national channels as required. Such long distance radio communications might include Amateur Radio Service communications, satellite communications facilities and other long range emergency communications systems used by Local and State Agencies. Interface may be automatic or manually controlled direct retransmission or by the simple repeating of a message. Any or all of such long-range communications capabilities should be incorporated as part of the communications plans of the appropriate agencies. These agencies could provide the means to communicate outside the area for themselves and the smaller agencies which might need assistance. Instances such as earthquakes, hurricanes, floods, widespread forest fires or nuclear reactor problems could require the need for such long-range communications.

**Cellular Telephones**

800 MHz Cellular telephone service is a rapidly developing and expanding service in this region. Along with other types of older mobile telephone service, these systems have facilities and call capacity more specifically designed for the longer transmission durations associated with telephone conversations, and for certain, generally limited, public safety applications may well serve specific needs. Such mobile telephone service provides a one-to-one communication link, not a fleet or broadcast type of communication to multiple units as is typical of the majority of public safety needs.

The use of 800 MHz two-way mobile radio system channels for automatic interface to the public switched telephone network (PSTN) will normally require a significantly longer channel use time, compared to normal two-way mobile radio transmissions, upon which the channel loading standards are based. This plan recommends the use of cellular telephone for automatic interconnect to the PSTN, particularly for those applications where one-to-one communication between a mobile and a telephone subscriber would be effective. Utilizing cellular systems already in place will not impact radio systems loading planned of systems under this Regional Plan.

**Expansion of Existing Systems**

Existing systems that are to be expanded to include the frequency bands of 821-824/866-869 MHz will have their mobile radios "grandfathered" provided that they are modified in conformance with the Memorandum Opinion and Order, FCC Docket 87-112. Existing base stations in the frequency bands 806-821/851-866 MHz may not be used in the frequency band 821-824/866-869 MHz. Region 19 allows for the integration and expansion of existing 700MHz and 800MHz systems into the 806MHz band utilizing a maximum bandwidth of 12.5KHz. Region 19 recommends the use of P25 equipment for spectrum efficiency.

**Notification**

All interested parties were invited to participate in the development of the Regional Plan. This notification was accomplished by the FCC issuing a Public Notice and by the "convenor" directly notifying organizations representing eligibles. In addition, the mobile communications print media were contacted by the "convenor" and made aware of the Committee's formulation. Also notified were state and local government agencies concerned with emergency management as well as federal agencies responsible for National Security and Emergency Preparedness. See Appendix H.

**Frequency Allocation Process**

In performing the allocation process the original Committee used the algorithm made available by APCO, Inc. (See Appendix F) for use as an aid to maximize spectrum utilization. The original Committee also considered the results of a then recent demographic study at the time to determine the future needs of applicants (see Appendix B and C). Any system that may show frequency impact to a neighboring planning region has and will be coordinated by the respective Committee Chairmen of the affected regions (See Appendix K)

The original Region 19 committee determined that the unidentified future spectrum need approximated one channel for every 25,000 of population per county, with a base minimum assignment of four channels per county and one additional channel per 25,000 population.

The computer program was run using the above criteria with a total of over 5000 requested channel assignments. The program could not generate a successful sort with this number of requested channels. A second sort was generated with a 60% reduction of the requested channels in the following counties:

In Massachusetts the counties of:

Essex, Middlesex, Suffolk, Norfolk, Worcester, Plymouth, Bristol and Hampden.

In Rhode Island the county of Providence

In New Hampshire the county of Hillsborough

In Connecticut the counties of:

Hartford and New London

This reduction of channels left a total of 412 new channel assignments, plus 20 channels for the Connecticut State Police that are the same as those assigned in the F.C.C. Region 8 plan. The frequency sort is included at the end of this section.

**Original 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/Frequency Coordinators and the FCC. An applicant who decides to appeal a rejection 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.

**Regional Plan Update**

It may be necessary to update the Regional Plan from time to time. Modification of the Regional Plan will be a function of the standing Regional Plan Revision Committee. Proposals for modification of the plan may be initiated by the Update Committee or may result from requests submitted by the local APCO frequency coordination advisor, other committees, or eligibles within the region. Requests for updates to the Regional Plan should be submitted, in writing, to the Chairman of the Regional Planning Committee, who will forward the request to the Regional Plan Update Committee.

**Evaluation Criteria of Applications**

The Plan incorporates a filing window concept which will provide for the evaluation of all applications for the available spectrum. The applications will be evaluated as a group. The flow chart, entitle "Evaluation Matrix" (see Appendix A) shows the sequence of events that will be followed in the allocation of the six megahertz of 800 MHz spectrum. This process follows the guidelines established under the National Plan. The following text details the steps which occur in the evaluation matrix.

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 April 1 – May 31 and October 1 – November 30 (Block # 3 through Block #4) with late applications rejected (Block #5). Applications are received and reviewed during the window period by the local frequency advisor of the respective state from which the application originated (Block #6)

The local coordinator will determine if the application is in compliance with state plans (Block #7). An application that is not in compliance with an existing state plan will be rejected at this point (Block #8) and returned to the applicant with an explanation of the reason(s) for rejection.

Having passed the tests of state plane compliance and the needs assessment, the Committee will apply the evaluation matrix (Block #9)

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. Prior to the allocation of points for the seven categories, a needs assessment review is conducted

(Block # 10). The applicant submits a statement of need for the requested frequencies. This statement of need serves as an overview of the proposed system.

The Committee will make a determination as to whether or not a shortage of 800 MHz spectrum will exist in the New England Region (Block 10A). If no shortage is anticipated, the point awarding process is eliminated and Blocks # 110 through #19 are bypassed. The matrix would then continue at Block # 20. An anticipated shortage of 800 MHz spectrum will require the allocation of points in Blocks # 11 through # 18 and prioritization of applications by the Committee in Block # 19.

The seven categories are as follows:

1. Service (Block # 11)-maximum score 350 points.

   Each of the eligible services has a predetermined point value (Appendix D). That point value is multiplies by ten (10) to determine the score for the Service Category. An applicant with multiple services will be scored on the basis of the percentage that each service represents of his total system. That is, a system that is 50% police and 50% local government (school administration) would be awarded the total of 50% of the point value for police plus 50% of the point value for school administration.

   2. Intersystem Communications (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 does rate the applicant on his proposed ability to communicate with different levels of government and service during times of emergency.

3. Loading (Block #13)-maximum score 150 points.

   Those applicants that have demonstrated that they are part of cooperative, multi-organization, systems will be scored on a range of 0 to 100 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 and a cooperative system as well, and as a result receive the combined point values for these two subcategories for a maximum value of 150 points.

4. Spectrum Efficient Technology (Block #14)-maximum score 100

5. Systems Implementation Factors (Block # 15)-maximum score 100 points. This category scores the applicant on two factors, budgetary commitment and planning completeness. The degree of budgetary commitment is scored on a range of 0 to 50 points. An applicant that demonstrates a high degree of commitment in funding the proposed system will receive a higher score. Each applicant will be scored on the degree of planning completeness with a range of scoring from 0 to 50 points. Applicants will be required to submit a timetable for the implementation of the communications system or systems.

6. Geographic Efficient (Block #16)-maximum point value of 100 points. Each applicant will be scored on the level of geographic efficiency, scoring will be based upon two subcategories; the ratio of mobiles to area covered and the channel reuse potential. The ratio of mobiles to area covered measures the level of efficient coverage the system

demonstrates. The higher the ratio (mobiles divided by square miles of coverage) the more efficient the use of the frequencies. The ratio of mobiles to area covered is scored on a scale of 0 to 50 points. Those systems which cover large geographic areas will have a greater potential for channel reuse and will therefore receive a high score in this subcategory. The level of channel reuse potential is scored on a scale of 0 to 50 points.

7. Givebacks (Block #17)-maximum score 100 points. The applicant is scored in two subcategories: 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 will be, with range of points of 0 to 75. The greater the level of availability of the give backs the higher the score will be in the subcategory for availability to others, with a range of points of 0 to 75.

Points are totaled for each applicant (Block #10) and the applications are prioritized by the Committee (Block #19). The frequency pool is allocated (Block #20), the Appendix to 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). The applications are simultaneously coordinated by a Frequency Coordination Agency. After this point the FCC would grant the license(s) to the applicant (Block # 23).

The licensee has three years to implement the system. Should systems implementation not begin (award of contract) within a two year period or if projected channel loading is not attained within three years, after granting of license the channels will be returned for re-allocation to others. System implementation is monitored by the Local Designated Frequency Advisor who determines if progress is made on the implementation of the system (Block #24). Monitoring of systems implementation by the Local Designated

Frequency Advisor will take place at a minimum of six month intervals. If progress is made 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 Local Designated Frequency Advisor continues to monitor progress on the implementation of the system (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. 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.

For the committee membership an evaluation matrix scoresheet has been developed for determining the order of frequency allocation(s) to applicants in competitive areas in a Window. Each committee member will score each application and submit their scoresheet(s) to the Chairman by the filing deadline date. Any committee member representing an organization that has filed an application will abstain from scoring their organizations application. The scoresheets will be tallied by taking an average score in each of seven categories and summed. The committee membership evaluation matrix scoresheet and accompanying notes are found in Appendix M .

## Original Frequency Allocation by County

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CHANNEL NUMBER | 601 | MOBILE FREQUENCY | 821.0125 | MHz | BASE FREQUENCY | 866.0125 | MHz | Mutual Aid |
| CHANNEL NUMBER | 602 | MOBILE FREQUENCY | 821.0375 | MHz | BASE FREQUENCY | 866.0375 | MHz | NANTUCKET MA |
| CHANNEL NUMBER | 602 | MOBILE FREQUENCY | 821.0375 | MHz | BASE FREQUENCY | 866.0375 | MHz | SAGADAHOC ME |
| CHANNEL NUMBER | 602 | MOBILE FREQUENCY | 821.0375 | MHz | BASE FREQUENCY | 866.0375 | MHz | ESSEX MA |
| CHANNEL NUMBER | 603 | MOBILE FREQUENCY | 821.0500 | MHz | BASE FREQUENCY | 866.0500 | MHz | BELKNAP NH |
| CHANNEL NUMBER | 603 | MOBILE FREQUENCY | 821.0500 | MHz | BASE FREQUENCY | 866.0500 | MHz | PROVIDENCE RI |
| CHANNEL NUMBER | 604 | MOBILE FREQUENCY | 821.0625 | MHz | BASE FREQUENCY | 866.0625 | MHz | ORANGE VT |
| CHANNEL NUMBER | 604 | MOBILE FREQUENCY | 821.0625 | MHz | BASE FREQUENCY | 866.0625 | MHz | DUKES MA |
| CHANNEL NUMBER | 604 | MOBILE FREQUENCY | 821.0625 | MHz | BASE FREQUENCY | 866.0625 | MHz | KENNEBEC ME |
| CHANNEL NUMBER | 604 | MOBILE FREQUENCY | 821.0625 | MHz | BASE FREQUENCY | 866.0625 | MHz | BERKSHIRE MA |
| CHANNEL NUMBER | 605 | MOBILE FREQUENCY | 821.0750 | MHz | BASE FREQUENCY | 866.0750 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 606 | MOBILE FREQUENCY | 821.0875 | MHz | BASE FREQUENCY | 866.0875 | MHz | RUTLAND VT |
| CHANNEL NUMBER | 606 | MOBILE FREQUENCY | 821.0875 | MHz | BASE FREQUENCY | 866.0875 | MHz | KENEBEC ME |
| CHANNEL NUMBER | 606 | MOBILE FREQUENCY | 821.0875 | MHz | BASE FREQUENCY | 866.0875 | MHz | STRAFFORD NH |
| CHANNEL NUMBER | 606 | MOBILE FREQUENCY | 821.0875 | MHz | BASE FREQUENCY | 866.0875 | MHz | BARNSTABLE MA |
| CHANNEL NUMBER | 606 | MOBILE FREQUENCY | 821.0875 | MHz | BASE FREQUENCY | 866.0875 | MHz | TOLLAND CT |
| CHANNEL NUMBER | 607 | MOBILE FREQUENCY | 821.1000 | MHz | BASE FREQUENCY | 866.1000 | MHz | CHESHIRE NH |
| CHANNEL NUMBER | 607 | MOBILE FREQUENCY | 821.1000 | MHz | BASE FREQUENCY | 866.1000 | MHz | PROVIDENCE RI |
| CHANNEL NUMBER | 608 | MOBILE FREQUENCY | 821.1125 | MHz | BASE FREQUENCY | 866.1125 | MHz | GRAFTON NH |
| CHANNEL NUMBER | 608 | MOBILE FREQUENCY | 821.1125 | MHz | BASE FREQUENCY | 866.1125 | MHz | HAMPSHIRE MA |
| CHANNEL NUMBER | 608 | MOBILE FREQUENCY | 821.1125 | MHz | BASE FREQUENCY | 866.1125 | MHz | KNOX ME |
| CHANNEL NUMBER | 608 | MOBILE FREQUENCY | 821.1125 | MHz | BASE FREQUENCY | 866.1125 | MHz | ESSEX MA |
| CHANNEL NUMBER | 609 | MOBILE FREQUENCY | 821.1250 | MHz | BASE FREQUENCY | 866.1250 | MHz | YORK ME |
| CHANNEL NUMBER | 609 | MOBILE FREQUENCY | 821.1250 | MHz | BASE FREQUENCY | 866.1250 | MHz | BRISTOL MA |
| CHANNEL NUMBER | 610 | MOBILE FREQUENCY | 821.1375 | MHz | BASE FREQUENCY | 866.1375 | MHz | HILLSBOROUGH NH |
| CHANNEL NUMBER | 610 | MOBILE FREQUENCY | 821.1375 | MHz | BASE FREQUENCY | 866.1375 | MHz | LINCOLN ME |
| CHANNEL NUMBER | 610 | MOBILE FREQUENCY | 821.1375 | MHz | BASE FREQUENCY | 866.1375 | MHz | CONN STATE POLICE TROOP C |
| CHANNEL NUMBER | 611 | MOBILE FREQUENCY | 821.1500 | MHz | BASE FREQUENCY | 866.1500 | MHz | BENNINGTON VT |
| CHANNEL NUMBER | 611 | MOBILE FREQUENCY | 821.1500 | MHz | BASE FREQUENCY | 866.1500 | MHz | YORK ME |
| CHANNEL NUMBER | 611 | MOBILE FREQUENCY | 821.1500 | MHz | BASE FREQUENCY | 866.1500 | MHz | NORFOLK MA |
| CHANNEL NUMBER | 612 | MOBILE FREQUENCY | 821.1625 | MHz | BASE FREQUENCY | 866.1625 | MHz | BARNSTABLE MA |
| CHANNEL NUMBER | 612 | MOBILE FREQUENCY | 821.1625 | MHz | BASE FREQUENCY | 866.1625 | MHz | WALDO ME |
| CHANNEL NUMBER | 612 | MOBILE FREQUENCY | 821.1625 | MHz | BASE FREQUENCY | 866.1625 | MHz | TOLLAND CT |
| CHANNEL NUMBER | 613 | MOBILE FREQUENCY | 821.1750 | MHz | BASE FREQUENCY | 866.1750 | MHz | HILLSBOROUGH NH |
| CHANNEL NUMBER | 613 | MOBILE FREQUENCY | 821.1750 | MHz | BASE FREQUENCY | 866.1750 | MHz | KENT RI |
| CHANNEL NUMBER | 613 | MOBILE FREQUENCY | 821.1750 | MHz | BASE FREQUENCY | 866.1750 | MHz | ANDROSCOGGIN ME |
| CHANNEL NUMBER | 614 | MOBILE FREQUENCY | 821.1875 | MHz | BASE FREQUENCY | 866.1875 | MHz | SULLFOLK MA |
| CHANNEL NUMBER | 614 | MOBILE FREQUENCY | 821.1875 | MHz | BASE FREQUENCY | 866.1875 | MHz | CARROLL NH |
| CHANNEL NUMBER | 614 | MOBILE FREQUENCY | 821.1875 | MHz | BASE FREQUENCY | 866.1875 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 615 | MOBILE FREQUENCY | 821.2000 | MHz | BASE FREQUENCY | 866.2000 | MHz | WINDHAM VT |
| CHANNEL NUMBER | 615 | MOBILE FREQUENCY | 821.2000 | MHz | BASE FREQUENCY | 866.2000 | MHz | PROVIDENCE RI |

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|---|---|---|---|---|---|---|---|---|
| CHANNEL NUMBER | 615 | MOBILE FREQUENCY | 821.2000 | MHz | BASE FREQUENCY | 866.2000 | MHz | ANDROSCOGGIN ME |
| CHANNEL NUMBER | 616 | MOBILE FREQUENCY | 821.2125 | MHz | BASE FREQUENCY | 866.2125 | MHz | ESSEX MA |
| CHANNEL NUMBER | 616 | MOBILE FREQUENCY | 821.2125 | MHz | BASE FREQUENCY | 866.2125 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 617 | MOBILE FREQUENCY | 821.2250 | MHz | BASE FREQUENCY | 866.2250 | MHz | SULLIVAN NH |
| CHANNEL NUMBER | 617 | MOBILE FREQUENCY | 821.2550 | MHz | BASE FREQUENCY | 866.2250 | MHz | KENT RI |
| CHANNEL NUMBER | 617 | MOBILE FREQUENCY | 821.2250 | MHz | BASE FREQUENCY | 866.2250 | MHz | CUMBERLAND ME |
| CHANNEL NUMBER | 618 | MOBILE FREQUENCY | 821.2375 | MHz | BASE FREQUENCY | 866.2375 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 619 | MOBILE FREQUENCY | 821.2500 | MHz | BASE FREQUENCY | 866.2500 | MHz | BRISTOL RI |
| CHANNEL NUMBER | 619 | MOBILE FREQUENCY | 821.2500 | MHz | BASE FREQUENCY | 866.2250 | MHz | MERRIMAC NH |
| CHANNEL NUMBER | 620 | MOBILE FREQUENCY | 821.2625 | MHz | BASE FREQUENCY | 866.2625 | MHz | CUMBERLAND ME |
| CHANNEL NUMBER | 620 | MOBILE FREQUENCY | 821.2625 | MHz | BASE FREQUENCY | 866.2625 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 621 | MOBILE FREQUENCY | 821.2750 | MHz | BASE FREQUENCY | 866.2750 | MHz | MERRIMAC NH |
| CHANNEL NUMBER | 621 | MOBILE FREQUENCY | 821.2750 | MHz | BASE FREQUENCY | 866.2750 | MHz | CONN STATE POLICE TROOP K |
| CHANNEL NUMBER | 622 | MOBILE FREQUENCY | 821.2875 | MHz | BASE FREQUENCY | 866.2875 | MHz | BRISTOL RI |
| CHANNEL NUMBER | 622 | MOBILE FREQUENCY | 821.2875 | MHz | BASE FREQUENCY | 866.2875 | MHz | NANTUCKET MA |
| CHANNEL NUMBER | 622 | MOBILE FREQUENCY | 821.2875 | MHz | BASE FREQUENCY | 866.2875 | MHz | SAGADOHOC ME |
| CHANNEL NUMBER | 622 | MOBILE FREQUENCY | 621.2875 | MHz | BASE FREQUENCY | 866.2875 | MHz | SAGADAHOC ME |
| CHANNEL NUMBER | 622 | MOBILE FREQUENCY | 821.2875 | MHz | BASE FREQUENCY | 866.2875 | MHz | ESSEX MA |
| CHANNEL NUMBER | 623 | MOBILE FREQUENCY | 821.3000 | MHz | BASE FREQUENCY | 866.3000 | MHz | BELKNAP NH |
| CHANNEL NUMBER | 623 | MOBILE FREQUENCY | 821.3000 | MHz | BASE FREQUENCY | 866.3000 | MHz | FRANKLIN MA |
| CHANNEL NUMBER | 623 | MOBILE FREQUENCY | 821.3000 | MHz | BASE FREQUENCY | 866.3000 | MHz | CONN STATE POLICE TROOP D & F |
| CHANNEL NUMBER | 624 | MOBILE FREQUENCY | 821.3125 | MHz | BASE FREQUENCY | 866.3125 | MHz | ORANGE VT |
| CHANNEL NUMBER | 624 | MOBILE FREQUENCY | 821.3125 | MHz | BASE FREQUENCY | 866.3125 | MHz | DUKES MA |
| CHANNEL NUMBER | 624 | MOBILE FREQUENCY | 821.3125 | MHz | BASE FREQUENCY | 866.3125 | MHz | SUFFOLK MA |
| CHANNEL NUMBER | 624 | MOBILE FREQUENCY | 821.3125 | MHz | BASE FREQUENCY | 866.3125 | MHz | KENNEBEC ME |
| CHANNEL NUMBER | 625 | MOBILE FREQUENCY | 821.3250 | MHz | BASE FREQUENCY | 866.3250 | MHz | PROVIDENCE RI |
| CHANNEL NUMBER | 626 | MOBILE FREQUENCY | 821.3375 | MHz | BASE FREQUENCY | 866.3375 | MHz | RUTLAND VT |
| CHANNEL NUMBER | 626 | MOBILE FREQUENCY | 821.3375 | MHz | BASE FREQUENCY | 866.3375 | MHz | KENNEBEC ME |
| CHANNEL NUMBER | 262 | MOBILE FREQUENCY | 821.3375 | MHz | BASE FREQUENCY | 866.3375 | MHz | STRAFFORD NH |
| CHANNEL NUMBER | 262 | MOBILE FREQUENCY | 821.3375 | MHz | BASE FREQUENCY | 866.3375 | MHz | BARNSTABLE MA |
| CHANNEL NUMBER | 626 | MOBILE FREQUENCY | 821.3375 | MHz | BASE FREQUENCY | 866.3375 | MHz | TOLLAND CT |
| CHANNEL NUMBER | 627 | MOBILE FREQUENCY | 821.3500 | MHz | BASE FREQUENCY | 866.3500 | MHz | BERKSHIRE MA |
| CHANNEL NUMBER | 627 | MOBILE FREQUENCY | 821.3500 | MHz | BASE FREQUENCY | 866.3500 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 628 | MOBILE FREQUENCY | 821.3625 | MHz | BASE FREQUENCY | 866.3625 | MHz | GRAFTON NH |
| CHANNEL NUMBER | 628 | MOBILE FREQUENCY | 821.3625 | MHz | BASE FREQUENCY | 866.3625 | MHz | KNOX ME |
| CHANNEL NUMBER | 628 | MOBILE FREQUENCY | 821.3625 | MHz | BASE FREQUENCY | 866.3625 | MHz | NEW LONDON CT |
| CHANNEL NUMBER | 629 | MOBILE FREQUENCY | 821.3750 | MHz | BASE FREQUENCY | 866.3750 | MHz | YORK ME |
| CHANNEL NUMBER | 629 | MOBILE FREQUENCY | 821.3750 | MHz | BASE FREQUENCY | 866.3750 | MHz | BRISTOL MA |
| CHANNEL NUMBER | 630 | MOBILE FREQUENCY | 821.3875 | MHz | BASE FREQUENCY | 866.3875 | MHz | HILLSBOROUGH NH |
| CHANNEL NUMBER | 630 | MOBILE FREQUENCY | 821.3875 | MHz | BASE FREQUENCY | 866.3875 | MHz | LINCOLN ME |
| CHANNEL NUMBER | 630 | MOBILE FREQUENCY | 821.3875 | MHz | BASE FREQUENCY | 866.3875 | MHz | NEW LONDON CT |
| CHANNEL NUMBER | 631 | MOBILE FREQUENCY | 821.4000 | MHz | BASE FREQUENCY | 866.4000 | MHz | BENINGTON VT |
| CHANNEL NUMBER | 631 | MOBILE FREQUENCY | 821.4000 | MHz | BASE FREQUENCY | 866.4000 | MHz | NORFOLK VA |
| CHANNEL NUMBER | 631 | MOBILE FREQUENCY | 821.4000 | MHz | BASE FREQUENCY | 866.4000 | MHz | OXFORD ME (SOUTHERN) |

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|---|---|---|---|---|---|---|---|---|
| CHANNEL NUMBER | 632 | MOBILE FREQUENCY | 821.4125 | MHz | BASE FREQUENCY | 866.4125 | MHz | ROCKINGHAM NH |
| CHANNEL NUMBER | 632 | MOBILE FREQUENCY | 821.4125 | MHz | BASE FREQUENCY | 866.4125 | MHz | WALDO ME |
| CHANNEL NUMBER | 632 | MOBILE FREQUENCY | 821.4125 | MHz | BASE FREQUENCY | 866.4125 | MHz | TOLLAND CT |
| CHANNEL NUMBER | 633 | MOBILE FREQUENCY | 821.4250 | MHz | BASE FREQUENCY | 866.4250 | MHz | KENT RI |
| CHANNEL NUMBER | 633 | MOBILE FREQUENCY | 821.4250 | MHz | BASE FREQUENCY | 866.4250 | MHz | SUFFOLK MA |
| CHANNEL NUMBER | 633 | MOBILE FREQUENCY | 821.4250 | MHz | BASE FREQUENCY | 866.4250 | MHz | WINDSOR VT |
| CHANNEL NUMBER | 633 | MOBILE FREQUENCY | 821.4250 | MHz | BASE FREQUENCY | 866.4250 | MHz | ANDROSCOGGIN ME |
| CHANNEL NUMBER | 634 | MOBILE FREQUENCY | 821.4375 | MHz | BASE FREQUENCY | 866.4375 | MHz | ROCKINGHAM NH |
| CHANNEL NUMBER | 634 | MOBILE FREQUENCY | 821.4375 | MHz | BASE FREQUENCY | 866.4375 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 635 | MOBILE FREQUENCY | 821.4500 | MHz | BASE FREQUENCY | 866.4500 | MHz | CUMBERLAND ME |
| CHANNEL NUMBER | 635 | MOBILE FREQUENCY | 821.4500 | MHz | BASE FREQUENCY | 866.4500 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 636 | MOBILE FREQUENCY | 821.4625 | MHz | BASE FREQUENCY | 866.4625 | MHz | ESSEX MA |
| CHANNEL NUMBER | 636 | MOBILE FREQUENCY | 821.4625 | MHz | BASE FREQUENCY | 866.4625 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 637 | MOBILE FREQUENCY | 821.4750 | MHz | BASE FREQUENCY | 866.4750 | MHz | WINDHAM VT |
| CHANNEL NUMBER | 637 | MOBILE FREQUENCY | 821.4750 | MHz | BASE FREQUENCY | 866.4750 | MHz | KENT RI |
| CHANNEL NUMBER | 637 | MOBILE FREQUENCY | 821.4750 | MHz | BASE FREQUENCY | 866.4750 | MHz | YORK ME |
| CHANNEL NUMBER | 638 | MOBILE FREQUENCY | 821.4875 | MHz | BASE FREQUENCY | 866.4875 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 638 | MOBILE FREQUENCY | 821.4875 | MHz | BASE FREQUENCY | 866.4875 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 639 | MOBILE FREQUENCY | 821.5125 | MHz | BASE FREQUENCY | 866.5125 | MHz | MUTUAL AID |
| CHANNEL NUMBER | 640 | MOBILE FREQUENCY | 821.5375 | MHz | BASE FREQUENCY | 866.5173 | MHz | CARROLL NH |
| CHANNEL NUMBER | 640 | MOBILE FREQUENCY | 821.5375 | MHz | BASE FREQUENCY | 866.5375 | MHz | MIDDLESES MA |
| CHANNEL NUMBER | 641 | MOBILE FREQUENCY | 821.5500 | MHz | BASE FREQUENCY | 866.5500 | MHz | SULLIVAN NH |
| CHANNEL NUMBER | 641 | MOBILE FREQUENCY | 821.5500 | MHz | BASE FREQUENCY | 866.5500 | MHz | WINDHAM CT |
| CHANNEL NUMBER | 642 | MOBILE FREQUENCY | 821.5625 | MHz | BASE FREQUENCY | 866.5625 | MHz | SAGADAHOC ME |
| CHANNEL NUMBER | 642 | MOBILE FREQUENCY | 821.5625 | MHz | BASE FREQUENCY | 866.5125 | MHz | HAMPSHIRE MA |
| CHANNEL NUMBER | 642 | MOBILE FREQUENCY | 821.5625 | MHz | BASE FREQUENCY | 866.5625 | MHz | BRISTOL MA |
| CHANNEL NUMBER | 634 | MOBILE FREQUENCY | 821.5750 | MHz | BASE FREQUENCY | 866.5750 | MHz | ESSEX MA |
| CHANNEL NUMBER | 644 | MOBILE FREQUENCY | 821.5875 | MHz | BASE FREQUENCY | 866.5875 | MHz | PROVIDENCE RI |
| CHANNEL NUMBER | 644 | MOBILE FREQUENCY | 821.5875 | MHz | BASE FREQUENCY | 866.5875 | MHz | CUMBERLAND ME |
| CHANNEL NUMBER | 645 | MOBILE FREQUENCY | 821.6000 | MHz | BASE FREQUENCY | 866.6000 | MHz | ROCKINGHAM NH |
| CHANNEL NUMBER | 646 | MOBILE FREQUENCY | 821.6125 | MHz | BASE FREQUENCY | 866.6125 | MHz | RUTLAND VT |
| CHANNEL NUMBER | 646 | MOBILE FREQUENCY | 821.6125 | MHz | BASE FREQUENCY | 866.6125 | MHz | BARNSTABLE MA |
| CHANNEL NUMBER | 646 | MOBILE FREQUENCY | 821.6125 | MHz | BASE FREQUENCY | 866.6125 | MHz | CUMBERLAND ME |
| CHANNEL NUMBER | 646 | MOBILE FREQUENCY | 821.6125 | MHz | BASE FREQUENCY | 866.6125 | MHz | CONN STATE POLICE TROOP C |
| CHANNEL NUMBER | 647 | MOBILE FREQUENCY | 821.6250 | MHz | BASE FREQUENCY | 866.6250 | MHz | BELKNAP NH |
| CHANNEL NUMBER | 647 | MOBILE FREQUENCY | 821.6250 | MHz | BASE FREQUENCY | 866.6250 | MHz | NORFOLK MA |
| CHANNEL NUMBER | 648 | MOBILE FREQUENCY | 821.6375 | MHz | BASE FREQUENCY | 866.6375 | MHz | CHESHIRE NH |
| CHANNEL NUMBER | 648 | MOBILE FREQUENCY | 821.6375 | MHz | BASE FREQUENCY | 866.6375 | MHz | KNOX ME |
| CHANNEL NUMBER | 648 | MOBILE FREQUENCY | 821.6375 | MHz | BASE FREQUENCY | 866.6375 | MHz | CONN STATE POLICE TROOP K |
| CHANNEL NUMBER | 649 | MOBILE FREQUENCY | 821.6500 | MHz | BASE FREQUENCY | 866.6500 | MHz | SUFFOLK MA |
| CHANNEL NUMBER | 649 | MOBILE FREQUENCY | 821.6500 | MHz | BASE FREQUENCY | 866.6500 | MHz | HAMPDEN MA |
| CHANNEL NUMBER | 650 | MOBILE FREQUENCY | 821.6625 | MHz | BASE FREQUENCY | 866.6625 | MHz | MERRIMAC NH |
| CHANNEL NUMBER | 650 | MOBILE FREQUENCY | 821.6625 | MHz | BASE FREQUENCY | 866.6625 | MHz | PROVIDENCE RI |
| CHANNEL NUMBER | 651 | MOBILE FREQUENCY | 821.6750 | MHz | BASE FREQUENCY | 866.6750 | MHz | ESSEX MA |

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|---|---|---|---|---|---|---|---|---|
| CHANNEL NUMBER | 651 | MOBILE FREQUENCY | 821.6750 | MHz | BASE FREQUENCY | 866.6750 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 651 | MOBILE FREQUENCY | 821.6750 | MHz | BASE FREQUENCY | 866.6750 | MHz | OXFORD ME (SOUTHERN) |
| CHANNEL NUMBER | 652 | MOBILE FREQUENCY | 821.6875 | MHz | BASE FREQUENCY | 866.6875 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 653 | MOBILE FREQUENCY | 821.7000 | MHz | BASE FREQUENCY | 866.7000 | MHz | ROCKINGHAM NH |
| CHANNEL NUMBER | 653 | MOBILE FREQUENCY | 821.7000 | MHz | BASE FREQUENCY | 866.7000 | MHz | BRISTOL RI |
| CHANNEL NUMBER | 653 | MOBILE FREQUENCY | 821.7000 | MHz | BASE FREQUENCY | 866.7000 | MHz | ANDROSCOGGIN ME |
| CHANNEL NUMBER | 653 | MOBILE FREQUENCY | 821.7000 | MHz | BASE FREQUENCY | 866.7000 | MHz | CONN STATE POLICE TROOP H & E |
| CHANNEL NUMBER | 654 | MOBILE FREQUENCY | 821.7125 | MHz | BASE FREQUENCY | 866.7125 | MHz | GRAFTON NH |
| CHANNEL NUMBER | 654 | MOBILE FREQUENCY | 821.7125 | MHz | BASE FREQUENCY | 866.7125 | MHz | FRANKLIN MA |
| CHANNEL NUMBER | 655 | MOBILE FREQUENCY | 821.7250 | MHz | BASE FREQUENCY | 866.7250 | MHz | NORFOLK MA |
| CHANNEL NUMBER | 656 | MOBILE FREQUENCY | 821.7375 | MHz | BASE FREQUENCY | 866.7375 | MHz | ROCKINGHAM NH |
| CHANNEL NUMBER | 656 | MOBILE FREQUENCY | 821.7375 | MHz | BASE FREQUENCY | 866.7375 | MHz | NEWPORT RI |
| CHANNEL NUMBER | 657 | MOBILE FREQUENCY | 821.7500 | MHz | BASE FREQUENCY | 866.7500 | MHz | WINDHAM VT |
| CHANNEL NUMBER | 657 | MOBILE FREQUENCY | 821.7500 | MHz | BASE FREQUENCY | 866.7500 | MHz | CONN STATE POLICE TROOP D & F |
| CHANNEL NUMBER | 658 | MOBILE FREQUENCY | 821.7625 | MHz | BASE FREQUENCY | 866.7625 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 659 | MOBILE FREQUENCY | 821.7750 | MHz | BASE FREQUENCY | 866.7750 | MHz | MERRIMAC NH |
| CHANNEL NUMBER | 659 | MOBILE FREQUENCY | 821.7750 | MHz | BASE FREQUENCY | 866.7750 | MHz | KENT RI |
| CHANNEL NUMBER | 660 | MOBILE FREQUENCY | 821.7875 | MHz | BASE FREQUENCY | 866.7875 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 661 | MOBILE FREQUENCY | 821.8000 | MHz | BASE FREQUENCY | 866.8000 | MHz | SULLIVAN NH |
| CHANNEL NUMBER | 661 | MOBILE FREQUENCY | 821.8000 | MHz | BASE FREQUENCY | 866.8000 | MHz | WASHINGTON RI |
| CHANNEL NUMBER | 662 | MOBILE FREQUENCY | 821.8125 | MHz | BASE FREQUENCY | 886.8125 | MHz | YORK ME |
| CHANNEL NUMBER | 662 | MOBILE FREQUENCY | 821.8125 | MHz | BASE FREQUENCY | 866.8125 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 663 | MOBILE FREQUENCY | 821.8250 | MHz | BASE FREQUENCY | 866.8250 | MHz | WINDSOR VT |
| CHANNEL NUMBER | 633 | MOBILE FREQUENCY | 821.8250 | MHz | BASE FREQUENCY | 866.8250 | MHz | ESSEX MA |
| CHANNEL NUMBER | 663 | MOBILE FREQUENCY | 821.8250 | MHz | BASE FREQUENCY | 866.8250 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 664 | MOBILE FREQUENCY | 821.8375 | MHz | BASE FREQUENCY | 866.8375 | MHz | BRISTOL MA |
| CHANNEL NUMBER | 665 | MOBILE FREQUENCY | 821.8500 | MHz | BASE FREQUENCY | 866.8500 | MHz | ROCKINGHAM NH |
| CHANNEL NUMBER | 666 | MOBILE FREQUENCY | 821.8625 | MHz | BASE FREQUENCY | 866.8625 | MHz | CUMBERLAND ME |
| CHANNEL NUMBER | 666 | MOBILE FREQUENCY | 821.8625 | MHz | BASE FREQUENCY | 866.8625 | MHz | CONN STATE POLICE TROOP C |
| CHANNEL NUMBER | 667 | MOBILE FREQUENCY | 821.8750 | MHz | BASE FREQUENCY | 866.8750 | MHz | STRAFFORD NH |
| CHANNEL NUMBER | 667 | MOBILE FREQUENCY | 821.8750 | MHz | BASE FREQUENCY | 866.8750 | MHz | NORFOLK MA |
| CHANNEL NUMBER | 668 | MOBILE FREQUENCY | 821.8875 | MHz | BASE FREQUENCY | 866.8875 | MHz | CHESHIRE NH |
| CHANNEL NUMBER | 668 | MOBILE FREQUENCY | 821.8875 | MHz | BASE FREQUENCY | 866.8875 | MHz | NEW LONDON CT |
| CHANNEL NUMBER | 669 | MOBILE FREQUENCY | 821.9000 | MHz | BASE FREQUENCY | 866.9000 | MHz | NEWPORT RI |
| CHANNEL NUMBER | 669 | MOBILE FREQUENCY | 821.9000 | MHz | BASE FREQUENCY | 866.9000 | MHz | STRAFFORD NH |
| CHANNEL NUMBER | 669 | MOBILE FREQUENCY | 821.9000 | MHz | BASE FREQUENCY | 866.9000 | MHz | HAMPDEN MA |
| CHANNEL NUMBER | 670 | MOBILE FREQUENCY | 821.9125 | MHz | BASE FREQUENCY | 866.9125 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 671 | MOBILE FREQUENCY | 821.9250 | MHz | BASE FREQUENCY | 866.9250 | MHz | CARROLL NH |
| CHANNEL NUMBER | 671 | MOBILE FREQUENCY | 821.9250 | MHz | BASE FREQUENCY | 866.9250 | MHz | PLYMOUTH MA |
| CHANNEL NUMBER | 671 | MOBILE FREQUENCY | 821.9250 | MHz | BASE FREQUENCY | 866.9250 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 672 | MOBILE FREQUENCY | 821.9375 | MHz | BASE FREQUENCY | 866.9375 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 673 | MOBILE FREQUENCY | 821.9500 | MHz | BASE FREQUENCY | 866.9500 | MHz | ROCKINGHAM NH |
| CHANNEL NUMBER | 673 | MOBILE FREQUENCY | 821.9500 | MHz | BASE FREQUENCY | 866.9500 | MHz | NEW LONDON CT |
| CHANNEL NUMBER | 674 | MOBILE FREQUENCY | 821.9325 | MHz | BASE FREQUENCY | 866.9625 | MHz | BERKSHIRE MA |

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|---|---|---|---|---|---|---|---|---|
| CHANNEL NUMBER | 674 | MOBILE FREQUENCY | 821.9625 | MHz | BASE FREQUENCY | 866.9625 | MHz | NORFOLK MA |
| CHANNEL NUMBER | 675 | MOBILE FREQUENCY | 821.9750 | MHz | BASE FREQUENCY | 866.9750 | MHz | WASHINGTON RI |
| CHANNEL NUMBER | 676 | MOBILE FREQUENCY | 821.9875 | MHz | BASE FREQUENCY | 866.9875 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 677 | MOBILE FREQUENCY | 822.0125 | MHz | BASE FREQUENCY | 867.0125 | MHz | MUTUAL AID |
| CHANNEL NUMBER | 678 | MOBILE FREQUENCY | 822.0375 | MHz | BASE FREQUENCY | 867.0375 | MHz | BRISTOL MA |
| CHANNEL NUMBER | 679 | MOBILE FREQUENCY | 822.0500 | MHz | BASE FREQUENCY | 867.0500 | MHz | HILLSBOROUGH NH |
| CHANNEL NUMBER | 680 | MOBILE FREQUENCY | 822.0625 | MHz | BASE FREQUENCY | 867.0625 | MHz | BRISTOL MA |
| CHANNEL NUMBER | 681 | MOBILE FREQUENCY | 822.0750 | MHz | BASE FREQUENCY | 867.0750 | MHz | HILLSBOROUGH NH |
| CHANNEL NUMBER | 681 | MOBILE FREQUENCY | 822.0750 | MHz | BASE FREQUENCY | 867.0850 | MHz | CONN STATE POLICE TROOP D& F |
| CHANNEL NUMBER | 825 | MOBILE FREQUENCY | 822.0875 | MHz | BASE FREQUENCY | 867.0875 | MHz | NEWPORT RI |
| CHANNEL NUMBER | 683 | MOBILE FREQUENCY | 822.1000 | MHz | BASE FREQUENCY | 867.1000 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 684 | MOBILE FREQUENCY | 822.1125 | MHz | BASE FREQUENCY | 867.1125 | MHz | WINDSOR VT |
| CHANNEL NUMBER | 684 | MOBILE FREQUENCY | 822.1125 | MHz | BASE FREQUENCY | 867.1125 | MHz | PLYMOUTH MA |
| CHANNEL NUMBER | 684 | MOBILE FREQUENCY | 822.1125 | MHz | BASE FREQUENCY | 867.1125 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 685 | MOBILE FREQUENCY | 822.1250 | MHz | BASE FREQUENCY | 867.1250 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 686 | MOBILE FREQUENCY | 822.1375 | MHz | BASE FREQUENCY | 867.1375 | MHz | CONN STATE POLICE TROOP K |
| CHANNEL NUMBER | 687 | MOBILE FREQUENCY | 822.1500 | MHz | BASE FREQUENCY | 867.1500 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 688 | MOBILE FREQUENCY | 822.1625 | MHz | BASE FREQUENCY | 867.1625 | MHz | KENT RI |
| CHANNEL NUMBER | 698 | MOBILE FREQUENCY | 822.1750 | MHz | BASE FREQUENCY | 867.1750 | MHz | TOLLAND CT |
| CHANNEL NUMBER | 690 | MOBILE FREQUENCY | 822.1875 | MHz | BASE FREQUENCY | 867.1875 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 691 | MOBILE FREQUENCY | 822.2000 | MHz | BASE FREQUENCY | 867.2000 | MHz | CONN STATE POLICE TROOP H & C |
| CHANNEL NUMBER | 692 | MOBILE FREQUENCY | 822.2125 | MHz | BASE FREQUENCY | 867.2125 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 693 | MOBILE FREQUENCY | 822.2250 | MHz | BASE FREQUENCY | 867.2250 | MHz | CONN STATE POLICE TROOP C |
| CHANNEL NUMBER | 694 | MOBILE FREQUENCY | 822.2375 | MHz | BASE FREQUENCY | 867.2375 | MHz | NORFOLK MA |
| CHANNEL NUMBER | 695 | MOBILE FREQUENCY | 822.2500 | MHz | BASE FREQUENCY | 867.2500 | MHz | NEWPORT RI |
| CHANNEL NUMBER | 695 | MOBILE FREQUENCY | 822.2500 | MHz | BASE FREQUENCY | 867.2500 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 696 | MOBILE FREQUENCY | 822.2625 | MHz | BASE FREQUENCY | 867.2625 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 697 | MOBILE FREQUENCY | 822.2750 | MHz | BASE FREQUENCY | 867.2750 | MHz | UNASSIGNED |
| CHANNEL NUMBER | 698 | MOBILE FREQUENCY | 822.2875 | MHz | BASE FREQUENCY | 867.2875 | MHz | SUFFOLK MA |
| CHANNEL NUMBER | 698 | MOBILE FREQUENCY | 822.2875 | MHz | BASE FREQUENCY | 867.2875 | MHz | HAMPDEN MA |
| CHANNEL NUMBER | 699 | MOBILE FREQUENCY | 822.3000 | MHz | BASE FREQUENCY | 867.3000 | MHz | PROVIDENCE RI |
| CHANNEL NUMBER | 700 | MOBILE FREQUENCY | 822.3125 | MHz | BASE FREQUENCY | 867.3125 | MHz | ESSEX MA |
| CHANNEL NUMBER | 700 | MOBILE FREQUENCY | 822.3125 | MHz | BASE FREQUENCY | 867.3125 | MHz | HAMPDEN MA |
| CHANNEL NUMBER | 701 | MOBILE FREQUENCY | 822.3250 | MHz | BASE FREQUENCY | 867.3250 | MHz | NEW LONDON CT |
| CHANNEL NUMBER | 702 | MOBILE FREQUENCY | 822.3375 | MHz | BASE FREQUENCY | 867.3375 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 703 | MOBILE FREQUENCY | 822.3500 | MHz | BASE FREQUENCY | 867.3500 | MHz | PLYMOUTH MA |
| CHANNEL NUMBER | 704 | MOBILE FREQUENCY | 822.3625 | MHz | BASE FREQUENCY | 867.3625 | MHz | PROVIDENCE RI |
| CHANNEL NUMBER | 705 | MOBILE FREQUENCY | 822.3750 | MHz | BASE FREQUENCY | 867.3750 | MHz | HAMPSHIRE MA |
| CHANNEL NUMBER | 705 | MOBILE FREQUENCY | 822.3750 | MHz | BASE FREQUENCY | 867.3750 | MHz | PLYMOUTH MA |
| CHANNEL NUMBER | 706 | MOBILE FREQUENCY | 822.3875 | MHz | BASE FREQUENCY | 867.3875 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 707 | MOBILE FREQUENCY | 822.4000 | MHz | BASE FREQUENCY | 867.4000 | MHz | HAMPDEN MA |
| CHANNEL NUMBER | 708 | MOBILE FREQUENCY | 822.4125 | MHz | BASE FREQUENCY | 867.4125 | MHz | KENT RI |
| CHANNEL NUMBER | 709 | MOBILE FREQUENCY | 822.4250 | MHz | BASE FREQUENCY | 867.4250 | MHz | SUFFOLK MA |
| CHANNEL NUMBER | 710 | MOBILE FREQUENCY | 822.4375 | MHz | BASE FREQUENCY | 867.4375 | MHz | UNASSIGNED |

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|---|---|---|---|---|---|---|---|---|
| CHANNEL NUMBER | 711 | MOBILE FREQUENCY | 822.4500 | MHz | BASE FREQUENCY | 867.4500 | MHz | NEW LONDON CT |
| CHANNEL NUMBER | 712 | MOBILE FREQUENCY | 822.4625 | MHz | BASE FREQUENCY | 867.4625 | MHz | MIDDLESES MA |
| CHANNEL NUMBER | 713 | MOBILE FREQUENCY | 822.4750 | MHz | BASE FREQUENCY | 867.4750 | MHz | KENT RI |
| CHANNEL NUMBER | 714 | MOBILE FREQUENCY | 822.4875 | MHz | BASE FREQUENCY | 867.4875 | MHz | NORFOLK MA |
| CHANNEL NUMBER | 715 | MOBILE FREQUENCY | 822.5125 | MHz | BASE FREQUENCY | 867.5125 | MHz | MUTUAL AID |
| CHANNEL NUMBER | 716 | MOBILE FREQUENCY | 822.5375 | MHz | BASE FREQUENCY | 867.5375 | MHz | HILLSBOROUGH NH |
| CHANNEL NUMBER | 717 | MOBILE FREQUENCY | 822.5500 | MHz | BASE FREQUENCY | 867.5500 | MHz | UNASSIGNED |
| CHANNEL NUMBER | 718 | MOBILE FREQUENCY | 822.5625 | MHz | BASE FREQUENCY | 867.5625 | MHz | HILLSBOROUGH NH |
| CHANNEL NUMBER | 718 | MOBILE FREQUENCY | 822.5625 | MHz | BASE FREQUENCY | 867.5625 | MHz | WASHINGTON RI |
| CHANNEL NUMBER | 719 | MOBILE FREQUENCY | 822.5750 | MHz | BASE FREQUENCY | 867.5750 | MHz | UNASSIGNED |
| CHANNEL NUMBER | 720 | MOBILE FREQUENCY | 822.5875 | MHz | BASE FREQUENCY | 867.5875 | MHz | CONN STATE POLICE TROOPO H & C |
| CHANNEL NUMBER | 721 | MOBILE FREQUENCY | 822.6000 | MHz | BASE FREQUENCY | 867.6000 | MHz | BRISTOL MA |
| CHANNEL NUMBER | 722 | MOBILE FREQUENCY | 822.6125 | MHz | BASE FREQUENCY | 867.6125 | MHz | WINDHAM CT |
| CHANNEL NUMBER | 723 | MOBILE FREQUENCY | 822.6250 | MHz | BASE FREQUENCY | 867.6250 | MHz | PLYMOUTH MA |
| CHANNEL NUMBER | 724 | MOBILE FREQUENCY | 822.6375 | MHz | BASE FREQUENCY | 867.6375 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 725 | MOBILE FREQUENCY | 822.6500 | MHz | BASE FREQUENCY | 867.6500 | MHz | UNASSIGNED |
| CHANNEL NUMBER | 726 | MOBILE FREQUENCY | 822.6625 | MHz | BASE FREQUENCY | 867.6625 | MHz | WINDHAM CT |
| CHANNEL NUMBER | 727 | MOBILE FREQUENCY | 822.6750 | MHz | BASE FREQUENCY | 867.6750 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 728 | MOBILE FREQUENCY | 822.6875 | MHz | BASE FREQUENCY | 867.6875 | MHz | UNASSIGNED |
| CHANNEL NUMBER | 729 | MOBILE FREQUENCY | 822.700 | MHz | BASE FREQUENCY | 867.7000 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 729 | MOBILE FREQUENCY | 822.7000 | MHz | BASE FREQUENCY | 867.700 | MHz | CONN STATE POLICE TROOP K |
| CHANNEL NUMBER | 730 | MOBILE FREQUENCY | 822.7125 | MHz | BASE FREQUENCY | 867.7125 | MHz | HAMPDEN MA |
| CHANNEL NUMBER | 731 | MOBILE FREQUENCY | 822.7250 | MHz | BASE FREQUENCY | 867.7250 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 732 | MOBILE FREQUENCY | 822.7375 | MHz | BASE FREQUENCY | 867.7375 | MHz | HAMPDEN MA |
| CHANNEL NUMBER | 733 | MOBILE FREQUENCY | 822.7500 | MHz | BASE FREQUENCY | 867.7500 | MHz | UNASSIGNED |
| CHANNEL NUMBER | 734 | MOBILE FREQUENCY | 822.7625 | MHz | BASE FREQUENCY | 867.7625 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 735 | MOBILE FREQUENCY | 822.7750 | MHz | BASE FREQUENCY | 867.7750 | MHz | NEW LONDON CT |
| CHANNEL NUMBER | 736 | MOBILE FREQUENCY | 822.7875 | MHz | BASE FREQUENCY | 867.7875 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 737 | MOBILE FREQUENCY | 822.8000 | MHz | BASE FREQUENCY | 867.8000 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 738 | MOBILE FREQUENCY | 822.8125 | MHz | BASE FREQUENCY | 867.8125 | MHz | WASHINGTON RI |
| CHANNEL NUMBER | 739 | MOBILE FREQUENCY | 822.8250 | MHz | BASE FREQUENCY | 867.8250 | MHz | SUFFOLK MA |
| CHANNEL NUMBER | 739 | MOBILE FREQUENCY | 822.8250 | MHz | BASE FREQUENCY | 867.8250 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 740 | MOBILE FREQUENCY | 822.8375 | MHz | BASE FREQUENCY | 867.8375 | MHz | PROVIDENCE RI |
| CHANNEL NUMBER | 741 | MOBILE FREQUENCY | 822.8500 | MHz | BASE FREQUENCY | 867.8500 | MHz | CHESHIRE NH |
| CHANNEL NUMBER | 742 | MOBILE FREQUENCY | 822.8625 | MHz | BASE FREQUENCY | 867.8625 | MHz | NEWPORT RI |
| CHANNEL NUMBER | 742 | MOBILE FREQUENCY | 822.8625 | MHz | BASE FREQUENCY | 867.8625 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 743 | MOBILE FREQUENCY | 822.8750 | MHz | BASE FREQUENCY | 867.8750 | MHz | NORFOLK MA |
| CHANNEL NUMBER | 744 | MOBILE FREQUENCY | 822.8875 | MHz | BASE FREQUENCY | 867.8875 | MHz | HILLBOROUGH NH |
| CHANNEL NUMBER | 744 | MOBILE FREQUENCY | 822.8875 | MHz | BASE FREQUENCY | 867.8875 | MHz | WASHINGTON RI |
| CHANNEL NUMBER | 745 | MOBILE FREQUENCY | 822.9000 | MHz | BASE FREQUENCY | 867.9000 | MHz | TOLLAND CT |
| CHANNEL NUMBER | 746 | MOBILE FREQUENCY | 822.9125 | MHz | BASE FREQUENCY | 867.9125 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 747 | MOBILE FREQUENCY | 822.9250 | MHz | BASE FREQUENCY | 867.9250 | MHz | HAMPSHIRE MA |
| CHANNEL NUMBER | 748 | MOBILE FREQUENCY | 822.9375 | MHz | BASE FREQUENCY | 867.9375 | MHz | WINDHAM CT |
| CHANNEL NUMBER | 749 | MOBILE FREQUENCY | 822.9500 | MHz | BASE FREQUENCY | 867.9500 | MHz | MIDDLESEX MA |

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|---|---|---|---|---|---|---|---|---|
| CHANNEL NUMBER | 750 | MOBILE FREQUENCY | 822.9625 | MHz | BASE FREQUENCY | 867.9625 | MHz | PLYMOUTH MA |
| CHANNEL NUMBER | 750 | MOBILE FREQUENCY | 822.9625 | MHz | BASE FREQUENCY | 867.9625 | MHz | TOLLAND CT |
| CHANNEL NUMBER | 751 | MOBILE FREQUENCY | 822.9750 | MHz | BASE FREQUENCY | 867.9750 | MHz | PROVIDENCE RI |
| CHANNEL NUMBER | 752 | MOBILE FREQUENCY | 822.9875 | MHz | BASE FREQUENCY | 867.8975 | MHz | SUFFOLK MA |
| CHANNEL NUMBER | 752 | MOBILE FREQUENCY | 822.9875 | MHz | BASE FREQUENCY | 867.9875 | MHz | HAMPDEN MA |
| CHANNEL NUMBER | 753 | MOBILE FREQUENCY | 823.0125 | MHz | BASE FREQUENCY | 868.0125 | MHz | MUTUAL AID |
| CHANNEL NUMBER | 754 | MOBILE FREQUENCY | 823.0375 | MHz | BASE FREQUENCY | 868.0375 | MHz | BRISTOL MA |
| CHANNEL NUMBER | 755 | MOBILE FREQUENCY | 823.0500 | MHz | BASE FREQUENCY | 867.0500 | MHz | ESSEX MA |
| CHANNEL NUMBER | 756 | MOBILE FREQUENCY | 823.0625 | MHz | BASE FREQUENCY | 868.0625 | MHz | CARROLL NH |
| CHANNEL NUMBER | 756 | MOBILE FREQUENCY | 823.0625 | MHz | BASE FREQUENCY | 868.0625 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 757 | MOBILE FREQUENCY | 823.0750 | MHz | BASE FREQUENCY | 868.0750 | MHz | PLYMOUTH MA |
| CHANNEL NUMBER | 757 | MOBILE FREQUENCY | 823.0750 | MHz | BASE FREQUENCY | 868.0750 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 758 | MOBILE FREQUENCY | 823.0875 | MHz | BASE FREQUENCY | 868.0875 | MHz | STRAFFORD NH |
| CHANNEL NUMBER | 758 | MOBILE FREQUENCY | 823.0875 | MHz | BASE FREQUENCY | 0868.0875 | MHz | WASHINGTON RI |
| CHANNEL NUMBER | 759 | MOBILE FREQUENCY | 823.1000 | MHz | BASE FREQUENCY | 868.1000 | MHz | SUFFOLK MA |
| CHANNEL NUMBER | 759 | MOBILE FREQUENCY | 823.1000 | MHz | BASE FREQUENCY | 868.1000 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 760 | MOBILE FREQUENCY | 823.1125 | MHz | BASE FREQUENCY | 868.1125 | MHz | YORK ME |
| CHANNEL NUMBER | 760 | MOBILE FREQUENCY | 823.1125 | MHz | BASE FREQUENCY | 868.1125 | MHz | PROVIDENCE RI |
| CHANNEL NUMBER | 761 | MOBILE FREQUENCY | 823.1250 | MHz | BASE FREQUENCY | 868.1250 | MHz | CHESHIRE NH |
| CHANNEL NUMBER | 761 | MOBILE FREQUENCY | 823.1250 | MHz | BASE FREQUENCY | 868.1250 | MHz | PLYMOUTH MA |
| CHANNEL NUMBER | 762 | MOBILE FREQUENCY | 823.1375 | MHz | BASE FREQUENCY | 868.1375 | MHz | STRAFFORD NH |
| CHANNEL NUMBER | 762 | MOBILE FREQUENCY | 823.1375 | MHz | BASE FREQUENCY | 868.1375 | MHz | BERKSHIRE MA |
| CHANNEL NUMBER | 763 | MOBILE FREQUENCY | 823.1500 | MHz | BASE FREQUENCY | 868.1500 | MHz | NORFOLK MA |
| CHANNEL NUMBER | 763 | MOBILE FREQUENCY | 823.1500 | MHz | BASE FREQUENCY | 868.1500 | MHz | CUMBRELAND ME |
| CHANNEL NUMBER | 764 | MOBILE FREQUENCY | 823.1625 | MHz | BASE FREQUENCY | 868.1625 | MHz | ROCKINGHAM NH |
| CHANNEL NUMBER | 764 | MOBILE FREQUENCY | 823.1625 | MHz | BASE FREQUENCY | 868.1625 | MHz | CONN STATE POLICE TROOP D & F |
| CHANNEL NUMBER | 765 | MOBILE FREQUENCY | 823.1750 | MHz | BASE FREQUENCY | 868.1750 | MHz | UNASSIGNED |
| CHANNEL NUMBER | 766 | MOBILE FREQUENCY | 823.1875 | MHz | BASE FREQUENCY | 868.1875 | MHz | WINDSOR VT |
| CHANNEL NUMBER | 766 | MOBILE FREQUENCY | 823.1875 | MHz | BASE FREQUENCY | 868.1875 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 767 | MOBILE FREQUENCY | 823.2000 | MHz | BASE FREQUENCY | 868.2000 | MHz | CONN STATE POLICE TROOP H & E |
| CHANNEL NUMBER | 768 | MOBILE FREQUENCY | 823.2125 | MHz | BASE FREQUENCY | 868.2125 | MHz | HILLSBOROUGH NH |
| CHANNEL NUMBER | 769 | MOBILE FREQUENCY | 823.2250 | MHz | BASE FREQUENCY | 868.2250 | MHz | NORFOLK MA |
| CHANNEL NUMBER | 770 | MOBILE FREQUENCY | 823.2375 | MHz | BASE FREQUENCY | 868.2375 | MHz | BRISTOL RI |
| CHANNEL NUMBER | 770 | MOBILE FREQUENCY | 823.2375 | MHz | BASE FREQUENCY | 868.2375 | MHz | HILLSBOROUGH NH |
| CHANNEL NUMBER | 770 | MOBILE FREQUENCY | 823.2375 | MHz | BASE FREQUENCY | 868.2375 | MHz | CUMBERLAND ME |
| CHANNEL NUMBER | 771 | MOBILE FREQUENCY | 823.2500 | MHz | BASE FREQUENCY | 868.2500 | MHz | SUFFOLK MA |
| CHANNEL NUMBER | 771 | MOBILE FREQUENCY | 823.2500 | MHz | BASE FREQUENCY | 868.2500 | MHz | HAMPSHIRE MA |
| CHANNEL NUMBER | 772 | MOBILE FREQUENCY | 823.2625 | MHz | BASE FREQUENCY | 868.2625 | MHz | PROVIDENCE RI |
| CHANNEL NUMBER | 772 | MOBILE FREQUENCY | 823.2625 | MHz | BASE FREQUENCY | 868.2625 | MHz | CUMBERLAND ME |
| CHANNEL NUMBER | 773 | MOBILE FREQUENCY | 823.2750 | MHz | BASE FREQUENCY | 868.2750 | MHz | MERRIMAC NH |
| CHANNEL NUMBER | 773 | MOBILE FREQUENCY | 823.2750 | MHz | BASE FREQUENCY | 868.2750 | MHz | SUFFOLK MA |
| CHANNEL NUMBER | 773 | MOBILE FREQUENCY | 823.2750 | MHz | BASE FREQUENCY | 868.2750 | MHz | TOLLAND CT |
| CHANNEL NUMBER | 774 | MOBILE FREQUENCY | 823.2875 | MHz | BASE FREQUENCY | 868.2875 | MHz | BERKSHIRE MA |
| CHANNEL NUMBER | 774 | MOBILE FREQUENCY | 823.2875 | MHz | BASE FREQUENCY | 868.2875 | MHz | PROVIDENCE RI |

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|---|---|---|---|---|---|---|---|---|
| CHANNEL NUMBER | 775 | MOBILE FREQUENCY | 823.3000 | MHz | BASE FREQUENCY | 868.3000 | MHz | SULLIVAN NH |
| CHANNEL NUMBER | 775 | MOBILE FREQUENCY | 823.3000 | MHz | BASE FREQUENCY | 868.3000 | MHz | PLYMOUTH MA |
| CHANNEL NUMBER | 776 | MOBILE FREQUENCY | 823.3125 | MHz | BASE FREQUENCY | 868.3125 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 776 | MOBILE FREQUENCY | 823.3125 | MHz | BASE FREQUENCY | 868.3125 | MHz | CONN STATE POLICE TROOP K |
| CHANNEL NUMBER | 777 | MOBILE FREQUENCY | 823.3250 | MHz | BASE FREQUENCY | 868.3250 | MHz | PLYMOUTH MA |
| CHANNEL NUMBER | 777 | MOBILE FREQUENCY | 823.3250 | MHz | BASE FREQUENCY | 868.3250 | MHz | HAMPDEN MA |
| CHANNEL NUMBER | 778 | MOBILE FREQUENCY | 823.3375 | MHz | BASE FREQUENCY | 868.3375 | MHz | BENNINGTON VT |
| CHANNEL NUMBER | 778 | MOBILE FREQUENCY | 823.3375 | MHz | BASE FREQUENCY | 868.3375 | MHz | CARROLL NH |
| CHANNEL NUMBER | 778 | MOBILE FREQUENCY | 823.3375 | MHz | BASE FREQUENCY | 868.3375 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 779 | MOBILE FREQUENCY | 823.3500 | MHz | BASE FREQUENCY | 868.3500 | MHz | NEWPORT RI |
| CHANNEL NUMBER | 779 | MOBILE FREQUENCY | 823.3500 | MHz | BASE FREQUENCY | 868.3500 | MHz | WALDO ME |
| CHANNEL NUMBER | 779 | MOBILE FREQUENCY | 823.3500 | MHz | BASE FREQUENCY | 868.3500 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 780 | MOBILE FREQUENCY | 823.3625 | MHz | BASE FREQUENCY | 868.3625 | MHz | YORK ME |
| CHANNEL NUMBER | 780 | MOBILE FREQUENCY | 823.3625 | MHz | BASE FREQUENCY | 868.3625 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 781 | MOBILE FREQUENCY | 823.3750 | MHz | BASE FREQUENCY | 868.3750 | MHz | LINCOLN ME |
| CHANNEL NUMBER | 781 | MOBILE FREQUENCY | 823.3750 | MHz | BASE FREQUENCY | 868.3750 | MHz | ESSEX MA |
| CHANNEL NUMBER | 781 | MOBILE FREQUENCY | 823.3750 | MHz | BASE FREQUENCY | 868.3750 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 782 | MOBILE FREQUENCY | 823.3875 | MHz | BASE FREQUENCY | 868.3875 | MHz | CHESHIRE NH |
| CHANNEL NUMBER | 782 | MOBILE FREQUENCY | 823.3875 | MHz | BASE FREQUENCY | 868.3875 | MHz | BRISTOL MA |
| CHANNEL NUMBER | 782 | MOBILE FREQUENCY | 823.3875 | MHz | BASE FREQUENCY | 868.3875 | MHz | OXFORD ME (SOUTHERN( |
| CHANNEL NUMBER | 783 | MOBILE FREQUENCY | 823.400 | MHz | BASE FREQUENCY | 868.4000 | MHz | STRAFFORD NH |
| CHANNEL NUMBER | 783 | MOBILE FREQUENCY | 823.4000 | MHz | BASE FREQUENCY | 868.4000 | MHz | HAMPDEN MA |
| CHANNEL NUMBER | 784 | MOBILE FREQUENCY | 823.4125 | MHz | BASE FREQUENCY | 868.4125 | MHz | ORANGE VT |
| CHANNEL NUMBER | 784 | MOBILE FREQUENCY | 823.4125 | MHz | BASE FREQUENCY | 868.4125 | MHz | PROVIDENCE RI |
| CHANNEL NUMBER | 784 | MOBILE FREQUENCY | 823.4125 | MHz | BASE FREQUENCY | 868.4125 | MHz | CUMBERLAND ME |
| CHANNEL NUMBER | 785 | MOBILE FREQUENCY | 823.4250 | MHz | BASE FREQUENCY | 868.4250 | MHz | ROCKINGHAM NH |
| CHANNEL NUMBER | 785 | MOBILE FREQUENCY | 823.4250 | MHz | BASE FREQUENCY | 868.4250 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 786 | MOBILE FREQUENCY | 823.4375 | MHz | BASE FREQUENCY | 868.4375 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 787 | MOBILE FREQUENCY | 823.4500 | MHz | BASE FREQUENCY | 868.4500 | MHz | NEWPORT RI |
| CHANNEL NUMBER | 787 | MOBILE FREQUENCY | 823.4500 | MHz | BASE FREQUENCY | 868.4500 | MHz | KENNEBEC ME |
| CHANNEL NUMBER | 787 | MOBILE FREQUENCY | 823.4500 | MHz | BASE FREQUENCY | 868.4500 | MHz | WINDSOR VT |
| CHANNEL NUMBER | 787 | MOBILE FREQUENCY | 823.4500 | MHz | BASE FREQUENCY | 868.4500 | MHz | EXXEX MA |
| CHANNEL NUMBER | 788 | MOBILE FREQUENCY | 823.4625 | MHz | BASE FREQUENCY | 868.4625 | MHz | WINDHAM CT |
| CHANNEL NUMBER | 798 | MOBILE FREQUENCY | 823.4750 | MHz | BASE FREQUENCY | 868.4750 | MHz | GRAFTON NH |
| CHANNEL NUMBER | 789 | MOBILE FREQUENCY | 823.4750 | MHz | BASE FREQUENCY | 868.4750 | MHz | FRANKLIN MA |
| CHANNEL NUMBER | 789 | MOBILE FREQUENCY | 823.4750 | MHz | BASE FREQUENCY | 868.4750 | MHz | NORFOLK MA |
| CHANNEL NUMBER | 790 | MOBILE FREQUENCY | 823.4875 | MHz | BASE FREQUENCY | 868.4875 | MHz | ROCKINGHAM NH |
| CHANNEL NUMBER | 790 | MOBILE FREQUENCY | 823.4875 | MHz | BASE FREQUENCY | 868.4875 | MHz | WINDHAM CT |
| CHANNEL NUMBER | 791 | MOBILE FREQUENCY | 823.500 | MHz | BASE FREQUENCY | 868.5000 | MHz | SUFFOLK MA |
| CHANNEL NUMBER | 791 | MOBILE FREQUENCY | 823.5000 | MHz | BASE FREQUENCY | 868.5000 | MHz | HAMPSHIRE MA |
| CHANNEL NUMBER | 791 | MOBILE FREQUENCY | 823.5000 | MHz | BASE FREQUENCY | 868.5000 | MHz | CUMBERLAND ME |
| CHANNEL NUMBER | 792 | MOBILE FREQUENCY | 823.5125 | MHz | BASE FREQUENCY | 868.5125 | MHz | MERRIMAC NH |
| CHANNEL NUMBER | 792 | MOBILE FREQUENCY | 823.5125 | MHz | BASE FREQUENCY | 868.5125 | MHz | PROVIDENCE RI |
| CHANNEL NUMBER | 793 | MOBILE FREQUENCY | 823.5250 | MHz | BASE FREQUENCY | 868.5250 | MHz | RUTLAND VT |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CHANNEL NUMBER | 793 | MOBILE FREQUENCY | 823.5250 | MHz | BASE FREQUENCY | 868.5250 | MHz | SUFFOLK MA |
| CHANNEL NUMBER | 793 | MOBILE FREQUENCY | 823.5250 | MHz | BASE FREQUENCY | 868.5250 | MHz | CUMBERLAND ME |
| CHANNEL NUMBER | 794 | MOBILE FREQUENCY | 823.5375 | MHz | BASE FREQUENCY | 868.5375 | MHz | BRISTOL RI |
| CHANNEL NUMBER | 794 | MOBILE FREQUENCY | 823.5375 | MHz | BASE FREQUENCY | 868.5375 | MHz | STRAFFORD NH |
| CHANNEL NUMBER | 794 | MOBILE FREQUENCY | 823.5375 | MHz | BASE FREQUENCY | 868.5375 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 795 | MOBILE FREQUENCY | 823.5500 | MHz | BASE FREQUENCY | 868.5500 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 796 | MOBILE FREQUENCY | 823.5625 | MHz | BASE FREQUENCY | 868.5625 | MHz | MERRIMAC NH |
| CHANNEL NUMBER | 796 | MOBILE FREQUENCY | 823.5625 | MHz | BASE FREQUENCY | 868.5625 | MHz | ANDROSCOGGIN ME |
| CHANNEL NUMBER | 796 | MOBILE FREQUENCY | 823.5625 | MHz | BASE FREQUENCY | 868.5625 | MHz | CONN STATE POLICE TROOP D & F |
| CHANNEL NUMBER | 797 | MOBILE FREQUENCY | 823.5750 | MHz | BASE FREQUENCY | 868.5750 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 798 | MOBILE FREQUENCY | 823.5875 | MHz | BASE FREQUENCY | 868.5875 | MHz | SULLIVAN NH |
| CHANNEL NUMBER | 798 | MOBILE FREQUENCY | 823.8575 | MHz | BASE FREQUENCY | 868.5875 | MHz | KENT RI |
| CHANNEL NUMBER | 798 | MOBILE FREQUENCY | 823.5875 | MHz | BASE FREQUENCY | 868.5875 | MHz | ANDROSCOGGIN ME |
| CHANNEL NUMBER | 799 | MOBILE FREQUENCY | 823.6000 | MHz | BASE FREQUENCY | 868.6000 | MHz | BARNSTABLE MA |
| CHANNEL NUMBER | 799 | MOBILE FREQUENCY | 823.6000 | MHz | BASE FREQUENCY | 823.6000 | MHz | WALDO ME |
| CHANNEL NUMBER | 799 | MOBILE FREQUENCY | 823.6000 | MHz | BASE FREQUENCY | 868.6000 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 800 | MOBILE FREQUENCY | 823.6125 | MHz | BASE FREQUENCY | 868.61.25 | MHz | WINDHAM VT |
| CHANNEL NUMBER | 800 | MOBILE FREQUENCY | 823.6125 | MHz | BASE FREQUENCY | 868.6125 | MHz | YORK ME |
| CHANNEL NUMBER | 800 | MOBILE FREQUENCY | 823.6125 | MHz | BASE FREQUENCY | 868.6125 | MHz | CONN STATE POLICE TROOP C |
| CHANNEL NUMBER | 801 | MOBILE FREQUENCY | 823.6250 | MHz | BASE FREQUENCY | 868.6250 | MHz | DUKES MA |
| CHANNEL NUMBER | 801 | MOBILE FREQUENCY | 823.6250 | MHz | BASE FREQUENCY | 868.6250 | MHz | LINCOLN ME |
| CHANNEL NUMBER | 801 | MOBILE FREQUENCY | 823.6250 | MHz | BASE FREQUENCY | 868.6250 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 802 | MOBILE FREQUENCY | 823.6375 | MHz | BASE FREQUENCY | 868.6375 | MHz | BENNINGTON VT |
| CHANNEL NUMBER | 803 | MOBILE FREQUENCY | 823.6500 | MHz | BASE FREQUENCY | 868.6500 | MHz | YORK ME |
| CHANNEL NUMBER | 803 | MOBILE FREQUENCY | 823.6500 | MHz | BASE FREQUENCY | 868.6500 | MHz | KNOX ME |
| CHANNEL NUMBER | 803 | MOBILE FREQUENCY | 823.6500 | MHz | BASE FREQUENCY | 868.6500 | MHz | BRISTOL MA |
| CHANNEL NUMBER | 803 | MOBILE FREQUENCY | 823.6500 | MHz | BASE FREQUENCY | 868.6500 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 804 | MOBILE FREQUENCY | 823.6625 | MHz | BASE FREQUENCY | 868.6625 | MHz | ORANGE VT |
| CHANNEL NUMBER | 805 | MOBILE FREQUENCY | 823.6750 | MHz | BASE FREQUENCY | 868.6750 | MHz | KENNEBEC ME |
| CHANNEL NUMBER | 805 | MOBILE FREQUENCY | 823.6750 | MHz | BASE FREQUENCY | 868.6750 | MHz | NEW LONDON CT |
| CHANNEL NUMBER | 805 | MOBILE FREQUENCY | 823.6750 | MHz | BASE FREQUENCY | 868.6750 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 806 | MOBILE FREQUENCY | 823.6875 | MHz | BASE FREQUENCY | 868.6875 | MHz | NEWPORT RI |
| CHANNEL NUMBER | 806 | MOBILE FREQUENCY | 823.6875 | MHz | BASE FREQUENCY | 868.6875 | MHz | SULLIVAN NH |
| CHANNEL NUMBER | 807 | MOBILE FREQUENCY | 823.7000 | MHz | BASE FREQUENCY | 868.7000 | MHz | KENNEBEC ME |
| CHANNEL NUMBER | 807 | MOBILE FREQUENCY | 823.7000 | MHz | BASE FREQUENCY | 868.7000 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 808 | MOBILE FREQUENCY | 823.7125 | MHz | BASE FREQUENCY | 868.7125 | MHz | WINDSOR VT |
| CHANNEL NUMBER | 808 | MOBILE FREQUENCY | 823.7125 | MHz | BASE FREQUENCY | 868.7125 | MHz | WINDHAM CT |
| CHANNEL NUMBER | 809 | MOBILE FREQUENCY | 823.7250 | MHz | BASE FREQUENCY | 868.7250 | MHz | NANTUCKET MA |
| CHANNEL NUMBER | 809 | MOBILE FREQUENCY | 823.7250 | MHz | BASE FREQUENCY | 868.7250 | MHz | BELKNAP NH |
| CHANNEL NUMBER | 809 | MOBILE FREQUENCY | 823.7250 | MHz | BASE FREQUENCY | 868.7250 | MHz | SAGADAHOC ME |
| CHANNEL NUMBER | 809 | MOBILE FREQUENCY | 823.7250 | MHz | BASE FREQUENCY | 868.7250 | MHz | BERKSHIRE MA |
| CHANNEL NUMBER | 809 | MOBILE FREQUENCY | 823.7250 | MHz | BASE FREQUENCY | 868.7250 | MHz | BRISTOL MA |
| CHANNEL NUMBER | 810 | MOBILE FREQUENCY | 823.7375 | MHz | BASE FREQUENCY | 868.7375 | MHz | UNASSIGNED |
| CHANNEL NUMBER | 811 | MOBILE FREQUENCY | 823.7500 | MHz | BASE FREQUENCY | 868.7500 | MHz | ROCKINGHAM NH |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CHANNEL NUMBER | 811 | MOBILE FREQUENCY | 823.7500 | MHz | BASE FREQUENCY | 868.7500 | MHz | RUTLAND VT |
| CHANNEL NUMBER | 811 | MOBILE FREQUENCY | 823.7500 | MHz | BASE FREQUENCY | 868.7500 | MHz | CONN STATE POLICE TROOP H & E |
| CHANNEL NUMBER | 812 | MOBILE FREQUENCY | 823.7625 | MHz | BASE FREQUENCY | 868.7625 | MHz | GRAFTON NH |
| CHANNEL NUMBER | 812 | MOBILE FREQUENCY | 823.7625 | MHz | BASE FREQUENCY | 868.7625 | MHz | NORFOLK MA |
| CHANNEL NUMBER | 813 | MOBILE FREQUENCY | 823.7750 | MHz | BASE FREQUENCY | 868.7750 | MHz | ROCKINGHAM NH |
| CHANNEL NUMBER | 813 | MOBILE FREQUENCY | 823.7750 | MHz | BASE FREQUENCY | 868.7750 | MHz | RUTLAND VT |
| CHANNEL NUMBER | 813 | MOBILE FREQUENCY | 823.7750 | MHz | BASE FREQUENCY | 868.7750 | MHz | WASHINGTON RI |
| CHANNEL NUMBER | 814 | MOBILE FREQUENCY | 823.7875 | MHz | BASE FREQUENCY | 868.7875 | MHz | CUMBERLAND ME |
| CHANNEL NUMBER | 814 | MOBILE FREQUENCY | 823.7875 | MHz | BASE FREQUENCY | 868.7875 | MHz | WORCESTER MA |
| CHANNEL NUMBER | 815 | MOBILE FREQUENCY | 823.8000 | MHz | BASE FREQUENCY | 868.8000 | MHz | ROCKINGHAM NH |
| CHANNEL NUMBER | 815 | MOBILE FREQUENCY | 823.8000 | MHz | BASE FREQUENCY | 868.8000 | MHz | BARNSTABLE MA |
| CHANNEL NUMBER | 815 | MOBILE FREQUENCY | 823.8000 | MHz | BASE FREQUENCY | 868.8000 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 816 | MOBILE FREQUENCY | 823.8125 | MHz | BASE FREQUENCY | 868.8125 | MHz | WINDHAM VT |
| CHANNEL NUMBER | 816 | MOBILE FREQUENCY | 823.8125 | MHz | BASE FREQUENCY | 868.8125 | MHz | PROVIDENCE RI |
| CHANNEL NUMBER | 816 | MOBILE FREQUENCY | 823.8125 | MHz | BASE FREQUENCY | 868.8125 | MHz | ANDROSCOGGIN ME |
| CHANNEL NUMBER | 817 | MOBILE FREQUENCY | 823.8250 | MHz | BASE FREQUENCY | 868.8250 | MHz | GRAFTON NH |
| CHANNEL NUMBER | 817 | MOBILE FREQUENCY | 823.8250 | MHz | BASE FREQUENCY | 868.8250 | MHz | ESSEX MA |
| CHANNEL NUMBER | 817 | MOBILE FREQUENCY | 823.8250 | MHz | BASE FREQUENCY | 868.8250 | MHz | TOLLAND CT |
| CHANNEL NUMBER | 818 | MOBILE FREQUENCY | 823.8375 | MHz | BASE FREQUENCY | 868.8375 | MHz | KENT RI |
| CHANNEL NUMBER | 818 | MOBILE FREQUENCY | 823.8375 | MHz | BASE FREQUENCY | 868.8375 | MHz | FRANKLIN MA |
| CHANNEL NUMBER | 818 | MOBILE FREQUENCY | 823.8375 | MHz | BASE FREQUENCY | 868.8375 | MHz | ANDROSCOGGIN MA |
| CHANNEL NUMBER | 819 | MOBILE FREQUENCY | 823.8500 | MHz | BASE FREQUENCY | 868.8500 | MHz | MERRIMAC NH |
| CHANNEL NUMBER | 819 | MOBILE FREQUENCY | 823.8500 | MHz | BASE FREQUENCY | 868.8500 | MHz | SUFFOLK MA |
| CHANNEL NUMBER | 819 | MOBILE FREQUENCY | 823.8500 | MHz | BASE FREQUENCY | 868.8500 | MHz | WALDO ME |
| CHANNEL NUMBER | 819 | MOBILE FREQUENCY | 823.8500 | MHz | BASE FREQUENCY | 868.8500 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 820 | MOBILE FREQUENCY | 823.8625 | MHz | BASE FREQUENCY | 868.8625 | MHz | WINDHAM VT |
| CHANNEL NUMBER | 820 | MOBILE FREQUENCY | 823.8625 | MHz | BASE FREQUENCY | 868.8625 | MHz | RJPOVIDENCE RI |
| CHANNEL NUMBER | 821 | MOBILE FREQUENCY | 823.8750 | MHz | BASE FREQUENCY | 868.8750 | MHz | MERIMAC NH |
| CHANNEL NUMBER | 821 | MOBILE FREQUENCY | 823.8750 | MHz | BASE FREQUENCY | 868.8750 | MHz | BARNSTABLE MA |
| CHANNEL NUMBER | 821 | MOBILE FREQUENCY | 823.8750 | MHz | BASE FREQUENCY | 868.8750 | MHz | LINCOLN ME |
| CHANNEL NUMBER | 821 | MOBILE FREQUENCY | 823.8750 | MHz | BASE FREQUENCY | 868.8750 | MHz | HARTFORD CT |
| CHANNEL NUMBER | 822 | MOBILE FREQUENCY | 823.8875 | MHz | BASE FREQUENCY | 868.8875 | MHz | BENNINGTON VT |
| CHANNEL NUMBER | 822 | MOBILE FREQUENCY | 823.8875 | MHz | BASE FREQUENCY | 868.8875 | MHz | ESSEX MA |
| CHANNEL NUMBER | 822 | MOBILE FREQUENCY | 823.8875 | MHz | BASE FREQUENCY | 868.8875 | MHz | WASHINGTON RI |
| CHANNEL NUMBER | 822 | MOBILE FREQUENCY | 823.8875 | MHz | BASE FREQUENCY | 868.8875 | MHz | OXFORD ME (SOUTHERN) |
| CHANNEL NUMBER | 823 | MOBILE FREQUENCY | 823.9000 | MHz | BASE FREQUENCY | 868.9000 | MHz | DUKES MA |
| CHANNEL NUMBER | 823 | MOBILE FREQUENCY | 823.9000 | MHz | BASE FREQUENCY | 868.9000 | MHz | BELKNAP NH |
| CHANNEL NUMBER | 824 | MOBILE FREQUENCY | 823.9125 | MHz | BASE FREQUENCY | 868.9125 | MHz | ORANGE VT |
| CHANNEL NUMBER | 824 | MOBILE FREQUENCY | 823.9125 | MHz | BASE FREQUENCY | 868.9125 | MHz | SUFFOLK MA |
| CHANNEL NUMBER | 824 | MOBILE FREQUENCY | 823.9125 | MHz | BASE FREQUENCY | 868.9125 | MHz | NEW LONDON CT |
| CHANNEL NUMBER | 825 | MOBILE FREQUENCY | 823.9250 | MHz | BASE FREQUENCY | 868.9250 | MHz | BRISTOL RI |
| CHANNEL NUMBER | 825 | MOBILE FREQUENCY | 823.9250 | MHz | BASE FREQUENCY | 868.9250 | MHz | HILLSBOROUGH NH |
| CHANNEL NUMBER | 825 | MOBILE FREQUENCY | 823.9250 | MHz | BASE FREQUENCY | 868.9250 | MHz | KENNEBEC ME |
| CHANNEL NUMBER | 826 | MOBILE FREQUENCY | 823.9375 | MHz | BASE FREQUENCY | 868.9375 | MHz | YORK ME |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CHANNEL NUMBER | 826 | MOBILE FREQUENCY | 823.9375 | MHz | BASE FREQUENCY | 868.9375 | MHz | PLYMOUTH MA |
| CHANNEL NUMBER | 827 | MOBILE FREQUENCY | 823.9500 | MHz | BASE FREQUENCY | 868.9500 | MHz | KENNEBEC ME |
| CHANNEL NUMBER | 827 | MOBILE FREQUENCY | 823.9500 | MHz | BASE FREQUENCY | 868.9500 | MHz | MIDDLESEX MA |
| CHANNEL NUMBER | 828 | MOBILE FREQUENCY | 823.9625 | MHz | BASE FREQUENCY | 868.9625 | MHz | UNASSIGNED |
| CHANNEL NUMBER | 829 | MOBILE FREQUENCY | 823.9750 | MHz | BASE FREQUENCY | 868.9750 | MHz | NANTUCKET MA |
| CHANNEL NUMBER | 829 | MOBILE FREQUENCY | 823.9750 | MHz | BASE FREQUENCY | 868.9750 | MHz | BELKNAP NH |
| CHANNEL NUMBER | 829 | MOBILE FREQUENCY | 823.9750 | MHz | BASE FREQUENCY | 868.9750 | MHz | SAGADAHOC ME |
| CHANNEL NUMBER | 829 | MOBILE FREQUENCY | 823.9750 | MHz | BASE FREQUENCY | 868.9750 | MHz | BRISTOL MA |
| CHANNEL NUMBER | 830 | MOBILE FREQUENCY | 823.9875 | MHz | BASE FREQUENCY | 868.9875 | MHz | UNASSIGNED |

Original Line A Channel Assignments

The extreme northern and eastern portions of Region 19 are directly adjacent to Canada. The region has determined that the listed counties fall within Line A. We have further determined the projected minimum frequency requirement for these counties.

Spectrum sorting was not undertaken in these counties. The Regional Committee will amend our plan in these counties in accordance with the agreement that is signed by the U.S. and Canadian Government. The affected counties and their minimum channel requirement are as follows:

MAINE

| County | Channel Requirement |
|---|---|
| Aroostook | 8 |
| Franklin | 5 |
| Hancock | 6 |
| Northern Oxford | 4 |
| Penobscot | 9 |
| Piscataquis | 5 |
| Somerset | 6 |
| Washington | 5 |

VERMONT

| County | Channel Requirement |
|---|---|
| Addison | 5 |
| Caledonia | 5 |
| Chittenden | 9 |
| Essex | 4 |
| Franklin | 5 |
| Grand Isle | 4 |
| Lamoille | 5 |
| Orleans | 5 |
| Washington | 6 |

NEW HAMPSHIRE

| County | Channel Requirements |
|---|---|
| Coos | 5 |

## COORDINATION WITH ADJACENT REGIONS

New England Region 19 will contact the chairs of the adjacent Regions to determine the status of their respective plans. Prior to a "Window" submission to the Federal Communications Commission, Region 19 will obtain adjacent region concurrences.

Regions adjacent to Region 19 are Regions 8 and 30. Region 8 is comprised of Metropolitan New York, New Jersey and the four counties of Connecticut consisting of: Litchfield, Fairfield, New Haven and Middlesex. Region 30 is comprised of the majority of Northern and Western counties of New York State. The contacts for these regions are:

Region 8, Metropolitan New York, New Jersey, four counties in Connecticut
LIEUTENANT ANTHONY MELIA – Chairman
NJ STATE FREQUENCY COORDINATOR
APCO NJ FREQUENCY ADVISOR
ESSEX COUNTY SHERIFF'S OFFICE
FIELD OPERATIONS DIVISION
50 NELSON PLACE
NEWARK, NJ 07102
VOICE: (973)395-2567
FAX: (973)414-1506
E-MAIL: meliaa@apco911.org

Region 30, New York State, northern and western counties
David Cook
New York State, Office of Technology
State Capitol, ESP
P.O. Box 2062
Albany, NY 12220-0062
Phone: (518) 443-2045
Fax: (408) 580-8496, or (518) 443-2787
Email: david.cook@oft.state.ny.us

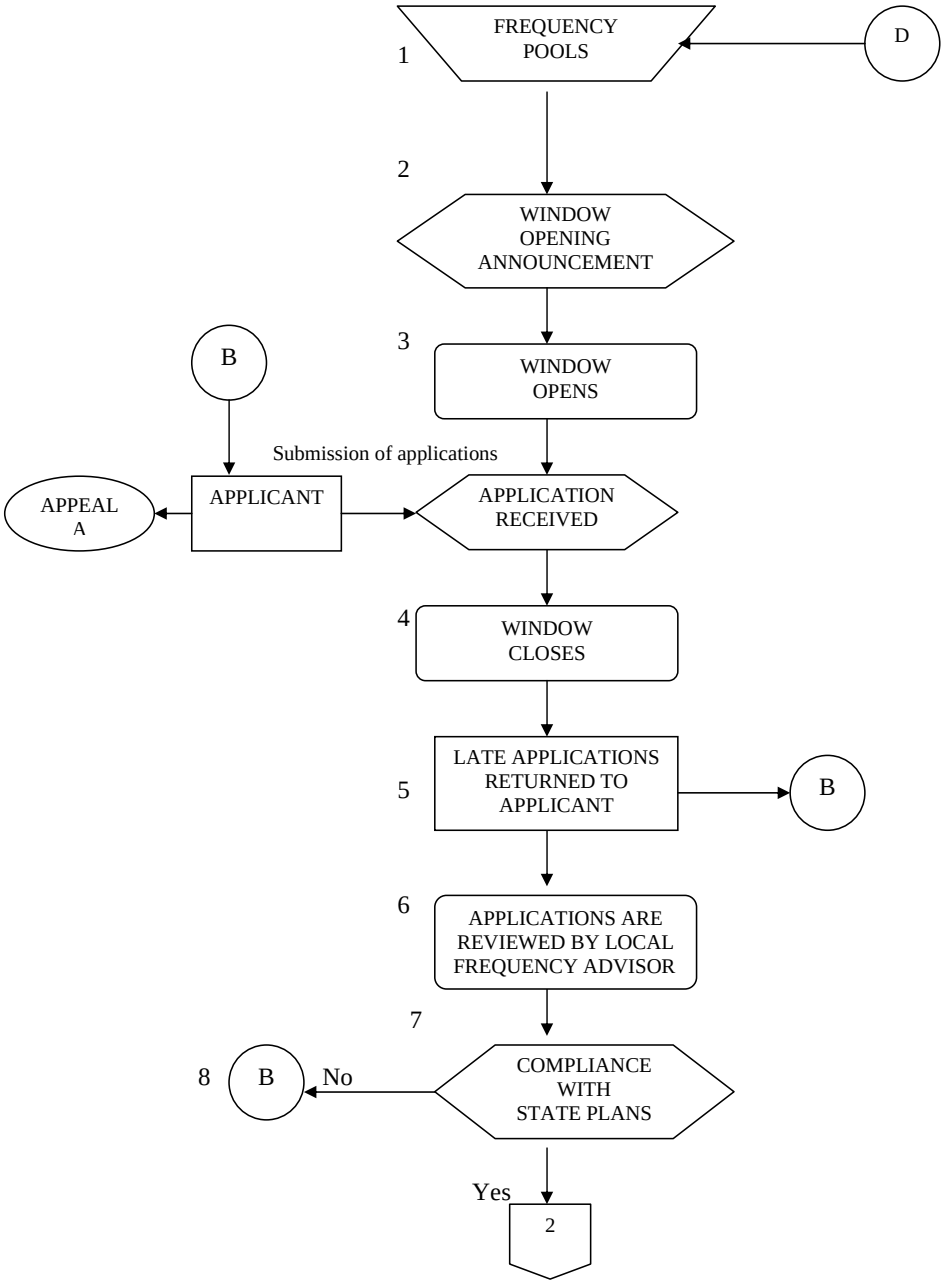
## Window Filing with FCC

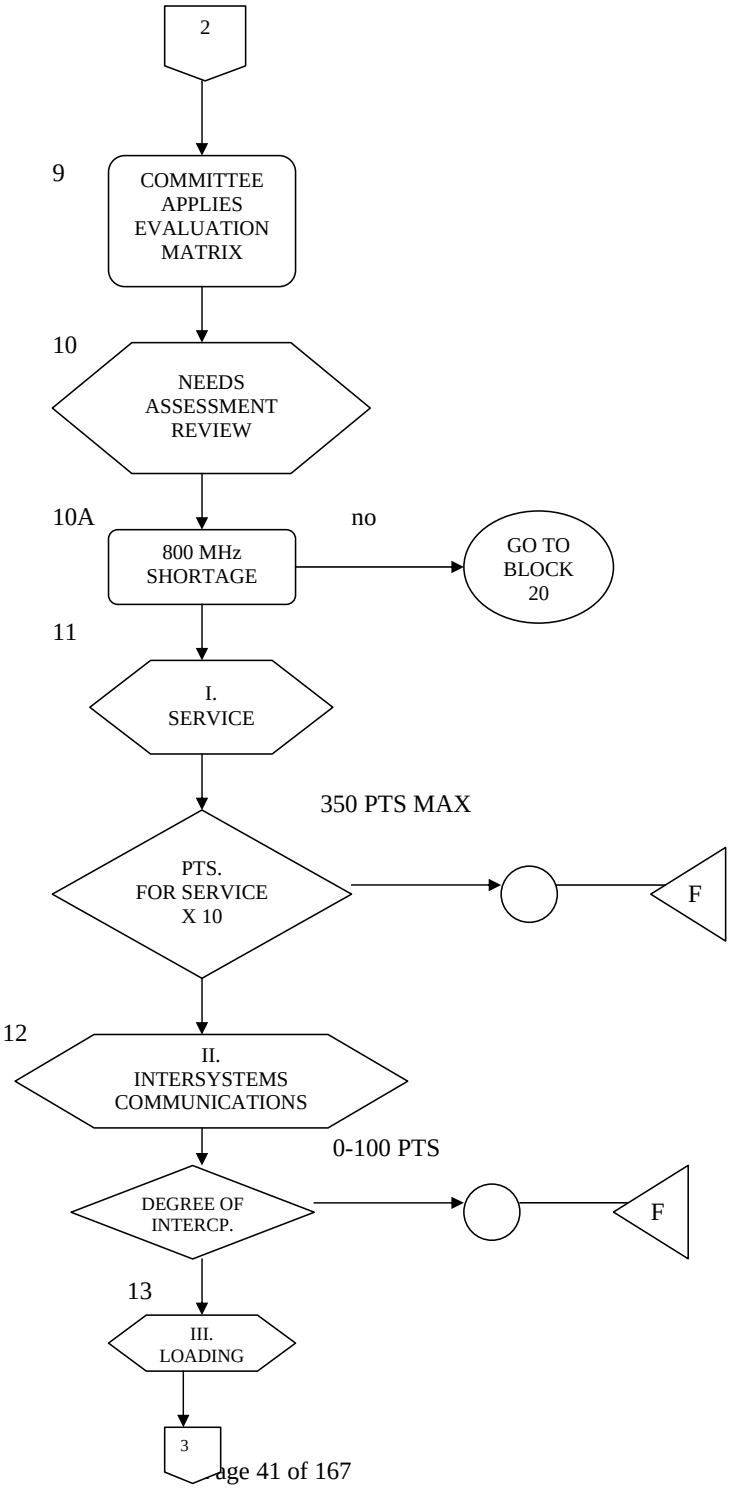
Upon receipt of concurrence from adjacent Regions 8 and 30, Region 19 will file an amendment that represents changes made as a result of the Committees "Window" application process. The filed amendment will include amendment to its frequency allocation table (See Appendix ? – Frequency Allocation Table), approval letters by adjacent Region 8 and 30 with copies of those approvals enclosed and a cover letter to the FCC requesting the approval of the frequency allocation.

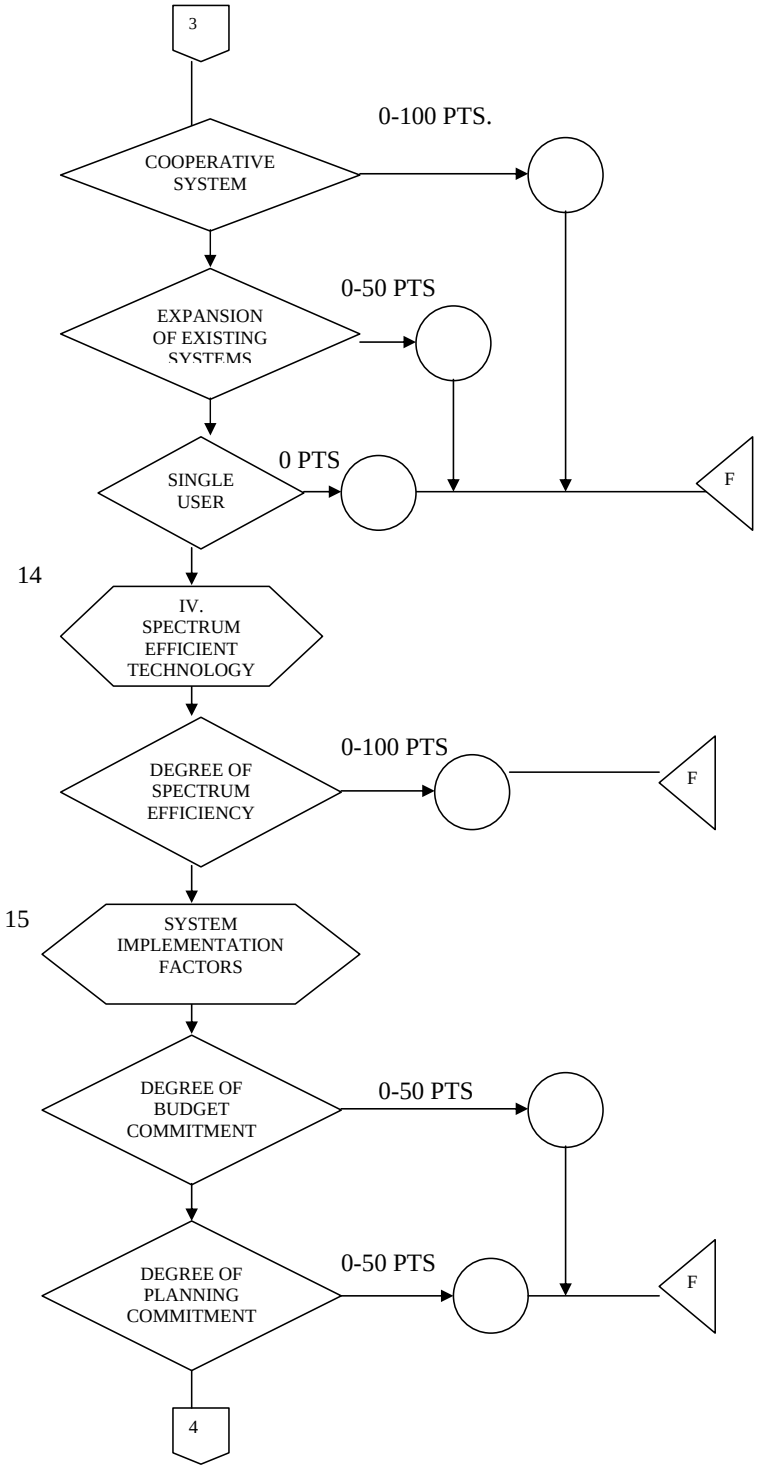
**APPENDIX A**

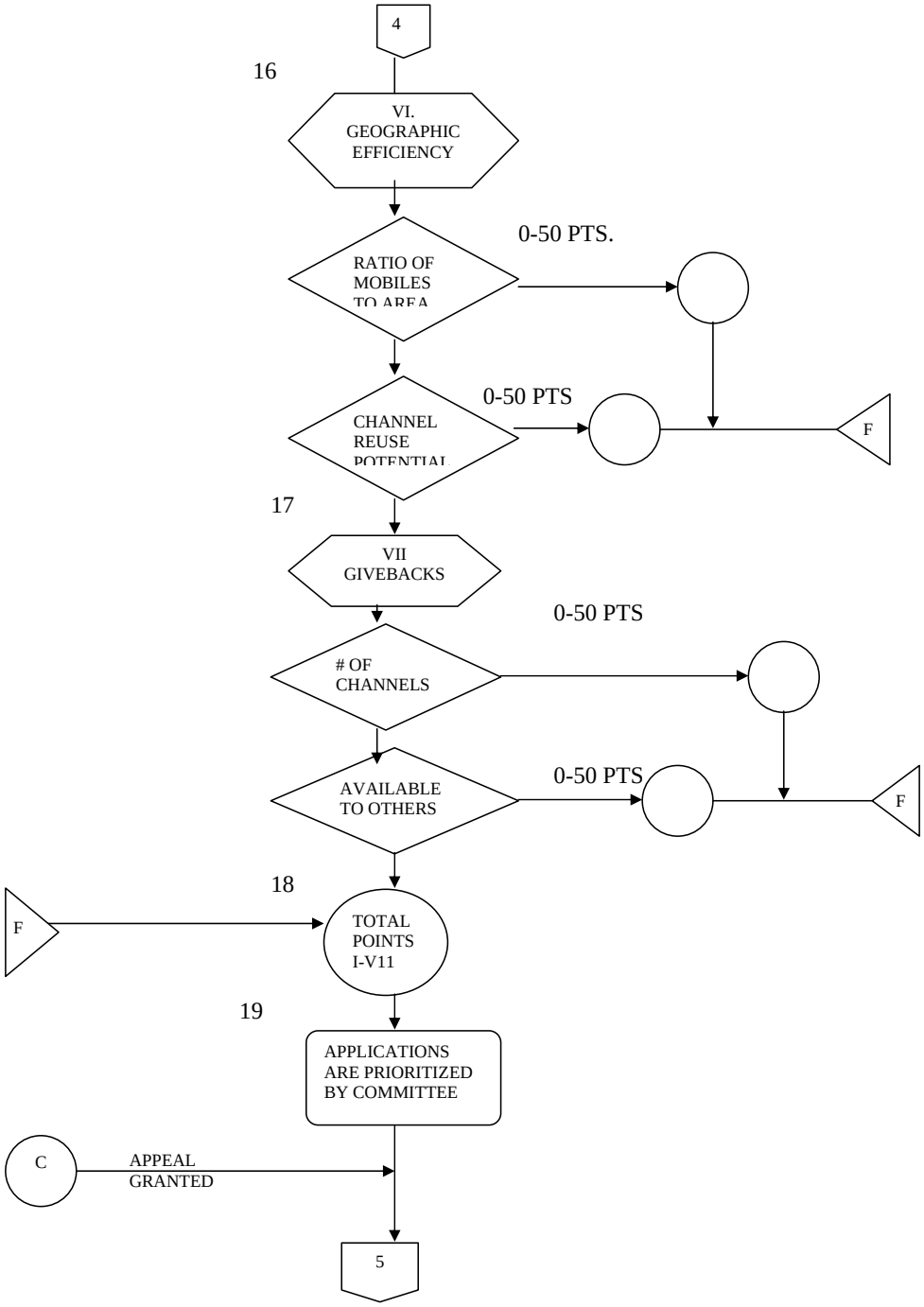
New England Regional 800 MHz Plan

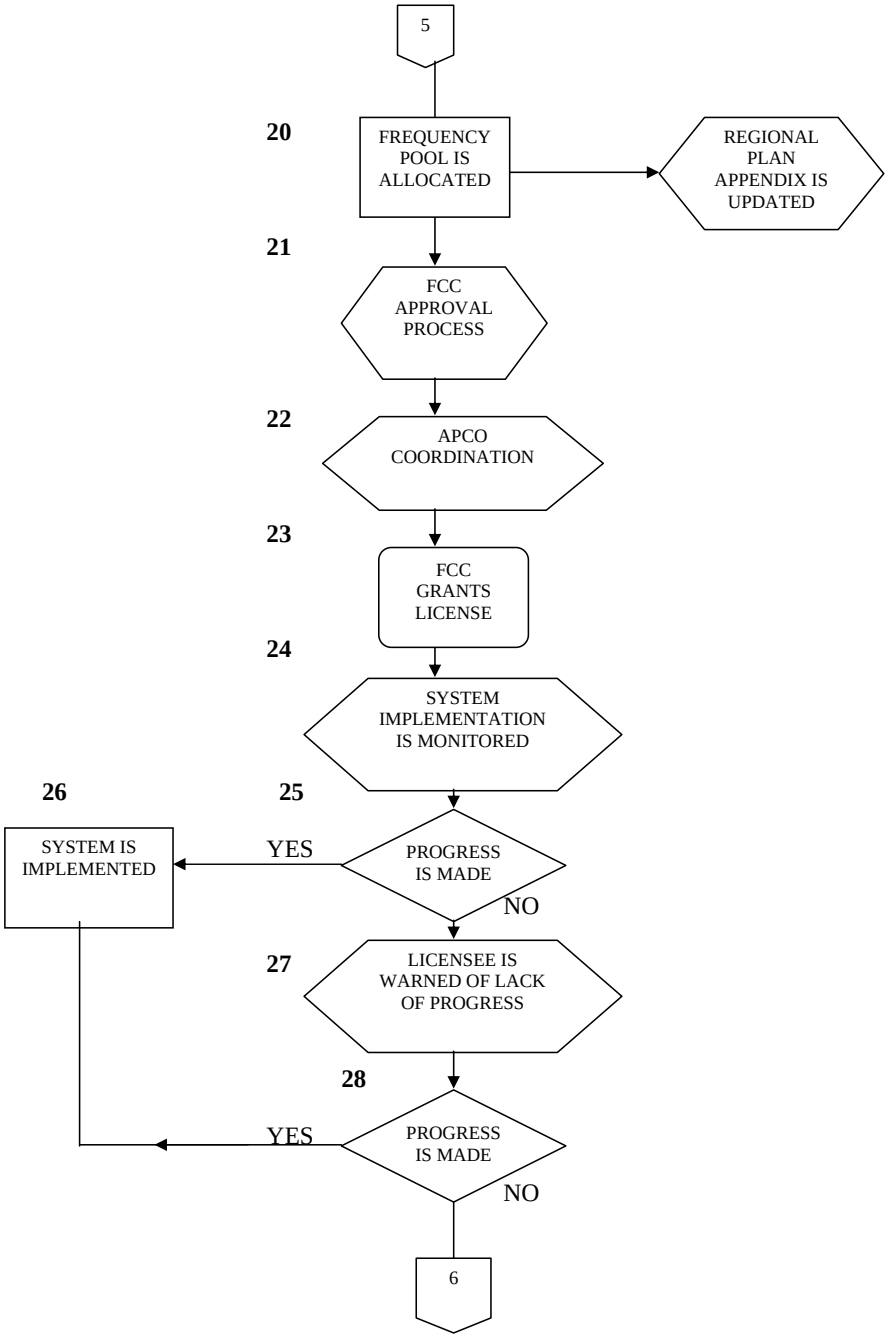
EVALUATION MATRIX

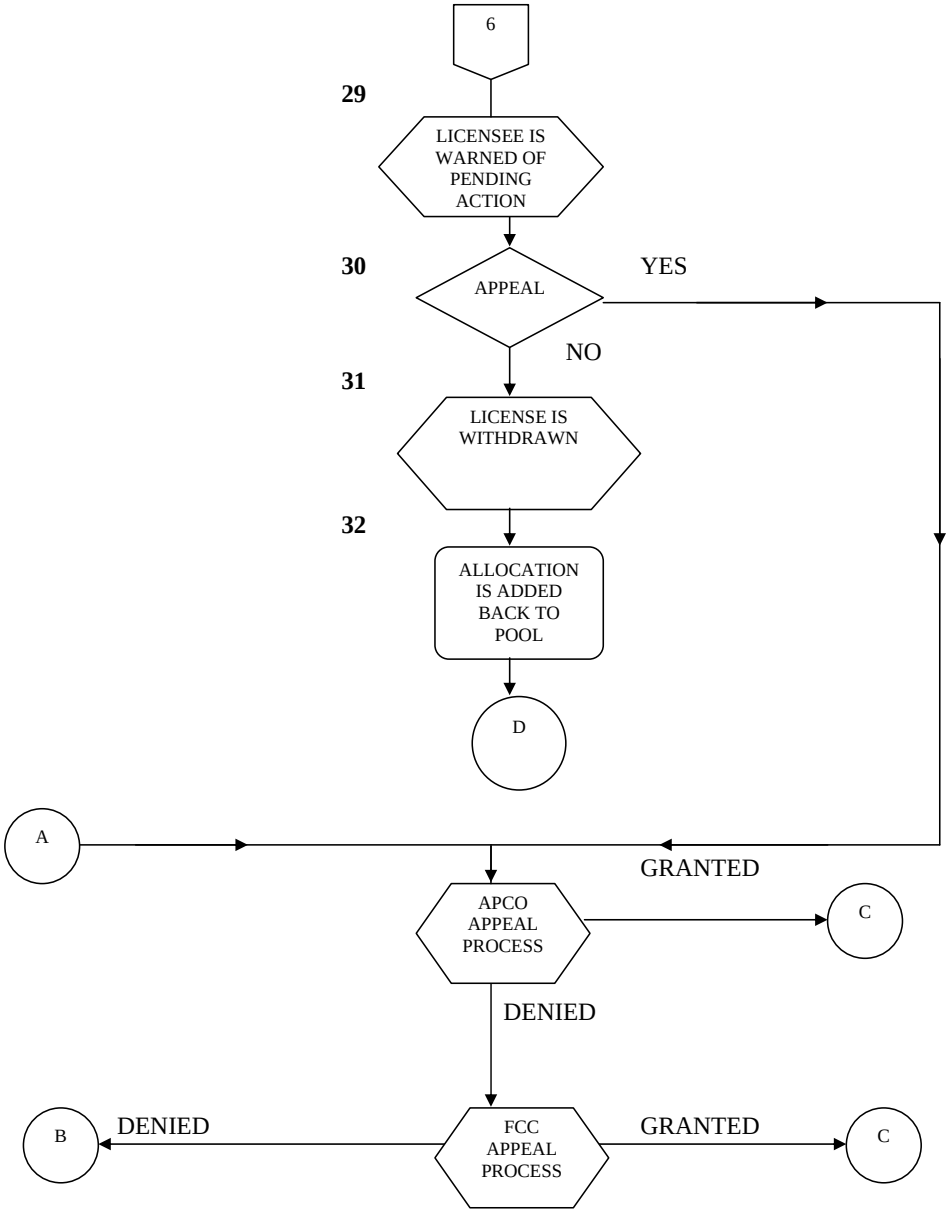



2
9
COMMITTEE APPLIES EVALUATION MATRIX
10
NEEDS ASSESSMENT REVIEW
10A
no
800 MHz SHORTAGE
GO TO BLOCK 20
11
I. SERVICE
350 PTS MAX
PTS. FOR SERVICE X 10
F
12
II. INTERSYSTEMS COMMUNICATIONS
0-100 PTS
DEGREE OF INTERCP.
F
13
III. LOADING
3


3
0-100 PTS.
COOPERATIVE SYSTEM
0-50 PTS
EXPANSION OF EXISTING SYSTEMS
0 PTS
SINGLE USER
F
14
IV. SPECTRUM EFFICIENT TECHNOLOGY
0-100 PTS
DEGREE OF SPECTRUM EFFICIENCY
F
15
SYSTEM IMPLEMENTATION FACTORS
0-50 PTS
DEGREE OF BUDGET COMMITMENT
0-50 PTS
DEGREE OF PLANNING COMMITMENT
F
4


4
16
VI.
GEOGRAPHIC
EFFICIENCY
RATIO OF
MOBILES
TO AREA
0-50 PTS.
CHANNEL
REUSE
POTENTIAL
0-50 PTS
F
17
VII
GIVEBACKS
0-50 PTS
# OF
CHANNELS
AVAILABLE
TO OTHERS
0-50 PTS
F
18
F
TOTAL
POINTS
I-V11
19
APPLICATIONS
ARE PRIORITIZED
BY COMMITTEE
C
APPEAL
GRANTED
5


5
20
FREQUENCY POOL IS ALLOCATED
REGIONAL PLAN APPENDIX IS UPDATED
21
FCC APPROVAL PROCESS
22
APCO COORDINATION
23
FCC GRANTS LICENSE
24
SYSTEM IMPLEMENTATION IS MONITORED
26
25
SYSTEM IS IMPLEMENTED
YES
PROGRESS IS MADE
NO
27
LICENSEE IS WARNED OF LACK OF PROGRESS
28
YES
PROGRESS IS MADE
NO
6


6
29
LICENSEE IS WARNED OF PENDING ACTION
30
APPEAL
YES
NO
31
LICENSE IS WITHDRAWN
32
ALLOCATION IS ADDED BACK TO POOL
D
A
GRANTED
APCO APPEAL PROCESS
C
DENIED
B
DENIED
FCC APPEAL PROCESS
GRANTED
C

## APPENDIX B

POPULATION FIGURES BY STATE BY COUNTY

MASSACHUSETTS

| COUNTY | POPULATION |
|---|---|
| BARNSTABLE | 161,939 |
| BERKSHIRE | 136,744 |
| BRISTOL | 468,228 |
| DUKES | 10,023 |
| ESSEX | 624,058 |
| FRANKLIN | 64,851 |
| HAMPDEN | 438,119 |
| HAMPSHIRE | 138,534 |
| MIDDLESEX | 1,347,546 |
| NANTUCKET | 5,959 |
| NORFOLK | 60,4613 |
| PLYMOUTH | 415,118 |
| SUFFOLK | 622,180 |
| WORCESTER | 648,529 |

CONNECTICUT

| COUNTY | POPULATION |
|---|---|
| HARTFORD | 825,200 |
| NEW LONDON | 246,400 |
| TOLLAND | 121,500 |
| WINDHAM | 96,800 |

RHODE ISLAND

| COUNTY | POPULATION |
|---|---|
| BRISTOL | 47,700 |
| KENT | 159,500 |
| NEWPORT | 84,800 |
| PROVIDENCE | 581,700 |
| WASHINGTON | 101,300 |

NEW HAMPSHIRE

| COUNTY | POPULATION |
|---|---|
| BELKNAP | 47,100 |
| CARROLL | 31,700 |
| CHESHIRE | 66,900 |
| COOS | 34,000 |
| GRAFTON | 69,600 |
| HILLSBOROUGH | 314,300 |
| MERRIMACK | 109,700 |
| ROCKINGHAM | 221,800 |
| STRAFFORD | 94,00 |
| SULLIVAN | 37,800 |

VERMONT

| COUNTY | POPULATION |
|---|---|
| ADDISON | 31,400 |
| BENNINGTON | 35,200 |
| CALEDONIA | 26,700 |
| CHITTENDEN | 124,800 |
| ESSEX | 6,700 |
| FRANKLIN | 37,200 |
| GRAND ISLE | 5,300 |
| LAMOILLE | 18,100 |
| ORANGE | 24,100 |
| ORLEANS | 24,100 |
| RUTLAND | 60,000 |
| WASHINGTON | 53,900 |
| WINDHAM | 39,900 |
| WINDSOR | 53,700 |

MAINE

| COUNTY | POPULATION |
|---|---|
| ANDROSCOGGIN | 101,100 |
| AROOSTOOK | 87,900 |
| CUMBERLAND | 228,100 |
| FRANKLIN | 29,100 |
| HANCOCK | 44,000 |
| KENNEBEC | 112,000 |
| KNOX | 35,100 |
| LINCOLN | 28,300 |
| OXFORD | 50,200 |

| | |
|---|---|
| PENOBSCOT | 138,200 |
| PISTAQUIS | 18,000 |
| SAGADAHOC | 31,700 |
| SOMERSET | 47,100 |
| WALDO | 30,100 |
| WASHINGTON | 33,900 |
| YORK | 158,800 |

# APPENDIX C

1989 POPULATION DENSITY BY STATE BY COUNTY

MASSACHUSETTS

| COUNTY | PEOPLE PER SQUARE MILE |
|---|---|
| BARNSTABLE | 411 |
| BERKSHIRE | 146 |
| BRISTOL | 845 |
| DUKES | 95 |
| ESSEX | 1251 |
| FRANKLIN | 92 |
| HAMPDEN | 704 |
| HAMPSHIRE | 262 |
| MIDDLESEX | 2546 |
| NANTUCKET | 120 |
| NORFOLK | 1515 |
| PLYMOUTH | 626 |
| SUFFOLK | 12994 |
| WORCESTER | 429 |

CONNECTICUT (COUNTIES IN REGION 19)

| COUNTY | PEOPLE PER SQUARE MILE |
|---|---|
| HARTFORD | 1116 |
| NEW LONDON | 368 |
| TOLLAND | 295 |
| WINDHAM | 188 |

RHODE ISLAND

| COUNTY | PEOPLE PER SQUARE MILE |
|---|---|
| BRISTOL | 1825 |
| KENT | 927 |
| NEWPORT | 793 |
| PROVIDENCE | 1398 |
| WASHINGTON | 304 |

NEW HAMPSHIRE

| COUNTY | PEOPLE PER SQUARE MILE |
|---|---|
| BELKNAP | 116 |
| CARROLL | 34 |
| CHESHIRE | 94 |
| COOS | 19 |
| GRAFTON | 359 |
| HILLSBOROUGH | 117 |
| MERRIMACK | 317 |
| ROCKINGHAM | 254 |
| STRAFFORD | 70 |
| SULLIVAN | 38 |

VERMONT

| COUNTY | PEOPLE PER SQUARE MILE |
|---|---|
| ADDISON | 41 |
| BENNINGTON | 52 |
| CALEDONIA | 41 |
| CHITTENDEN | 231 |
| ESSEX | 10 |
| FRANKLIN | 57 |
| GRAND ISLE | 59 |
| LAMOILLE | 39 |
| ORANGE | 35 |
| ORLEANS | 35 |
| RUTLAND | 64 |
| WASHINGTON | 78 |
| WINDHAM | 51 |
| WINDSOR | 55 |

MAINE

| COUNTY | PEOPLE PER SQUARE MILE |
|---|---|
| ANDROSCOGGIN | 212 |
| AROOSTOOK | 13 |
| CUMBERLAND | 260 |
| FRANKLIN | 17 |
| HANCOCK | 29 |
| KENNEBEC | 128 |
| KNOX | 95 |
| LINCOLN | 62 |
| OXFORD | 25 |
| PENOBSCOT | 40 |
| PISTAQUIS | 5 |
| SAGADAHOC | 123 |
| SOMERSET | 12 |
| WALDO | 41 |
| WASHINGTON | 13 |
| YORK | 158 |

## Appendix C (Update)

## NEW ENGLAND 806 MHz REGION 19 DESCRIPTION AND MAP

New England Region 19 comprises six states: Maine, New Hampshire and Vermont to the north, Massachusetts, Rhode Island and four of the following counties in Connecticut; Hartford, Tolland, Windham, and New London. The three northern states border Canada. The western regional border is adjacent to New York state and four of the following counties in Connecticut; Litchfield, Fairfield, New Haven and Middlesex. The eastern and parts of the southern borders meet the Atlantic Ocean and Long Island Sound.

The region's topography is diverse. "The key topographic influence are the Appalachian mountains, which run north from western Connecticut and Massachusetts, into the Green Mountains of Vermont, and the White Mountains of New Hampshire, terminating in Maine. The trademark rocky coastline of Maine, sandy beaches and dunes of New Hampshire, Massachusetts, and Rhode Island, and Connecticut, offer the interface between the land mass of New England and the waters of the Atlantic Ocean and Long Island Sound. Bridging the gap between the ocean and mountains" are coastal plain and rolling hills.[1] The highest point is Mount Washington in New Hampshire which rises 6,288 feet above sea level. The lowest elevation is sea level for the states bordering the Atlantic Ocean and Long Island Sound. The region encompasses 62,810 square miles with a population of 13,562,517.[2] Population characteristics very considerably.

The northern states - Maine, New Hampshire, Vermont - are sparsely populated relative to the region as a whole. While these states comprise 78% of the geographical region (49,080 square miles), they account for 23% of the region's population (3, 119,536). The average population density for these three states combined is 64 persons per square mile. Within these states, the population density ranges from four persons per square mile (Piscataquis County, Maine) to 435 persons per square mile (Hillsborough County, New Hampshire). There is one city with a population of over 100,000, Manchester, New Hampshire (population 107,006).

The population of the region's southern states - Massachusetts, Connecticut and Rhode Island - reflect a more urban nature. This remaining geographic area comprises 22% of the geographic area (13,730 square miles) but 77% of the population (10,442,981) with an average density of 761 persons per square mile. However, within these states, there is a wide range in population density ranging from 102 persons per square mile (Franklin County, Massachusetts) to 11,788 persons per square mile (Suffolk County, Massachusetts). There are 11 cities with populations of over 100,000 in these states, the most populous being Boston, Massachusetts (population 589,141).

A complete listing of the region's states and counties is found in Appendix C-1.

Clearly, the geographic and demographic diversity within Region 19 presents both operational and structural challenges in the development and administration of the comprehensive management plan.

1. "The New England Weather Network: A Shared 21st Century Vision For Environmental Monitoring and Science Education In The New England States," University of Maine Robust Instrumentation Laboratory website http://www.eece.maine.edu/EE/RIL/ updated 08-04-00.

2. County population data taken from:
   U.S. Census Bureau, Census 2000 Summary file 1, Matrices PCT 12 and 13.
   Population density data taken from:
   U.S. Census Bureau, Census 2000 QuickFacts state and county tables.
   Cities with population over 100,000 data taken from:
   U.S. Census Bureau, Table SUB-EST2002-01, City and Town Population Estimates:
   April 1, 2000 to July 1, 2002.

# Appendix C-1

| County and State | Population | % of Population | Square Miles | Persons / Square Mile |
|---|---|---|---|---|
| ***Connecticut*** | ***3,405,565*** | ***100%*** | ***4,845*** | ***703*** |
| Fairfield | 882,567 | 25.9% | 626 | 1,410 |
| Hartford | 857,183 | 25.2% | 735 | 1,166 |
| Litchfield | 182,193 | 5.3% | 920 | 198 |
| Middlesex | 155,071 | 4.6% | 369 | 420 |
| New Haven | 824,008 | 24.2% | 606 | 1,361 |
| New London | 259,088 | 7.6% | 666 | 389 |
| Tolland | 136,364 | 4.0% | 410 | 333 |
| Windham | 109,091 | 3.2% | 513 | 213 |
| ***Maine*** | ***1,274,923*** | ***100%*** | ***30,862*** | ***41*** |
| Androscoggin | 103,793 | 8.1% | 470 | 221 |
| Aroostook | 73,938 | 5.8% | 6,672 | 11 |
| Cumberland | 265,612 | 20.8% | 836 | 318 |
| Franklin | 29,467 | 2.3% | 1,698 | 17 |
| Hancock | 51,791 | 4.1% | 1,588 | 33 |
| Kennebec | 117,114 | 9.2% | 868 | 135 |
| Knox | 39,618 | 3.1% | 366 | 108 |
| Lincoln | 33,616 | 2.6% | 456 | 74 |
| Oxford | 54,755 | 4.3% | 2,078 | 26 |
| Penobscot | 144,919 | 11.4% | 3,396 | 43 |
| Piscataquis | 17,235 | 1.4% | 3,966 | 4 |
| Sagadahoc | 35,214 | 2.8% | 254 | 139 |
| Somerset | 50,888 | 4.0% | 3,926 | 13 |
| Waldo | 36,280 | 2.8% | 730 | 50 |
| Washington | 33,941 | 2.7% | 2,568 | 13 |
| York | 186,742 | 14.6% | 991 | 189 |
| ***Massachusetts*** | ***6,349,097*** | ***100%*** | ***7,840*** | ***810*** |
| Barnstable | 222,230 | 3.5% | 396 | 562 |
| Berkshire | 134,953 | 2.1% | 931 | 145 |
| Bristol | 534,678 | 8.4% | 556 | 962 |
| Dukes | 14,987 | 0.2% | 104 | 144 |
| Essex | 723,419 | 11.4% | 501 | 1,445 |
| Franklin | 71,535 | 1.1% | 702 | 102 |
| Hampden | 456,228 | 7.2% | 618 | 738 |
| Hampshire | 152,251 | 2.4% | 529 | 288 |
| Middlesex | 1,465,396 | 23.1% | 823 | 1,780 |
| Nantucket | 9,520 | 0.1% | 48 | 199 |

Source: US Census Bureau , Census 2000 files:
Census 2000 Summary File 1, Matrices PCT-12 and P13. QuickFacts for
Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont.

| County and State | Population | % of Population | Square Miles | Persons / Square Mile |
|---|---|---|---|---|
| ***Massachusetts*** | ***6,349,097*** | ***100%*** | ***7,840*** | ***810*** |
| Norfolk | 650,308 | 10.2% | 400 | 1,628 |
| Plymouth | 472,822 | 7.4% | 661 | 716 |
| Suffolk | 689,807 | 10.9% | 59 | 11,788 |
| Worchester | 750,963 | 11.8% | 1,513 | 496 |
| ***New Hampshire*** | ***1,235,786*** | ***100%*** | ***8,968*** | ***138*** |
| Belknap | 56,325 | 4.6% | 401 | 140 |
| Carroll | 43,666 | 3.5% | 934 | 47 |
| Cheshire | 73,825 | 6.0% | 707 | 104 |
| Coos | 33,111 | 2.7% | 1,800 | 18 |
| Grafton | 81,743 | 6.6% | 1,713 | 48 |
| Hillsborough | 380,841 | 30.8% | 876 | 435 |
| Merrimack | 136,225 | 11.0% | 934 | 146 |
| Rockingham | 277,359 | 22.4% | 695 | 399 |
| Strafford | 112,233 | 9.1% | 369 | 304 |
| Sullivan | 40,458 | 3.3% | 537 | 75 |
| ***Rhode Island*** | ***1,048,319*** | ***100%*** | ***1,045*** | ***1,003*** |
| Bristol | 50,648 | 4.8% | 25 | 2,052 |
| Kent | 167,090 | 15.9% | 170 | 982 |
| Newport | 85,433 | 8.1% | 104 | 821 |
| Providence | 621,602 | 59.3% | 413 | 1,504 |
| Washington | 123,546 | 11.8% | 333 | 371 |
| ***Vermont*** | ***608,827*** | ***100%*** | ***9,250*** | ***66*** |
| Addison | 35,974 | 5.9% | 770 | 47 |
| Bennington | 36,994 | 6.1% | 676 | 55 |
| Caledoonia | 29,702 | 4.9% | 651 | 46 |
| Chittenden | 146,571 | 24.1% | 539 | 272 |
| Essex | 6,459 | 1.1% | 665 | 10 |
| Franklin | 45,417 | 7.5% | 637 | 71 |
| Grand Isle | 6,901 | 1.1% | 83 | 84 |
| Lamoille | 23,233 | 3.8% | 461 | 50 |
| Orange | 28,226 | 4.6% | 689 | 41 |
| Orleans | 26,277 | 4.3% | 698 | 38 |
| Rutland | 63,400 | 10.4% | 933 | 68 |
| Washington | 58,039 | 9.5% | 689 | 84 |
| Windham | 44,216 | 7.3% | 789 | 56 |
| Windsor | 57,418 | 9.4% | 971 | 59 |
| ***Total*** | **13,922,517** | | **62,810** | **222** |

# APPENDIX D

NEW ENGLAND REGIONAL PLANNING COMMITTEE (REGION 19)

| SERVICE POINT RATING | MIN VAL | AVE VAL | MAX VAL | POINT |
|---|---|---|---|---|
| All Local Government (Avg) | 6.8 | 11.6 | 16.6 | 116 |
| Transit Systems | 0.0 | 13.9 | 25.0 | 139 |
| Utility Operations | 0.0 | 15.3 | 30. | 153 |
| School Boards | 0.0 | 6.9 | 20. | 69 |
| Administration | 0.0 | 9.3 | 25. | 93 |
| Maintenance | 0.0 | 10.2 | 26.0 | 102 |
| Security Patrols | 0.0 | 13.3 | 30.0 | 133 |
| Emergency Management | 0.0 | 16.6 | 35.0 | 166 |
| Other Functions | 0.0 | 6.8 | 25.0 | 68 |
| | | | | |
| Primary Police | 35.00 | 35.00 | 35.0 | 350 |
| Auxiliary Police | 0.0 | 17.7 | 35.0 | 177 |
| | | | | |
| Fire | 25.0 | 34.0 | 35.0 | 340 |
| | | | | |
| Highway | 2.0 | 20.5 | 35.0 | 205 |
| | | | | |
| Forest Fire | 0.0 | 24.2 | 35.0 | 242 |
| Conservation | 0.0 | 15.6 | 35.0 | 156 |
| | | | | |
| All Medical Services (Avg) | 8.1 | 12.0 | 19.4 | 120 |
| | | | | |
| Hospitals | 5.0 | 19.4 | 35.0 | 194 |
| Invalid Coach | 0.0 | 8.5 | 30.0 | 85 |
| Physicians | 0.0 | 8.1 | 30. | 81 |
| | | | | |
| Municipal Emergency Medical | 10.0 | 29.6 | 35.0 | 296 |
| Volunteer Rescue Squads | 10.0 | 22.0 | 35.0 | 220 |
| Ambulance Service | 0.0 | 8.5 | 30.0 | 85 |
| | | | | |
| Physically Handicapped | 0.0 | 9.0 | 20.0 | 90 |
| | | | | |
| Veterinarians | 0.0 | 3.6 | 15.0 | 36 |
| | | | | |
| Disaster Relief Orgs. | 0.0 | 15.0 | 30.0 | 150 |
| | | | | |
| All School Buses (Avg) | 6.2 | 9.2 | 13.7 | 92 |
| | | | | |
| Private Under Contract | 0.0 | 6.2 | 20.0 | 62 |
| Municipal Operated | 0.0 | 7.7 | 15.0 | 77 |
| Part of OEM EVAC | 0.0 | 13.7 | 25.0 | 137 |
| | | | | |
| Beach Patrols | 0.00 | 12.7 | 31.0 | 127 |
| | | | | |
| Isolated Areas | 0.0 | 7.2 | 21.0 | 72 |
| | | | | |
| Comm Standby Facilities | 0.00 | 10.2 | 30.0 | 102 |
| | | | | |
| Repair of Comm Facilities | 0.00 | 12.3 | 30.0 | 123 |

**APPENDIX E**

MAP OF PRIMARY AND SECONDARY AREAS

# APPENDIX F

## ORIGINAL FREQUENCY ASSIGNMENT METHODOLOGY

### INTRODUCTION

This computer program was developed in cooperation with the Association of Public Safety Communications Officers, Inc. The purpose of the computer program is to assign frequencies to specific eligibles, and to frequency pools for future assignments. The assignments must be done in a manner which represents a high degree of spectrum efficiency and result in a low probability of co-channel and adjacent channel interference.

Since the desired output is a geographic sorting of frequencies, a method of defining geography must be part of the input. A list of the number of channels to be assigned in each geographic area is also required, along with the name of the eligible of poll. Acceptable interference probabilities are determined for the region. Frequency assignments are then made using a computer program which satisfies the goals of spectrum efficiency and interference protection.

### Where are the Channels to be Allocated?

For the purpose of this frequency sort, a geographic area is to be defined as one or more circles of equal radius. To the degree practical, this circle or circle should include the entire area of the eligible's geo-political boundary, but not exceed the boundary by more than three miles. The procedure is to gather maps of sufficient detail, outline the areas to be defined, determine the coordinates and radius of the circles which define each area and tabulate the data.

### Define the Environment

The environment of each system is defined according to the following criteria as input to the program:

1. Urban is a built-up city crowded with large building or closely interspersed with houses and thickly-grown trees. This would include the downtown area of a major city.

2. Suburban is a city or highway scattered with trees, houses, and building. This would include the non-downtown area of a major city.

3. Open is an area where there are not obstacles such as tall trees or building in the propagation path or a plot of land which is cleared of anything for 300-400 meters ahead. This would include farm land, open fields, etc.

4. Quasi-open is an area between suburban and open areas. This included areas outside of city limits that have few building and houses.

### Transmitter Combining

The computer program is designed to provide a minimum frequency separation between any two channels assigned to the same eligible at the same site. This separation is provided in order to enable more efficient combining of multiple transmitters to a single antenna. These separated blocks of frequencies also have a maximum size. That is to say, if the eligible has more frequencies than the maximum size of the combining block, then a new compatible block is created.

Each of these parameters is adjustable in the program on a global basis. The parameters chosen are 0.25 MHz minimum spacing and five channel blocks.

Protection Ratios

There are two interference protection ratios built into the computer program. One is for the co-channel case, and the other is for the adjacent channel case. The ratios provide 35 dB Desired/Undesired signal ratio for co-channel assignments, and 15 dB Desired/Undesired ratio for the adjacent channel case. These ratios provide an acceptable probability of interference for public safety services.

What the Program Does

1. Input data for the Region
   -Name (entity-county)
   - Coordinates
   - Range
   - Environment
   - Blocked/Protected Channels
   - Even/odd channel requirements

2. Select Parameters
   - Combiner spacing
   - Maximum spectrum to be used
   - Number of iterations allowed
   - Protection Ratios for co-channel and adjacent channels

3. Computer determines an ERP/Antenna height combination which places the 40 dBu point at the range specified, in the environment specified for each system.

4. Computer calculates distances between all possible combinations of single site and multiple site systems.

5. The computer uses its input table to determine compatible assignments such that the signal strength at a co-channel assignee's boundary is <+25 dBu.

6. If the maximum spectrum allowed is filled before all systems are assigned channels, then the list is re-ordered according to the difficulty of assignments, and another iteration is made.

7. If the maximum number of iterations is reached before all assignments are satisfied, the maximum spectrum allowed is increased and the process begins again. The maximum spectrum allowed is initially set at a value which will fail to find a solution. By increasing its value on successive attempts, the first successful run should be the most spectrum efficient case this program will ever find.

## CURRENT FREQUENCY ASSIGNMENT METHODOLOGY

New England Region 19 technical committee members will be responsible for channel assignment(s) in the 806-809/851-854MHz spectrum band. Applicant channel assignment(s) will be based on the technical parameters identified in a completed FCC Region 19 Application 806-809MHz Channels (Appendix J). SpectrumWatch[1], Radiosoft Comstudy[2] Version 2.2 (APCO provided version) will be utilized to identify prospective channel(s). The applicants will be given their jurisdictional boundaries, plus 5Km to 8Km, to ensure adequate signal strength. Adequate interference protection must be taken into design consideration to protect co-channel and adjacent channel licensees.

### Frequency Selection and Modeling Tools

SpectrumWatch is a FCC authorized, web base database for the selection of land mobile licenses. SpectrumWatch enables frequency sorts based on existing transmitters/mobiles latitude and longitude to prospective frequency(s) latitude and longitude and identifies in a database format the licensed entity(s) parameters (distance, Lat. and Long., station class, power, ERP, ect.). Prospective frequencies are evaluated based on the application that was submitted to Region 19. Frequencies with a maximum offset of 12.5 KHz will be considered for assignment. Once a prospective frequency(s) is identified, co-channel and adjacent channel licensee's site parameters are collected and exported to Comstudy.

Comstudy software is a windows-base program providing radio frequency propagation and interference predictions. Comstudy enables the technical committee of Region 19 the ability to virtually engineer, radio tower sites and antenna patterns to anticipate the potential for harmful RF (radio frequency) interference to co and adjacent incumbents when selecting prospective frequency(s) for an applicant. Region 19 utilizes the following parameters for propagation prediction:

*Model:* Okumura-Hata
*Area Type:* Open
*Contour*: Matrix Based
*Contour* Type: Median
*Land Use Attenuation:* Does not apply
*Mobile Receiver Height:* 1.5m above ground elevation
*Size of FS Matrix Cell:* 30 " ˜ 1Km (size by area)

Deleted: ¶

[1] SpectrumWatch, a Division of SiteSafe, Inc.
[2] RadioSoft®, A Division of Mountain Tower Ltd., Version 2.2, US Eastern Terrain and Mapping

## Propagation Contours

The Region 19 technical committee members evaluate frequency(s) based on the 40dBu V/m, 25dBu V/m and 5dBu V/m contours for each proposed site. The 40dBu V/m service contour will extend an additional 5Km to 8Km beyond the applicant's jurisdictional boundaries to ensure sufficient RF coverage. The following data is taken into account when calculating the contours:

- AGL (Above Ground Elevation)
- AMSL (Above Mean Sea Level)
- ERP (Effective Radiated Power)
- Longitude and Latitude in NAD83
- Antenna specifications[3]
- HAAT (Height Above Average Terrain)
- Terrain Data
- Analog/Digital/Trunked
- Modulation Emission

| ***Modulation Type*** | ***Usage Type*** |
|---|---|
| FM UHF/800 +/-5kHz | 800 Wideband Mode |
| FM 821 +/-4 kHz | NPSPAC/Analog |
| FM 821 DVP | NPSPAC/Digital |
| C4FM all =/-2.8kHz | Project-25 |
| EDCAS @ 12.5 all | Ericsson Narrowband |

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¶
¶

## Co-channel Analysis

Current licensees within a radius of 150Km of the proposed site(s) will be considered in the co-channel interference evaluation. The proposed site(s) calculated 5dBu V/m contour must not overlap a co-channel incumbent's 40dBu V/m service contour within their licensed jurisdictional area or area of operations. Frequency(s) are evaluated on a site by site basis.

[3] The proposed site(s) antenna specification must include vertical and horizontal beamwidth, make and model, gain, antenna height and azimuth.

## Adjacent Channel Analysis

Current licensees within a radius of 60Km of the proposed site(s) will be considered in the adjacent channel interference evaluation. The proposed site(s) calculated 25dBu V/m contour must not overlap an adjacent channel incumbent's 40dBu V/m service contour within their licensed jurisdictional area or area of operations. Upper and lower adjacent channels incumbents with 12.5 KHz offset will be subject to an interference study. Frequency(s) are evaluated on a site by site basis. Adjacent channel analysis may not be required based on the RF bandwidth of the channel under analysis.

## Approval

Deleted: ¶
¶

New England Region 19 committee members will provide to the Region 19 committee its selection of frequencies for submission to the FCC on behalf of the applicant.

**APPENDIX G**

MEMBERS OF THE ORIGINAL COMMITTEE (SUB-COMMITTEE)

| | |
|---|---|
| CHAIRMAN | Donald C. Nagle, Jr.<br>Metropolitan Police Department<br>20 Somerset St<br>Boston, Ma. 02108 |
| COMMITTEE SECRETARY | Kathleen Washington<br>Metropolitan Police Department<br>20 Somerset St<br>Boston, Ma. 02108 |
| SCOPE AND AUTHORITY | Joseph McNeil<br>Southeastern Massachusetts EMS<br>Council<br>P.O. Box 1197<br>Hyannis, Ma. 02601<br>508-771-4510 |
| COMMUNICATIONS REQUIREMENTS | George Davis<br>Connecticut State Police<br>294 Colony Street<br>Meriden, Ct. 06450<br>203-238-6573 |
| PLAN IMPLEMENTATION PROCEDURES | James Blesso<br>George Pohorilak<br>Robert DiBella<br>Connecticut Bureau of Statewide<br>Emergency Telecommunications<br>20 Grand St.<br>Hartford, Ct. 06106<br>203-566-3243 |
| SPECTRUM UTILIZATION | Michael Mangini<br>Boston EMS<br>727 Massachusetts Ave<br>Boston MA 02118 |
| | Howard Baker<br>Greater Boston Police Council<br>258 Plain St<br>Norton, Ma. 02766 |
| | Ralph Thompson<br>Worcester Fire Department<br>11 Varney St.<br>Worcester, Ma. 01650 |
| TECHNOLOGY | Ralph Swenson<br>Barnstable County Police<br>Main St.<br>Barnstable, Ma. 02630 |
| | John Pineau<br>Boston Police Department<br>85 Williams St.<br>Hyde Park, Ma. 02136<br>617-247-4214 |

# Current Membership

# NEW ENGLAND REGION 19
# REGIONAL PLANNING COMMITTEE MEMBERS & CONTACT INFORMATION

| Name | Work Phone | Fax Number | Email Address | Member Org |
|---|---|---|---|---|
| Aiken, Douglas M. | (603) 528-9111 | (603) 528-5989 | daiken@imsasafety.org | RI IMSA |
| Bardwell, Thomas | (603) 271-2421 | (603) 271-6629 | thomas.bardwell@dos.nh.gov | NH Police |
| Brooks, Joseph | (617) 343-2875 | (617) 343-3060 | Joeb.bfd@ci.boston.ma.us | MA Fire |
| Brown, Stephan | (860) 292-2065 | (860) 292-2051 | sbrown@bradleyairport.com | CT Highway |
| Carbonell, George | (860) 205-0761 | (860) 568-0492 | georgec35@comcast.net | CT AASHTO |
| Chase, David | (603) 271-6862 | (860) 271-8626 | dchase@dot.state.nh.us | NH Highway |
| Crotty, Thomas | (401) 444-1185 | (401) 444-1186 | tcrotty@risp.dps.ri.us | RI State Police |
| Derdak, Elliot A. | (617) 343-1140 | (617) 343-1199 | derdak@bostonems.org | MA EMS |
| Dooley, John | (781) 729-4400 | (781) 729-4420 | jdooley@winchester.us | MA At-Large |
| Glancy, Brian | (401) 789-2211 | none | bjglancy@verizon.net | RI EMA-ICC |
| Gutowski, Gary | (508) 820-2121 | (617) 727-5051 | gary.gutowski@pol.state.ma.us | MA State Police |
| Hoxsie, Dean | (401) 789-1091 | (401) 789-8819 | dhoxsie@narragansettri.gov | RI Local Police |
| Kowalik, James R. | (603) 271-2421 | (603) 271-6629 | james.kowalik@dos.nh.gov | NH APCO |
| Leary, Paul M. | (603) 271-2217 | (603) 271-6488 | pleary@dred.state.nh.us | NH FCCA |
| Mansfield, William (Bill) | (603) 594-3521 | (603) 594-3615 | mansfieldw@pd.ci.nashua.nh.us | NH At-Large |
| Masciadrelli, John | (860) 685-8106 | (860) 685-8363 | john.masciadrelli@po.state.ct.us | CT OSET |
| McGarry, Joseph | (401) 243-6001 | (401) 243-6445 | jmcgarry@providenceri.com | RI At-Large |
| Muise, Tom | (508) 820-2023 | (508) 875-2517 | tom.muise@mema.state.ma.us | MA Emerg Mgt |
| O'Brien, Arthur | (617) 973-8126 | (617) 973-8037 | arthur.obrien@state.ma.us | MA AASHTO |
| Plante, William | (207) 287-3426 | (207) 287-6218 | william.plante@maine.gov | ME AASHTO |
| Poole, Mark W. | (207) 624-7091 | (207) 624-7088 | mark.w.poole@maine.gov | ME APCO |
| Otto, Jeff | (860) 774-7555 | (860) 779-0712 | jotto@snet.net | CT Regional |
| Savary, Lee | (603) 271-6862 | (603) 271-6084 | Lsavary@dot.state.nh.us | NH AASHTO |
| Stevens, Jeff | (401) 222-4783 | (401) 222-6953 | jeffrey.stevens@health.ri.gov | RI Health |
| Sutherland, C. Blair | (508) 820-2264 | (617) 727-5051 | blair.sutherland@pol.state.ma.us | MA State Police |
| Verbil, Stephen | (860) 685-8127 | (860) 685-8363 | stephen.verbil@po.state.ct.us | CT At-Large |
| Walsh, Michael | (401) 462-7188 | (401) 944-1891 | Michael.walsh14@us.army.mil | RI EMA-RISCON |
| Walsh, Thomas M. | (860) 566-4737 | (860) 247-0664 | thomas.walsh@po.state.ct.us | CT Emerg Mgt |
| Warakois, James | (617) 343-4214 | (617) 325-2352 | warakoisj@apco911.org | MA APCO |
| Wood, Bill | (603) 271-4615 | (603) 271-4567 | bwood@safety.state.nh.us | NH EMS |
| Wright, Scott | (860) 685-8280 | (860) 685- 8345 | scott.wright@po.state.ct.us | CT EMS |
| Zarwanski, Jerry | (860) 685-8157 | (860) 685-8363 | jerry.zarwanski@po.state.ct.us | CT APCO |
| Zito, Paul | (860) 685-8447 | (860) 685-8345 | paul.zito@po.state.ct.us | CT State Police |
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# APPENDIX H

ORIGINAL NOTIFICATION LIST OF FIRST MEETING

| | |
|---|---|
| David Troup<br>Boston Police Department<br>400 Frontage Rd<br>Boston, Ma 02118 | George Davis<br>Connecticut State Police<br>294 Colony St<br>Meriden, Ct. 06450 |
| Robert Cruikshank<br>Motorola, Inc.<br>45 Rumford Ave<br>Waltham, Ma. 02154 | Richard Neal<br>Motorola, Inc.<br>45 Rumford Ave<br>Waltham, Ma. 02154 |
| Lt. Rusty Hemenway<br>U.S. Coast Guard<br>408 Atlantic Ave.<br>Boston, Ma 02110 | Stephen Annett<br>U.S. Coast Guard<br>408 Atlantic Ave.<br>Boston, Ma 02110 |
| James Blesso<br>Ct. Bureau of Statewide Emergency<br>Telecommunications<br>20 Grand St<br>Hartford, Ct. 06106 | Joseph McNeil<br>Southern Eastern Ma. EMS Council<br>PO Box 1197<br>Hartford, Ct 02601 |
| Robert DiBella<br>Ct. Bureau of Statewide Emergency<br>Telecommunications<br>20 Grand St<br>Hartford, Ct. 06106 | Edward Hennequin<br>Ct. Bureau of Statewide Emerg.<br>Telecommunications<br>20 Grand St.<br>Hartford, Ct 06106 |
| Jack Chapman<br>General Electric Inc.<br>P.O. Box 4034<br>Westborough, Ma. 01581 | Howard Baker<br>Greater Boston Police Council<br>258 Plain St<br>Norton, Ma. 02766 |
| George Pohorilak<br>Ct. Bureau of Statewide Emergency<br>Telecommunications<br>20 Grand St.<br>Hartford, Ct 06106 | Michael Mangini<br>Boston EMS<br>722 Massachusetts Ave.<br>Boston, Ma 02118 |
| John Mahoney<br>Boston Police Department<br>85 Williams St.<br>Hyde Park, Ma. 02136 | Arthur Bower<br>E.F. Johnson Co.<br>14 Orchard St<br>Niantic, Ct 06231 |
| John Record<br>Mass. Bay Transit Authority<br>500 Arborway<br>Jamaica Plain, Ma 02205 | John Marechal<br>SW NH. District Fire Mutual Aid<br>PO Box 175<br>Keene, NH 03431 |
| Ralph Thompson<br>Worcester Fire Department<br>11 Varney St<br>Worcester, Ma. 06105 | John Bieniarz<br>Laconia Police Department<br>51 Church St<br>Laconia, NH 03247 |
| Normand Boucher<br>RAM Communications<br>235 Bear Hill Rd<br>Waltham, Ma 02154 | Anthony Langone<br>RAM Communications<br>235 Bear Hill Rd<br>Waltham, Ma 02154 |

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|---|---|
| Donald Frappier<br>Springfield  Police Department<br>130 Pearl St<br>Springfield, Ma 01105 | Donald C. Nagle, Jr.<br>Metropolitan Police<br>20 Somerset St.<br>Boston, Ma. 02154 |
| Barney Porter<br>American Radio Relay League<br>47 Erin Rd<br>Stoughton, Ma 0105 | Clarence Clay<br>Rhode Island State Police<br>PO Box 185<br>North Scituate, R.I. |
| Fran Reneham<br>Federal Communications Commission<br>1 Battery March Park<br>Quincy, Ma. 02169 | Larry Donahue<br>Providence Police<br>One Communications Place<br>Providence, R.I. 02903 |
| Stan Davies<br>R.I. State Fire Marshall<br>1270 Mineral Spring Ave<br>North Providence, R.I. 02904 | Vincent Stile<br>Suffolk County Police<br>Yaphank Ave<br>Yaphank, NY 11980 |
| Francis Danaher<br>City of Hartford<br>550 Main St.<br>Hartford, Ct 06106 | Diane Boyko<br>Hartford Police Department<br>550 Main St<br>Hartford, Ct. 06106 |
| Al Brackett<br>Hudson Police Department<br>Library St<br>Hudson, NH 03053 | Kathleen Washington<br>Metropolitan Police<br>20 Somerset St.<br>Boston, Ma. 02108 |
| George Jones<br>N.H. Dept. of Resources and Economic Development<br>Prescott Park Building 2<br>105 Loudon Rd<br>Concord, NH 03301 | Charles Coppola<br>Mass. Water Resources Authority<br>410 Rear Rutherford Ave<br>Charlestown, Ma. 02129 |
| Steven Roberts<br>Portland Police<br>109 Middle St<br>Portland, Me. 04101 | Ralph Folsom<br>Maine State Police<br>36 Hospital St<br>Augusta, Me. 04330 |
| Gary Maines<br>Dept. of Transportation<br>Maintenance and Operations<br>Transportation Bldg. 16<br>Augusta, Me. 04333 | Rodney Littlefield<br>Dept. of Conservation<br>Bolton Hill HQ<br>RR 7 Box 1386<br>Augusta, Me 04333 |
| Joe Grimmig<br>Dept. of Emergency Management<br>State Office Bldg.<br>Augusta, Me. 04333 | Ernie Morris<br>Motorola, Inc.<br>778 Main St.<br>Suite E<br>South Portland, Me 04106 |
| Robert MacDonald<br>Mass. Bay Trans Authority<br>500 Arborway<br>Jamaica Plain, Ma. 02130 | Ralph Dandrea<br>21 Arlington ST<br>Charlestown, Ma 02129 |
| Brian Corbett<br>Massport Operations<br>Logan Airport<br>E. Boston, Ma 02128 | George Fernades<br>City of Cambridge<br>489 Broadway St.<br>Cambridge, Ma 02139 |
| Ray Santilli<br>Cambridge Police Department<br>5 Western Ave | Edward Norton<br>City of Boston Public Works Department<br>400 Frontage Rd |

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|---|---|
| Cambridge, Ma 02139 | Boston, Ma 02118 |
| Jerry Connors<br>City of Boston Transportation<br>200 Frontage Rd<br>Boston, Ma 02139 | Albert Wallace<br>City of Boston<br>703 City Hall<br>Boston, Ma. 02118 |
| James Bayer<br>Ct. Dept of Transportation<br>290 West St<br>Rocky Hill, Ct 06450 | Rick Pollack<br>Motorola, Inc.<br>45 Rumford Ave<br>Waltham, Ma 02154 |
| Ralph Swenson<br>Barnstable County Police<br>Main St<br>Barnstable, Ma 02633 | John Pineau<br>Boston Police<br>PO Box 421<br>Reading, Ma 01867 |
| Tom Davis<br>Vt. State Police Department<br>103 S. Main St.<br>Waterbury, Vt | Michael Meehan<br>Burlington Fire Dept.<br>96 Morrill Rd<br>Burlington, Vt |
| Scott Stanton<br>Derry N.H. Emergency Management<br>PO Box 704<br>Derry, NH 03038 | Emil Vogel<br>Motorola, Inc.<br>85 Harrison Rd<br>Glen Rock, NJ |
| Fred Booth<br>NH. State Police<br>Hazen Drice<br>Concord, N.H. | Evans Juris<br>Guilford Police<br>Cherry Hollow Rd<br>Guilford, N.H. |
| Howard Smith<br>NH Dept. of Transportation<br>PO Box 398<br>Hooksett, NH 03105 | Bernie Flynn<br>City of Cambridge Traffic<br>57 Inman St<br>Cambridge, Ma 02129 |
| Chris Cowley<br>MBTA Police<br>275 Dorchester Ave<br>Boston, Ma 02127 | Neil Callahan<br>Mass Water Resources Authority<br>410 Rear Rutherford Ave<br>Charlestown, Ma 02129 |
| Gary Davis<br>MBTA Commuter Rail<br>10 Park Plaza 5th Fl.<br>Boston, Ma 02116 | William MacDonald<br>MBTA Commuter Rail<br>10 Park Plaza 5th Fl.<br>Boston, Ma 02116 |
| Bruce Alexander<br>Dept. of Public Health<br>80 Boylston St<br>Boston, Ma | |

## APPENDIX I

## COMMITTEE OPERATING PROCEDURES

### ARTICLE I

### NAME & PURPOSE

**1.1 Name and Purpose.**
The name of this Region shall be "Region 19 800MHz". Its primary purpose is to foster cooperation, planning, and development of regional plans and the implementation of these plans in the 800 MHz Public Safety Band.

### ARTICLE II

### MEMBERS

For purposes of this Article, the term "member," unless otherwise specified, refers to both voting and non-voting members.

The areas served by the committee are the states of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island and the following four counties in Connecticut; Hartford, Tolland, Windham and New London.

**2.1 Number, Election and Qualification.**
The Regional Committee shall have two classes of members, "voting members" and "non-voting members." New members may be added at annual, special, or regular meetings.

**Voting Members.** Voting members shall consist of one representative from any single agency engaged in public safety eligible to hold a license under 47 CFR 90.20, 47 CFR 90.523 or 47 CFR 2.103.

A single agency shall be allowed no more than one vote for each distinct eligibility, category (e.g. police, fire, EMS, highway) within the agency's organization or political jurisdiction. In voting on any issue, the individual must identify himself/herself and the agency and eligibility category which he or she represents. Members must be representative of eligible organizations from the member states.

**Non-Voting Members.** Non-voting members are all others interested in furthering the goals of public safety communications.

**2.2 Tenure.**
In general, each member shall hold MEMBERSHIP from the date of acceptance until resignation or removal.

**2.3 Powers and Rights.**
In addition to such powers and rights as are vested in them by law or these bylaws, the members shall have such other powers and rights as the membership may determine.

**2.4 Suspension and Removal.**
A representative may be suspended or removed with cause by vote of a majority of members after reasonable notice and opportunity to be heard. Failure to attend at least 25% of meetings held in a calendar year shall be a specific cause for removal from the membership. Removal from the membership is subject to the discretion of the committee.

**2.5 Resignation.**
A member may resign by delivering written resignation to the chairman, vice-chairman, treasurer or secretary of the Regional Committee or to a meeting of the members.

**2.6 Annual Meetings.**
The annual meeting of the members shall be held during the fall of each calendar year. The Committee will meet on a quarterly basis with the annual meeting serving as one of the quarterly meetings. The meetings will rotate through the member states on an established rotational schedule which shall be set at the annual meeting each year. If an annual meeting is not held as herein provided, a special meeting of the members may be held in place thereof with the same force and effect as the annual meeting, and in such case all references in these bylaws, except in this Section 2.6, to the annual meeting of the members shall be deemed to refer to such special meeting. Any such special meeting shall be called, and notice shall be given as provided in Section 2.7 and 2.8.

**2.7 Special Meetings.**
Special meetings of the members may be held at any time and at any place within the Regional Committee area. Special meetings of the members may be called by the chairman or by the vice-chairman; or in case of death, absence, incapacity by any other officer or upon written application of two or more members.

**2.8 Call and Notice.**

**A. Annual meetings.** Reasonable notice of the time and place of special meetings of the members shall be given to each member. Such notice need not specify the purposes of a meeting, unless otherwise required by law or these bylaws or unless there is to be considered at the meeting (i) amendments to these bylaws, (ii) an increase or decrease in the number of members, or (iii) removal or suspension of a member who is an officer. The schedule for the next year's meetings shall be determined at the annual meeting.

**B. Reasonable and sufficient notice.** Except as otherwise expressly provided, it shall be reasonable and sufficient notice to a member to send notice by mail or by e-mail or facsimile at least ten days before the meeting. Addressed to such member at his or her usual or last known business address or to give notice to such member in person or by telephone at least three days before the meeting.

**2.9 Committee Membership/Quorum/Voting.**

**A. Memberships.** One person shall represent each member state from each of the following categories; Police, Fire, EMS, Emergency Management, APCO, AASHTO, IMSA, FCCA, an At-Large Representative and a Highway Representative.

**B. Quorum.** At any meeting of the members, nine eligible members, representing no less than three states, shall constitute a quorum.

**C. Voting.** No single agency shall be allowed more than one vote for each distinct eligibility category within the agency's organization or political jurisdiction. No state may represent more than fifty percent of the total quorum for action on a vote.

**D.** Voting members must attend one scheduled regular meeting annually.

**E.** Any meeting may be adjourned to such date or dates not more than ninety days after the first session of the meeting by a majority of the votes cast upon the question whether or not a quorum is present, and the meeting may be held as adjourned without further notice.

**F.** Each representative state organization will appoint members for their respective states. If a state organization does not appoint a member to the 800MHz Committee, that state slot may be filled with additional at-large member(s). Individuals from eligible categories may apply to the committee for vacant at-large position(s).

**2.10 Action by Vote.**
Each voting member, representing a particular agency (one vote per agency) shall have one vote; non-voting members have no right to vote. When a quorum is present at any meeting, a majority of the votes properly cast by voting members present shall decide any question, including election to any office, unless otherwise provided by law or these bylaws.

**2.11 Action by Writing.**
Any action required or permitted to be taken at any meeting of the members may be taken without a meeting if all members entitled to vote on the matter consent to the action in writing and the written consents are filed with the records of the meetings of the members. Such consents shall be treated for all purposes as a vote at a meeting.

**2.12 Proxies.**
Voting members may vote either in person or by written proxy dated not more than one month before the meeting named therein, which proxies shall be filed before being noted with the secretary or other person responsible for recording the proceedings of the meeting. Unless otherwise specifically limited by their terms, such proxies shall entitle the holders thereof to vote at any adjournment of the meeting but the proxy shall terminate after the final adjournment of such meeting.

**2.13 Voting on One's Own Application.**
At no time can a voting member vote on his/her application.

**2.14 Special Interest Voting.**
A voting member cannot have a commercial interest in any of his/her region and/or adjacent region's application(s) on which he/she is reviewing, approving and/or voting.

## ARTICLE III

## OFFICERS AND AGENTS

**3.1 Number and Qualification.**
The officers of the Regional Committee shall be a chairman, vice-chairman, treasurer, secretary and such other officers, if any, as the voting members may determine. All officers must be voting members of the Regional Committee.

**3.2 Election.**
The officers shall be elected by the voting members at the annual meeting of the members.

**3.3 Tenure.**
The officers shall each hold office until the annual meeting of the members held within one year from the adoption of these bylaws, or until their successor, if any, is chosen or in each case until he or she sooner dies, resigns, is removed or becomes disqualified.

**3.4 Chairman and Vice-Chairman.**
The Chairman shall be the chief executive officer of the Regional Committee and, subject to the control of the voting members, shall have general charge and supervision of the affairs of the Regional Committee. The chairman shall preside at all meetings of the Regional Committee.

The Vice-Chairman shall have such duties and powers as the voting members shall determine. The vice-chairman shall have and may exercise all the powers and duties of the chairman during the absence of the chairman or in the event of his or her inability to act.

**3.5 Treasurer.**
The Treasurer of the Atlantic Chapter of APCO shall serve as the financial officer and the accounting officer of the Regional Committee. The treasurer shall be in charge of its funds and valuable papers, and shall keep full and accurate records thereof.

**3.6 Secretary.**
The secretary shall record and maintain records of all proceedings of the members in a file or series of files kept for that purpose, such file or files shall be kept within the Region and shall be open at all reasonable times to the inspection of any member. Such file or files shall also contain records of all meetings and the original or attested copies of bylaws and names and addresses of all members (including e-mail address, if available).

If the secretary is absent from any meeting of members, a temporary secretary chosen at the meeting shall exercise the duties of the secretary at the meeting.

**3.7 Suspension or Removal.**
An officer may be suspended with cause by vote of a majority of the voting members.

**3.8 Resignation.**
An officer may resign by delivering his or her written resignation to the chairman, vice-chairman, treasurer, or secretary of the Regional Committee. Such resignation shall be effective upon receipt (unless specified to be effective at some other time), and acceptance thereof shall not be necessary to make it effective unless it so states.

**3.9 Vacancies.**
If the office of any officer becomes vacant, the voting members may elect a successor. Each such successor shall hold office for the remainder of the term, and in the case of the chairman, vice-chairman, treasurer and clerk until his or her successor is elected and qualified, or in each case until he or she sooner dies, resigns, is removed or becomes disqualified.

ARTICLE IV

## AMENDMENTS

These bylaws may be altered, amended or repealed in whole or in part by vote. The voting members may, by a two-thirds vote, alter, amend, or repeal any bylaws adopted by the Regional Committee members or otherwise adopt, alter, amend or repeal any provision which by FCC regulation or these bylaws requires action by the voting members.

ARTICLE V

## DISSOLUTION

This Regional Committee may be dissolved by the consent of two-thirds plus one of the members in good standing at a special meeting called for such purpose. The FCC shall be notified.

ARTICLE VI

## RULES OF PROCEDURES

The Conduct of Regional Meetings including without limitation, debate and voting, shall be governed by Robert's Rules of Order, newly revised, tenth edition, October 2000, Henry M. Robert III, and William J. Evans, et al.

Region #19
New England Regional Planning Committee
CT-RI-MA-NH-ME-VT
Minutes
Wednesday, May 18, 1988
Worcester Police Headquarters
9-11 Lincoln Square
Worcester, MA

The meeting was called to order at 10:25 a.m. by Convenor Joseph Mc Neil.

Mr. Mc Neil appointer Mr. George Pohorilak as temporary secretary for this meeting.

Mr. Mc Neil presented a history of the 800 MHz National plan and the New England groups involvement in the process.

He detailed the events leading to the release of 6 MHz of 800 MHz spectrum for public safety use contingent upon the development of a National and Regional plans for its use.

An overhead slide presentation detailed the requirements of the National plan and the steps to be followed by the APCO/FCC designated convenor.

Convenor Mc Neil cited the requirement of public notification, open membership to all eligible user groups, and the election of a Regional Chairman at the first meeting, and the prompt adoption of operating procedures to govern the Regional Committee.

Convenor Mc Neil invited Emil Vogel of Motorola E & E, Glen Rock, NJ to provide a technical update of the National plan requirements.

Mr. Vogel outlined the tasks for Regions under the requirements of the National Plan.

He cited the need for a Regional plan to:

1) Include short and long term planning input from all interested parties within the region.
2) The need to address interoperability requirements including federal needs, S-160 agreements, telephone interconnect and amateur radio (RACES/ARES) and Operational requirements for the use of interoperability channels.
3) The plan also must address a review process which allows for the ranking of applicant.
4) Application procedure evaluation should include application requirements.
5) The plan should address spectrum efficiency including frequency re-use, trunking, coverage limitations, systems engineering requirement, loading and frequency distribution.
6) The plan must address existing frequencies including give back requirements and re-assignment of give backs.

Mr. Vogel also discussed the planning time period in relation to three (3) categories of regions: immediate need-the top eight congested areas; need with 2-5 years-the top 25 congested areas; and other areas where spectrum can be returned.

He estimated that the committee would require 6-10 meetings over 3-6 months to complete a plan.

Convenor Mc. Neil called for nominations for Chairman of Region #19.

Mike Mangini, Director of Communications for Boston EMS nominated Donald C. Nagle, Jr. Metropolitan Police, the motion was seconded.

Jim Blesso asked for a clarification of whether or not Convenor Mc Neil would consider being nominated.. Convenor Mc Neil indicated he did not want to be considered.

Art Bon Holtz motioned that the nominations be closed. The motion was seconded.

Donald C. Nagle, Jr. was elected by unanimous voice vote to the position of Chairman of the New England area, 800 MHz Planning Committee.

Convenor Mc Neil outlined the structure of the previous committee for Chairman Nagle. He indicated that the previous informal planning group had designated five task groups (1) scope chaired by Joseph Mc Neil (2) regional communications requirements chaired by Art Von Holtz (3) plan implementation procedures chaired by James Blesso, (4) spectrum utilization chaired by Mike Mangini and (5) technology chaired by Ralph Swenson.

Chairman Nagle accepted the Chair.

Emil Vogel offered Chairman Nagle a generic version of the NYMA plan on computer diskette.

Joseph Mc Neil stressed that the NY plan offered a good base to start from and we didn't have to re-invent the wheel.

He also thanked Ralph Thompson for providing the coffee and doughnuts for the meeting. Ralph Thompson indicated that the Worcester Police facility was available for future meetings.

Joseph Mc Neil introduced Vincent Stile the APCO designated coordinator of Convenors. Mr. Stile asked Convenor Mc Neil to notify APCO Atlantic Chapter President Robert Miller of the election of Donald C. Nagle, Jr. as the Chairman of Region # 19.

Chairman Nagle set the next meeting date as June 22, 1988 at 10:00 a.m. in the Worcester Police Department.

We tabled the selection of a permanent secretary for the committee until the next meeting.

The meeting adjourned at 11:26 a.m.

Attachment:
List of Attendees
List of Task group members and addresses

GFP/js

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|---|---|
| I. Scope and Authority | Mr. Joseph McNeil<br>Southeastern Mass. EMS Council<br>PO Box 1197<br>Hyannis, Ma 02601 |
| II. Communications Requirements | Sgt. Arthur Von Holtz<br>Connecticut State Police<br>290 Colony Street<br>Meriden, CT 06450<br><br>Mr. James Bayer<br>State of Connecticut<br>Department of Transportation<br>280 West Street<br>Rocky Hill, Ct 06067 |
| III. Plan Implementation Procedures | Messrs. James F. Blesso, George J. Pohorilak, Robert F. DiBella<br>Bureau of Statewide Emergency Telecommunications<br>20 Grand Street<br>Hartford, Ct 06106 |
| IV. Spectrum Utilization | Mr. Michael Mangini<br>Director of Communications<br>Boston, MA 02118<br><br>Mr. Ralph Thomson<br>11 Varney Street<br>Worcester, Ma 01605 |
| V. Technology | Mr. Ralph Swenson<br>Deputy Director<br>Barnstable County Police Radio<br>Main Street<br>Barnstable, Ma 026330<br><br>Mr. John Pineau<br>P.O. Box 421<br>Redding, Ma 01867 |

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|---|---|
| Mr. Joseph McNeil<br>Southeastern Mass EMS Council<br>PO Box 1197<br>Hyannis, Ma 02671 | 617-771-4510 |
| Mr. Ralph K. Swenson<br>Deputy Director<br>Barnstable County Police Radio<br>Main Street<br>Barnstable, Ma 02630 | 617-362-3654 |
| Sgt. Donald Frappier<br>Springfield Police Dept.<br>130 Pearl Street<br>Springfield, Ma 01105 | 413-787-6328 |
| Mr. James F. Blesso<br>Administrator<br>Bureau of Statewide Emerg. Telecom.<br>20 Grand Street<br>Hartford, CT 06106 | 203-566-3243 |
| Mr. George J. Pohorilak<br>Planning Analyst II<br>Bureau of Statewide Emerg. Telecom.<br>20 Grand Street<br>Hartford, CT 06106 | 203-566-3243 |
| Sgt. Arthur Von Holtz<br>Connecticut State Police<br>294 Colony Street<br>Meriden, CT 06450 | 203-238-6573 |
| Mr. Ed H. Hennequin<br>Emergency Telecom Engineer<br>20 Grand St<br>Hartford, CT 06106 | 203-566-3243 |
| CWO Gary Thoreau<br>Commander<br>First Coast Guard District<br>408 Atlantic Ave<br>Boston, Ma 02210-2209 | 617-223-8400 |
| Mr. John Record<br>Supervisor<br>Comm. MBTA<br>500 Arborway<br>Jamaica Plain, Ma 02205 | 617-722-4418 |
| Mr. A.T. Bower<br>E.F. Johnson Company<br>14 Orchard Street<br>Niantic, CT 06357 | 203-739-6877 |

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|---|---|
| Mr. Francis Danaher<br>City of Hartford<br>550 Main Street<br>Hartford, Ct 06231 | 203-722-8235 |
| Mr. Michael J. Mangini<br>Director of Communications<br>Boston EMS<br>727 Massachusetts Ave<br>Boston, Ma 02118 | 617-424-4347 |
| Mr. David Troup<br>Boston Police Department<br>400 Frontage Rd<br>Boston, Ma 02118 | 617-247-4620 |
| Mr. Howard B. Baker<br>258 Plain Street<br>Norton, Ma 02766 | 617-552-7258 |
| Mr. Barney Porter<br>American Radio Relay League<br>47 Erin Road<br>Stoughton, Ma 02173 | 617-769-6000 Ext 174 |
| Mr. Peter La Pierre<br>1100 Kiewit Plaza<br>Omaha, NE 68131 | 402-342-2052 |
| Sgt. John Flynn<br>Metropolitan Police<br>20 Somerset Street<br>Boston, Ma 02108 | 617-727-6370 |
| Lt. Gerry Burke<br>Metropolitan Police<br>20 Somerset Street<br>Boston, Ma 02108 | 617-727-6370 |
| Mr. Donald Nagle<br>Metropolitan Police<br>20 Somerset Street<br>Boston, Ma 02108 | 617-727-6370 |
| Mr. Richard Neal<br>Motorola<br>45 Rumford Avenue<br>Waltham, Ma 02154 | 617-647-1210 |
| Mr. Robert Cruikshank<br>Motorola<br>45 Rumford Avenue<br>Waltham, Ma 02154 | 617-647-1210 |
| Mr. Chick Langone<br>RAM<br>235 Bear Hill Rd<br>Waltham, Ma 02154 | 617-890-2337 |

| | |
|---|---|
| Mr. John Mahoney<br>Boston Police Dept<br>85 Williams Avenue<br>Hyde Park, Ma 02136 | 617-247-4214 |
| Mr. Clarence Cary<br>Rhode Island State Police<br>P.O. Box 185<br>North Scituate, RI 02857 | 401-647-3311 |
| Lt. Louis B. Clark<br>Rhode Island State Police<br>P.O. Box 185<br>North Scituate, RI 02857 | 401-647-3311 |
| Mr. Ralph R. Thomson<br>11 Varney Street<br>Worcester, MA 06105 | 617-799-7130 |
| Mr. Emil Vogel<br>Motorola Communications<br>6 Electronics Road<br>Glen Rock, NJ 07452 | 201-447-4000 |
| Mr. J.E. Chapman<br>Territory Sales Manager<br>General Electric Company<br>P.O. Box 4034<br>Westborough, MA 01581 | 617-366-7130 |
| Ms. Fran Reneham<br>FCC<br>1 Battery March Park<br>Quincy, MA 01269 | 617-770-4023 |
| Mr. Larry Donahue<br>Communications Dept<br>One Communications Place<br>City of Providence<br>Providence, R. I. 02903 | 401-274-1150 |
| Mr. Stan Davies<br>Chief of Technical Services<br>State Fire Marshal's Office<br>1270 Mineral Spring Avenue<br>North Providence, R.I. 02904 | 401-277-2335 |
| Mr. Vincent Stile<br>Suffolk County Police Department<br>Communications Bureau<br>Yaphank Avenue<br>Yaphank, NY 11980 | 516-286-5431 |

Region #19

New England Regional Planning Committee

CT-RI-MA-NH-ME-VT

Minutes

Wednesday, June 22, 1988

Worcester Police Headquarters
9-11 Lincoln Square
Worcester, MA

The meeting was called to order at 10:30 a.m. by Chairman Donald Nagle.

Chairman Nagle's opening statement included a comprehensive plan for spectrum allocation, as well as, recognition for work done by Committee members J. McNeil, G. Pohorilak, and J. Blesso. Due to their efforts, 15 names from Northern New England were added to the mailing list.

Chairman Nagle outlined NPSPAC:

1.) a formulated time-table to submit plan
2.) four points: N.Y.C., Chicago, L.A., Dallas/Fort worth
3.) remaining units to be used in a 10 month period

The Committee is slated to adopt a time frame and submit a plan in 10 months time.

The Sub-Committee provided an update from commercial groups. Citing lack of common knowledge, as well as, lack of partiality on Rules and Regulations.

Office Kathy Washington of the Metropolitan Police, was appointed Recording Secretary, by Chairman Donald Nagle.

Reports from the Sub-Committee included:

Mr. McNeil's suggestion to modify original statement formalization under 87-12.

Chairman Nagle stated the modification suggestion would be examined and any changes needed would be discussed at the next meeting.

Sgt. Von Holtz addressed the dilemma and alienation of the Connecticut State Police, regarding the allotment of two 20 channel frequencies from New York and New England Committees.

Any discussion was deferred pending a letter detailing spectrum utilization.

Mr. James Blesso stated that the Albany Plan is two years away.

Mr. Blesso also questioned what matrix would be used for re-use. Would it be Motorola's or CET on behalf of APCO?

Mr. Blesso also stated that there was the same speculation at the National APCO Conference.

Chairman Donald Nagle stated the main issue(s) on the floor at the present time to be:

1) A proposed time frame, to include a third review period of 10 months, that will also include a waiver for the Connecticut State Police.

Chairman Nagle felt the plan needed to be put in place and that 10 months is a conservative estimate. He did not see the ability to increase that time frame.

Mr. Jim Blesso made a motion for more aggressive movement to solve the problem for the Connecticut State Police.

Judgment on the allocation was deferred.

Chairman Nagle made a motion to accept a time-table increase and it was seconded and accepted.

Mr. McNeil deferred and stated he had a question as how many people in the area have a real need.

Mr. George Pohorilak offered an implementation plan, to include minor changes in N.Y., until such time as there is full approval to N.Y. Committee. The changes are to be voted on then brought back to the next meeting, with recommended changes and a mailing list for accurate notification.

Mr. Blesso commented on a petition by the National Fire Association to the FCC, regarding regional committees utilization of frequency that are turned back.

Mr. Blesso also emphasized the importance of prioritization and allocation.

Chairman Nagle set the next meeting date as July 27, 1988 at 10:00 a.m., in the Worcester Police Department.

The meeting adjourned at 11:27 a.m.

Attachments:

List of Attendees

KRW/pjh

ATTENDANCE LIST FOR 800 MHZ MEETING JUNE 22,1988

| NAME | ADDRESS | AGENCY | TEL# |
|---|---|---|---|
| Joe McNeil | P.O. Box 1197 Hyannis MA. | Southeastern Mass. EMS. | (617)771-4510 |
| Ralph K. Swenson | Police Service Center Rt 6A Barnstable | Barnstable County | 617-362-3434 |
| LT Rusty Hemenway | Commander (dtm) First Coast Guard Dist. 408 Atlantic Ave Boston MA 02110 | USCG | 617-223-8400 |
| Michael J. Mangini | 727 Mass Ave. Boston, Ma. 02118 | City of Boston E.M.S. | 617-424-4347 |
| H. David Troup Jr. | 400 Frontage Rd Boston MA. 02118 | Boston Police | 617-247-4620 |
| Lt. John Bieniarz | Laconia Police Dept 51 Church St. Laconia NH 03 | Laconia Police | 603-524-5252 |
| Bob Cruikshank | Motorola 45 Rumford Ave Waltham MA 02154 | | 617-736-1222 |
| Normand H. Boucher | RAM Communication Consultants 235 Bear Hill Rd Waltham MA 02154 | | 617-890-2337 |
| AT. "Andy" Bower | E. F. Johnson Co 14 Orchard St Niantic, CT 06357 | | 203-739-6877 |
| John S. Marechal | SW N H District Fire Mutual Aid 32 Vernon Street P.O. Box 175 Keene, N.H. 03431 | | 603-352-1291 |

ATTENDANCE LIST FOR 800 MHZ MEETING JUNE 22,1988

| NAME | ADDRESS | AGENCY | TEL# |
|---|---|---|---|
| Sgt. Don Frappier | 130 Pearl St. Spfld. MA 01105 | Springfield Police Dept. | 413-787-6328 |
| Barry Porter | 47 Erin Rd Stoughton, Ma 02072 | American Radio Relay League | 617-769-6000 x174 (w) 617-341-2639 (H) |
| ROBERT DiBELLA | 20 GRAND ST HARTFORD, CT. | STATE OF CT. BUREAU OF STATEWIDE EMERGENCY TELECOMMUNICATIONS | (203) 566-3243 |
| JIM BLESSO | " | " | " |
| George Poharilak | " | " | " |
| Edward Hannequin | " | " | " |
| Arthur Von Holtz | 294 Colony St Meriden, CT 06050 | CT. State Police | (203) 566-6573 |

Attendance New England Committee 22 June 1988

Ralph R. Thomson City of Worcester, MA 617 799-1998

John Record MBTA BOSTON, MA 617/722-4418

Lou Demas MASS. STATE Lottery, BRAINTREE, MA 617/849-55[illegible]

~~[illegible]~~ ~~[illegible] 617-366-7130~~

Region #19
New England Regional Planning Committee
CT-RI-MA-NH-ME-VT
Minutes
Wednesday, July 27, 1988
Worcester Police Headquarters
9-11 Lincoln Square
Worcester, MA

The meeting was called to order at 10:35 a.m. by Chairman Donald Nagle.

Chairman Nagle's opening statement included an apology for previous minutes being mailed late, due to the implementation of the Metropolitan Police's Interim 800 MHz system.

Chairman Nagle outlined the present issues on the floor as follows:

1) The resignation of Sgt. Von Holtz from the Connecticut State Police, due to his new appointment as the Deputy Chief of the New Milford Connecticut Police Department.
   * WE ALL WISH HIM WELL! *
2) Decrease of members in attendance, due to the minutes being late and present vacation schedules.
3) Scheduling of upcoming meetings

Sub-Committee Reports, included discussion by Mr. Mike Mangini and Chairman Nagle, regarding letter text. Specifically, spectrum utilization and a feel for what allocation should in fact be looking at.

Mr. George Pohorilak updated Plan Implementation Procedure, commenting that the New York group was close to finalizing their document on Plan Implementation, though minor changes have been made.

At this point in time, there has been no feedback from the Connecticut members and the report submitted several months ago to this committee is still on the table.

Mr. Blesso felt that the probability of the group in Western Massachusetts joining the Albany group was great.

Chairman Nagle stated that to his knowledge all Western Massachusetts is the responsibility of this particular Planning Group.

Mr. Blesso added that the New England group in the Tri-State may cause some problem by virtue of designation of New England.

Mr. Pohorilak felt that the present name was fine "New England 800 MHz Regional Planning Committee".

At this point in time there was heard a motion to accept.

The motion was then seconded.

Chairman Nagel directed his question of whether or not the Spectrum letter will go out before the next meeting, to Mr. Mangini.

Mr. Mangini responded by stating that he would like to be aggressive and accomplish just that.

Mr. Marechal was heard from and felt there was a need to increase emphasis, use major communications group as supporting agencies for more official view points. People responding will not recognize the group.

Mr. Mangini added that he agrees that it may add credibility.

Mr. Blesso expressed his feelings that the letter should include and introductory paragraph, therefore increase its educational thrust.

Chairman Nagle questioned the possibility of this.

Mr. Mangini stated that it was his feeling that the Chairman and he should meet following this meeting to discuss just such possibilities.

Chairman Nagle questioned at this point in time if they were in fact in agreement.

At this point there was heard a motion by Mr. Baker to agree on modification of the letter.

This motion was seconded by Mr. Bleeso.

Mr. Danaher asked if it was the intent to bypass the Chief or the Executive Officer.

Chairman Nagle asked if copies had been submitted to everyone.

Mr. Porhorilak stated that copies had in fact been submitted to everyone, through some original members were no longer present.

Mr. Pororilak informed the committee that the New York plan is moving forward and that the Sub-Committee plans to meet on August 3, 1988. At this time, Motorola will have run a final version of the re-use pattern and the coordinators, as well as, the group facilitators will have researched the ability of municipalities for spectrum utilization, cut-backs, and the need for frequencies. If not enough frequencies are available, an evaluation plan will be initiated.

It is projected that by the meeting scheduled for August 17, 1988, all needed information will be available, the New York plan submitted and assignments will have been made to the FCC.

At the present time, minor changes and revisions have been made and have been submitted to Chairman Nagle.

Mr. Pohorilak also outlined eligible service categories:

1) Rated by committee members
2) Key component of matrix is a survey of points
3) Eligibility that is being re-done should be ready by the end of July.

Chairman Nagle stated the timetable for major cities is for late August.

Mr. Richard Pollack agreed and stated that he felt there would be no delays.

Chairman Nagle stated he had copies of all four plans in hand and ready for submission to the FCC. He questioned whether or not the Connecticut State police were still in the same position they were in last month.

Mr. Pohorilak assured the committee that the situation regarding funding has changed.

Mr. Davis stated that he felt he was moving ahead and that funding would be addressed at the next regional meeting.

Mr. Davis felt he should get the frequencies that have been requested.

Mr. Pohorilak felt that the issue was how many frequencies were actually needed by the municipalities.

Chairman Nagle expressed concern for conflicting frequencies and felt that that as of yet, there is not firm handle on actual spectrum utilization and we should wait to see what in fact, the actual plan entails.

Mr. Mangini outlined the main issues at hand as:

1) Get a handle on actual demand in New England region
2) The letter is an attempt to:
    a. find and make an accurate mailing list
    b. the former list provides no licensee's in Connecticut
    c. do have ME, NH, VT

3) Constructive feedback is needed regarding the letter (composite letter is based on other regional committees, including our own)
4) Mailing addresses
    a. attempt to recover mailing list
    b. incur cost of mailing and postage

5) John Pineau/ESPRL offered use of their mail box, if list becomes extensive
    a. list of who the licensee is by name of organization (if no name for contact, letter could get re-routed)
    b. names of key players is needed (list is not all inclusive)

Mr. Pohorilak questioned whether we should send letters to Public Safety licensee's only.

Mr. Mangini felt that initially yes, but that committee should also make suggestions, since we are well represented. The list will also include Fire personnel.

Mr. Thompson offered access to Mr. Michael Mello's computer.

Mr. Mangini expressed a need for computers that will be able to print labels.

Chairman Nagle outlined a two-step process with a time-table for September:
1) Resources are needed in order that no one is left out
2) Approve the letter in order for mailing to occur

Mr. Ralph Thompson stated that most Fire Chief Assoc have an established list with newsletters.

Mr. Mangini asked the Chairman's permission to have Connecticut look at the text of the letter and get feedback at some time in the future.

Chairman Nagle agreed and stated that he'd look for feedback in September, as well as resources and the financial situation. He would also speak with Joe Pineau.

Nr, Mangini asked if corrections would be made in September's meeting.

Chairman Nagle assured that in fact there would be changes made and a list could be complied from Connecticut, Ralph from NEFC and by contacting Mike Mello. The list then should be ready to go in September. That will keep within the 10 month time frame.

Chairman Nagle noted Joe Pineau and Ralph Swenson absent for Sub-Committee report. He then opened the floor for general discussion.

Chairman Nagle informed the committee that AFCCO is filing litigation, regarding Southern California, and L.A. for re-use clause.

The Chairman then asked for any information on this matter from the Fire side.

Mr. Thomson stated that he had no information and neither did Mr. Doug Keegan.

Chairman Nagle asked what was being done to turn back frequencies to 800 MHz, instead of frequency coordinators.

He offered as an alternative:

1) Follow New York's example and turn back frequencies to 800 MHz then make recommendations to the frequency coordinator.

Mr. Pollack informed the committee that the filing of litigation by APCCO has only come about in the past few days.

Chairman Nagle stated he would check into the situation before the next meeting took place. He also asked the committee if they felt there was a need for meeting in August or should the meeting be moved to September, due to vacations, etc.

A motion was heard for the next meeting to be scheduled for the second Wednesday in September, September 14, 1988.

Mr. Pohorilak stated there might be a need to meet after the September 17, 1988 meeting of the New York group.

All agreed that the next meeting would convene on September 14, 1988.

Chairman Nagle stated he would continue working with the sub-committees, regarding any of the subjects presently on the floor.

A motion for adjournment was heard and seconded.

Chairman Nagle adjourned the meeting at 11:05 a.m.

Attachments:

List of Attendees
Spectrum Utilization Letter Draft

KRW/pjh

| | |
|---|---|
| George Davis<br>Connecticut State Police<br>294 Colony St<br>Meriden, Ct. 06450 | John Mahoney<br>Boston Police Department<br>85 Williams St.<br>Hyde Park, Ma. 02136 |
| Mr. George J. Pohorilak<br>Planning Analyst II<br>Bureau of Statewide Emerg.<br>Telecom.<br>20 Grand Street<br>Hartford, CT 06106 | Robert F. DiBella<br>Bureau of Statewide Emergency<br>Telecommunications<br>20 Grand Street<br>Hartford, Ct 06106 |
| Michael Mangini<br>Boston EMS<br>722 Massachusetts Ave.<br>Boston, Ma 02118 | Rick Pollack<br>Motorola<br>45 Rumford Ave<br>Waltham, Ma |
| Mr. David Troup<br>Boston Police Department<br>400 Frontage Rd<br>Boston, Ma 02118 | Kathleen Washington<br>Metropolitan Police Department<br>20 Somerset St<br>Boston, Ma. 02108 |
| John Marechal<br>SW NH. District Fire Mutual Aid<br>PO Box 175<br>Keene, NH 03431 | Arthur Bower<br>E.F. Johnson Co.<br>14 Orchard St<br>Niantic, Ct 06231 |
| Mr. Donald Nagle<br>Metropolitan Police<br>20 Somerset Street<br>Boston, Ma 02108 | Howard Baker<br>Greater Boston Police Council<br>258 Plain St<br>Norton, Ma. 02766 |
| John Record<br>Mass. Bay Transit Authority<br>500 Arborway<br>Jamaica Plain, Ma 02205 | Mr. Ralph R. Thomson<br>11 Varney Street<br>Worcester, MA 06105 |
| Lt. Gerry Burke<br>Metropolitan Police<br>20 Somerset Street<br>Boston, Ma 02108 | |

Region #19
New England Regional Planning Committee
CT-RI-MA-NH-ME-VT
Minutes
Wednesday, September 14, 1988
Worcester Police Headquarters
9-11 Lincoln Square
Worcester, MA

The meeting was called to order at 10:20 a.m. by Chairman Donald Nagle.

Chairman Nagle's opening statement was in regards to a letter that would be passed through for Spectrum.

Mr. James Blesso made a motion to empower the Chairman to set a date for review, as well as the distribution of the letter, before the next meeting.

At this point in time, Mr. George Davis of the Connecticut State Police, seconded the motion.

The motion would allow the Chairman to start mailing the spectrum utilization letter for coordinating by agencies through out New England.

10:47 a.m. Discussion was heard on spacing of eight hundred (800) channels as is outlined by the New York Plan.

Mr. James Blesso felt that the decrease was too tight and that there would be difficulty in continuing the frequency.

Mr. Davis, at this time, added that it is down based upon 5 KHz and would we more practical to combine them. in the past, there have been problems with shifting numerically and this will decrease the impact on the number of channels available.

Chairman Nagle felt that the biggest impact would be on the New England region.

Mr. Joe McNeil felt that Boston is the center and if New York were to be used as the center of the matrix up from Connecticut, there would be difficulty in starting from Boston.

Mr. Davis stated that he felt that we should consider the use of all criteria and channels being adjacent.

Mr. Blesso informed the committee that if the impact process was employed by this group and if the FCC approves the Tri-State Plan, eight weeks preparation is not long enough to assign frequencies to specific geographies.

Mr. McNeil asked if a questionnaire would be of help.

Chairman Nagle stated that in fact, yes it would be, and applicants in Connecticut Spread depended upon the New York Plan.

Mr. McNeil questioned if that was without removing the existing numbers from the plan.

Mr. Blesso stated that New York had frequencies that were set aside for use for just that piece of geography; we however, do not, When the Committee develops a matrix it can not be ignored, what is on the other side. Consideration will have to be given to Albany and Buffalo as well as the Tri-State area.

Mr. McNeil stressed that we should deter the "ripple effect". He felt what happens in New York certainly effects New England and the Delaware area as well.

Chairman Nagle stated at this time he feels to be an easier plan:

1) Duplicate or
2) Essential part is completed already; we do not need to reinvent the wheel.

Mr. McNeil questioned where does matrix bail out.

At this point, Chairman Nagle stated that was why the plans had been passed out.

Mr. Davis felt that there was a need for discussion on how the matrix was to be used.

Chairman Nagle agreed that in fact, discussions have to be made.

Mr. McNeil asked if Albany had convened.

Chairman Nagle stated that the Albany plan was two (2) years away.

Mr. Blesso informed the Committee that Albany had changed Convenors. There have been informal meetings with New York but they are not off the ground as of yet.

Chairman Nagle added that there are seven (7) regions and an anticipation of thirteen (13) others, which will reach completion by 1999. Other committees are making progress just as we are.

At this time, Newsletters were read from PPCO:

1. How many interoperable channels were needed for a particular area?

2. Length of time for trunking standard developed.

3. FCC Commissioner Quello is at present not in favor until plan is developed.

Mr. Blesso stated that Commissioner Diaz is susceptible to change if the three (3) existing Commissioners would delay plans until resolutions of open architecture. This would develop political resolution:

1. Public safety groups are to visit Washington, D.C.

2. Bring Commissioners from the State Police of New York and New Jersey. At the present time Maine has no immediate concern.

Mr. McNeil stated that the idea of "open Architecture: has lost its validity and has decreased credibility, particularly in Little Rock.

Chairman Nagle questioned if we should address those questions and if New York had in fact.

Mr. Blesso informed the Committee that five channels had been set aside for inoperability. In the Tri-State group, they had agreed that five (5) was plenty. With regards to the issue of "open architecture" it does not come in the plan, but around it. Anyone in Public Safety could get involved. Obviously our perspective is what is best for the public safety.

Mr. Davis expressed some concerns with regards to "open architecture: and inoperability. He felt that both should be address in the same breath.

Mr. Davis also questioned if this would delay various regional plans. He also issued concerns with regards to operations in conventional non-trunked modes. He questioned if there was a trunking standard. If one product goes into another there would be no communications between agencies when necessary.

Mr. Blesso stated that inoperability is not shared and should be treated as a totally different issue:

1. Mode should be considered as one way of achieving inoperability.

2. The agency should have final decision if planning is done wisely.

3. The magnitude of the task should not be tied to spectrum utilization.

4. Expedition can be achieved over a period of time through common architecture no matter what system is used. Competitive prices are needed however.

Chairman Nagle agreed that we in fact need options.

Mr. Blesso felt it should be put on paper and submitted to the FCC for consideration.

Chairman Nagle stated that everyone should do this. A timetable is a concern and he does not envision a one year period. A survey at the conference showed five channels to be acceptable and trunking standards could be set in one (1) year.

Chairman Nagle also recommends that every member of this Committee outline a letter to the FCC Commissioner about the concerns expressed about not implementing the 800 MHz plans because of lack of trunking standard and interoperable channels.

At this point in time Chairman Nagle outline other issues on the Committees agenda:

1. Committee Funding
    a. funding from private vendors
    b. pool developed for services that are not monetary accounts.
    c. Chicago has a support account for e.g.: photo copying proposals APCO contributes as well

2. Spectrum Utilization Letter

3. Minutes

Chairman Nagle felt that we should pressure vendors and APCO.

Mr. McNeil stated that APCO chapters are funding regional committees but we are unable to verify this at this time. The Atlantic Chapter would however assist, but there are three other

Committees including this one. He also felt that without verification we should defer comments until meeting next month in the Atlantic region.

Mr. Davis informed the Committee that coordination is done by locals for support of the national office:

1. Submit engineering surveys 40 DP mile contour
    a. power limitations
    b. antenna gain
2. Frequency assignment is out of regional plan and is determined before application
3. Allotment is received by regional from the national is minimal

Mr. Blesso stated that the National will argue about the hiring being done at the national level and the percentage of coordinating fees by APCO goes to the chapter monies received.

Mr. McNeil stated that that is consistent across the country. He also felt that when pressured for an answer, we need to ask which agencies were told to check locally at corporate level.

Mr. Blesso informed the group that we should check with corporate sales people.

Mr. Jack Chapman from G. E. states that they will cooperate in this matter.

Chairman Nagle stated that the discussion would be tabled until next meeting.

At this time, Mr. McNeil informed the Committee that over fourteen thousand (14,000) receipts for the Atlantic Chapter were received along with coordination fees. He also stated that he would know more by the next meeting in October.

Mr. Blesso stated that the FCC made it clear that the planning process not APCO will deal with coordination, not as the planning organization for the eight hundred (800) spectrum.

Mr. McNeil informed the Committee that due to automated frequency coordination service by National APCO they are one hundred and eighty thousand dollars ($180,000) in the hole.

Mr. Howard Baker added that if all coordination is done following the plan petition of FCC for coordination fees, frequencies and areas are picked out. Therefore, there is no need to pay coordination fees.

Chairman Nagle's closing statements were concerning Spectrum Utilization letter and Data base (re: mailing) minutes and letters to go out again and setting a time frame for response.

A motion for adjournment was heard, and seconded at 11:25 p.m.

Chairman Nagle set the next meeting for October 26, 1988 at 10:00 a.m., to take place at the Worcester Police Department located in Worcester, MA.

Attachments:
List of Attendees
KRW/pjh

ATTENDANCE LIST FOR 800 MHz MEETING SEPTEMBER 14, 1988

| Name | Address | Agency | Telephone # |
|---|---|---|---|
| 1.David Troup | 400 Frontage Rd BPD | | 247-4670 |
| 2.George Davis | | Conn. State Police | 203-238-6573 |
| 3. Bob Cruikshank | Waltham, MA | Motorola | 736-1222 |
| 4. Rick Neal | Waltham, MA | Motorola | 736-1222 |
| 5. Rusty Hemenway | Boston, MA | Coast Guard | 223-8400 |
| 6. Stephen Annett | Boston, MA | Coast Guard | 223-8400 |
| 7. Joe McNeil | PO Box 1197 Hyannis, MA | EMS Council | 771-4510 |
| 8. Robert DiBella | Conn. | State of Conn. B.S.E.T. | 203-566-3243 |
| 9. Ed Hennequin | Conn. | State of Conn. B.S.E.T. | 203-566-3243 |
| 10. Jack Champan | Westboro, MA | General Electric | 366-7131 |
| 11. Kathy Washington | 20 Somerset St | Metro | 727-5220 |
| 12. Howard Basker | Newton, MA | GBPC | |

Region #19

New England Regional Planning Committee

CT-RI-MA-NH-ME-VT

Minutes

Wednesday, October 26, 1988

Worcester Police Headquarters
9-11 Lincoln Square
Worcester, MA

The meeting was called to order at 10:30 a.m. by Chairman Donald Nagle.

Chairman Nagle's opening statements included congratulations to Mr. Joseph McNeil on his election to President of the North Atlantic Chapter of APCO.

Congratulations were also extended to members of Tri-State New York Plan; Mr. James Blesso, Mr. Robert DiBella, Mr. George Davis and Mr. George Pohorilak.

Accomplishments of the Committee include:

1). Vendor Financing
2). Extended Mailing List

The Committee was informed at this point in time that copies of APCO's response to trunking standards are available for those interested, also copies of Mr. Robert Tall's statement to the FCC are also available.

Everyone on the Committee representing an agency is urged to write the FCC with a response concerning the trunking standards as to whether they agree or disagree.

Some legitimate points regarding the report were heard:

1) Holds up to the planning process
   a) Commission is holding steadfast on approval of plans until standard are set

2) From a committee and users view, the FCC should keep the issue in the market place, as they have done in the past.

Further discussion on this topic will be heard during Open Forum.

At this time the Sub Committees were heard from.

Chairman Nagle stated that he had been able to meet with some of the committees in Connecticut, but felt on the whole that:

1) The need exists to increase responsibility in the Committee process
2) Increase pace to meet timetable

a. Sub Committee's need to set goals as well as implementation, schedules, and timetable.
b. Replace members who don't participate voluntarily or involuntarily

3) Time is a critical issue for all
   a. Spread work load among different Committees and increase accomplishments and accountability.

The two Committees in Connecticut that were met with were:

1) Spectrum Utilization Committee
   Mike Mangini
   Ralph Thomson
   Howard Baker

2) Plan Implementation
   Jim Blesso
   George Pohorilak
   Bob DiBella
   Al Walsh
   - City of Boston Missing

Chairman Nagle expressed a need to speak with:

1) Technology Committee- "absent"
   John Pineau
   Ralph Swenson

2) Communications Requirement Committee
   George Davis
   James Bayer

The Sub Committee reports were heard at this time.

Mr. Mike Mangini began by stating the he would like some feedback regarding the spectrum utilization letter.

Mr. John Mahoney questioned at this time if in fact many departments received the letter.

Chairman Nagle answers Mr. Mahoney's question negatively.

Mr. Mangini added that the mailing was increased to demonstrate and effort for the questionnaire.

At this point in time, Mr. Ralph Thomson asked when the letters should be returned.

Chairman Nagle informed the Committee that he would have to speak with the Committee members regarding return time of the letters.

Mr. Mangini expressed a need for a list of Fire and Police Chiefs so that we can document to the FCC that we have done adequate notification.

Mr. Blesso added that there is also a Forestry Coordination Group.

Mr. Mangini at this time asked for the contact at the Forestry.

Mr. Blesso asked if there is a FCC coordinator in this particular area.

Mr. Dibella did not know if in fact there was.

Mr. Thompson questioned if anything had come in from National Fire Chief's. He informed the group that the Fire Chiefs would mail the New England section of the mailing list.

Mr. Pohorilak stated to the Committee that as far as he knew there are only four counties in Connecticut covered by this particular Committee.

Mr. Mangini suggested that the Committee cross reference all lists and get one made and distributed in three weeks. He stressed the need for this information to go forward.

Mr. Blesso informed the group that the Committee was mentioned in various journals within the Tri-State area.

Mr. Davies suggested that "This is not an application" be put on the questionnaire, so that all will know there is a definite period once the plan is established. He also questioned the necessity of space to participate in regional planning although not an applicant.

Mr. Mangini felt that it could be added but informed the group that it is covered in the cover letter.

Chairman Nagle requested that the data base lists that have previously been identified be done so once more for the Committees sake.

Mr. Mangini informed the Committee that the information Chairman Nagle was looking for was: Eligible or Current licensees, Fire and Police Chiefs. He also expressed need to document and demonstrate that its been put out adequately.

Chairman Nagle asked if anyone in the New York Plan who had been addressed was missing.

Mr. Blesso addressed the Chairman's question by stating that no, in fact they relied heavily upon legal notices in trade journals. It is his belief that individual mailing lists exceed the Tri-State area.

Chairman Nagle stated that if the letter is fine, then they should proceed, set deadline and utilize Mr. Joseph Pineau's P.O. Box address.

Mr. Mangini asked Mr. Blesso if he know what the response percentage was from New York.

Mr. Blesso answered perhaps forty (40) percent.
Mr. Danaher asked, in reference to the last question on the last page of them Spectrum Utilization Questionnaire, how the results will come from this.

Mr. Mangini answered by stating that the mechanics of summarizing will yield range or average.

Mr. Pohorilak informed the group that New York used an informal direction to focus on Spectrum. This turned out to be more of a demand than Spectrum.

Chairman Nagle stated that he felt the group should use the same approach. As a Committee, the group should take those results to formulate a plan.

Mr. Pohorilak felt that it is information that the Committee does not have and need to start from someplace.

Chairman Nagle at this point in time, suggested that if there is nothing further, the group should move on. He then asked Mr. Davis if there is anything in Communications.

Mr. Davis stated that in fact, no there is not, however a preliminary draft will be available at the next meeting.

Mr. Pohorilak informed the Committee that the Plan Implementation Committee will review, comment, and draft version of New Committee. It was his feelings that the group can take what has been developed for New York and modify it for New England.

1) Matrix-perform point evaluation for each eligible that could apply (although accomplished in New York Subway). Will submit to this Committee once draft is done, point spreads would remain the same. Allocation was in seven (7) categories of the Evaluation Matrix. Thirty-five (35) points were derived from the Service Evaluation.

Chairman Nagle stressed the importance of participation and noted the absence of the Technology Sub-Committee. If people are unable to participate find those who are able to do so consistently.

Chairman Nagle continued on to inform the Committee that the Dallas Plan was set back, as was the Florida Plan. Tri-State is out on a thirty day inquiry.

Mr. Blesso stated that the closure date is November 7, 1988 and fifteen (15) days have been allocated for replies, then back to the FCC.

Mr. Blesso continued to on to stress the inappropriateness for the Tri-State group to comment. Two out of three FCC Commissioners are favorable of license issuance January 1989. A letter went out to those rejected. (they were mainly technical reasons, i.e. did not complete questionnaire). He further went on to state that those applicants who were plugged into matrix and have not received formal letter, will submit engineering documents so they can be examined.

Chairman Nagle informed all that the timetable is to be January 1989 and the filing date on Open Architecture Trunking Standards is November 3, 1988.

Chairman Nagle asked Mr. Neal, as per their pervious discussion, who is the next to go before the FCC.

Mr. Neal responded by stating that adjustments must be made after the Tri-State Area is submitted.

Chairman Nagle addressed Committee funding by stating that no actual funding is available from APCO and/or other vendors. There will be a continued search for vendors to provide services. Motorola provided mailing on the last minutes package.

Chairman Nagle went to ask the name of the Planning Committee.

Chairman Nagle stated that no the intent is to decrease double mailing as most chiefs would refer information to the responsible person. Good faith efforts will be documented. It was never the intent of the Committee to bypass the Chief or Executive Officer.

Mr. Manini expressed that if there was a forty (40) percent return, that this is a great response.

Chairman Nagle added that he will bring a full report next meeting regarding financing through APCO and private vendors.

Chairman Nagle now opened the floor and moved from the agenda.

No issues were heard at this time and a motion to adjourn was heard and seconded.

The motion was so moved and Chairman Nagle set the Date of the next meeting for Friday November 30, 1988 at 10:00 a.m. at the Worcester Police Department Headquarters.

The meeting was adjourned at 11:30 a.m.

Attachments:
List of Attendees

KRW/pjh

# Metropolitan Police

The Commonwealth of Massachusetts
Metropolitan District Commission
20 Somerset Street
Boston, Mass. 02108

727-5220

ATTENDANCE LIST 800 MHz Planning Committee Oct. 26,1988

| NAME | ADDRESS | AGENCY | TEL# |
|---|---|---|---|
| FRANCIS DAMAHER | 550 MAIN ST 06103 HARTFORD CT | | 7228235 |
| ROBERT DI BELLA | 20 GRAND ST HARTFORD, CT. | STATE OF CT. BUREAU OF STATEWIDE EMERGENCY TELECOMMUNICATIONS | (203) 566-3243 |
| GEORGE L. DAVIS | CONN. STATE POLICE | | (203) 238-6753 |
| John Mahoney | Boston Police Academy | | (617) 247-4214 |
| IVAN LUBASH | MOTOROLA CGE Waltham MA | | 617 736 1219 |
| JIM BLESSO | CONN DIVISION EMG. TELECOM. | | 203-566-3243 |
| Howard BAKER | GBPC | | 617 552-7258 |
| George Pohorilak | CT Bur. of Statewide Emerg Telecom. | | 203-566-3243 |
| DAVID TROUP | BOSTON POLICE | | 617-247-4620 |
| Richard Neal | Motorola | | 617-776-1050 |
| Myron Polulak | MOTOROLA | | 203-563-2361 |
| Kevin Cochrane | MOTOROLA | | 203-563-2361 |
| Michael J. Mangini | City of BOSTON - EMS | | 617-424-4747 |
| JOHN MAREDITH | SW NH. DIST. FIRE MUTUAL AID | | 603-352-1291 |
| Ralph R. Thomson | City of Worcester | | 508 799-1798 |
| LT. GERALD BURKE | METRO POLICE | | 617 696-8141 |
| Kathy WASHINGTON | " " | | 617-727-5226 |

Region #19
New England Regional Planning Committee
CT-RI-MA-NH-ME-VT
Minutes
Wednesday, November 30, 1988
Worcester Police Headquarters
9-11 Lincoln Square
Worcester, MA

The meeting was called to order at 10:30 a.m. by Chairman Donald Nagle.

In his opening comments, Chairman Nagle expressed Mr. Emile Vogel's desire to make comments regarding APCO Convention which was held in August.

Mr. Vogel stated that Florida had submitted a plan, where Texas and New York submitted draft plans. Florida's plan had no cover letter and also requested channels for 2 regions. He continued onto inform the group that the FCC responded that there was no evidence of mechanics to do this, but would be granted if the rest of the State came in later. There were six sub-regions that were not developed. The Florida plan was denied and will be resubmitted in January of 1989.

Furthermore, Texas was rejected and an addendum requested based on their Metro Complex Area. They have 20 miles outside with no service and you have to show enough spectrum to service the area. If not, you must show who did not receive it and how the decision was made that they not be recipients. The Texas plan will be put out for public comment.

With regards to New York, they have continuous coordinating efforts with the Commission. The FCC refined the New York Plan and put it out for public comment until November 9, 1988. Only two comments were received:

1) Anything agreed upon in New York should not be binding in Delaware Valley the New England Regions 8 and 9.
2) The question was raised if buffers were created alongside counties.

Without a North Data Base, the next adjacent region would need a starting point. The feeling was that it should not be done by county name, that way either region can use the buffer.

The Committee was informed that reply comments to trunking standards were filed on November 28, 1988. At that time APCO and Region 28 were in agreement.

At this point in time Chicago is further ahead and is a Multi State Plan with Indiana and Wisconsin inclusive. Their draft is fifty percent complete and won't be ready by January of 1989, however completion is scheduled for June of 1989 to go to Washington.

California has also submitted a draft plan. This idea of a draft plan is the correct approach if it is sent within three months. If compliance with this time frame is met, Bureau Chiefs will more than likely be given approval.

At the conclusion of this information, the floor was then opened for questions by Chairman Nagle.

No questions were heard.

Chairman Nagle stated that N.H. and Maine State Police have to be placed in the logs and involved because of the impact of international 800 planning.

Chairman Nagle continued with the previously promised reports:

1) Committee Stationary
    a. Has gone to print, as draft available at this time, further information will be available at the January meeting.
2) Financing
    a. Was able to secure some services from Motorola and Ram Communications.
    b. Plans to speak with General Electric and E.F. Johnson

Mr. McNeil informed the group that he had spoken with Mr. Bob Tall and questioned if any other chapters are providing funding for national groups. At this time very little and only ancillary services are available. The Atlantic Chapter is now funding four regional groups.

Chairman Nagle stated that the Committee will stay with vendors for services rather than financing. When the time come the Committee will approach all.

At this point in the meeting the Chairman requested to hear the Sub Committee Reports.

Mr. McNeil began by presenting the report on Scope and Authority. He informed the group that no additional information is available at this time, however, a section has been proposed by the Committee.

Mr. George Pohorilak stated that a draft copy has been modified after the N.Y. Plan, but is much more optional. There is however a question if distribution of copies to group would be available before the next meeting.

Chairman Nagle does not anticipate being out of frequencies. Furthermore, everyone was asked for information regarding who in fact is holding frequencies.

Mr. Bob DiBella felt that no one in communications had been turned away and there have been no givebacks.

Chairman Nagle informed the Committee that G.B.P.C. and Telecommunications Metro Boston Area are holding 20 channel licenses for the original collaborative.

Mr. George Davis stated that he is in the process of preparing a list of givebacks to the N.Y. region and he will be able to bring a copy to the next meeting.

Mr. DiBella questioned if there was a want for current 800 licenses or givebacks.

Chairman Nagle replied by stating that those from the original allocation who hold licenses are desired.

Mr. John Pineau stated that a survey as to who is using it is in no way to evaluate.

Mr. DiBella felt that because of a split state Southern Connecticut cannot get one.

Chairman Nagle asked if there was anyone from the original allocation holding and not using.

Mr. DiBella asked for clarification on if Mr. Chairman was looking for current users and not who is presently holding.

Chairman Nagle answered that no, iota is meant to utilize them.

Mr. Vogel expressed a need to send out letters if there has been a failure to follow up on slow growth.

Mr. Pineau questioned how many inquires had been mailed out for the survey.

Chairman Nagle stated Mr. Mike Mangini will be addressing the issue during his report.

Mr. George Davis felt he could have copies made and sent out with the minutes.

The Plan Implementation Committee was heard from next.

Mr. George Pohorilak informed the group that there is a draft of the New England version based on the N.Y. Plan.

At this point in time, copies of the plan were passed out to the group.

The evaluations to be made are:

1) Add or delete categories from the plan
2) Re weigh the service categories
3) Need feedback to tailor plan to New England
4) Categories are based upon discussion and debate
5) Assign points to applications
    a. who would receive allocations
    b. who would not

It is important that the Evaluation Matrix not be confused with Computer Sort.

Mr. McNeil asked if there was 35% services.

Mr. Pohorilak answered that a base of 1000 points were used for the New York Plan, this allows for flexibility with a maximum of 350 points for Police and Fire service categories. All other are minimum in points.

Mr. Pohorilak continued onto express a need for a way of prioritizing applications if there was a shortage.

Mr. Vogel stated that Dallas had forced the same situation, and it was his feeling that there was a need for some sort of methodology.

Mr. Pohorilak informed the Committee that there was none used initially but it has to be there if we want to go with seven (7) categories and point weighting factors, the eligible service categories are to be determine on a 0-35% scale.

Mr. McNeil asked what was the minimum amount of respondents.

Mr. Pohorilak responded by stating that we had gone back three times with a mailing date. If everyone is in agreement we will mail out the Service Provided Questionnaire, tally and bring the results to the next meeting. It is felt that two weeks may be enough time to submit.

Chairman Nagle questioned if there was any discussion is if there was it was to be put on the floor at this time.

Mr. McNeil stated that the Commission saw the need for Emergency Medical Services to be addressed. So all medical service groups had to be addressed. Public Safety is the top priority.

Mr. Vogel stated that he feels there is a need to switch question #3 or #7 because loading meant something different in New York. Because of the large rural content it might carry a higher rate and some others a lesser rate. This won't be necessary here. Boston is o.k. with 100 units per channel. Swap percentage between givebacks and loading and give increased percentage to givebacks.

Mr. Pohorilak stated that this was to give incentive of weakness or other factors exist.

Mr. Dais felt that giveback should be termed takeback.

He continued on to state that the committee should look at:

1) Allocation
2) Loading
3) Justification for additional channels

Mr. Vogel states that this could not be done under Statute. Justification because of loading would result in no 800, can't take or hold others.

Mr. Davis offered that you could rate lower on givebacks.

Mr. Vogel stated that loading is no problem, it shows only ten percent.

Mr. DiBella stated that the point he made earlier, is that there is no way to articulate that (survey). Its not indignant of an agency will give back.

Mr. Vogel expressed that if there is information regarding who allotted and who gave back, the commission can then audit.

Mr. DiBella informed the group that in the New York Plan, this was unresolved, he continued on to question what is the method of taking back in the 800 pool to achieve licenses that are new in the low ban pool.

Mr. Vogel said that APCO has copies of methodology and that those are all procedural problems.

Mr. DiBella stated that there are many questions regarding acts suggested by Mr. Bob Tail.

Mr. Pohorilak asked if the Committee would like to swap the term “give” to “take” back.

Mr. Pineau said that the Commission rates public safety as Fire or Police, they don’t know the difference between National Guard and Police. Bean and School would be important if their owned.

Mr. McNeil felt that the idea is if this is all that’s left when we run out, predominance of the weight would be Public Safety.

Chairman Nagle emphasized that that in fact is the purpose of the questionnaire, to determine service points and discuss at the next meeting.

Mr. Pohorilak stated that the same discussion occurred in New York. They were unbalanced.

Mr. Pineau felt that this group is strongly biased.

Chairman Nagle motioned to change determination.

Mr. Swenson motioned to giveback to 155 on question #7 and on question #3 loading should be at 10% in the New England Plan.

This motion was seconded and carried.

Chairman Nagle stated that the motion is down to change wording.

Mr. Vogel suggested that the closer to the New York Plan the better the chances are of approval.

Mr. Pineau asked what is the destination of these channels.

Mr. Bayer stated that the New York Plan calls for frequencies given back to the coordinator for allocation. That is according to the FCC allocations.

Mr. Pineau questioned if the channel goes back to the same pool.

Mr. Bayer posed that idea that if given back the other agencies may ask for it.

Mr. Vogel felt that frequency sharing does not happen. FCC rules that the FCC coordinator has end responsibility.

Mr. McNeil informed the group that Mr. Mike Kiron from Boston has been appointed Frequency Coordinator for the Northern Tier (N.H., ME., and VT.)

Mr. DiBella stated that in the New York area of Connecticut, 3 applicants will be assigned frequencies from pool which are takebacks. By our deadlines the case will not be the same.

Chairman Nagle felt that the issue is where does the Committee stand. He would not suggest not giving recommendations to coordinators.

Date for return of the questionnaire is 12-15-88.

Mr. Pohorilak said that at the next meeting he will have a revised draft of the point values decided on today.

At this point in the meeting the Spectrum Utilization Sub Committee was heard from.

Mr. Mangini stated that due to Mr. Howard Baker's absence he does not have the list of licensees, however there is a survey letter to go out.

Mr. Pineau stated that he had a list on data base.

Chairman Nagle asked if we were missing any other data bases.

Mr. Thomson informed the group that the fire list will be mailed out to Mike Mangini,

Chairman Nagle stated that he would meet with Mr. Mangini's Sub Committee.

Mr. Crukshank questioned of the mailing list is just police and fire.

Mr. Mangini stated that police and fire chiefs in New England will receive the letter in the main within the next few weeks and a response should be available by the next meeting.

Chairman Nagle at this point in time opened the floor to further discussions.

None held.

Chairman Nagle asked if there was as snow policy.

Mr. McNeil informed the Committee that if Worcester cancels school then there is not meeting.

Chairman Nagle slotted the next meeting date for Wednesday, January 4, 1989.

Motions made for adjournment.

Seconded and heard.

Meeting adjourned at 11:52 a.m.

Attachments:
List of Attendees

KRW/pjh

ATTENDANCE LIST FOR 800 MHZ MEETING
NOVEMBER 30, 1988

| | | | |
|---|---|---|---|
| Bruce Alexander | 80 Boylston Street | Masss EMT Serv | 451-3433 |
| Rick Pollack | 45 Rumford Ave<br>Waltham | Motorola | 736-1200 |
| Michael Mangini | 727 Mass Ave | City of Boston EMS | 424-4347 |
| Michael Kiron | 727 Mass Ave | City of Boston EMS | 424-4347 |
| John Pineau | 85 Williams Ave<br>Hyde Park | | 242-4214 |
| Ralph Thomson | 9-11 Lincoln Street<br>Worcester | | 752-2806 |
| Ralph Swenson | RT 6A Barnstable | County Sheriff | 362-3434 |
| Sgt. Chris Crowley | 275 Dot. Ave<br>So. Boston | MBTA Police | 722-5151 |
| Russ Kulp | 5 Monument Circle<br>Hingham | MA Emer. Care BD | 348-5217 |
| Emil Vogel | 85 Harristown Rd<br>Glen Rock NJ | Motorola | (201) 447-4000 |
| Mike Meehan | 96 Morrill Drive<br>Burlington VT<br>05401 | Burlington FD | (802) 864-6923 |
| Don Frappier | 130 Pearl St<br>Springfield, MA | Springfield PD | 787-6328 |
| Joe McNeil | PO Box 1197 | Cape & Islands EMS | 771-4510 |
| George Davis | 294 Colony Street<br>Meriden, Conn | Conn. State PD | (203) 238-6573 |
| Robert DiBella | 20 Grand Street<br>Hartford, Conn | Conn Bureau<br>Emergency Telecomm | (203) 566-3243 |
| George Pohorilak | 20 Grand Street<br>Hartford, Conn | Conn Bureau<br>Emergency Telecomm | (203) 566-3243 |
| James Bayer | 280 West St<br>Rocky Hill, Conn | Conn Dept of<br>Transportation | (203) 258-0376 |
| Rick Neal | 45 Rumford Ave | Motorola | 736-1200 |
| Bob Crukshank | 45 Rumford Ave | Motorola | 736-1200 |
| A.T. Bower | 14 Orchard Street<br>Niantic, Conn | E.F. Johnson Co. | (203) 739-6877 |

Region #19
New England Regional Planning Committee
CT-RI-MA-NH-ME-VT
Minutes
Wednesday, January 25, 1989
Worcester Police Headquarters
9-11 Lincoln Square
Worcester, MA

The meeting was called to order by Chairman Donald Nagle at 10:15 a.m.

The Chairman opened the floor for the technology update provided by Mr. Emil Vogel and Mr. Bob Fleissner of Motorola Inc., without objection the floor was opened to Emil Vogel.

Mr. Vogel outlined the status of various 800 Planning Committees around the country. Mr. Vogel estimated that the Tri-State Plan would be approved by the Commission in either February or March, the Dallas-Fort Worth plan had passed the comment period on January 17th, replies are due by February 2, 1989. Mr. Vogel indicated that there was a comment file by the General Electric Co. with reference to clarification on interoperability as well as spectrum efficiency.

Mr. Vogel also indicated that there is a possibility of movement within the Commissioners, with the new administration in Washington. A brief discussion was held on possible candidates for the position of Commissioner and the effect each would have on the planning/approval process of 800 committees.

Mr. Vogel introduced Mr. Bob Fleissner, a system engineer with Motorola, to provide detailed explanation of sorting program that has been developed to provide the splits for 800 systems and committees in the planning process. Mr. Fleissner clarified the way the adjoining plan will determine the spreads for the adjoining committees. A lengthy discussion took place on the effects of Tri-State Plan on the committees planning effort. The New England Committee would like to extend its thanks to both Mr. Vogel and Fleissner for taking the time from their schedule to apprise the committee on the technology update around the country.

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| Chairman Nagle | Extended his thanks to the Committee for the cancellation of the scheduled meeting, so that he may attend to problems associated with his system.<br><br>Bob Tall has made contact with the Chairman with reference to the on-going negotiations with Canada dealing with planning effort for 800 MHz frequencies. Mr. Tall will provide additional information at a later date. |
| DiBella | As the Chair requested, I have provided a list of parties holding 800 MHz licenses in Connecticut at the present time. (Report submitted to the Chair). Estimates that 50% of the holder effect Region 19. |
| Chairman Nagle | Is it possible to provide a similar report from Massachusetts, as well as the rest of the New England Region. |

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| Pineau | I will provide the report for Massachusetts, you will have to approach the other coordinator for rest of New England. I believe that the majority are holding and are not building. |
| Chairman Nagle | Sub Committee Reports:<br>Communications Committee |
| Bayer | We have received no comments on the draft that was included in the last minutes. |
| Chairman Nagle | Are there any comments from the Committee on the Communication Draft. |
| Bayer | There has been some discussion with reference to encryption standards, if they are required or not required. |
| Vogel | Encryption Standards were removed from the National Plan. A brief discussion the issues of standards relating to national calling channels took place. |
| Chairman Nagle | Any further comment (non heard). Do I have a motion to accept the draft of the Plan. |
| Baker<br>Mangini | Motion to accept<br>Seconded |
| Chairman Nagle | Vote unanimous, Communications Draft accepted. |
| Chairman | Plan Implementation Sub Committee Report |
| Pohorilak | Survey Forms need to be returned for tabulation, only three (3) surveys have been received to this date. Is it possible to include a copy of the survey into the minutes of this meeting. It is impossible to calculate percentages of giveback without a number of responses. |
| Chairman | Survey will be included in the next mailing of the minutes. (Chairman NOTE; all members are encouraged to complete the survey included in the minutes or bring or send to George Pohorilak.) |
| Pohorilak | There is a need to develop an appendix that will be part of the implementation draft, I could do that separately or as part of the whole. |
| Chairman | It would be my recommendation that it be as part of the whole plan, unless there are objections by the Committee. (None heard). Thank you, we'll look forward to the responses of the survey for the next meeting. |
| Chairman | Spectrum Utilization Sub-Committee Report |
| Mangini | There are several problems associated with the process that we under took, the amount of labels exceed the numbers we anticipated, there is |

a very real financial problem associated with the mailing of this magnitude. There are over 4000 labels at the present time.

Pohorilak — Are they all licensed?

Mangini — There are some duplication, myself, Howard Baker and the Chairman met to try to eliminate the duplicates, with little success in lowering the final numbers.

Pohorilak — NY limited to those who are licensed.

Chairman — We have to come back to the Committee as a whole to make recommendation as how the Spectrum Utilization Sub Committee should proceed:

1. State by State mailing using additional members of the Committee
2. Reduce the mailing, while still meeting our obligations in NPSPAC
3. Advertise in Professional periodicals.
4. Direct the mailing to another source (i.e. Chief Executive of municipality, etc.)

Danaher — It would be more efficient to mail to the Chief Executive Officer of the Political Sub Division. It would also make sense to mail by State to the CEO.

Mangini — We could contact the appropriate State Secretary (Public Safety, Forestry, etc.)

Danaher — List exists in most cities and town directories.

DiBella — Utilize Police and Fire Chief newsletters and publications.

Vogel — The problem that exists is that there is a lag time to get notices printed in publications 6-8 weeks.

Pohorilak — Use the methodology as in NY Plan. Chief would have a better understanding than town officials.

Chairman — There is really no way possible to mail 4000 pieces and expect the vendors to provide use services after the mailing.

Pohorilak — Keep records of mailing, no one who's affected would be missed.

Baker — Talk to the County Sheriff, to get town in their jurisdiction.

Neal — The point is to make a Good Faith effort, a combination of a mailing and the public notices seems to be the most effective method to reach as many as possible, as well as meet our obligations.

| | |
|---|---|
| Danhaer | A cover letter to CEO on a State by State basis, 100 % coverage. The cover letter must address that the CEO should refer the survey to the person responsible in their organization for complete understanding. |
| DiBella | We will a larger room to meet the needs of the larger committee |
| Danaher | CEO in Conn., I will mail, after we have completed the appropriate cover letter. |
| Mangini | CEO's would cover a substantial amount of the population, with using Chiefs Association, it should supply quality returns. |
| Vogel | Show legal compliance. |
| Chairman | The object was for the Committee to reach as many people as possible and meet our obligations. Is there any objections to the plan for the Utilization Sub Committee to use a diverse approach to the problem. |
| Mangini | Appears to be the best direction. |
| Meehan | Vt. better off on one on one basis, I will provide direction to the Sub Committee. |
| Mangini | We will go back look at the structure of the process and come back to the committee with a revised procedure. |
| Chairman | There is a need to set up a meeting so that the Sub Committee on Technology (Swenson and Pineau) can start addressing their section of the Plan.<br><br>Is there any other business to be discussed? |
| Meehan | I would like to make a motion to move the venue of the next meeting to the Nashua NH City Council Auditorium. The mayor of the city of Nashua has expressed an interest in providing the Committee the use of the facility. It would also show that the Committee is attracting participants from NH, Vt. and Maine to the Committee. |
| Baker | Motion Seconded |
| Chairman | Unanimous vote Motion accepted, the next meeting will be held in Nashua NH.<br><br>If there are no objections the meeting will be held February 22, 1989 at the Nashua NH City Council Auditorium directions will be included in the minutes of the meeting.<br>Motion to adjourn<br>Seconded<br><br>Meeting adjourned 12:43 p.m. |

Attendance List Region 19
New England Region 800 MHz Planning Committee
January 25, 1989

| | | |
|---|---|---|
| Kathy Washington | Metro Police<br>727-5520 | 20 Somerset St<br>Boston Ma |
| Bob Fleissner | Motorola<br>201-227-4618 | Glen Rock, NJ |
| Emil Vogel | Motorola<br>201-447-7733 | Glen Rock NJ |
| Jim Bayer | CT-DOT<br>203-566-0376 | Rocky Hill, CT |
| Rob DiBella<br>Ed Hennequin<br>George Pohorilak | CT-BSET<br>203-566-3243 | Hartford, CT |
| Mike Meehan | Burlington FD<br>802-864-4554 | Burlington, VT |
| Ralph Thomson | Worcester FD<br>508-799-1798 | Worcester, MA |
| Jack Chapman | General Electric<br>508-366-7130 | Westboro, MA |
| John Pineau | Boston PD<br>617-247-4620 | Boston, MA |
| David Troup | Boston PD<br>617-247-4620 | Boston, MA |
| Fran Danaher | 550 Main St<br>203-722-8235 | Hartford, CT |
| Howard Baker | GBPC<br>617-552-7258 | Norton, MA |
| Richard Neal<br>Robert Cruikshank | Motorola<br>617-736-1200 | Waltham MA |
| Bruce Alexander | Dept of PH<br>617-451-3433 | Boston, MA |
| | | |

The meeting was called to order at 10:12 am on Wednesday February 22, 1989 in Nashua, NH at the City Council Auditorium, see attached list for attendees.

Opening Statement by the Chairman addressed the issue of resources for the Committee. The committee has experiencing a problem with the clerical aspects of the Committee. The Secretary of the Committee is having great difficulty processing the minutes and the mailing that have to be accomplished each month. The problem has accelerated to the point, where the processing of the minutes have impacted her position in the organization. The Chairman's remarks were directed to the Committee as a series of question, (1) Should we continue to provide minutes to non-active members of the Committee (2) Is there a member of the Committee who is willing to assume the responsibilities of the Secretary, (3) the design of the Committee process with the Sub-Committees to address certain aspects of the plan, does it best serve our goals.

A discussion took place with the following conclusions; this will be the last mailing of minutes to the members of the Committee that are not actively participating in the Plan process by attending meeting or expressing an interest in the Committee process. Only attending members of the Committee will receive minutes of the meeting, in the event that a non attending member wishes to receive the minutes, then they should contact Chairman Nagle at this office 617-727-6371.

The discussion produced several alternative for the position of Secretary, after substantial negotiations it has been agreed upon the Kathy Washington will remain as Committee Secretary. The reduced minutes and mailings will enable the Committee/Kathy to function as more efficient manner.

The Committee decided as a whole that in fact the Sub Committee process was the best vehicle to accomplish our goals. The consensus was that the process has been progressing at an acceptable rate, to meet our indicated timeframe.

The Committee has recommended that the format of the minutes should be "general discussion" format as opposed to the "specific discussion" that has been utilized by the Committee in the past. The revised format will reduce the size of the monthly minutes and mailing issues.

Emil Vogel of Motorola delivered the Technology Update to the Committee. Mr. Vogel stated the standard issue would be discussed by the FCC Commissioners on 02-22-89. Mr. Vogel also provided an update for the status of the various plans around the country; Dallas/Fort Worth-FCC review; Southern California-Plan sent back by FCC, Florida-Plan returned by FCC, Northern California-Plan under review; should experience the same problem as Southern California, Chicago-no movement in process. Mr. Vogel stated that there have been some problems between APCO and CET about the timetable for completion.

Sub-Committee Reports:

Plan Implementation Procedure: Mr. Pohorilak stated that he is unable to make any conclusions until he has a substantial number of surveys returned to the sub committee. All members are asked to complete the survey and forward to Mr. Pohorilak.

Spectrum Utilization: Mr. Mangini explained the problems associated with the mass mailing that were underway, he further asked the Committee to make a recommendation as to whether we should do the mailing or not. A discussion took place addressing the problem, it was the consensus of the Committee that we should not do the mass mailing. A reduced mailing was suggested incorporated

with public notice (professional publications, etc.). Mr. Mangini will proceed with the assistance of the other members of the sub-committee.

A motion was made to return the meeting of the previous meeting in Worcester, MA. at the Police Department by Mr. Blesso, montion seconded by Mr. Thomson. Motion was carried.

Next meeting: Worcester Police Department
9 Lincoln Square
Worcester, MA
10:00 am
Wednesday, March 29, 1989

**NEW ENGLAND REGION 800 MHZ**
**PLANNING COMMITTEE**

ATTENDANCE LIST February 22, 1989

| | | |
|---|---|---|
| Richard Neal | Motorola Inc.<br>45 Rumford St, Waltham Ma | 617-736-1250 |
| Emil Vogel | Motorola<br>85 Harrison Rd, Glen Rock NJ | 201-447-7733 |
| Mike Meehan | 96 Morrill Rd<br>Burlington Vt | 802-658-0101<br>Burlington Fire |
| Ralph R. Thomson | Worcester Fire<br>9 Lincoln Sq. Worcester | 508-799-1798 |
| John Pineau | Boston Police<br>85 Williams Ave Hyde Park | 617-247-4214 |
| James Blesso | Statewide Emer. Telecomm. | 203.529-5597 |
| George Pohorilak | Statewide Emer. Telecomm | 203-238-6429 |
| George Davis | Ct State Police<br>294 Colony St Meriden CT | 802-244-8786 |
| Tom Davis | Vt. State Police<br>103 S. Main St Waterbury, VT | 617-736-1200 |
| Rick Pollack | Motorola Inc.<br>45 Rumford St, Waltham Ma | 617-736-1250 |
| Michael Mangini | Boston EMS<br>727 Mass Ave Boston MA | 617-424-4347 |
| John Marechal | SW NH Fire Dist<br>Keene NH | 603-352-1291 |
| David Troup | Boston Police | 617-247-4620 |

**NEW ENGLAND REGION 800 MHZ**
**PLANNING COMMITTEE**

The meeting was called to order at 10;20 am on Wednesday, March 29, 1989 in Worcester, MA. at the Worcester Police Department, see attached of attendees.

Opening statement by Chairman Nagle addressed the issue of last month minutes and their new formant. The Chairman recommended that the minutes be reviewed by the committee members for accuracy within the new format. Other issues that were covered by the Chairman included the issue of Spectrum Utilization. A review of available spectrum in the Metropolitan Boston area indicates that there are no frequencies available in the 800 MHz spectrum range. The Chairman made a point of discussing with the committee that there are several agencies/organizations that are holding licenses that are in violation of their slow growth plans. The Chairman indicated that it is incumbent upon the committee that in the event that an agency/organization applies for frequencies in the 800 MHz spectrum, and that they an implement a system without a slow growth plan, the committee should make a recommendation to the FCC to review holders of licenses that are in violation of their slow growth plans. One of the basic objectives of the committee is to see that Spectrum efficiency is achieved.

The Chairman updated the committee on correspondence from APCO Executive Director Bob Tall who has forwarded a bill filed by Congressman Howard Neilson (R-Utah) to establish National Standards for trunking. The Chairman will send a letter expressing the views of the committee to Congressman Neilson.

Emil Vogel provided the committee with an update on the status of other regions in the country;

| | |
|---|---|
| Tri-State Plan | Final Review by FCC Commissioners |
| Dallas/Fort Worth | Cleared both bureaus, waiting for final review after the Tri-State Plan |
| S. California | Neglected to supply evaluation matrix sent back by FCC. May have a problem with use of off-sets. |
| Florida | Held up for submission because of the sort hold-up with CET/APCO. |

There is a problem at the present time with the computer program that is being designed by CET for APCO. CET experienced a system crash/power failure which has set the program back two weeks to a month. Sorts have been delayed.

Mr. Vogel explained the Plan Draft which was distributed at the beginning of the meeting. The committee as a whole reviewed every section of Draft #1, opening discussion on all sections of the Draft.

Spectrum Utilization-A discussion took place about what would be considered primary and secondary zones. The committee agreed that the zones have to come from the city of Boston. A report will be submitted at the next meeting using a 70-75 mile radius of Boston.

Common Channel Implementation-This section was referred back to the Communication Requirements Sub-Committee to examine the NPSPAC report recommendations on the five (5) interoperability channels, on how to implement, and manage operationally. The Sub-

Committee will examine the verbiage in the other Plans. A report will be submitted at the next meeting.

Implementation and Procedures-A discussion took place with reference to the addition of a paragraph in the opening section addressing the evaluation matrix. This discussion focused upon the fact that there is no critical need in the region and the opposing argument stating that a process should be established at the submission of the Plan. The issue was tabled and a report will follow at the next meeting. The Tri-State Plan point rating appendix was handed out to the committee. A discussion took place on the point rating system. The committee was implored to make any changes/comments on the hand-out. The point rating will be discussed at the next meeting. The Chairman implored the committee to make any changes and the committee should be prepared at the next meeting to debate the merits of the evaluation process and ratify the matrix.

Appendix A-Evaluation Matrix Flow Charts
Appendix B-Population Figures
Appendix C-Population Density Figures
Appendix D-Service Point Rating for Channel Assignments
Appendix E-Map of Primary and Secondary Areas
Appendix F-Frequency Assignment Methodology
Appendix G-Members of the Committee
Appendix H-Notification List
Appendix I-Minutes of the First Official Meeting
Appendix J-Participating Agencies

Next Meeting: Worcester Police Department
9 Lincoln Square
Worcester, MA
10:00 AM
Wednesday, April 26, 1989

Meeting was adjourned 11:45 AM

**NEW ENGLAND REGION 800 MHZ**
**PLANNING COMMITTEE**

ATTENDANCE LIST MARCH 29, 1989

| | | |
|---|---|---|
| Scott Stanton | Derry NH EMA | 603-434-2773 |
| George Davis | Ct. State Police | 203-238-6429 |
| Tom Davis | Vt. State Police | 802-244-8786 |
| Rich Bohmer | Coopers and Lybrand Consulting Services | 609-452-0542 |
| Rick Pollack | Motorola Waltham, Ma. | 617-736-1200 |
| Emil Vogel | Motorola Glen Rock, NJ | 201-447-7733 |
| George Pohorilak<br>James Blesso | Ct. Bureau of Emergency Telecommunications | 203-566-3243 |
| Diana Boyko | City of Hartford Fire Department | 203-722-8210 |
| John Marechal | So West NH Fire Mutual Aid | 603-352-1291 |
| Ralph Thomson | Worcester Fire Dept | 508-799-1798 |
| David Troup | Boston Police Dept. | 617-247-4620 |
| John Pineau | Boston Police | 617-247-4214 |
| Christopher Cowley | MBTA Police | 617-722-5151 |
| Mike Meehan | Burlington Vt. Fire Dept | 802-864-4554 |
| Michael Mangini | Boston EMS | 617-424-4347 |
| Richard Neal | Motorola Waltham MA | 617-736-1250 |
| | | |

**NEW ENGLAND REGION 800 MHZ**
**PLANNING COMMITTEE**

Minutes
Wednesday April 26, 1989
Worcester Police Headquarters
9-11 Lincoln Square
Worcester, MA.

The meeting was called to order at 10:30 a.m. by Chairman Donald Nagle.

In his opening statement, Chairman Nagle announced that there was a handout of appendixes and that Mr. Emile Vogel was in Washington, D.C. at the Federal Communications Commission. The TriState plan on circulation was rejected because of grammatical errors, (comma were in the wrong place). All commissioners have a copy. It's approval will hopefully be within the next two weeks. Motorola will receive the final report today or tomorrow. The Dallas/Fort Worth Plan's status is still the same. We are waiting to complete the TriState Plan. The Albany Plan met last week and is planning to meet again on 5/31. The Albany Plan is in the same stage as the New England Plan which is ready to be drafted.

Mr. McNeil asked if we planned to use the TriState Plan as a model for format.

Chairman Nagle stated that the submissions for the New England and other Plans will be in June or July.

Mr. Pollack stated that the first six plans will be scrutinized closely and after that the rubber stamp approval will follow in a shorter period of time.

Chairman then stated the Goals to be established:

1) Interoperability
2) Eligible List, he also encouraged a group discussion after draft is down and the time table is still on schedule.
3) Appendixes
4) Primary/secondary zones

He also informed that there were corrections to be made on Appendixes. The participating agencies will be based on actual participation or receipt of minutes. He would also like to use this as Appendix J. The Department of Public Health is missing Barnstable County Sheriff's Office.

Mr. McNeil stated that the Convenor's notes for next month should be attached to Appendix I along with the 1st meeting minutes from May 18, 1987.

Chairman Nagle asked if all minutes should be inserted.

Mr. Thomson inquired about list dates.

Mr. McNeil stated that it showed an attempt was made.

Mr. Bayer stated that Albany inserted meetings only after the Converor's notification.

Chairman Nagle stated that we must show progress of the plan.

Mr. Bayer stated that the New York Plan had to go back to the 1st Convenors's meeting, including subcommittee reports.

Chairman Nagle stated that we will sort from 5/88 up until submission. He also inquired about the members of the committee, would they be listed from the attendance sheets or the notification list.

Mr. Bayer said that all attendance sheets were used in the Tri-State Plan.

Chairman Nagle stated that all attendance lists will be used. He also suggested that Appendix E would consist of secondary and primary maps. The committee agreed that;

1) A 75 mile radius from the center of Boston
2) A Straight line from the other side of Quabbin Reservoir, Springfield encompassing Rhode Island, Vermont, Maine and New Hampshire
3) We need a map of New England (Harvard Graphics has it).

Mr. Pollack said he could get the disk. He inquired about looking within a 70 mile radius.

Mr. G. Davis inquired about where the arc from the Albany area would go.

Mr. Alexander stated that there are 200 miles from Albany to Boston which would fall into the secondary zone. Springfield would be on the 70 mile radius.

Mr. McNeil mentioned the original meetings:

1) Liaison created between the areas to address demarcation issues.

Mr. Pollack stated that the sort done through APCO CET doesn't know what the surrounding areas are. The sort would have to done in New England first, or we should meet with Albany before they set up the zones.

Mr. Alexander stated that the 75 miles would not be justified for Eastern New York.

Chairman Nagle stated that our concern is Eastern Mass. and Vermont.

Mr. Bayer stated that we would have to interface before the sort is out for maximum user operability.

Chairman Nagle stated that the solution would be:

1. 75 mile radius for New England
2. Contact Albany and ask:
    a. What criteria is necessary
    b. Would there be problems affecting Western Mass, Keene, NH or Vermont

Map of Primary and Secondary zone at next meeting for New England. Contact will be made with Albany.

Chairman Nagle suggested that we need to discuss Evaluation Charts done by George Pohorilak. We should also table the discussion until that group is here next month.

Mr. McNeil stated that we address EMS for DPH under rescue BLS/ALS issue. Also a listing from Region 8 came out #3 with Police #1, and Fire #2.

EMS Committee feels:

1. See Breakdown to identify those agencies' municipal gender as opposed to company.
2. Consider changing format to three categories:
    a. Municipal Emergency Medical Services
    b. Volunteer Rescue Squad
    c. Ambulance Service
3. Oversight unknown origin, the Commission has been consistent in focusing this way; put 3 separate categories as opposed to one service categories.

Mr. Alexander stated that this is an opportunity to weigh things properly.

Mr. G. Davis stated that the Commercial EMS is under a contract to the Municipality and are treated the same as the Municipality.

Mr. McNeil asked if the Municipality had applied for a license and the answer was yes.

Mr. G. Davis asked if there was another term other than volunteer because in Connecticut they rely on Volunteer Organizations as primary first responders.

Mr. McNeil stated that the Municipal EMS could be inferred to mean more than ambulance. Pre-hospital care is the base for generics.

Mr. Mangini stated that under FCC rules it is defined as Rescue Organization.

Mr. McNeil suggested that we need to avoid the words private or contract being under Public Safety.

Mr. Mangini stated that it would be difficult to differentiate under existing rule. The language is vague enough to be tightened up and priority placed on Emergency Medical Care prior to hospitalization.

Mr. McNeil expressed his concern with Fire, Police and Municipal EMS. Should be split to weigh in favor of municipals.

Chairman Nagle stated that a three phase problem exists;

1. Participation
    a. Tailor to meet the needs of New England not just Committee members
2. APCO resolution;
    a. Will fight for EMS to have separate spectrum.

3. Cannot make anyone ineligible under rules set by this committee and re-define the phrasing in the evaluation.

Table discussion until G. Pohorilak is here.

Mr. Chairman suggested discussing interoperability with George Davis.

Mr. G. Davis stated that we were looking at 50 sites statewide on 800.
If faced with 5 more base stations;

1. 20 channels
2. 5 at different locations
3. National call channel
4. Take channel out of trunking sequence and make it available for interoperable
5. Cost fact, willing to trade off Air Force for use of other services.

Any feedback?

Chairman Nagle questioned how would other agencies tie in, every mobile would be equipped with 5 interoperable channels. The Base station frequency would be changed from trunking and made into a repeater. The growth requirement on 800, financially, must be considered. We need a system to address, hardware availability as new systems come on board.

Mr. Bayer stated that the 5 channel holders would be responsible for providing one for tactical use and that anyone less than 5 would not be.

Chairman Nagle stated that the NESPAC concerns are minimal.

Mr. McNeil stated that page 25 of the Draft Plan is under loading factor block # 13. We should be thinking about this, given George's concerns.

Mr. Thomson stated that it has to be stated and that it is required.

Mr. McNeil stated that the language shows consideration toward interoperability which makes Matrix application stiffer.

Mr. G. Davis stated that as a part of an eligibility requirement; we should demonstrate willingness to co-operate.

Chairman Nagle stated that a population by county list will be given to the committee by Ralph Thomson.

Mr. Pollack stated that he would make work processing changes in the plan.

Chairman Nagle slotted the next meeting date for Wednesday, May 17, 1989 Worcester Police Headquarters.

Motions were made for adjournment.

Seconded and heard.

Meeting adjourned at 11:45 a.m.

Attachments:
List of Attendees
KRW/ins

| | | |
|---|---|---|
| James Bayer | Connecticut DOT<br>280 West St<br>Rocky Hill, Ct | (203) 258-0376 |
| George Davis | Connecticut State Police | (203) 238-6570 |
| Tom Davis | Vermont State Police<br>103 S. Main St.<br>Waterbury, VT<br>05676 | (802) 244-8786 |
| Joseph McNeil | Cape and Island EMS<br>PO Box 1197<br>Hyannis Ma<br>02601 | (508) 771-4510 |
| Jack Chapman | General Electric<br>18 Lyman St<br>Westboro, MA<br>01581 | (508) 366-7130 |
| Rick Pollack | Motorola<br>45 Rumford Ave<br>Waltham, MA<br>02154 | (617) 736-1200 |
| Elliot Derdak | Boston EMS<br>727 Mass Ave<br>Boston Ma | (617) 424-4347 |
| Michael Mangini | Boston EMS<br>727 Mass Ave<br>Boston, MA | (617-424-4347 |
| Bruce Alexander | Mass Office of Emergency<br>Medical Services<br>80 Boylston St<br>Boston Ma 02116 | (617) 451-3433 |
| Richard P. Neal | Motorola<br>45 Rumford Ave<br>Waltham MA | (617) 736-1250 |
| John Marechal | S.W.N.H. Dist Fire Mutual<br>A.D.<br>PO Box 175<br>32 Vernon St<br>Keene, NH 03431 | (603) 357-1985 Fax<br>(603) 352-1291 |
| John L. Pineau | Boston Police | (617) 247-4214 |
| Ralph R. Thomson | Worcester Fire Alarm | (508) 752-2806 |
| Scott Stanton | Derry Emergency Management | (603) 434-2773 |
| Kathy Washington | Metro Police<br>20 Somerset St<br>Boston, MA 02108 | (617) 727-5270 |
| Don Nagle | Metro Police<br>20 Somerset St<br>Boston, MA 02108 | (617) 727-5270 |

IBM/attnpln.krw
KRW/lns

**NEW ENGLAND REGION 800 MHZ**
**PLANNING COMMITTEE**

The meeting was called to order by Chairman Nagle at 10:25 AM on Wednesday May 17, 1989 at the Worcester Police Department. See attached list for attendees.

The Opening Statement by the Chairman addressed several issues that were place before the Committee as a whole, as the review process approaches the final phases. The issues discussed were as follows:

1, Review of the Primary/Secondary Zones; 75 Mile Radius from the City of Boston, to a 50 Mile Radius around the City of Boston. Concerns that the rural areas would be placed in the same circumstances as the populated areas.

2. Review of the Evaluation Matrix; there is an expressed concern about the separation of the EMS function from the submitted matrix.

3. Review of the enactment of the Evaluation Matrix; putting the methodology in place to establish the Matrix for all applicants.

4. The ability to provide a sort of the frequencies at the next meeting, based on the resident frequencies of the Region 8-Tri-State Plan approval and channel assignment equation developed by the Committee. The equation recommended for channel assignment was based on a cross of the equations from the Tri-State Plan and the Mississippi Plan, four (4) channel minimum and One (1) channel for every twenty-five thousand (25,000) in population.

6. Interoperability issues concerning the establishment of National Calling and Tactical Channels as well as the issue of Telephone Interconnect capabilities in the Plan. The recommendation of the Chairman on the issue of Interconnect capabilities was that is should be viewed as a management issue for the applicant. The applicant will have to go through the Evaluation Matrix process to determine the qualifications of each applicant.

The committee began the review process of Draft #2, Rick Pollack of Motorola handled the page by page review of the Draft, since he provided the changes from Draft #1. Changes will be noted on a page by page basis and as motions are placed before the Committee.
Page 3-SE Mass. Emergency Medical Council was added to the list of participation agencies.
Page 5-The first paragraph, the word UPON will replace the phase “with the”

Page 15-acceptance of the revised Communications Requirements submitted to the Committee by the Communications Requirements with some changes. Under the section CALLING CHANNEL, fourth line remove the word MOBILE, and add the statement a “minimum shall cover their jurisdictional area.

The section MUTUAL AID CHANNELS; in the fourth line change the word REPEATER to Channel.

Motion to accept the revised section made by Ralph Thomson, seconded by Ralph Swenson, Vote was unanimous.

Page 18-The section dealing with Encryption, third paragraph, remove the two (2) sentences beginning with the word, HOWEVER ending with the word TRANSMISSION.

Page 20-Delete the section dealing with telephone interconnect, last paragraph on the page, first paragraph on Page 21. Motion to accept made by Michael Mangini, seconded by Ralph Swenson, Vote was unanimous. Debate took place on the merits of management decision.

Page 22- An Appendix K was added to the Plan, the Chairman will provide letter to adjoining Regions for the next meeting.

Page 23- Statement of the equation to determine spectrum needs, one channel for every 25,000 of population per county with a base minimum assignment of four channels per county. The section dealing with REGIONAL PLAN REVISION change to REGIONAL PLAN UPDATE. Delete first word PERIODICALLY, change the work REVISE/REVISION in the first paragraph to UPDATE. County Maps will be provided with the SORT at the next meeting.

Page 24-Under the section dealing with EVALUATION CRITERIA APPLICATIONS delete the first two (2) paragraphs dealing with the anticipation of frequency shortages. Motion made by Joseph McNeil, seconded by George Pohorilak, a discussion of the merits of the section took place, Vote Unanimous to remove the section.

Channel Assignments by county was provided to the Committee by Bob Russell of Motorola Engineering, attached to the end of the Plan. In addition to the Channel assignments, assignments over Line A (50 mile radius) was addressed and attached to the Plan.

Appendix B-Population Figures by State and by County was provided for all of the states in the Region, and accepted by the Committee.

Appendix C-Population Density by State by County was provided for all of the states in the Region, and accepted by the Committee.

Appendix D-George Pohorilak will provide an updated version of the Service Point Rating for Channel Assignment for the next meeting. A motion was made by Joseph McNeil to separate the EMS functions in the Service Point Rating Charts follows; Municipal Emergency Medical Services, Volunteer Rescue Squads, Ambulance Services, seconded by John Marechal, Motion Passed-Vote Unanimous.

Appendix E-Map of Primary and Secondary Areas will be provided by Chairman Nagle indicating the approved 50 Mile Radius from Boston, including the counties of each state.

Appendix F-CET/APCO should be able to provide the Committee with the Sort for the next meeting. Rick Pollack will provide the Committee with the Sort or a progress report on the Sort.

Appendix K-Chairman Nagle will provide a letter to the adjoining Regions asking their review of the Region 19 Plan that will be submitted to the FCC, for the next meeting.

CHAIRMAN'S NOTE:

All members of the Committee should schedule enough time to complete the Review process of Draft #3 Plan to the FCC in July. All members are asked to be prompt, the meeting will be called to order at 10:00 AM. It should be noted that the meeting held on May 17, 1989 adjourned at 1:15 PM. Please be prepared with questions/motions to facilitate the lengthy Review process.

Next Meeting: Wednesday June 21, 1989
Worcester Police Department
Worcester, MA
10:00 AM

Attachment: List of Attendees

**NEW ENGLAND REGION 800 MHZ PLANNING COMMITTEE**

Meeting Attendance May 17, 1989
Worcester Police Department
10:00 AM

| | |
|---|---|
| Ralph Thomson | Worcester Fire Department<br>911 Lincoln Square<br>Worcester MA<br>508-752-2806 |
| George Davis | Connecticut State Police Department<br>294 Colony St<br>Meriden Ct<br>203-238-6429 |
| George Pohorilak | Ct. Bureau of Statewide Emergency Telecommunications<br>20 Grand St<br>Hartford, Ct 06160<br>203-566-3243 |
| Scott Stanton | Derry N.H. Emergency Management<br>PO Box 704<br>Derry, NH<br>603-434-2773 |
| Diana Boyko | Hartford Fire Department<br>550 Main Street<br>Hartford, Ct<br>203-722-8210 |
| Rick Pollack<br>Bob Russell | Motorola Inc<br>84 Rumford Ave<br>Waltham, Ma<br>617-736-1200 |
| Joseph McNeil | Southeastern Mass EMS<br>PO Box 1197<br>Hyannis, MA |
| Ralph Swenson | Barnstable County Police Radio<br>Main St<br>Barnstable Ma<br>508-362-3434 |
| Elliot Derdok<br>Michael Mangini | Boston EMS<br>727 Massachusetts Ave<br>Boston Ma<br>617-424-4346 |
| John Marechal | SWNH Fire District Mutual Aid<br>PO Box 175<br>Keene, NH<br>603-352-1291 |

New England Region Planning Committee
Wednesday June 21, 1989

Chairman meeting called to order at 10:10 a.m.

Chairman states the sort is not ready. CET is having a problem with the sort which is due to an adjacent plan which is in place and calculations not expected. The sort went in before Florida Plan. It ran 72 hours and it should be read before next meeting date.

Next meeting date is July 19, 1989.

Agenda:

1. Draft of plan
2. Disregard date for extension in minutes
3. Correspondence from Bob Tall frequencies 821 and 826. $75.00/frequency per site/$4500.00

Pineau asks if there is a coordination fee.

Pohorilak states that it is $15,000.

Chairman states that the route of plan is

Frequency Coordination preliminary
Review Committees
APCO

He would like to see Frequency coordinator first then the Review Committee.

Blesso asks which stage does this happen in:

Panning group should review then coordinator should address technical aspects, he then steps through APCO.

Chairman states once in place the plan would go to the coordinator in order to understand issue of 2 entities.

Blesso states that at the APCO conference in West Virginia the application and coordination fee was submitted to Coordinators. New York and New Jersey accepted and Connecticut did not want finances to go through State Agency. What image would this project? The Tri-State area will submit to Secretary of Planning Group. Secretary will strip off financial document and forward to Conn. Agency, then frequency coordinator at APCO.

Pineau stated that he would not touch any funds. APCO s delegated by Commission and its their responsibility.

McNeil states that he will make National APCO aware after meeting in West Virginia. Modification was going to take place and National APCO would be able to keep the financial documents in Florida.

Pineau states APCO encourages frequency advisor to send copy for pre-coordinator. If search is done before this a fee is involved. Between APCO and applicant. They should direct us.

Chairman asks if a letter was sent to Bob Tall.

McNeil states that West Virginia agreement appears to be changed.

Chairman states that the Coordinator appears to be acting as a holding company for APCO. APCO should be handle it.

McNeil states that if they are the agent, they hold the financial instrument in Florida and then send it back to the coordinator. What do we do? Apply for frequencies, give draft plan to committee (local coordinator and then back to applicant to pay for licensing) The process starts in Florida, the applicant either wins or looses.

Davis, G. states that the frequency sort has some known frequency plugged in because of close proximity with Tri-State. Committee needs to look at:

1. Availability of frequency
2. Evaluation of matrix contention between users
3. Additional sorts done after receipt of application

APCO is to rubber stamp and sign checks. Leaves no room for flexibility for APCO on assignment of frequencies. If so 1) submit to local coordinator or regional group for pre-coordinator, 2) formal application and fees to APCO.

DiBella states that today at 2 p.m. a conference call to Erbington, New Jersey regarding first time pre-coordination for 21 pool, done by phone will happen and information will be forwarded to APCO.

Pineau asks if he has documentation of this.

DiBella says yes.

Blesso states that APCO will see plan committee.

Chairman states that the issue is one financial instruction. Should we avoid mandate of showing agency financial worth? This involves a letter of intent but we could get around that.

Pineau states that the APCO coordinators had committees for the Region

a) Intent
b) Growth
c) Future (it started in CA but could happen here)
    1. APCO Coordinator
    2. Frequency Advisor
    3. Applicant
    4. Planning Committee Representative

McNeil states that APCO is responsible for any action taken by the advisors.

DiBella states that there are two financial instructions;

1. Monies involved in filing matrix
2. APCO fees

Chairman states that the largest portion of the fee goes to National APCO and a percentage to the Chapter. CET charges 250/sort and APCO gets the credit for out work. Method of reimbursing CET from fee to allow reasonable number of sorts. Region should be main contact for applicant and any returned comments come from them. He then suggest tabling discussion and sending letter representing committee to Bob Tall.

McNeil asks if there is a procedure in Tri-State.

Bayer says that in New York:

1. Applicant submitted to Planning committee an APCO FDR #2 form, no finances at this time
2. Reviewed by Connecticut and put into sort and it showed enough frequency therefore there was no matrix. (matrix comes in when there is more agencies than frequencies)
3. Sort came up with the best frequencies that the agencies asked for.
4. Plan has been approved, now submit it along with the official form and monies which acceptance will be place on.

McNeil asks if Commission approves.

Bayer states that negotiations took place but not turn downs.

Davis states that we have to indicate that funding is available.

Bayer states that the deadline is Oct 2, 1989 and if no money and formal forms are in we will lose the frequency.

Thomson states that the applicant will receive a letter stating "they went through the application process"

Bayer agrees and goes on to say that only FRD #2 modified with supplemental questions no sort or engineering data.

Davis, G. states that the final engineering input happens with coordination.

McNeil states that the coordinator is an active member of committee he will see it at the committee level. Goes to the applicant; Florida; then back to the coordinator then APCO. Then put it in our plan and applicant submits in final form as if it were going to Florida.

Blesso states that there is no finite technical information that that would be on formal application to APCO.

Bayer states New York's difference is a lot more agencies are looking for frequencies.

McNeil asks if we should include engineering information.

Page 14 (note)

-to local planning committee, if all information is not there, it will not be accepted by committee before going through APCO.

Pohorilak states that there may be additional financial burden to the applicant.

Bleeso states that the committee will approach problems (region 19) if you open a window

1. Application will trickle in over the years
2. Where will the group be 3 yrs from now?

Pohorilak states that we limit how and when window is open.

Chairman asks what is missing in our matrix.

Bayer states that it is only used if more qualified applicants than channels.

Pohorilak asks if call for window openings mean that the committee is to decide how and when the actual period of open is, is it 30 days?

Thomson asks if there is any waiver method for formal application.

Pohorilak says no, ample time has already been allowed.

Chairman states that himself and Joe McNeil will follow up with a letter to National APCO.

Pollack states that the changes that were made were voted on at last meeting:

pg. 5-work upon replaced in 2nd paragraph
pg. 15-calling channels and stronger wording "agencies required"
pg 20-delete telephone interconnect
pg 22-appendix K
pg 23-change in wording Regional Update Committee
pg 24-matches change has revised matrix evaluation sort Cheshire committee to Cheshire, N.H
Pg 25-Appendix A Block 11
********** see minutes from May meeting

Davis states that the change in primary area will now remove Londonderry out of the primary zone.

Pohorilak asks if the appeal process to matrix section is on page 27

Pollack answers no it is moved to page 23. Also that Orange county be moved to line "a", appendix D is the new service point rating. If the sort is successful, the plan handed out on the 19th will be the copy sent to FCC.

Chairman says to submit Appendix G

Don Nagle
Kathy Washington

Appendix I-all minutes and attendance sheets
Appendix J-vendors to manfacturer's/consultants

Motion to close meeting. Meeting adjourned at 12:00 Noon.

Next meeting will be on July 19, 1989 at Worcester Police Headquarters, Worcester, MA.

621min.kw

REGION # 19
NEW ENGLAND PLANNING COMMITTEE

CT-RI-MA-NH-VT
MINUTES
Wednesday July 19, 1989

Worcester Police Headquarters
9-11 Lincoln Square
Worcester, MA

The meeting was called to order at 10:25 a.m.

Chairman Nagle's opening statement referenced

1. The CET Sort
    a. changes made in the sort
        1. The first run was between 37-38 hours and not successful
        2. the second run was successful however after some modifications were made.
        3. CET presented a bill for $300.00
            a. will be presented to committee

Chairman Nagle now asks Rick Pollack to explain sort.

Rick Pollack explains sort and asks committee to refer to hand out.

1. Connecticut did not show up on sort
2. The sort shows states along with assigned channels.

Rick Pollack then asks Bob Fleissner to explain technical aspects of sort.

Bob Fleissner states that everyone should be aware that the original list sent to CET for sort was based on the committee's formula.

1. The immediate counties around Boston were decreased to 87% of original list
2. Because of the impact of the Region 8 Plan, Hartford County, Middlesex and Providence, R.I., the sort ran for 37 hours and would not give spectrum initially.
3. Therefore those areas had to be cut back.
    a. Take 87% and decrease to 60% of original formula
4. The sort was run again with new figures and appeared to work. We also found that the 60% could be increased to 65%.
5. Out of 230 channels there were 10 with no assignments:
    85 "single"
    70 "double"
    47 "triple"
    14 "quadruple"
    3 "five"
6. This appears to be an excellent sort.

Emil Vogel adds that if you wish to amend you could also use for low power.

Jim Blesso asks if the sort would interface with Region 8.

Bob Bleissner states yes, the computer now knows the distances between channels.

Jim Blesso asks if Region 8 should be notified formally.

Chairman Nagle states that it has been done.

John Pineau asks if 40 dBu reuse was applied.

Bob Fleissner states yes and that there is one unassigned that is 30 low power.

George Davis asks if there is a need for low power channel commonality is it there in the sort.

Rick Pollack states that a final hard copy from CET will be forwarded and includes the input data along with every step taken by the computer. The copy presented today is a fax copy listing final assignments.

Jim Blesso asks if the listing is by county.

Bob Fleissner states that it is.

Chairman Nagle states that when CET started the sort it would not run.

a. The committee's interest was expressed.
b. When it did explode as they (CET) predicted, then a formula to make sort happen was agreed upon.

APCO was approached that the Chapter of APCO (N. Atlantic) has 4 regional plans running now. A contingency on the budget that would allow for monies to assist committee with their plans will be voted on in Sparks, Nevada at the National Conference.

Jim Blesso states that National APCO should see this as a big step in preliminary coordination in which they do receive a fee.

Chairman Nagle states that we'll have more information after the Sparks Conference. He then asks if there is anything missing from the plan.

Emil Vogel states that Los Angeles was called on not have a list of committee member who voted on plan.

Jim Blesso asks if a Voting Protocol has been established, i.e., there are 4 representatives from Connecticut on committee therefore does Connecticut get 4 votes,

Chairman Nagle states there is none established. He then asks the committee if there is an issue re: individual votes. There is none raised.

Emil Vogel states that all those who voted should receive a copy of the final draft.

Chairman Nagle asks if there is a motion to accept the draft and send copies to those who voted.

Motion was made and seconded.

A vote was taken by the secretary, Roll Call read all present voted unanimously.

Chairman Nagle then expressed thanks to the Committee for its hard work and commitment to the plan and for sharing its individualized expertise.

Emil Vogel suggested that the committee (Region 19) consider making a presentation of the plan at the National Conference in Sparks, Nevada. He also gave a projected schedule of Review, Comment, and Application of Plan as follows;

If the plan is presented to APCO in August. The second week in September the plan should go out for Public Comment. If comments are filed, then the committee files a reply. If there are no comments the plan goes up to the Commissioners;

4 weeks –would be the shortest window

6 weeks- would be the largest window

If the plan is accepted the Committee should meet to form a review committee. By the end of the year the plan should be in action.

At this time closing comments were expressed by individual members thanking Chairman Nagle and committee members for a job well done.

Jim Blesso announced the promotional appointment of George Pohorilak to Planning Supervisor at Connecticut Bureau of Statewide Emergency Telecommunications.

Congratulations to George Pohorilak.

Motion for adjournment was made and seconded.

Meeting adjourned at 11:25 a.m.

NEW ENGLAND 800 MHz
REGION # 19 PLANNING COMMITTEE
Wednesday July 19, 1989

ATTENDANCE LIST

| VOTE | NAME | AGENCY | PHONE # |
|---|---|---|---|
| yes | Ralph Thomson | Worcester Fire<br>Worcester, MA | (508) 799-1798 |
| yes | Howard B. Baker | G.B.P.C<br>Newton, MA | (617) 552-7258 |
| yes | John L. Pineau | Boston Police Dept<br>Hyde Park, MA | (617) 247-4214 |
| yes | Scott C. Stanton | Derry Emergency MCT<br>Derry, NH | (603) 434-2773 |
| yes | John Marechal | S.W.N.H. District Fire Mutual Aid<br>PO Box 175<br>Keene, NH 03431 | (603) 352-1291 |
| yes | Joe McNeil | Southeastern Mass EMS<br>PO Box 1197<br>Hyannis, MA 02601 | (308) 771-4510 |
| yes | Ralph K. Swenson | Barnstable County Sheriff's Office<br>Barnstable, MA | (508) 362-3434 |
| | Bob Fleissner<br><br>Emil Vogel<br><br>Rick Pollack | Motorola<br>Glen Rock, NJ<br>Motorola<br>Glen Rock, NJ<br>Motorola<br>45 Rumford Ave<br>Waltham, Ma | (201) 447-7618<br><br>(201) 447-7733<br><br>(617) 736-1200 |
| yes | George Pohorilak | State of CT-BSET<br>20 Grand St<br>Hartford, CT | (203) 5466-3243 |
| yes | Tom Davis | VT State Police<br>103 South Main St<br>Waterbury, VT<br>05676 | (802) 244-8786 |
| yes | George Davis | Ct. State Police<br>294 Colony St<br>Meriden, Ct | (203) 238-6429 |

# APPENDIX J

ORIGINAL PARTICIPATING AGENCIES (BY STATE)

MASSACHUSETTS

Metropolitan Police Department
Boston Police Department
Southeastern Mass EMS council
Boston EMS
Coast Guard
Greater Boston Police Council
MBTA Police, Commuter Rail and Engineering/Maintenance
Worcester Fire Department
American Radio Relay League
Springfield Police Department
Mass. Water Resources Authority
Massport (Logan Airport)
Cambridge Police, Fire, and City Services
City of Boston, Transportation, Public Works
Massachusetts State Police
Department of Public Health
Barnstable County Sheriff

CONNECTICUT

Bureau of Statewide Emergency Telecommunications
Connecticut State Police
City of Hartford Fire
Connecticut Department of Transportation

NEW HAMPSHIRE

Department of Resources and Economic Development
SW NH Fire District
Laconia Police Department
Hudson Police Department
Gilford Police Department
Belknap County Sheriff Department
Department of Transportation
Belmont Police Department
New Hampshire State Police
Derry NH EMA
Cheshire County Communication Department

RHODE ISLAND

Rhode Island State Police
Providence Police Department

MAINE

Department of Transportation
Department of Emergency Management
Maine State Police
Department of Conservation
Portland Police Department

VERMONT

Vermont State Police
Burlington Fire Department
Vermont Emergency Management Department

VENDORS

Motorola Inc- Massachusetts
Motorola Inc-New Jersey
General Electric-Massachusetts
E.F. Johnson-Connecticut
RAM Communications-Massachusetts
Copper & Lybrand-Washington, DC

# Appendix K

## REGION 19 NPSPAC CHANNEL APPLICATION GUIDELINES

In order to facilitate an improved frequency application process, the Region 19 Technical Committee has determined a prescribed application process with detailed engineering requirements that need to be addressed.

Each new or modified frequency requested by an applicant or existing licensee must strictly adhere to this process and provide required engineering documents.

**Checklist of Requirements**

1. Technical Information Sheet and contact person
   a. Region 19 FDR2 (modified) Application for Channel Allotments [1]
   b. Antenna manufacturer, model, pattern, azimuth, down tilt, and height above ground.
2. Copy of existing NPSPAC License to which channels are either being modified or added (if applicable)
3. Co-Channel Analysis consistent with Modeling Parameters (per frequency)
4. Adjacent Channel Analysis Consistent with Modeling Parameters (per frequency)
5. Sketch of System with a written description

**Modeling Parameters & Methods**

The technical statement, which presents a detailed description of the system, existing and as proposed, including coverage analysis, shall be presented for Committee review. The coverage analysis shall be performed by the Region 19 Technical Committee using ComStudy 2.2 (or current version used by Region 19) Radio Propagation Prediction software, with the following parameters:

Prediction Model: Okumura
Area Type: Suburban
Land Use Attenuation: None, not to be applied
Mobile Receiver Height: 1.5 meters above ground level
Additional Attenuation: None
Terrain Input Resolution: 3 second
Terrain Output Resolution: 6-12 second
Reliability/Confidence: Not applicable in this model (median)
Study Distance: 115 km from proposed site

Each frequency and location to be analyzed by Region 19 shall be modeled by the applicant using the above model either using ComStudy 2.2 software (or current version used by Region 19) or in any input format on standard data media, as described in the Administration Paragraph of this document, from which the sites' technical parameters (listed below) can be imported for use in ComStudy 2.2 software (or current version used by Region 19).

[1] As an option to facilitate a more rapid review process, an FCC Form 601 in hardcopy and in FCC Electronic Batch
File (EBF) format may be submitted in addition to the Region 19 FDR-2 (modified).

**Technical Parameters:**

1. A unique site name per frequency per site
2. Latitude and Longitude in NAD83
3. Main Lobe ERP in watts
4. Frequency in MHz
5. Antenna Above Ground Level in meters (antenna radiation centerline)
6. Ground Elevation Above Mean Sea Level in meters
7. Modulation Emission
8. Actual Transmit Antenna Make and model number, horizontal & vertical patterns2[2],
   azimuth, gain, and downtilt

**Co-Channel Modeling & Analysis**

To review the effects of the proposed new or modified selection, a landscape plot on 8.5" x 11.0" with no more than 1" margins shall be provided for each of the co-channel frequencies and locations in a radius of 120-km from each site of the new request. The coverage propagation of each new or modified frequency and location is to be calculated to 5 dBuV/m. This 5 dBuV/m contour shall not overlap any incumbents' calculated 40 dBuV/m contour anywhere within their authorized jurisdictional area, as calculated based on current licenses or Region 8 allotments corresponding to the co-channel entities' areas of operation.

**Note: Use of R6602 curves is not acceptable for either new or incumbent licensees.**

Each Co-channel analysis plot shall be labeled in the upper right corner with:

- Applicant's Name
- Channel number and corresponding frequency in MHz
- Co-Channel Plot (#) of (total # of Co-Channel Plots)

Co-Channel Package shall consist of:

- A table listing all Co-Channel Licensees & their respective Call Signs 120-km or less from each proposed antenna location.
- A table listing and describing the plots provided
- All labeled Co-Channel analysis plots
- A transmitter information report shall be provided for each individual co-channel analysis plot identified with
    - Applicant's Name
    - Channel number and corresponding frequency in MHz
    - Co-Channel Plot (3) of (total # of co-channel Plots)

[2] Preferably, it shall be supplied in conformance with the TIA-IS 804-1 standard for Terrestrial Land Mobile Radio
Antenna Systems – Standard Format for Digitized antenna patterns

**Adjacent Channel Modeling & Analysis**

To review the effects of the proposed new or modified selection against upper and lower adjacent channels (subject freq + 12.5 KHz), a landscape plot on 8.5" x 11.0" with no more than 1" margins shall be provided for each of the adjacent frequencies and locations within 80-km from each site of the new request. The coverage propagation of each new or modified frequency and location is to be calculated to 25 dBuV/m. This 25dBuV/m contour shall not overlap any incumbents' calculated 40 dBuV/m contour within their jurisdictional service area.

**Note: Use of R6602 curves is not acceptable for either new or incumbent licensees.**

Each adjacent channel analysis plot shall be labeled in the upper right corner with:

- Applicant's Name
- Channel number and corresponding frequency in MHz
- Adjacent Channel Plot (#) of (total # of adjacent channel Plots)

Adjacent Channel Package shall consist of:

- A table listing all adjacent channel Licensees & their respective callsigns 80-km or less from each proposed antenna location
- A table listing and describing the plots provided
- All labeled adjacent channel analysis plots
- A transmitter information report shall be provided for each individual adjacent channel analysis plot indentified with
  - Applicant's Name
  - Channel number and corresponding frequency in MHz
  - Adjacent channel plot (#) of (total # of adjacent channel plots)

**Additional Modeling & Analysis**

The applicant may also provide additional or more detailed analyses than that outlined within these guidelines. These additional showing will be considered in the evaluation of the applicant's request. These additional analyses may include items such as:

- Studies considering the antenna patterns of licensed incumbents
- More sophisticated interference studies, such as signal to interference and/or reliability degradation in the presence of aggregate incumbent interference sources.
- Showings for a reduction of the 25 dBu adjacent channel interference threshold level (this would include technology-to technology ACCPR analyses)

The applicant is encouraged to discuss the use of these additional items with the technical and RPUC Committees prior to submission within their application.

**Administration**

Three (3) hard copies of the complete application and technical analysis are to be presented to the Region 19 Committee. Ten (10) CD-ROM copies of the complete application and technical analysis are to be presented to the Region 19 Committee. Included within each CD-ROM shall be the complete ComStudy transmitter information files (*.rs2) for each of the locations and frequencies being applied for.

# FCC REGION 19

# NEW ENGLAND UPDATE PLANNING COMMITTEE

**CHANNEL APPLICATION**

## AUTHORITY OF THE COMMITTEE

Section 90.34 of the FCC Rules and Regulations, state, "The Commission has established a National Plan which specifies specials policies and procedures governing the Public Safety Radio Service. The Nation Plan is contained in Report and Order in Gen. Docket No. 87-112. The principal spectrum resource for the original National Plan was 821-824MHz and the 866-869Mhz bands and currently is the 806-809 MHz and the 851-854 MHz bands. The National Plan establishes planning regions covering all parts of the United States, Puerto Rico, and the U.S. Virgin Islands. No assignments will be made in the 806-809 MHz and 851—854 MHz bands until a revised regional plan for the area has been accepted by the Commission.

The Plan for FCC Region 19, encompassing all of the New England states, except for Litchfield, Middlesex, New Haven, and Fairfield counties in Connecticut, has been approved by the Commission. Channel allocations made by the Committee constitute an amendment to the plan and require the approval of the FCC before a license application can be made.

Public Safety and Special Emergency Service eligible to apply for these channels are identified by the FCC as:

| | |
|---|---|
| Local Government | Disaster Relief Organizations |
| Police Service | Veterinarians |
| Fire Service | Handicapped Persons |
| Medical Service | School Buses |
| Forestry Conservations | Beach Patrols |
| Highway Maintenance | Isolated Community Standby Facilities |
| Rescue Organizations | Emergency Repair of Public Communications |

## COMMITTEE PROCEDURES

To ensure that all eligible agencies have an equal opportunity to apply for the limited 806 MHz spectrum that the Federal Communications Commission has approved the Committee's process of accepting applications only within specific periods commonly referred to as application windows. The current window period is April 1 - May 31 and October 1 - November 30. To be considered by the Committee, the application must contain all information requested and be postmarked no earlier or later than these dates.

Mail three (3) paper copies and ten (10) electronic copies to:

Mr. Jerry Zarwanski
New England Planning Committee (FCC Region 19)
c/o Office of Statewide Emergency Telecommunications
1111 Country Club Road
Middletown, CT 06457-9294

The Committee evaluates and scores each approved application and compiles a prioritized list of those approved and the number of channels they may receive. The number may be less than the number requested. The approved channel allocations are sorted by a computer engineering program which tests all possible configurations of channels considering the proposed geographical area of operations, the topography, and the technical parameters of existing and proposed systems. The process will produce a list of available channels, which may or may not be sufficient to meet the requirements of all applicants. It is possible that an applicant low on the priority list will receive an assignment of channels while none is available for an applicant with a higher priority.

# 806-809 MHZ CHANNELS
# (Section A)

(1) _____ _____
Agency Name Address

(2) Channels _____ (3) Trunked_____ (4) Conventional _____ (5) Slow_____ (6) Voice_____ (7) Data____

| (8) Site | (9) Channel | (10) Latitude | (11) Longitude | (12) Ground **Elevation** | (13) Power Out | (14) ERP | (15) Ant. Tip | (16) Ant. Gain | (17) Ant. Tilt | (18) Ant. Direct |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |

(19)

| Agency | Number of Vehicles | Number of Portables | Number of Aircraft | **Number of Marine** | Number of Pagers |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

(21) Frequencies returned _____ _____ _____ _____ _____ _____

(22) Frequencies not returned _____ _____ _____ _____ _____ _____

(23) Intercommunication Requirements

| Agency | Frequencies | | |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

(24) Systems justification _____

(25) Implementation timetable _____

(26) Comments _____

(27) Application prepared by _____ Phone _____

This agency has a firm intention to implement a new 806 MHz system within the time permitted by the FCC and to return for use by other public safety eligible existing unneeded channels. We will provide the committee copies of all progress reports submitted to the FC. Should implementation not be in or be completed within the time approved by the FCC or channel loading projections not achieved, the channels will be returned for re-allocation to other public safety agencies.

We will comply with all applicable requirements for common channel implementation and participation as described in the application package.

The information contained in the application and attachments is true and correct.

(28) Signature _____ Title _____ Date _____
(typed) _____

Pursuant to Section 1.913 of FCC Rules and Regulations, "…applications, amendments, and related statements of fact filed on behalf of eligible governmental entities…must be signed by a duly elected or appointed official who is authorized to do so under laws of the applicable jurisdiction."

## DIRECTIONS FOR COMPLETING THE APPLICATION – SECTION A

1. Although there may be a number of agencies that will use the system, the name of the licensee should be listed here. The balance of the line if for the agency's mailing address.
2. Enter the number of channels you believe you can justify. Additional information on these channels will be called for in Items 8-18.
3. If the space is to be trunked, place and (x) in the space provided. If not trunked, leave this space blank.
4. If the system is to be conventional, non-trunked, place an (x) in the space provided. If not, leave this space blank.
5. Under specific circumstances, a governmental entity may seek FCC approval for slow growth implementation of their system. Section 90.1155(a) quoted on page 9 provides some guidance. Additional conditions are specified in Sections 90-629 and 90.631(f) of the FCC Rules and Regulations. They are too extensive to be duplicated here. A Committee member or your APCO frequency advisor can provide additional guidance. If you are seeking slow growth, place an (x) in the space provided. If not, leave this space blank.
6. If your system is for analog, voice only, place an (x) in this space. If not, leave this space blank.
7. If your system is intended for data transmission of information or a voice to data conversion system, place an (x) in this space, if not leave this space blank.
8. Use a separate numbered line for each base station's geographical location. If your system will have more than six (6) sites, add an additional addendum sheet using a photocopy of the chart and adding additional consecutive numbered lines. The number of sites must be consistent with your response to Item 2.
9. Starting with "A", list in consecutive letters those channels to be installed at each numbered site. Examples:

   A single channel system with one primary site and one back-up site:

   | Site | Channel |
   |---|---|
   | 1 | A |
   | 2 | A |

   A three-channel system a single site:

   | Site | Channel |
   |---|---|
   | 1 | A-B-C |

   A five-channel system a single site:

   | Site | Channel |
   |---|---|
   | 1 | A-B |
   | 2 | C |
   | 3 | D |
   | 4 | E |

10. Enter in degrees, minutes, and nearest second north. (NAD83)
11. Enter in degrees, minutes, and the nearest second west. (NAD83)

12. Enter ground level in meters (m) above mean seal level (AMSL)
13. Enter the transmitter output in watts
14. Enter effective radiated power (ERP) in watts.
15. Enter the distance in meters (m) from the ground to the top of the antenna.
16. Enter the gain of the antenna from the manufacturer's specifications sheet.
17. Enter the angle in degrees that the antenna is titled from the vertical plane. If none enter 0.
18. If non-directional antenna will be used, enter 360 degrees. If a directional antenna will be used, who the compass point. The nearest degree, the direction of the main power lobe.
19. List all agencies that will use the completed system.
20. For each user agency, indicate the number of each equipment type that will e used when the system is completed.
21. List all frequencies that will be returned for use by other agencies when the new system is completed.
22. List all frequencies that will not be returned.
23. List the intercommunication requirements of your dispatch center.
24. System justification – explain why you require this spectrum.
25. Implementation timetable – explain the proposed implementation schedule of your required system.
26. Comments in this space should be limited to any necessary explanation required for items one (1) through twenty (20). Detailed comments are called for in the supplemental information request in Section B of this application.
27. Provide the name and telephone number of the person who prepared this application. It may be used by the Committee to resolve any question concerning the application or to seek additional information.
28. In compliance with Section 1.913 of FCC Rules and Regulations, the application must be signed by the duly elected or appointed official who is authorized to do so under the laws of the applicable jurisdiction.

# FCC REGION 19 APPLICATION
# 806-809 MHz CHANNELS
# DETAILED INFORMATION
# (Section B)

Note: Response to all questions is mandatory, Additional pages may be attached.

(1) Attach topographical map(s) with information described on the application instructions.

(2) Provide detailed information and supporting documentation showing the budget commitments for the completion of the system for the completion of the system within the time allowed for the conventional or slow growth indicated. (Committee action cannot be based upon speculation so a reasonable showing of the expectation of these funds must be shown).

_____

_____

_____

(3) Item #21 of the application lists the frequencies that will be returned when the new system is completed. Explain how these frequencies are currently being used.

_____

_____

_____

(4) Item #22 of the application lists the frequencies that will not be returned by the users of the new system. Explain the intended use of the frequencies.

_____

_____

_____

(5) Explain how the users of the new system will intercommunicate with other public safety agencies operating in lower bands during emergency or disaster situations.

_____

_____

_____

(6) Explain the needs of your agency for a new system in the 806 MHz spectrum and why those needs cannot be served by Special Mobile Radio Service (SMR), cellular telephone, or other existing communication resources. Explain the deficiencies of your existing system, which caused you to apply for the new spectrum.

_____

_____

_____

(7) Provide a time schedule of all significant phases including funding, licensing, initial operation, channel loading, and completion of your system.

_____

_____

_____

**DETAILED INFORMATION REQUIRED – SECTION B**

The Planning Committee will evaluate a request for channels based upon the information in the application form and the detailed information provided in response to the following:

1. The area of coverage of the system must be limited to the user's area of responsibility plus three (3) additional miles. Provide topographical map(s) showing the 40 DBu contour, which shall be of sufficient quality and detail to ensure that the Regional Plan Update Committee can evaluate the applicant's intended area of coverage. Applicant provided maps shall, at a minimum, show the political boundaries of the applying organization, as well as the political boundaries of adjacent political entities. Any affected entity beyond those adjacent to the applicant will also be shown. The scale of the provided maps shall be presented to show the applicant's political boundaries in relationship to the state in which the applicant is located. Propagation plots shall be generated utilizing programs which are accepted as standards by the telecommunications community. Propagation plots/maps which are deficient and fail to meet the standard set forth in this paragraph will be rejected and the application will be returned to the applicant with an explanation of the deficiency.

2. Provide detailed information and supporting documentation showing the budget commitments for the completion of the system within the time allowed for the conventional or slow growth indicated. Committee action cannot be based upon speculation so a reasonable showing of the expectation of these funds must be shown, including documentation from the fiscally responsible individual of the jurisdiction.

3. Item 21 asks for the listing of frequencies that will be returned when the new system is completed. Explain how these are now used.

4. Item 22 asks for the listing of frequencies that will not be returned by the users of the new system. Explain the intended continued use of these channels.

5. Explain how the users of the new system will intercommunicate with other public safety agencies operating in lower bands during emergency or disaster situations.

6. Explain the needs of your agency for a new system in the 806 MHz spectrum, and why those needs cannot be served by Special Mobile Radio Service (SMR), cellular telephone, or other existing communication resources. Explain the deficiencies of your existing system which caused you to apply for the new spectrum.

7. Provide a time schedule of all significant implementation phases including: funding, licensing, initial operation, channel loading, and completion of your system. Failure to adhere to the submitted schedule upon licensing may have your licensed frequencies/channels to be returned to the FCC for non-compliance.

## FCC REGION 19 FREQUENCY ADVISORS FOR EACH STATE

Connecticut
Mr. Jerry Zarwanski
Dept. of Public Safety
Office of Emergency Telecommunications
1111 Country Club Rd.
Middletown, CT 06457
Phone (860) 685-8157

New Hampshire
Mr. James Kowalik
New Hampshire Dept. of Safety
10 Hazen Drive
Concord, NH 03305
Phone (603) 271-2421

Maine
Mr. Mark Poole
Maine State Police
36 Hospital St.
Augusta, ME 04330
Phone (207) 624-9933

Rhode Island
Mr. James Warakois
Boston Police Dept.
2626 Centre Street
West Roxbury, MA 02132
Phone (617) 343-4214

Massachusetts
Mr. James Warakois
Boston Police Dept.
2626 Centre Street
West Roxbury, MA 02132
Phone (617) 343-4214

Vermont
Ms. Angela Bean
Vermont Dept. of Public Safety
409 U.S. Route 2
Montpelier, VT 05602
Phone (802) 229-0882

### RELEVANT FCC RULES AND REGULATIONS

The FCC Rules and Regulations quoted here were selected to provide reference to issues relating to the Committees' application process and the subsequent license request. The original documents should be consulted for any additional information. The Association of Public Safety Communication Officials (APCO) frequency advisor for your state can also provide additional technical assistance. They are listed above.

Section 90.633(a)-"Conventional systems of communications will be authorized on the basis of a minimal loading criteria of 70 mobile stations for each channel authorized."

Section 90.631(a)-"Trunked systems will be authorized on the basis of a loading criteria of 100 mobile stations per channel. For the purpose of determining compliance with trunked system loading requirements under this subpart, the term "mobile" station includes vehicle and portable mobile unites and control stations."

Section 90.155(a)-"All stations authorized under this part, except as provided in paragraph (b) of this section and in Sections 90.629 and 90.631(f), must be placed in operations within eight (8) months from the date of grant or the authorization cancels automatically and must be returned to the Commission."

Section 90.155(b)-"For local government entities only, a period longer than eight months for placing a station in operation may be authorized by the Commission on a case by case basis, where the applicant submits a specific schedule for the completion of each portion of the entire system, along with a showing that the system has been approved and funded for implementation in accordance with that schedule."

Section 1.913-"…applications, amendments, and related statements of fact filed on behalf of eligible governmental entities such as states and territories of the United States, their political subdivisions, the District of Columbia and units of local government, including unincorporated municipalities, must be signed by a duly elected or appointed official who is authorized to do so under the laws of the applicable jurisdiction."

### INTERNATIONAL COMMON CHANNELS

The National and Regional plans require the nationwide establishment of five (5) common channels for interagency communications in times of disasters and mutual aid situations. To achieve the objective, each recipient of an 806 MHz license must comply with the rules for common channel utilization per FCC Docket No. 90.53 as indicated on pages 11-14 of this application.
The area of coverage for the common channel system must be equal to the coverage achieved by the entity's own system. If it is technically feasible without additional cost, the Committee may require that the area of coverage be extended.

**AMENDMENT TO THE REGIONAL PUBLIC SAFETY PLAN**
**DOCKET NO. 90-53, NEW ENGLAND AREA**
**REGION 19 PLAN**

**Common Channel Usage Policy**

1. As used in this document, "Agency" refers to an FCC Licensee.

2. Shared use of channels by multiple agencies dictate that the least amount of power and minimum coverage to achieve spectrum efficiency be the guiding principles.

3. Any agency, or joint agencies, authorized under Part 90 of the FCC Rules and Regulations to operate five or more 806-809/851-854 MHz channels is required for each multiple of five to implement the National Mutual Aid (Common) Calling and Tactical Channels in accordance with the Regional Plan, i.e., Calling Channel, tone remote controlled, repeater/base station with talk-around receive and a Tactical Channel, four channel frequency selectable tone remote controlled, repeater/base station with talk around receive.

4. In order to accomplish the proper use of the Common and Tactical Channels, the agency must also implement the Calling Channel, or be joined into a monitoring method of the Calling Channel, within its area, for the express purpose of 1) to respond to non-routine inquiries as defined in paragraph 7 below, or 2) turning on its Tactical Channel upon the request of a duly authorized agent of the agency requiring its use.

5. It shall be the responsibility of every licensee of a Calling or Tactical Channel to keep its repeater function disabled at all times other than when assigned for conducting given mission where wide-area repeater operation is necessary. The Calling Channel shall be monitored at all times by the licensee and shall be used only to handle brief, itinerant traffic and requests for use of a Tactical Channel for an authorized, appropriate mission. The use of "talk-around" shall be preferred over repeater use where range limitations permit.

6. Unless incidental to an approved multi-agency mission, the use of any of the Common Channels, whether repeated or talk-around, for intra-agency communications, is prohibited. Use of any of the Common Channels, whether repeated or talk-around, for routine or trivial uses, ever if inter-agency, is also prohibited.

7. A given mission for Common Channel operation shall be defined as "use for non-routine communications by agencies requiring interoperability for inter-agency activities only." Routine is defined as "a normal established method of message exchanging, i.e. frequent or regular use."

8. Where one or more agencies within, or subject to, a given governmental entity below the state level has an aggregate total of five or more channels of 806-809/851-854 MHz of spectrum, that entity must bear the responsibility to implement and maintain the Calling and Tactical Channels within the area of operation of those systems.

9. As established by mutual understanding between the United States and Canada, the (International) Common Channels shall be named as follows:

| Name | Mobile TX | Base TX | CTCSS |
|---|---|---|---|
| ICALL | 806.0125 | 851.0125 | 156.7 Hz |
| ICALL Talk-Around | 851.0125 | 851.0125 | " |
| ITAC-1 | 806.5125 | 851.5125 | " |
| ITAC-1 Talk-Around | 851.5125 | 851.5125 | " |
| ITAC-2 | 807.0125 | 852.0125 | " |
| ITAC-2 Talk-Around | 852.0125 | 852.0125 | " |
| ITAC-3 | 807.5125 | 852.5125 | " |
| ITAC-3 Talk-Around | 852.5125 | 852.5125 | " |
| ITAC-4 | 808.0125 | 853.0125 | " |
| ITAC-4 Talk-Around | 853.0125 | 853.0125 | " |

**Primary/Secondary Tactical Channel Assignments (ITAC Channels)**
**FCC Region 19 (Revised 10-96)**

| State | County | Assignment Primary | Assignment Secondary |
|---|---|---|---|
| Connecticut | Hartford | 4 | 1 |
| | Tolland | 3 | 2 |
| | Windham | 1 | 4 |
| | New London | 2 | 3 |
| Massachusetts | Berkshire | 3 | 2 |
| | Franklin | 1 | 4 |
| | Hampshire | 4 | 1 |
| | Hampden | 1 | 4 |
| | Worcester | 2 | 3 |
| | Suffolk | 3 | 2 |
| | Middlesex | 1 | 4 |
| | Norfolk | 3 | 2 |
| | Essex | 2 | 3 |
| | Plymouth | 3 | 2 (North) |
| | Plymouth | 2 | 3 (South) |
| | Barnstable | 4 | 1 |
| | Dukes | 4 | 1 |
| Rhode Island | Providence | 4 | 1 |
| | Kent | 3 | 2 |
| | Bristol | 1 | 4 (North) |
| | Bristol | 2 | 3 (South) |
| | Newport | 2 | 3 |
| | Washington | 1 | 4 |
| Maine | Aroostook | 3 | 2 |
| | Piscataquis | 2 | 3 |
| | Somerset | 4 | 1 |
| | Franklin | 3 | 2 |
| | Penobscot | 4 | 1 |
| | Washington | 1 | 4 |
| | Hancock | 2 | 3 |
| | Waldo | 3 | 2 |
| | Knox | 4 | 1 |
| | Lincoln | 4 | 1 |
| | Sagadahoc | 4 | 1 |
| | Cumberland | 1 | 4 |
| | York | 3 | 2 |
| | Oxford | 4 | 1 |
| | Kennebec | 1 | 4 |
| New Hampshire | Belknap | 1 | 4 |
| | Carroll | 2 | 3 |
| | Cheshire | 4 | 1 |
| | Coos | 1 | 4 |
| | Grafton | 4 | 1 |
| | Hillsborough | 1 | 4 |
| | Merrimack | 3 | 2 |
| | Rockingham | 2 | 3 |
| | Stafford | 4 | 1 |
| | Sullivan | 1 | 4 |
| Vermont | Franklin | 4 | 1 |
| | Orleans | 2 | 3 |
| | Essex | 4 | 1 |
| | Caledonia | 3 | 2 |
| | Lamoille | 1 | 4 |
| | Chittenden | 3 | 2 |
| | Washington | 2 | 3 |
| | Addison | 1 | 4 |
| | Orange | 4 | 1 |
| | Rutland | 2 | 3 |
| | Windsor | 3 | 2 |
| | Bennington | 4 | 1 |
| | Windham | 2 | 3 |

# Appendix M

# _____

Evaluation Matrix Score Sheet

Applicant Name _____
Address _____
City/Town, State, Zip _____

Number of Channels _____ Trunked: (Y) (N)

Service A _____ Pt. Val. _____ % _____
Service B _____ Pt. Val. _____ % _____
Service C _____ Pt. Val. _____ % _____

I. Service points value (max. 350 pts.)
From Appendix D x 10 = _____

II. Intersystems Communications (max. 100 pts.)
Degree of Intersystems Communications 0 – 100 _____

III. Loading (max. 150 pts.)

| | | |
|---|---|---|
| Cooperative System | 0 – 100 | _____ |
| Expansion of existing systems | 0 – 50 | _____ |
| Single User | 0 | _____ |

IV. Spectrum Efficient Technology (max. 100 pts.)
Degree of 0 – 100 _____

V. Systems Implementation Factors (max. 100 pts.)

| | | |
|---|---|---|
| Degree of Budget Commitment | 0 – 50 | _____ |
| Degree of Planning Completion | 0 – 50 | _____ |

VI. Geographic Efficiency (max. 100 pts.)

| | | |
|---|---|---|
| Ratio of Mobiles to Area | 0 – 50 | _____ |
| Channel Reuse Potential | 0 – 50 | _____ |

VII. Giveback (max. 100 pts.)

| | | |
|---|---|---|
| Number of Channels | 0 – 50 | _____ |
| Available to others | 0 – 50 | _____ |

**Total Score:** _____

## EVALUATION MATRIX NOTES

1. Service – maximum 350 points.

   Eligible service point value from (Appendix D). Multiplied by ten (10). Multiple services will be scored on the basis of the percentage that each service represents of his total system. (50% police and 50% (school administration)
   50% of 35 + 50% of 6.9 = 17.5 + 3.45 = 20.95 x 10 = 209.5.

2. Intersystem Communications – maximum 100 points.

   Degree of interoperability does not rate on the inclusion of the mandated five common channels. Rate the application on proposed ability to communicate with different levels of government and services during times of emergency.

3. Loading – maximum 150 points.

   Demonstrated participation in a cooperative, multi-organization, systems scored on a range of 0 to 150 points depending upon the extent. Expansion of an existing 800 MHz system scored on a range of 0 to 50 points, depending upon the degree. Expansion of an existing 800 MHz and a cooperative system receives combined point values.

4. Spectrum Efficient Technology – maximum 100 points.

   Degree of spectrum efficient technology demonstrated. Trunked systems as well as any technological systems feature which enhances the efficiency of the system and provides for the efficient use of spectrum.

5. Systems Implementation Factors – maximum 100 points.

   Degree of budgetary commitment 0 to 50 points. A high degree of funding commitment will receive the higher score. Degree of planning completeness scored from 0 to 50 points. A timetable for the implementation of the communications system or systems is required.

6. Geographic Efficiency – maximum 100 points.

   Ratio of mobiles to area covered measures the level of efficient coverage that a system demonstrates. The higher the ration (number of mobiles divided by square miles of coverage) the more efficient use of the frequencies 0 – 50 points. Large geographic areas – greater potential for channel reuse higher score. Level of channel reuse potential 0 to 50 points.

7. Givebacks – maximum 100 points

   The greater the number of channels given back a higher score range of 0 to 50. The greater the level of availability of givebacks the higher the score of 0 to 50.

Appendix N

Adjacent Region Contact Information:

Region 8, Metropolitan New York, New Jersey, four counties in Connecticut
LIEUTENANT ANTHONY MELIA – Acting Chairman
NJ STATE FREQUENCY COORDINATOR
APCO NJ FREQUENCY ADVISOR
ESSEX COUNTY SHERIFF'S OFFICE
FIELD OPERATIONS DIVISION
50 NELSON PLACE
NEWARK, NJ 07102
VOICE: (973)395-2567
FAX: (973)414-1506
E-MAIL: meliaa@apco911.org

Region 30, New York State, northern and western counties
David Cook
New York State, Office of Technology
State Capitol, ESP
P.O. Box 2062
Albany, NY 12220-0062
Phone: (518) 443-2045
Fax: (408) 580-8496, or (518) 443-2787
Email: david.cook@oft.state.ny.us

## Region 19, NPSPAC Streamline Plan Amendment

4/8/2009

Black indicates verified licensed.
Blue indicates pending FCC approval.
Red - reconfigured based on FCC Order DA 08-1094, WT Docket 02-55 2nd Rep.&Order

| Channel OLD | Channel NEW | Base Freq OLD | Base Freq NEW | Mobile Freq OLD | Mobile Freq NEW | |
|---|---|---|---|---|---|---|
| Guard | | | | | | |
| **601** | **1** | 866.0125 | 851.0125 | 821.0125 | 806.0125 | **ICAL National Mutual Aid Calling Channel** |
| Guard | | | | | | |
| 602 | 2 | 866.0375 | 851.0375 | 821.0375 | 806.0375 | CT State Police |
| 603 | 3 | 866.0500 | 851.0500 | 821.0500 | 806.0500 | Berkshire County Sheriffs Nashua, NH |
| 604 | 4 | 866.0625 | 851.0625 | 821.0625 | 806.0625 | Portland, ME MBTA City of Providence, RI Win 22 |
| 604 | 4 | 866.0625 | 851.0625 | 821.0625 | 806.0625 | MBTA Barnstable County, MA - 5W *(Grand Isle, VT - DA 08-1094) |
| 605 | 5 | 866.0750 | 851.0750 | 821.0750 | 806.0750 | West Hartford, CT Mass. Dept. of Corrections |
| 606 | 6 | 866.0875 | 851.0875 | 821.0875 | 806.0875 | City of Providence, RI |
| 607 | 7 | 866.1000 | 851.1000 | 821.1000 | 806.1000 | Dept. of Corrections/MA MA State Police *(Grand Isle, VT - DA 08-1094) |
| 608 | 8 | 866.1125 | 851.1125 | 821.1125 | 806.1125 | CT State Police |
| 609 | 9 | 866.1250 | 851.1250 | 821.1250 | 806.1250 | Quincy, MA/City of Cambridge, MA |
| 610 | 10 | 866.1375 | 851.1375 | 821.1375 | 806.1375 | CT. Dept. of Public Safety |
| 611 | 11 | 866.1500 | 851.1500 | 821.1500 | 806.1500 | RI Public Transit Authority |
| 612 | 12 | 866.1625 | 851.1625 | 821.1625 | 806.1625 | Town of Wethersfield |
| 613 | 13 | 866.1750 | 851.1750 | 821.1750 | 806.1750 | MA State Police MBTA |
| 614 | 14 | 866.1875 | 851.1875 | 821.1875 | 806.1875 | |
| 615 | 15 | 866.2000 | 851.2000 | 821.2000 | 806.2000 | MA State Police |
| 616 | 16 | 866.2125 | 851.2125 | 821.2125 | 806.2125 | CT State Police |
| 617 | 17 | 866.2250 | 851.2250 | 821.2250 | 806.2250 | MA State Police MBTA |
| 618 | 18 | 866.2375 | 851.2375 | 821.2375 | 806.2375 | Town of Narragansett, RI Washington County |
| 619 | 19 | 866.2500 | 851.2500 | 821.2500 | 806.2500 | Mashantucket Pequot Indian Res. Biddeford, ME |
| 620 | 20 | 866.2625 | 851.2625 | 821.2625 | 806.2625 | MA Water Resource Auth. *(Grand Isle, VT - DA 08-1094) |
| 621 | 21 | 866.2750 | 851.2750 | 821.2750 | 806.2750 | CT. Dept. of Public Safety |
| 622 | 22 | 866.2875 | 851.2875 | 821.2875 | 806.2875 | Tyngsborough, MA PD Portland, ME PD CT. State Police |
| 623 | 23 | 866.3000 | 851.3000 | 821.3000 | 806.3000 | CT. Dept. of Public Safety |
| 624 | 24 | 866.3125 | 851.3125 | 821.3125 | 806.3125 | Portland, ME PD Barnstable County, MA - 5W |
| 625 | 25 | 866.3250 | 851.3250 | 821.3250 | 806.3250 | West Hartford, CT Quincy, MA/City of Cambridge, MA |

| | | | | | | |
|---|---|---|---|---|---|---|
| 626 | 26 | 866.3375 | 851.3375 | 821.3375 | 806.3375 | Mass. State Police |
| 627 | 27 | 866.3500 | 851.3500 | 821.3500 | 806.3500 | City of Hartford, CT Win22 |
| 628 | 28 | 866.3625 | 851.3625 | 821.3625 | 806.3625 | City of Quincy, MA |
| 629 | 29 | 866.3750 | 851.3750 | 821.3750 | 806.3750 | MA State Police Dept. of Corrections/RI |
| 630 | 30 | 866.3875 | 851.3875 | 821.3875 | 806.3875 | |
| 631 | 31 | 866.4000 | 851.4000 | 821.4000 | 806.4000 | CT State Police City of Boston, MA |
| 632 | 32 | 866.4125 | 851.4125 | 821.4125 | 806.4125 | |
| 633 | 33 | 866.4250 | 851.4250 | 821.4250 | 806.4250 | MBTA MA State Police |
| 634 | 34 | 866.4375 | 851.4375 | 821.4375 | 806.4375 | CT State Police |
| 635 | 35 | 866.4500 | 851.4500 | 821.4500 | 806.4500 | MBTA MA State Police |
| 636 | 36 | 866.4625 | 851.4625 | 821.4625 | 806.4625 | Town of Narragansett, RI Washington, County |
| 637 | 37 | 866.4750 | 851.4750 | 821.4750 | 806.4750 | MBTA West Springfield Fire Dept., MA |
| 638 | 38 | 866.4875 | 851.4875 | 821.4875 | 806.4875 | N. Providence/Providence County |
| Guard | | | | | | |
| **639** | **39** | 866.5125 | 851.5125 | 821.5125 | 806.5125 | **ITAC-1 Mutual Aid Tactical Channel** |
| Guard | | | | | | |
| 640 | 40 | 866.5375 | 851.5375 | 821.5375 | 806.5375 | CT State Police |
| 641 | 41 | 866.5500 | 851.5500 | 821.5500 | 806.5500 | Stone Hill College, MA Middlesex Sheirff MA |
| 642 | 42 | 866.5625 | 851.5625 | 821.5625 | 806.5625 | Portland, ME Chicopee, MA PD City of Quincy, MA |
| 643 | 43 | 866.5750 | 851.5750 | 821.5750 | 806.5750 | Groton, CT (Town) Framingham DPW, MA |
| 644 | 44 | 866.5875 | 851.5875 | 821.5875 | 806.5875 | City of Boston, MA |
| 645 | 45 | 866.6000 | 851.6000 | 821.6000 | 806.6000 | Nashua, NH PD Mass. State Police CT.State Police |
| 646 | 46 | 866.6125 | 851.6125 | 821.6125 | 806.6125 | CT. Dept. of Public Safety City of Providence, RI |
| 647 | 47 | 866.6250 | 851.6250 | 821.6250 | 806.6250 | Mass Port Authority Quincy,MA/City of Cambridge, MA |
| 648 | 48 | 866.6375 | 851.6375 | 821.6375 | 806.6375 | CT. Dept. of Public Safety |
| 649 | 49 | 866.6500 | 851.6500 | 821.6500 | 806.6500 | RI Public Transit Authority |
| 650 | 50 | 866.6625 | 851.6625 | 821.6625 | 806.6625 | RI Public Transit Authority |
| 651 | 51 | 866.6750 | 851.6750 | 821.6750 | 806.6750 | Suffolk County Jail, MA City of Hartford, CT |
| 652 | 52 | 866.6875 | 851.6875 | 821.6875 | 806.6875 | |
| 653 | 53 | 866.7000 | 851.7000 | 821.7000 | 806.7000 | RI Public Transit Authority Biddeford, ME |
| 654 | 54 | 866.7125 | 851.7125 | 821.7125 | 806.7125 | CT. Dept. of Public Safety |
| 655 | 55 | 866.7250 | 851.7250 | 821.7250 | 806.7250 | MA Water Resource Auth. |
| 656 | 56 | 866.7375 | 851.7375 | 821.7375 | 806.7375 | |
| 657 | 57 | 866.7500 | 851.7500 | 821.7500 | 806.7500 | CT. Dept. of Public Safety Middlesex Sheirff, MA |
| 658 | 58 | 866.7625 | 851.7625 | 821.7625 | 806.7625 | |
| 659 | 59 | 866.7750 | 851.7750 | 821.7750 | 806.7750 | Farmington, CT (Town) Nashua, NH PD |
| 659 | 59 | 866.7750 | 851.7750 | 821.7750 | 806.7750 | Dayville, CT Fire District Barnstable, MA Fire Dist. Win21 |
| 660 | 60 | 866.7875 | 851.7875 | 821.7875 | 806.7875 | Portland, ME PD Cumberland, RI PD |

| | | | | | | |
|---|---|---|---|---|---|---|
| 661 | 61 | 866.8000 | 851.8000 | 821.8000 | 806.8000 | West Hartford, CT Cambridge, MA |
| 662 | 62 | 866.8125 | 851.8125 | 821.8125 | 806.8125 | Barnstable County, MA - 5W |
| 663 | 63 | 866.8250 | 851.8250 | 821.8250 | 806.8250 | Dept. of Corrections/MA CT State Police |
| 664 | 64 | 866.8375 | 851.8375 | 821.8375 | 806.8375 | Barnstable County, MA - 5W |
| 665 | 65 | 866.8500 | 851.8500 | 821.8500 | 806.8500 | N.Providence/ Providence County City of Quincy, MA |
| 666 | 66 | 866.8625 | 851.8625 | 821.8625 | 806.8625 | CT. Dept. of Public Safety |
| 667 | 67 | 866.8750 | 851.8750 | 821.8750 | 806.8750 | Mass State Police |
| 668 | 68 | 866.8875 | 851.8875 | 821.8875 | 806.8875 | CT. State Police |
| 669 | 69 | 866.9000 | 851.9000 | 821.9000 | 806.9000 | |
| 670 | 70 | 866.9125 | 851.9125 | 821.9125 | 806.9125 | Norfolk County Jail MA State Police |
| 671 | 71 | 866.9250 | 851.9250 | 821.9250 | 806.9250 | RI Public Transit Authority |
| 672 | 72 | 866.9375 | 851.9375 | 821.9375 | 806.9375 | MBTA CT State Police |
| 673 | 73 | 866.9500 | 851.9500 | 821.9500 | 806.9500 | RI Public Transit Authority |
| 674 | 74 | 866.9625 | 851.9625 | 821.9625 | 806.9625 | MBTA MA State Police |
| 675 | 75 | 866.9750 | 851.9750 | 821.9750 | 806.9750 | RI Public Transit Authority Nashua NH PD |
| 676 | 76 | 866.9875 | 851.9875 | 821.9875 | 806.9875 | MBTA |
| Guard | | | | | | |
| **677** | **77** | 867.0125 | 852.0125 | 822.0125 | 807.0125 | **ITAC-2 Mutual Aid Tactical Channel** |
| Guard | | | | | | |
| 678 | 78 | 867.0375 | 852.0375 | 822.0375 | 807.0375 | |
| 679 | 79 | 867.0500 | 852.0500 | 822.0500 | 807.0500 | Mass.State Police CT. State Police |
| 680 | 80 | 867.0625 | 852.0625 | 822.0625 | 807.0625 | Mass. Dept. of Corrections |
| 681 | 81 | 867.0750 | 852.0750 | 822.0750 | 807.0750 | CT. Dept. of Public Safety |
| 682 | 82 | 867.0875 | 852.0875 | 822.0875 | 807.0875 | Town of Narragansett, RI Washington, County |
| 683 | 83 | 867.1000 | 852.1000 | 822.1000 | 807.1000 | Dept.of Corrections/MA |
| 684 | 84 | 867.1125 | 852.1125 | 822.1125 | 807.1125 | Dept.of Corrections/MA |
| 685 | 85 | 867.1250 | 852.1250 | 822.1250 | 807.1250 | Dept.of Corrections/MA |
| 686 | 86 | 867.1375 | 852.1375 | 822.1375 | 807.1375 | CT. Dept. of Public Safety |
| 687 | 87 | 867.1500 | 852.1500 | 822.1500 | 807.1500 | Town of Narragansett, R I Washington, County |
| 688 | 88 | 867.1625 | 852.1625 | 822.1625 | 807.1625 | CT State Police Biddeford, ME |
| 689 | 89 | 867.1750 | 852.1750 | 822.1750 | 807.1750 | MBTA |
| 690 | 90 | 867.1875 | 852.1875 | 822.1875 | 807.1875 | RI Public Transit Authority |
| 691 | 91 | 867.2000 | 852.2000 | 822.2000 | 807.2000 | CT. Dept. of Public Safety |
| 692 | 92 | 867.2125 | 852.2125 | 822.2125 | 807.2125 | RI Public Transit Authority Mass State Police |
| 693 | 93 | 867.2250 | 852.2250 | 822.2250 | 807.2250 | CT State Police Framingham, MA Town |
| 694 | 94 | 867.2375 | 852.2375 | 822.2375 | 807.2375 | Town of Narragansett, R I Washington, County-Modification |
| 695 | 95 | 867.2500 | 852.2500 | 822.2500 | 807.2500 | MBTA |
| 696 | 96 | 867.2625 | 852.2625 | 822.2625 | 807.2625 | CT State Police |

| | | | | | | |
|---|---|---|---|---|---|---|
| 697 | 97 | 867.2750 | 852.2750 | 822.2750 | 807.2750 | Mass. Fire Services/LP |
| 698 | 98 | 867.2875 | 852.2875 | 822.2875 | 807.2875 | Portland, ME PD Cumberland, RI PD |
| 699 | 99 | 867.3000 | 852.3000 | 822.3000 | 807.3000 | Cambridge, MA Wethersfield, CT |
| 700 | 100 | 867.3125 | 852.3125 | 822.3125 | 807.3125 | MA State Police |
| 701 | 101 | 867.3250 | 852.3250 | 822.3250 | 807.3250 | Dept.of Corrections,MA |
| 702 | 102 | 867.3375 | 852.3375 | 822.3375 | 807.3375 | MBTA CT. State Police |
| 703 | 103 | 867.3500 | 852.3500 | 822.3500 | 807.3500 | Mass.State Police City of Boston, MA |
| 704 | 104 | 867.3625 | 852.3625 | 822.3625 | 807.3625 | Nashua, NH PD |
| 705 | 105 | 867.3750 | 852.3750 | 822.3750 | 807.3750 | Dept.of Corrections/MA |
| 706 | 106 | 867.3875 | 852.3875 | 822.3875 | 807.3875 | CT State Police |
| 707 | 107 | 867.4000 | 852.4000 | 822.4000 | 807.4000 | N. Providence/Providence County |
| 708 | 108 | 867.4125 | 852.4125 | 822.4125 | 807.4125 | CT State Police |
| 709 | 109 | 867.4250 | 852.4250 | 822.4250 | 807.4250 | City of Providence, RI |
| 710 | 110 | 867.4375 | 852.4375 | 822.4375 | 807.4375 | City of Cambridge, MA MA State Police |
| 711 | 111 | 867.4500 | 852.4500 | 822.4500 | 807.4500 | Town of Narragansett, RI Washington, County Town of Wethersfield |
| 712 | 112 | 867.4625 | 852.4625 | 822.4625 | 807.4625 | |
| 713 | 113 | 867.4750 | 852.4750 | 822.4750 | 807.4750 | MBTA MA State Police |
| 714 | 114 | 867.4875 | 852.4875 | 822.4875 | 807.4875 | |
| Guard | | | | | | |
| **715** | **115** | 867.5125 | 852.5125 | 822.5125 | 807.5125 | **ITAC-3 Mutual Aid Tactical Channel** |
| Guard | | | | | | |
| 716 | 116 | 867.5375 | 852.5375 | 822.5375 | 807.5375 | Mass State Police |
| 717 | 117 | 867.5500 | 852.5500 | 822.5500 | 807.5500 | Nashua, NH PD West Hartford, CT Barnstable, MA Fire Dist. Win21 |
| 718 | 118 | 867.5625 | 852.5625 | 822.5625 | 807.5625 | Dept.of Corrections/MA |
| 719 | 119 | 867.5750 | 852.5750 | 822.5750 | 807.5750 | |
| 720 | 120 | 867.5875 | 852.5875 | 822.5875 | 807.5875 | CT. Dept. of Public Safety Dept. of Corrections/RI |
| 721 | 121 | 867.6000 | 852.6000 | 822.6000 | 807.6000 | North Andover, MA (Town) |
| 722 | 122 | 867.6125 | 852.6125 | 822.6125 | 807.6125 | Dept.of Corrections/MA |
| 723 | 123 | 867.6250 | 852.6250 | 822.6250 | 807.6250 | CT State Police Mass. State Police |
| 724 | 124 | 867.6375 | 852.6375 | 822.6375 | 807.6375 | Providence, RI |
| 725 | 125 | 867.6500 | 852.6500 | 822.6500 | 807.6500 | CT State Police |
| 726 | 126 | 867.6625 | 852.6625 | 822.6625 | 807.6625 | MA Bay Trans Authority MA State Police MBTA/Modification |
| 727 | 127 | 867.6750 | 852.6750 | 822.6750 | 807.6750 | N. Providence/Providence County |
| 728 | 128 | 867.6875 | 852.6875 | 822.6875 | 807.6875 | City of Cambridge, MA |
| 729 | 129 | 867.7000 | 852.7000 | 822.7000 | 807.7000 | CT. Dept. of Public Safety City of Providence, RI Win22 |
| 730 | 130 | 867.7125 | 852.7125 | 822.7125 | 807.7125 | Mass. State Police |
| 731 | 131 | 867.7250 | 852.7250 | 822.7250 | 807.7250 | Northwest Dist. Atty's CT. State Police |
| 732 | 132 | 867.7375 | 852.7375 | 822.7375 | 807.7375 | Fall River, MA (City) Biddeford, ME |

| | | | | | | |
|---|---|---|---|---|---|---|
| 733 | 133 | 867.7500 | 852.7500 | 822.7500 | 807.7500 | Nashua, NH PD |
| 734 | 134 | 867.7625 | 852.7625 | 822.7625 | 807.7625 | CT State Police |
| 735 | 135 | 867.7750 | 852.7750 | 822.7750 | 807.7750 | |
| 736 | 136 | 867.7875 | 852.7875 | 822.7875 | 807.7875 | City of Boston, MA PD Groton, CT Portland, ME PD |
| 737 | 137 | 867.8000 | 852.8000 | 822.8000 | 807.8000 | CT. State Police |
| 738 | 138 | 867.8125 | 852.8125 | 822.8125 | 807.8125 | DOC/RI-Rhode Island, State of |
| 739 | 139 | 867.8250 | 852.8250 | 822.8250 | 807.8250 | Mass. Fire Services/LP |
| 740 | 140 | 867.8375 | 852.8375 | 822.8375 | 807.8375 | Town of Wethersfield, CT DOC/RI-Rhode Island, State of |
| 741 | 141 | 867.8500 | 852.8500 | 822.8500 | 807.8500 | |
| 742 | 142 | 867.8625 | 852.8625 | 822.8625 | 807.8625 | City of Boston, MA FD South Hadley, MA Police Dept. MA State Police |
| 743 | 143 | 867.8750 | 852.8750 | 822.8750 | 807.8750 | University of CT |
| 744 | 144 | 867.8875 | 852.8875 | 822.8875 | 807.8875 | Norton, MA PD Berkshire County Sheriffs |
| 745 | 145 | 867.9000 | 852.9000 | 822.9000 | 807.9000 | |
| 746 | 146 | 867.9125 | 852.9125 | 822.9125 | 807.9125 | Sudbury, MA (Town) CT State Police MA State Police |
| 747 | 147 | 867.9250 | 852.9250 | 822.9250 | 807.9250 | Town of Narragansett, RI Washington, County West Springfield Fire Dept., MA |
| 748 | 148 | 867.9375 | 852.9375 | 822.9375 | 807.9375 | City of Boston, MA |
| 749 | 149 | 867.9500 | 852.9500 | 822.9500 | 807.9500 | Dept.of Public Safety/RI |
| 750 | 150 | 867.9625 | 852.9625 | 822.9625 | 807.9625 | |
| 751 | 151 | 867.9750 | 852.9750 | 822.9750 | 807.9750 | MBTA MA State Police |
| 752 | 152 | 867.9875 | 852.9875 | 822.9875 | 807.9875 | |
| Guard | | | | | | |
| **753** | **153** | 868.0125 | 853.0125 | 823.0125 | 808.0125 | **ITAC-4 Mutual Aid Tactical Channel** |
| Guard | | | | | | |
| 754 | 154 | 868.0375 | 853.0375 | 823.0375 | 808.0375 | City of Providence, RI |
| 755 | 155 | 868.0500 | 853.0500 | 823.0500 | 808.0500 | City of Hartford, CT |
| 756 | 156 | 868.0625 | 853.0625 | 823.0625 | 808.0625 | |
| 757 | 157 | 868.0750 | 853.0750 | 823.0750 | 808.0750 | Town of Wethersfield, CT Dept. of Corrections/RI Mass. Port Authority |
| 758 | 158 | 868.0875 | 853.0875 | 823.0875 | 808.0875 | |
| 759 | 159 | 868.1000 | 853.1000 | 823.1000 | 808.1000 | Mass State Police DOC/RI-Rhode Island, State of |
| 760 | 160 | 868.1125 | 853.1125 | 823.1125 | 808.1125 | University of CT City of Boston, MA |
| 761 | 161 | 868.1250 | 853.1250 | 823.1250 | 808.1250 | Mass State Police |
| 762 | 162 | 868.1375 | 853.1375 | 823.1375 | 808.1375 | City of Hartford, CT MA State Police |
| 763 | 163 | 868.1500 | 853.1500 | 823.1500 | 808.1500 | City of Providence, RI |
| 764 | 164 | 868.1625 | 853.1625 | 823.1625 | 808.1625 | CT. Dept. of Public Safety Norfolk County jail |
| 765 | 165 | 868.1750 | 853.1750 | 823.1750 | 808.1750 | Town of Narragansett, RI Washington, County |
| 766 | 166 | 868.1875 | 853.1875 | 823.1875 | 808.1875 | Mass Dept. of Corrections |
| 767 | 167 | 868.2000 | 853.2000 | 823.2000 | 808.2000 | CT. Dept. of Public Safety |
| 768 | 168 | 868.2125 | 853.2125 | 823.2125 | 808.2125 | Hyannis Fire Dept. |

| | | | | | | |
|---|---|---|---|---|---|---|
| 769 | 169 | 868.2250 | 853.2250 | 823.2250 | 808.2250 | Western Mass. Law Enforcement Council(WMLEC)(Win18) |
| 770 | 170 | 868.2375 | 853.2375 | 823.2375 | 808.2375 | RI Public Transit Authority |
| 771 | 171 | 868.2500 | 853.2500 | 823.2500 | 808.2500 | Westfield, MA Police Dept. Biddeford, ME |
| 772 | 172 | 868.2625 | 853.2625 | 823.2625 | 808.2625 | Nashua, NH PD CT State Police Barnstable, MA Fire Dist. Win21 |
| 773 | 173 | 868.2750 | 853.2750 | 823.2750 | 808.2750 | City of Providence, RI |
| 774 | 174 | 868.2875 | 853.2875 | 823.2875 | 808.2875 | West Hartford, CT PD Portland, ME PD Newton, MA PD |
| 775 | 175 | 868.3000 | 853.3000 | 823.3000 | 808.3000 | Fall River, MA |
| 776 | 176 | 868.3125 | 853.3125 | 823.3125 | 808.3125 | CT. Dept. of Public Safety Dept. of Corrections/RI |
| 777 | 177 | 868.3250 | 853.3250 | 823.3250 | 808.3250 | Dept.of Corrections/MA |
| 778 | 178 | 868.3375 | 853.3375 | 823.3375 | 808.3375 | CT State Police Mass. State Police |
| 779 | 179 | 868.3500 | 853.3500 | 823.3500 | 808.3500 | Boston, MA EMS |
| 780 | 180 | 868.3625 | 853.3625 | 823.3625 | 808.3625 | University of CT |
| 781 | 181 | 868.3750 | 853.3750 | 823.3750 | 808.3750 | City of Providence, RI Win22 |
| 782 | 182 | 868.3875 | 853.3875 | 823.3875 | 808.3875 | CT State Police |
| 783 | 183 | 868.4000 | 853.4000 | 823.4000 | 808.4000 | Groton, CT (Town) |
| 784 | 184 | 868.4125 | 853.4125 | 823.4125 | 808.4125 | Town of Narragansett, RI Washington, County |
| 785 | 185 | 868.4250 | 853.4250 | 823.4250 | 808.4250 | MBTA |
| 786 | 186 | 868.4375 | 853.4375 | 823.4375 | 808.4375 | Town of Wethersfield/LP |
| 787 | 187 | 868.4500 | 853.4500 | 823.4500 | 808.4500 | RI Public Transit Authority Nashua, NH PD |
| 788 | 188 | 868.4625 | 853.4625 | 823.4625 | 808.4625 | Suffolk County Jail, MA Hartford Hospital |
| 789 | 189 | 868.4750 | 853.4750 | 823.4750 | 808.4750 | MA State Police |
| 790 | 190 | 868.4875 | 853.4875 | 823.4875 | 808.4875 | Watertown, MA |
| 791 | 191 | 868.5000 | 853.5000 | 823.5000 | 808.5000 | Mass. State Police Berkshire County Sheriffs |
| 792 | 192 | 868.5125 | 853.5125 | 823.5125 | 808.5125 | RI Public Transit Authority Nashua, NH PD |
| 793 | 193 | 868.5250 | 853.5250 | 823.5250 | 808.5250 | MBTA |
| 794 | 194 | 868.5375 | 853.5375 | 823.5375 | 808.5375 | Portland, ME PD Chicopee, MA PD |
| 795 | 195 | 868.5500 | 853.5500 | 823.5500 | 808.5500 | Mass. Dept of Corrections City of Providence, RI Win22 |
| 796 | 196 | 868.5625 | 853.5625 | 823.5625 | 808.5625 | CT. Dept. of Public Safety |
| 797 | 197 | 868.5750 | 853.5750 | 823.5750 | 808.5750 | City of Boston, MA |
| 798 | 198 | 868.5875 | 853.5875 | 823.5875 | 808.5875 | Town of Wethersfield, CT. DOC/RI-Rhode Island, State of |
| 799 | 199 | 868.6000 | 853.6000 | 823.6000 | 808.6000 | City of Quincy, MA |
| 800 | 200 | 868.6125 | 853.6125 | 823.6125 | 808.6125 | CT. Dept. of Public Safety |
| 801 | 201 | 868.6250 | 853.6250 | 823.6250 | 808.6250 | Easton, MA |
| 802 | 202 | 868.6375 | 853.6375 | 823.6375 | 808.6375 | Mashantucket Pequot Indian Res. MA State Police |
| 803 | 203 | 868.6500 | 853.6500 | 823.6500 | 808.6500 | |
| 804 | 204 | 868.6625 | 853.6625 | 823.6625 | 808.6625 | MBTA |
| 805 | 205 | 868.6750 | 853.6750 | 823.6750 | 808.6750 | West Springfield Fire Dept. - MO/35W |
| 806 | 206 | 868.6875 | 853.6875 | 823.6875 | 808.6875 | RI Public Transit Authority |

| | | | | | | |
|---|---|---|---|---|---|---|
| 807 | 207 | 868.7000 | 853.7000 | 823.7000 | 808.7000 | City of Boston, MA City of Hartford, CT |
| 808 | 208 | 868.7125 | 853.7125 | 823.7125 | 808.7125 | Citty of Providence, RI |
| 809 | 209 | 868.7250 | 853.7250 | 823.7250 | 808.7250 | MBTA CT. State Police |
| 810 | 210 | 868.7375 | 853.7375 | 823.7375 | 808.7375 | RI Public Transit Authority |
| 811 | 211 | 868.7500 | 853.7500 | 823.7500 | 808.7500 | CT. Dept. of Public Safety Sunderland, MA |
| 812 | 212 | 868.7625 | 853.7625 | 823.7625 | 808.7625 | MA Water Resource Auth |
| 813 | 213 | 868.7750 | 853.7750 | 823.7750 | 808.7750 | Town of Wilbraham, MA |
| 814 | 214 | 868.7875 | 853.7875 | 823.7875 | 808.7875 | Cambridge, MA Portland, ME Town of Wethersfield, CT DOC/RI-Rhode Island, State of |
| 815 | 215 | 868.8000 | 853.8000 | 823.8000 | 808.8000 | |
| 816 | 216 | 868.8125 | 853.8125 | 823.8125 | 808.8125 | West Hartford, CT |
| 817 | 217 | 868.8250 | 853.8250 | 823.8250 | 808.8250 | City of Quincy, MA |
| 818 | 218 | 868.8375 | 853.8375 | 823.8375 | 808.8375 | Dept. of Corrections/RI-Rhode Island, State of |
| 819 | 219 | 868.8500 | 853.8500 | 823.8500 | 808.8500 | University of CT |
| 820 | 220 | 868.8625 | 853.8625 | 823.8625 | 808.8625 | City of Boston, MA FD |
| 821 | 221 | 868.8750 | 853.8750 | 823.8750 | 808.8750 | Town of Narragansett, RI Washington, County |
| 822 | 222 | 868.8875 | 853.8875 | 823.8875 | 808.8875 | Mass. Dept of Corrections |
| 823 | 223 | 868.9000 | 853.9000 | 823.9000 | 808.9000 | MBTA MA State Police |
| 824 | 224 | 868.9125 | 853.9125 | 823.9125 | 808.9125 | CT State Police |
| 825 | 225 | 868.9250 | 853.9250 | 823.9250 | 808.9250 | MBTA |
| 826 | 226 | 868.9375 | 853.9375 | 823.9375 | 808.9375 | CT, MA, RI State Police low power mobile only (7.5W max.) City of Nashua, NH/LP |
| 827 | 227 | 868.9500 | 853.9500 | 823.9500 | 808.9500 | CT, MA, RI State Police low power mobile only (7.5W max.) City of Nashua, NH/LP |
| 828 | 228 | 868.9625 | 853.9625 | 823.9625 | 808.9625 | CT, MA, RI State Police low power mobile only (7.5W max.) City of Nashua, NH/LP |
| 829 | 229 | 868.9750 | 853.9750 | 823.9750 | 808.9750 | CT, MA, RI State Police low power mobile only (7.5W max.) City of Nashua, NH/LP |
| 830 | 230 | 868.9875 | 853.9875 | 823.9875 | 808.9875 | All eligibles low power Mass. Fire Services/LP City of Nashua, NH/LP |
| 830 | 230 | 868.9875 | 853.9875 | 823.9875 | 808.9875 | CT. Military Dept./LP CT State Police MA State Police RI State Police |

*Reconfigured based on FCC Order DA 08-1094, WT Docket 02-55 2nd Report and Order

| Channel OLD | Channel NEW | Base Freq OLD | Base Freq NEW | Mobile Freq OLD | Mobile Freq NEW | |
|---|---|---|---|---|---|---|
| 788 | 4 | 868.4625 | 851.0625 | 823.4625 | 806.0625 | (Grand Isle, VT - DA 08-1094) |
| 791 | 7 | 868.5000 | 851.1000 | 823.5000 | 806.1000 | (Grand Isle, VT - DA 08-1094) |
| 804 | 20 | 868.6625 | 851.2625 | 823.6625 | 806.2625 | (Grand Isle, VT - DA 08-1094) |

**Certification/Notification to Tribal Nations**

I herby certify that a copy of the Region 19 806MHz Plan (1CD) has been sent to the ten (10) tribal nations within Region 19 for review and comment (see attached list of Tribal Nations in New England). The Region 19 Plan was mailed to each of the Tribal Nations on September 18, 2009. Region 19 committee members determined that a 30 day period (until October 19, 2009) for seeking comments/changes/additions/deletions to the Region 19 Plan from each of the Tribal Nations would meet the FCC notification requirement to Tribal Nations for the planning/revision process for 806MHz Regional Planning in Region 19.

I certify that the Tribal Nations have been sent copies of the Region 19 806MHz Plan and the Planning Committee sought comments.

Jerry Fernandez

Region 19 Chairman

Victoria Higgins
Aroostook Band of Micmacs
7 Northern Road
Presque Isle, ME 04769

Brenda Commander
Houlton Band of Maliseet Indians
88 Bell Road
Littleton, ME 04730

Michael J. Thomas
Mashantucket Pequot Tribe
P.O. Box 3060
Mashantucket, CT 06338

Cedric Cromwell
Mashpee Wampanoag Tribe
P.O. Box 1048
Mashpee, MA 02649

Bruce Bozsum
Mohegan Indian Tribe
5 Crow Hill Road
Uncasville, CT 06382

Matthew Thomas
Narragansett Indian Tribe
P.O. Box 268
Charlestown, RI 02813

William J. Nicholas
Passamaquoddy Tribe
Indian Township Reservation
P.O. Box 301
Princeton, ME 04668

Rick Doyle
Passamaquoddy Tribe
Pleasant Point Reservation
P.O. Box 343
Perry, ME 04667

Kirk Francis
Penobscot Nation
12 Wabanaki Way
Indian Island, ME 04468

Cheryl Andrews-Maltais
Wampanoag Tribe of
Gay Head Aquinnah
20 Black Brook Road
Aquinnah, MA 02535

# Appendix Q

## Committee Members Plan Approval Votes

At the September 8, 2009 quarterly meeting of the Region 19 New England 800MHz Committee Meeting, the elected Chairman, Jerry Zarwanski, requested that a motion be raised to approve the revisions made to the existing 821MHz NPSPAC Regional Plan for compliance with the streamline band change to 806MHz. The new plan will be called, "The New England 806MHz NPSPAC Regional Plan Region 19."

A motion was raised by Mr. James Kowalik to approve the content of the new plan. Mr. Steve Brown seconded the motion. By a show of raised hands, all voting members present approved the new plan. The vote by each voting member present was recorded. The recorded vote which follows, shows; eleven voting members approved, zero voting members denied the plan approval and zero voting members abstained.

# NEW ENGLAND REGION 19 806MHz Plan Approval Votes

**Possible Votes: Approved, Denied, Abstain**

**Committee Members in Attendance**

| Name | Agency | Recorded Vote 9/8/09 |
|---|---|---|
| Aiken, Douglas | Lakes Region Mutual Fire Aid | |
| Bardwell, Thomas | NH State Police | **Approved** |
| Berard, Jim | Rhode Island DOT | |
| Brooks, Joesph | Boston, MA Fire Dept. | |
| Brown, Stephan | CT Dept. of Transportation, Aviation | **Approved** |
| Cady, Mark | Worcester, MA Fire Dept. | |
| Carbonell, George | CT Dept of Transportation | **Approved** |
| Crotty Thomas | Rhode Island State Police | |
| Derdak, Elliot | Boston, MA Exec. Office of Health & Human Services | **Approved** |
| Dooley, John | Winchester, MA PD | |
| Gutowski, Gary | MA State Police | **Approved** |
| Kowalik, James | NH State Police | **Approved** |
| Leary, Paul | NH Dept. of Resource & Econ.Dev. | |
| Mansfield, William | Nashua Police Dept. | |
| Masciadrelli, John | CT Dept. of Public Safety, OSET | **Approved** |
| Muise, Tom | MA. Office of Emergency Mgmt. | |
| O'Brien, Arthur | MA. Highway Dept. | |
| Otto, Jeff | Quinebaug Valley ECC | **Approved** |
| Plante, William | ME Dept. of Transportation | |
| Poole, Mark | ME State Police | |
| Savary, Lee | NH Dept. of Transportation | |
| Sutherland, Blair | MA SP - Director of Telecommunications | |
| Walsh, Thomas/DiBella, Robert | CT. Military Dept. OEM | |
| Warakois, James | Boston, MA Police Department | **Approved** |
| Welch Charles/Calvitto, Herbert | NH Office of Emergency Mgmt. | |
| Wright, Scott | CT Dept of Public Safety, CTS | **Approved** |
| Wood, Bill | NH Bureau of EMS | |
| Zarwanski, Jerry | CT Dept. of Public Safety, OSET | **Approved** |
| Zito, Paul | CT Dept. of Public Safety, CSP | |

**Vote Totals:**

**Approved: 11**
**Denied: 0**
**Abstain: 0**

# Appendix R

This section contains correspondence regarding adjacent region approval:


| | |
|---|---|
| Letter dated 9/17/2009 sent to Region 8 | Page # 164 |
| Letter dated 9/17/2009 sent to Region 30 | Page# 165 |
| Approval letter dated 11/30/2010 from Region 8 | Page# 166 |
| Approval letter dated 6/9/2011 from Region 30 | Page# 167 |

# NEW ENGLAND RADIO PLANNING COMMITTEE
## FCC AREA 19
## PLAN UPDATE COMMITTEE

September 17, 2009

Anthony Melia, Region 8 Chairman
Essex County Sheriff's Office
Field Operations Division
50 Nelson Place
Newark, NJ 07102

Re: New England Region 19 806MHz Plan

Dear Chairman Melia:

Attached is a CD of the 806MHz Plan for New England Region 19. We are seeking your approval on this Plan so we may submit it to the Federal Communications Commission (FCC). Please review and respond within 30 days of receipt.

If you have any questions, please contact me. My phone number is (860) 685-8157. My email is jerry.zarwanski@po.state.ct.us. You may request a paper copy by calling my office at (860) 685-8080. Thank you for your time and attention to this matter.

Sincerely,

Jerry Zarwanski

Jerry Zarwanski, Chairman
New England Region 19 806MHz Committee
c/o Connecticut Dept. of Public Safety
Office of Statewide Emergency Telecommunications
1111 Country Club Road
Middletown, CT 06457

Attachment: New England 806MHz Regional Plan, September 2009

Cc: Felix Melendez, Vice-chairman Region 8
Maribel Martinez-Bradwell, Secretary Region 8

**860 685-8157**
**DIRECT CORRESPONSDENCE TO THE COMMITTEE**

**C/O OFFICE OF STATEWIDE EMERGENCY TELECOMMUNICATIONS**
**1111 COUNTRY CLUB RD**
**MIDDLETOWN, CT 06457**

**NEW ENGLAND RADIO PLANNING COMMITTEE**
**FCC AREA 19**
**PLAN UPDATE COMMITTEE**

September 17, 2009

David Cook, Region 30 Chairman
East Greenbush Fire Company
2813 Phillips Road
Castleton, NY 12033

Re: New England Region 19 806MHz Plan

Dear Chairman Cook:

Attached is a CD of the 806MHz Plan for New England Region 19. We are seeking your approval on this Plan so we may submit it to the Federal Communications Commission (FCC). Please review and respond within 30 days of receipt.

If you have any questions, please contact me. My phone number is (860) 685-8157. My email is jerry.zarwanski@po.state.ct.us. You may request a paper copy by calling my office at (860) 685-8080. Thank you for your time and attention to this matter.

Sincerely,

Jerry Zarwanski

Jerry Zarwanski, Chairman
New England Region 19 806MHz Committee
c/o Connecticut Dept. of Public Safety
Office of Statewide Emergency Telecommunications
1111 Country Club Road
Middletown, CT 06457

Attachment: New England 806MHz Regional Plan, September 2009

Cc: Maribel Martinez-Bradwell, Secretary Region 30

**860 685-8157**
**DIRECT CORRESPONSDENCE TO THE COMMITTEE**

**C/O OFFICE OF STATEWIDE EMERGENCY TELECOMMUNICATIONS**
**1111 COUNTRY CLUB RD**
**MIDDLETOWN, CT 06457**

**TRI-STATE RADIO PLANNING COMMITTEE**
**REGIONAL PLANNING UPDATE COMMITTEE**
**800 MHz**
**FCC-REGION 8**

FCC N.J. N.Y.

Lieutenant Anthony Melia
APCO NJ Frequency Advisor
Essex County Sheriff's Office
50 Nelson Place
Newark, NJ 07102

November 30, 2010

Jerry Zarwanski
Region 19 Chairman
State of Connecticut
Department of Public Safety
111Country Club Road
Middletown, CT 06457

Re: Region 19 806 MHz Plan

Dear Mr. Zarwanski,

Thank you for your letter of September 17, 2009 in which Region 19 is seeking concurrence for the complete re-write of its 806 MHz Regional Plan. Our committee has completed its review of your submission and found no impact to our region. Therefore Region 8 concurs with your request as submitted.

If you have any questions please do not hesitate to contact me at (518) 956-2812 or Maribel Martinez-Bradwell at (518) 506-4373.

Sincerely,

Lieutenant Anthony Melia

Anthony Melia
FCC Region 8 Chair

# FCC PUBLIC SAFETY REGION 30 (NEW YORK – ALBANY)

David A. Cook, Chairman
2813 Phillips Road
Castleton, New York 12033
Phone: (518) 956-2812; dcook@fedeng.com

Regional Planning Committee
30 800 MHz

June 9, 2011

Jerry Zarwanski
Department of Public Safety
Division of Fire, Emergency and Building Services
1111 Country Club Road, P.O. Box 2794
Middletown, CT 06457-9294

Re: **New England Region 19 806 MHz Plan Amendment Filing**

Dear Chairman Zarwanski:

Region 30 has completed its review of the Region 19 806 MHz Plan. Region 30, at the recommendation of its Technical Subcommittee, passed a motion at our public meeting on April 7, 2011 to concur with the proposed amendment transmitted to Region 30 on September 17, 2009.

If you have any questions please do not hesitate to contact me at (518) 956-2812.

Sincerely,

David A. Cook

David A. Cook
FCC Region 30 Chairman

Vice Chair, Robert F. Schlieman
rschliem@capital.net

Secretary, Maribel Martinez-Bradwell
mmartinez5@nycap.rr.com