

PUBLIC SAFETY 800 MHz
RADIO COMMUNICATIONS PLAN
FOR NPSPAC REGION 39
THE STATE OF TENNESSEE
Modified 5-02

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1.0 SCOPE

1.1 Introduction

In December of 1983, the United States Congress directed the Federal Communications Commission (FCC) to establish a plan to ensure that the communications needs of state and local public safety authorities would be met. By their regular means of initiation, the FCC began the process of developing such a plan. Through their efforts, and the efforts of the National Public Safety Planning Advisory Committee (NPSPAC) the plan was begun.

The National Public Safety Planning Advisory Committee provided an opportunity for the public safety community and other interested members of the public to participate in a total spectrum management approach by recommending policy guidelines, technical standards, and procedures to satisfy public safety needs for the future. After consideration of NPSPAC's Final Report and comments filed in Docket No. 87-112, a Report and Order was released by the FCC in December 1987, which established a structure for the National Plan that consists of guidelines for the development of regional plans.

The National Plan provides guidelines for the development of regional plans. The particulars of this plan are found in FCC 87-359, which contains the required steps and contents for regional plan development. It is on this document that this plan is developed.

1.2 Purpose

Public safety communications has, for many years, been inadequate throughout the United States. This is as true for Tennessee as it is for any other state. Many, if not all, public safety radio users are constantly bombarded with outside interference, noise, and over crowding. It is with these problems in mind that this plan was developed.

This regional plan was developed with the objective of assuring all levels of public safety/public service agencies that radio communications in the near and distant future will not suffer from the problems of the past. The allocation of frequencies was done in as equitable a way as possible. The goal was to supply a pool of frequencies for each county and a pool for state agency use with adequate reserve allocations for future needs in all areas, and a method to appeal initial allocations based on need.

The National Plan, as developed by NPSPAC, was followed very closely in all considerations for frequency allocation, reuse, turn back, regional interoperability, spectrum requirements and adjacent region operations. This plan should provide the flexibility to accommodate the growth and changes that are bound to occur in public safety and public service communications operations long into the future.

2.0 AUTHORITY

2.1 Regional Planning Committee

The development of the Public-Safety Radio Communications Plan for Region 39, the State of Tennessee, has followed the requirements of the FCC's Report and Order as issued concerning General Docket 87-112.

In accordance with the FCC's Report and Order 87-112, the Associated Public-Safety Communications Officers Inc. (APCO) recommended to the Commission the appointment of a "Convenor" for Tennessee Region 39. The Convenor served as the coordinator for the assembly and formation of the planning committee.

Participants in the formation of the Regional Planning Committee represent interested parties from both the Public Safety and Special Emergency Radio Services. A total of seventy two individuals have participated in the development process. The list herein contains the names, organizational affiliations, mailing addresses and phone numbers of all members of the Regional Planning Committee.

The committee was selected by attendance at the planning meetings. Each member of the Committee representing an eligible licensee under the Public Safety Radio Services and the Special Emergency Radio Services was entitled to one vote in all Committee matters. Except as may be provided elsewhere in the Plan, the majority of those present at a scheduled meeting formed a majority for all business. Only the final approval of the plan before submission to the FCC required a vote from more than would be present at a regular meeting. In this case the vote was conducted by mail ballot sent to all those who had participated in the planning process. This way, the finished plan was reviewed and accepted by the widest, within reason, group of public safety/public service users.

2.2 Planning Committee Formation

The process of forming the Planning Committee was conducted in the following steps:

1. Personal interviews were held with the representatives of all major state agency radio users.
2. Presentations concerning the requirements for a regional planning committee were presented and discussed at state organization meetings. At each presentation there was an opportunity for persons to place themselves and/or their agency on the mailing list.
3. A public notice was mailed to each major state agency radio user, those placed on the mailing list, also to state organizations composed of local government level public safety/public service users. Letters were also sent to all members of the Tennessee Chapter of APCO. (See Appendix A).

4. The public notice was sent to all terminals of the Tennessee Information Enforcement System (TIES) for the first planning committee meeting. This first meeting was held at the Days Inn Executive Center, 823 Murfreesboro Road, Nashville, a public facility.
5. The initial chairperson, Joe Gourley, was elected at the first meeting on May 17, 1988. The current chairperson, David Wolfe, was elected at the second meeting at the Jack Spence Motor Hotel, same address, on February 6, 1990.
6. Committee membership was left open to any person or agency that may not have been notified or decided to join the committee later.
7. Vendors participation was encouraged, but vendors were not allowed a vote.

2.3 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 of the country may differ from this plan due to the broad difference in circumstance, geography, and population density. By officially sanctioning this plan the Federal Communications Commission 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 Services, but it provides procedures that are the consensus of the Public Safety Radio Services and Special Emergency Radio Service user agencies in this Region. If there is a perceived conflict then the judgment of the FCC will prevail.

2.4 Federal Interoperability

Interoperability between the 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, with S-160 or equivalent agreements, a licensee may allow 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 requirements to account for 2-10 percent increase in mobile units, dependent on the amount of Federal Government Agencies involvement in its area, if written documentation from Federal agencies supports at least that number of increased units.

2.5 Regional Review Committee

Upon approval of this Plan by the Federal Communications Commission, a Region Review Committee will be established for the review of applications that do not fall within the stated guidelines provided for in this plan, or for the settlement of disputes concerning this plan and/or its application.

This committee shall be representative of all eligibles within the region. It shall consist of the Local APCO Frequency Advisor for Tennessee, a state agency representative, one representative each from the Police, Fire, EMS, Transportation, Conservation, and Emergency Management services. A minimum representation from other eligibles is also welcome. This committee and its composition will be assured by the Tennessee APCO chapter and other Public Safety organizations. Membership on this committee will be solicited annually. Since this committee probably will not have regular business, it will be up to the Local APCO Frequency Advisor to notify the committee of problems, conflicts, or when it becomes apparent that spectrum demands will outpace available spectrum. Each member of the committee shall be furnished a copy of this plan upon their appointment or election to the committee.

Working within the scope of this plan, this committee will set policies and procedures to implement and maintain the regional plan. Plan updates shall be accomplished by this committee. All changes or updates to the plan shall be first agreed upon by this committee and then submitted to the FCC for their review and consideration. When approved all changes shall be added to the plan with the appropriate documentation of approval.

This committee shall meet at least once annually to review the implementation of the plan. This review shall consist of examination of all license activity.

3.0 SPECTRUM UTILIZATION

This portion of the Plan provides a basis for proper spectrum utilization. Its purpose is to guide the Local APCO Frequency Advisor and/or the Regional Review Committee in their task of evaluating the implementation of this plan within this Region.

3.1 Region Defined

Region 39 is the State of Tennessee. This region is the result of definition by the Federal Communications Commission because of recommendations made in the National Public Safety Planning Advisory Committee (NPSPAC) plan as submitted and approved and contained in Docket 87-112. For purposes of this plan the State of Tennessee shall be defined as all the lands and waters contained within the boundaries of the State of Tennessee.

3.2 Region Profile (Demographic Information)

The purpose of this section is to provide the basis for the assignment of frequencies, and their reuse. Since the frequency allocation formula used is based on population within a county, it is necessary to provide this information within this plan. Below is the data used in the determination of frequency allocations.

3.2.1 State Of Tennessee Population And Expected Growth Percentage. (See Exhibit A)

The total population of the state is 4,877,185 with about sixty percent urban and forty percent rural residence. The population within developed urban areas is about sixty percent or 2,900,000.

3.2.2 Geographical Description

Geographically, Tennessee is divided into six major natural regions. These areas, east to west, are:

- 1) The Appalachian Mountain region along the North Carolina boarder with Mountain peaks of 3000 to 6000 feet,
- 2) The Great Valley with several long, narrow, even crested ridges running southwest to northeast and elevations of 1200 to 2500 feet,
- 3) The Cumberland Plateau again running from the southwest to the northeast it varies in width from 50 to 70 miles. It covers a total of about 4,260 square miles on a surface that is flat to rolling tableland that rises 800 to 1000 feet above the land on either side.
- 4) The Highland Rim with about 12,650 square miles outlines most of what is known as "Middle Tennessee." In the center of the Highland Rim is the Central Basin. Although the Highland Rim has

a peak of over 2000 feet it has an average altitude of slightly less than 1000 feet. The terrain is "rough plateau" with the roughest parts along the edges of the Central Basin.

- 5) Central Basin is an oval depression that has a gently rolling surface with many small rounded hills that rise 200 to 300 feet above the general level. Terrain varies from about 500 to 1100 feet above sea level.
- 6) The Gulf Coastal Plain of West Tennessee covers all of what is known as West Tennessee with the area from Kentucky Lake and the Tennessee River to the Mississippi River. Generally it is a broad plain whose surface slopes to the west until it ends abruptly at the bluffs overlooking the flood plain of the Mississippi River. Along the eastern edge streams have cut valleys that form a rough topography.

There are ninety five counties in the state with a total land mass of 42,144 square miles. The largest county is Shelby, with a total of 786 square miles. Water areas of significance, are the Mississippi, Tennessee and Cumberland Rivers, Reelfoot Lake (natural), Norris, Watts Bar, Chickamauga, Kentucky and Barkley Lakes (manmade). Tennessee has 477 square miles of water within its' boundaries.

As shown above, the nearly five million population is distributed across forty two thousand square miles of widely varying terrain. This presents some problems in area coverage for radio systems since the entire land area of any given jurisdiction must be covered. The population per square miles in urban areas tends to be dense and in rural areas tends to be sparse. The population distribution and the very diverse geographical features of the state must be carefully considered in communications system planning. All these items were taken under consideration in the allocation plan.

3.3 Usage Guidelines

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

The FCC, in its Report and Order states, "Exceptions will be permitted only when a substantial showing is made that alternative technology would be at least as efficient as trunking or that trunking would not meet operational requirements. Exceptions will not be granted routinely, 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 the state level, as it affects the Region, will be reviewed by the Committee. State-wide public safety agencies will submit their communications plans for impact approval if they use communications systems within the Region and those portions of systems must be compatible with the Regional Plan. Blocks of ten frequencies have been identified in each of eight state districts for state-wide use.

The next level of communication coverage will be a county/multiple municipality area. Those systems that are designed to provide area communication coverage must prove their need to require such wide area coverage.

This would apply in a situation such as a city requesting coverage of an entire county. 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 used, the system design must include as many county/multiple municipality government public safety and public service radio users as can be managed technically.

The county/multiple municipality agency(ies), depending upon systems loading and the need for multiple systems within an area, must provide intercommunications between area-wide systems. In a multi-agency environment, a lead agency using the 800 MHz spectrum, which is an agency or organization having primary response obligations in the geographic area, shall be responsible for coordinating the implementation the Common Channels in this band as mandated by the National Plan. Such implementation must be reviewed and approved by the Local APCO Frequency Advisor, and at his/her discretion, the Regional Review Committee.

Municipal terminology often differs. To provide a title for the next level of communications the term city is used to define the level below county-wide. City communications for public safety and public services 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 city must consider using 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 public safety and public 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 used 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 with communications involved in these services in an area shall not be tolerated. Any co-channel interference within an authorized area of coverage will be examined on a case by case basis by the Regional Review Committee.

3.4 TECHNICAL DESIGN REQUIREMENTS FOR LICENSING

3.4.1 Definition of Coverage Area or Area of Jurisdiction

The coverage area shall be that area for which a system is intended to cover with a received signal strength of greater than 40 dBu. This area shall normally represent the boundaries of the County or the incorporated municipality that is applying for license. In regional or area-wide, multi-jurisdictional systems, the coverage shall be that area of all jurisdictions participating in the system combined.

3.4.2 System Coverage Limitations

System coverage shall be limited to the coverage area defined as listed above plus no more than five (5) additional miles in all directions extending from the boundaries of definition. This limitation shall assure maximum frequency reuse. The only exception to this rule shall be those applicants wishing to offer service or system use to areas outside their jurisdictional boundaries. In these situations the applicant shall provide a proposal of that service to the Local APCO Frequency Advisor, who may request Regional Review Committee consideration, for approval.

Systems not located within the geographical center of the jurisdiction(s) for which they cover shall use either directional antennas or antenna/tower relationship techniques to achieve the coverage required by this plan.

3.4.3 Determination Of Coverage

There are four variables used in finding the area of coverage of a proposed system. These variables are (1) the required strength of the received signal, (2) antenna height above average terrain (HAAT), (3) the effective radiated power (ERP) of the system, and (4) the type of environment.

Received Signal Strength:

For purposes of this plan, received signal strength shall be the deciding factor that defines the actual boundary of a system. The minimum signal level that marks the outer boundary of a system shall be 40 dBu.

Antenna Height:

Shall be the height of the antenna above the average terrain surrounding the tower site.

Effective Radiated Power (ERP):

The ERP is the transmitter output power times the net gain of the antenna system. The actual formula is: $ERP (w) = Power(w) \times Antilog(\text{net gain in dB divided by } 10)$.

Environment Type:

OKUMURA/HATA METHOD - The Okumura method uses four different classifications to describe the average terrain around a transmitter site or area. The classifications are:

- 1) Urban is a built-up city crowded with large buildings 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 buildings. This would include the downtown area of a large city.
- 3) Quasi-open is an area between suburban and open areas. This includes areas outside of city limits that have few buildings and houses.
- 4) Open is an area where there are no obstacles such as tall trees or buildings in the propagation path or a plot of land that is cleared of anything for 300 to 400 meters ahead. This would include farm land, open fields, etc.

3.4.4 Annexations And Other Expansions

It is well known that as cities grow, annexations occur. When an expansion of the present city limits of any city currently using an 800 megahertz system within the spectrum as herein specified occurs, it is understood that the existing system may have to be expanded and its range increased. This is a modification and may be permitted. The increased range of the system must be determined at the time of modification to assure non-interference with any other existing system. Where interference is likely, the use of alternative methods of expansion, such as satellite systems, may be necessary. Where more spectrum is not available from the initial allocation, the rules for expansion of initial allocation, as contained in this plan, shall apply.

3.4.5 Coverage Area Description

All applicants shall provide with their applications a map showing the jurisdictional boundaries to be covered by the system, and the calculated system coverage. This map shall display the location of the system transmitter(s), including control stations. It is recommended that a U.S. Geological Survey (USGS) Quad topographical map be used for this purpose. If not available, a high quality locally produced map or a highway map may be substituted. Whatever the type map used, the name of the applicant and the scale of the map shall be displayed on the map.

3.4.6 Reassignment of Frequencies

All agencies participating in the use of the new 800 megahertz spectrum shall prepare and submit a plan for the abandonment of their currently licensed frequencies in the lower bands. These released frequencies shall be available for reassignment to those agencies not migrating to 800 MHz at this time.

These released frequencies shall be returned to the radio service from which it was assigned. These frequencies shall then be available for reassignment by the assignment / coordination criteria in effect for that particular service by the regular FCC authorized coordinator for that service.

Frequencies which are to be abandoned by an agency shall not be handed down to another agency within the respective jurisdiction. Though this may seem a convenient method to reuse existing radio equipment, the reassignment must be handled through the normal process. It is recommended that any jurisdiction wishing to "hand down" frequencies to another agency submit the proper coordination and application forms with the document of release. This will put the applicant in a better posture for reassignment of the frequency in question. It should be noted that though this procedure is followed, there is no guarantee that a particular frequency will be assigned to the returning jurisdiction.

The period allowed for phasing into 800 MHz and out of the lower currently licensed bands will be considered on a case by case basis by the review committee. Generally, one year will be considered acceptable usually, with two years as a maximum. Any agency requiring more than two years shall provide documents stating the reasons for the delay, and give the estimated time of completion.

3.4.7 Unused Spectrum

The frequency sort indicated there were no excess channels.

3.4.8 Adjacent Region Considerations

Coordination with adjacent regions shall be an on-going process until all region plans have been completed. At present, all adjacent regions have been coordinated with and no conflicts have been identified. The adjacent regions with which coordination has been conducted are: Mississippi (Region 23); Alabama (Region 1); Arkansas (Region 4); Georgia (Region 10); Illinois (Region 13); West Virginia (Region 44); Kentucky (Region 17); Missouri (Region 24); North Carolina (Region 31); South Carolina (Region 37); and Virginia (Region 42). (See Appendix C)

As the use of the five National channels is not considered a day-to-day function, the "hard" coordination for these channels is not considered necessary or advisable. The use of these channels will always be on a non-interference basis, with on-the-air coordination at the time of use when required. Any user found to be operating in any manner other than this shall be considered to be operating improperly and subject to the existing Federal Communications Commission rules for willful interference with the communications of other users.

3.5 INITIAL SPECTRUM ALLOCATION

3.5.1 Frequency Sorting Methodology

The initial spectrum allocation for the Region was determined by a computerized frequency sorting process performed by APCO. The purpose of the computer program that assigns frequencies to specific eligibles and to pools for future assignments is two-fold:

- A) The assignments must result in a high degree of spectrum efficiency, and
- B) The assignments must 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 or pool.

Acceptable interference probabilities are determined for the Region. Frequency assignments are then made using a computer program that satisfies the goals of spectrum efficiency and interference protection. The following narrative describes the factors and process used by the computer program.

3.5.2 Blocked Channels

In the Region there are five mutual aid channels that must be blocked out to prevent the computer from making assignments on these channels. (Since the mutual aid channels are spaced at 0.5 MHz intervals, other Region-wide systems are spaced at 0.5 MHz and placed adjacent to the mutual aid channels. This procedure reduces the impact of blocked adjacent channels by virtue of the fact that the channel plan already has protection spacing on each side of the mutual aid channels.)

These Region-wide blocked channels are identified by FCC channel number, tabulated and they become input to the computer program.

3.5.3 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 to enable more efficient combining of multiple transmitters to a single antenna. These separated blocks of frequencies also have a maximum size. That is, if the eligible has more frequencies than the maximum size of the combining block, then a second compatible block is created, and so on. Each of these parameters is adjustable in the program on a global basis. The default parameters chosen are 0.25 MHz minimum spacing and five channel blocks.

3.5.4 Special Considerations

There are licensees in the 806-821/852-866 MHz spectrum who plan to expand existing systems into the 821-824/866-869 MHz bands. Some existing radio units are unable to operate on 12.5 kHz separated carrier frequencies. The result is that these radios can only operate on "even" FCC numbered channels in the 821-824/866-869 MHz band. The computer program is able to take this into account when making assignments.

3.5.5 Protection Ratios

There are two interference protection ratios built into the computer program. One is for the co-channel case, 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.

4.0 COMMUNICATIONS REQUIREMENTS

4.1 Common Channel Implementation

The implementation of the International Common Channels must follow the guidelines as set forth by the Federal Communications Commission by the approval of the National Plan. These five common channels are accessible by all levels of government and shall be used according to the provisions of the National Plan. All mobile and portable equipment must be equipped to operate in the "talkaround mode" when required on the International Channels.

The International calling channel (821/866.0125 MHz) shall be implemented as a full mobile relay. Wide area coverage transmitters will be installed where applicable within a system. Large system users (5 channels or more) of 800 MHz shall be required to monitor this channel at all times. The area of coverage for this channel shall be equal to the area covered by the licensed system. This may or may not require the use of satellite receivers/cell extenders within the area to meet this requirement.

The four International Tactical (ITAC) Channels will be assigned State-wide, for use as needed by all eligible licensees. These channels are to be used according to the National Plan and in compliance with the regulations as set forth by the Federal Communications Commission. Operation on these channels require no special licensing for mobiles and portables, only that the users be eligible for licensing on the other Public Safety 800 MHz channels as specified in section 90.616 (a) of the FCC Rules and Regulations.

4.1.1 Areas of Operation

The common channels shall be available for use throughout the Region. Base and control transmitters must be individually licensed and operated only from locations approved by the Regional Review Committee.

4.1.2 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 level agency for routine, daily operations. In major emergency situations, one or more ITAC channels may be assigned by the primary Public Safety Agency within that area of operation. The primary Public Safety agency in each county, if not defined elsewhere in the plan, shall be the County Sheriff's Department or Public Safety Department or the lead agency, which may be any agency licensed to operate in this spectrum, or "on-scene" commander. The primary Public Safety agency shall be the city level Public Safety Department in situations that occur within the corporate limits of that city. These primary agencies will assign one or more of the ITAC channels for use according to need during each special situation requiring the use of these channels.

Participants in the interoperable channels include those agencies of Federal, State, and Local government providing life saving emergency communications services. Police, Fire, EMS (providers of Basic and

Advanced Life support services) and Emergency Management will be the primary using agencies. If radio channels are available, other services provided in the Public Safety Radio Services and the Special Emergency Radio Services also may participate to the extent required to insure the safety of the public. These agencies include the Transportation Department, Public Service Commission, Forestry, Wildlife and other special service agencies not normally involved in day-to-day public safety operations.

4.1.3 Operation Procedures

On all Common Channels, plain English will be used always, and the use of unfamiliar terms, phrases, or codes will not be allowed.

4.1.3(I) International Calling Channel (ICALL):

The ICALL channel shall be used to establish contact with other users in a particular Region that can render assistance at an incident. This channel shall not be used as an ongoing working channel. Once contact has been established between agencies, an agreed upon ITAC or mutual aid channel shall be used for continued communications.

4.1.3(II) International Tactical Channels (ITAC-1 - ITAC-4):

These frequencies are reserved for use by those agencies involved in inter-agency communications. Incidents requiring multi-agency participation will use these frequencies as directed by the control agency assuming responsibility for an incident or area of concern. These frequencies may be subdivided according to function in an incident or by geographical location in response to an incident. It is recommended that the following assignments for ITAC-1 through ITAC-4 be used when possible.

ITAC-1	Law Enforcement
ITAC-2	Fire Services
ITAC-3	Emergency Medical Services
ITAC-4	Command and Control

4.1.4 Coded Squelch

All equipment capable of operating on the five (5) common channels shall be equipped with the National Common Tone Squelch of 156.7 Hz. Mobile relays on these channels, if authorized, may use additional tone or digital squelch codes for selecting individual mobile relay stations, provided the National Common Tone Squelch Code is used on the output. If such an arrangement is used, provision also must be made for certain centralized, high level sites to be activated by the 156.7 tone to ensure emergency access by transient units.

4.2 Network Operating Methods

Communications systems on ITAC-1 through ITAC-4 will be implemented by agencies who volunteer on a distributed coordinated basis. Every primary geographic section of the Region is intended to be

covered by at least one ITAC channel. In many areas the common channels will be used on a mobile to mobile talk-around basis. Mobile relays on ITAC-1 through ITAC-4 will be on a limited coverage design to allow reuse of the channel several times within the Region and in adjacent regions. Since Region 39 probably will not have many stationary ITAC Channel stations, the implementation of mobile relays or repeaters is strongly encouraged. This will fill an "on-scene" requirement for most multi-agency response situations. Adjacent region coordination will be via existing mutual aid coordination procedures with the requesting region establishing the tactical frequency assignment.

4.3 Requirements For Trunking

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. It is strongly suggested that any entity licensing three or more repeaters use trunking.

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

Systems that do not meet FCC loading standards can be required to share such frequencies on a non-exclusive basis. Those agencies requesting Data channels only can be required to share channels with adjacent agencies wherever feasible or limit coverage to their geographic area. Exceptions will be considered on a case-by-case basis by the Regional Review Committee.

Depending on systems loading and the need for multiple systems within an area, operators of wide area systems (including, but not limited to, designated "Monitoring Agencies") must provide for coordination between area-wide systems and "Monitoring Agencies." Single municipalities or agencies must restrict design and implementation of their systems(s) to provide only the communications needed within its geopolitical boundaries. The use of trunked systems is encouraged. However, if the total number of radios in service does not reach minimum loading criteria for a trunked system, that user must consider using the next higher system level if 800 MHz trunked radio is available in the area. As systems reach capacity, the smaller system users must consider consolidating their communications systems to formulate one large trunked system.

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

Antenna heights are to be limited to provide only the necessary coverage for a system. When antenna locations are restricted to only the "high-ground," transmitter outputs and special antenna patterns must be employed to produce only the necessary coverage with the proper amount of ERP. All necessary precautions are to be taken to gain maximum reuse of the limited 800 MHz spectrum.

4.4 Channel Loading Requirements

An agency/jurisdiction requesting a single frequency to replace a frequency currently in use that will be turned back for reassignment will not be required to meet loading requirements to obtain the new frequency. However, if the single frequency is not loaded to more than fifty units within three years after the license is granted, the frequency will be available for assignment to other agencies on a shared basis in the event that other frequencies meeting the criteria for assignment are exhausted. Shared use of a frequency is not interference free. Users of single frequency systems may be required to provide the Regional Review Committee "confirmation of loading" for mobiles and portables for validating system loading. This exception shall apply to agencies having only one system and a single frequency. Agencies/jurisdictions requesting multiple frequencies or employing trunking technology shall comply with the loading standards as outlined below or provide a "Traffic Loading Study" that meets the criteria as outlined below.

4.4.1 Loading Tables

EMERGENCY		NON-EMERGENCY	
CHANNELS	UNITS/CHANNEL	CHANNELS	UNITS/CHANNEL
1 - 5	70	1 - 5	80
6 - 10	75	6 - 10	90
11 - 15	80	11 - 15	105
16 - 20	85	16 - 20	120

Agencies requesting additional frequencies must show loading of 100 percent or greater on their existing system. Should a demand for frequencies exist after assignable frequencies become exhausted, any system having frequencies assigned under this plan four or more years previously and not loaded to at least seventy percent will lose operating authority on several frequencies to bring the system into compliance with the 70 percent loading standard. Frequencies lost in this manner will be reallocated to other agencies to help satisfy the demand for additional frequencies.

4.4.2 Traffic Loading Study

Justification for adding frequencies, or retaining existing frequencies, can be provided by a traffic loading study instead of loading by number of transmitters per channel. It will be the responsibility of the requesting agency to provide a verifiable study showing sufficient airtime usage to merit additional frequencies. A showing of airtime usage, excluding telephone interconnect air time, during the peak busy hour greater than 70 percent per channel on three consecutive days will be required to satisfy loading criteria.

4.4.3 Slow Growth

All systems in the 821 - 824 / 866 - 869 Mhz band under this plan will be slow growth in accordance with section 90.629 of the commission's rules.

4.5 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 Primary Public Safety agencies within this sub-region. These agencies should integrate the appropriate interface to the long distance communications providers. Such long distance radio communications might be amateur radio operations, satellite communications and/or long range emergency preparedness communications systems, any of or all of which should be incorporated as part of the communications plans of those lead agencies. They then could provide the means to communicate outside the area for themselves and the smaller agencies who might need assistance. Instances as addressed in the National Public Safety Planning Advisory Committee's Plan, such as earthquakes, hurricanes, floods, widespread forest fires, or nuclear reactor problems could be a cause for such long-range communications needs.

4.6 Expansion of Existing Systems

Existing systems that are to be expanded to include the frequency bands of 821-824/866-869 MHz will have the mobile radios "grandfathered," if they are modified in conformance with the Memorandum Opinion and Order, FCC Docket 87-112. Primarily this involves reducing the modulation to +/- 4 kHz. Existing base stations in the frequency bands 806-821/851-866 MHz may not be used in the frequency bands 821-824/866-869 MHz.

5.0 IMPLEMENTATION AND PROCEDURES

5.1 Notification

Several methods of notification were used to invite interested parties to participate in the development of this plan. Initially, personal contact was made by the "convenor" to all of the major State agency communications users in the State of Tennessee. Announcements were made at various group meetings such as the Tennessee Chief's of Police Association, the Tennessee Fire Chiefs Association, the Emergency Management Association of Tennessee, the Tennessee Sheriff's Association and the Tennessee Association of Rescue Squads.

Several announcements were printed on the Tennessee Information Enforcement System (TIES). Letters of invitation were sent to all APCO Chapter members, and state agency radio users. Local government county executives, city mayors, and other interested parties who had requested notification were also sent letters of invitation. (See Appendix A)

During the initial meeting and second meeting, names, addresses and telephone numbers of those individuals present who wished to either participate in the planning process, or who wanted to be kept informed on the progress of the planning effort were taken. These individuals or agencies were sent all announcements for meetings and bulletins of progress.

When the work on the plan was completed, a final planning committee meeting was called. This meeting was held at the Brentwood Tennessee Holiday Inn on December 14, 1992. Each member of the planning committee was presented with a draft copy of the plan for study. A copy of the final draft was mailed to each member of the committee not present at the meeting. Each plan contained a ballot for voting on the acceptance of the plan.

A public notice was placed in the Tennessean Newspaper and the Nashville Record (See Appendix B) announcing the final meeting. A public notice was placed in the Tennessean Newspaper and the Nashville Record announcing the completion of the plan and the intention to file with the Federal Communications Commission.

These announcements were also run over the Tennessee Information Enforcement System (TIES) computer network. (See Appendix B)

5.2 Frequency Allocation Process

The method used for "packing" Region 39 was the APCO computerized method. The approximate geographical location for the center of each county, in latitude and longitude, was provided along with the approximate radius to cover the county lines. Along with this information, a list of frequencies to block along the adjacent region's border was included. The actual assignment of frequencies is for three (3) channel-pairs per county.

This allocation is the minimum and only applies to counties with a population of 25,000 or less. One additional channel is allocated for each additional 25,000 of population. The state of Tennessee has reserved ten channels in each of eight state districts. There remains a reserve pool of seventy-one (71) channels for future assignment.

5.3 Frequency Allocation Table

Below is the data, or packing plan generated by APCO via the computerized packing program. The first section is county by county information provided, followed by the packing plan. The plan took adjacent regions into consideration, in addition, letters of concurrence were sent. (APPENDIX C)

NPSPAC, REGION 39 SITE SELECTION TABLE

All Environment Types - 2

SYS NO	SYSTEM NAME	SITE	SITE COORDINATES		NO. OF CHANS	RANGE (MI.)
			LATITUDE	LONGITUDE		
1	ANDERSON COUNTY	A	36-09-08	84-17-13	3	7.0
		B	36-10-02	84-04-56		
		C	36-01-18	84-12-55		
2	BEDFORD COUNTY	A	35-26-55	86-33-06	3	7.5
		B	35-36-06	86-32-24		
		C	35-33-53	86-20-00		
		D	35-26-05	86-23-01		
3	BENTON COUNTY	A	36-16-56	88-01-30	3	6.5
		B	36-08-53	88-02-42		
		C	36-03-45	88-06-24		
		D	35-55-52	88-08-02		
		E	35-53-30	88-01-28		
4	BLEDSOE COUNTY	A	35-38-32	85-11-28	3	7.5
		B	35-42-13	85-03-58		
		C	35-33-36	85-18-15		
		D	35-28-28	85-13-34		
5	BLOUNT COUNTY	A	35-35-52	83-59-44	4	9.5
		B	35-45-56	84-00-42		
		C	35-41-36	83-48-03		
6	BRADLEY COUNTY	A	35-13-18	84-50-21	3	9.0
		B	35-05-09	84-52-27		
7	CAMPBELL COUNTY	A	36-29-50	84-07-26	3	9.5
		B	36-22-19	84-04-17		
		C	36-20-05	84-14-33		
8	CANNON COUNTY	A	35-44-02	86-05-24	3	7.5
		B	35-52-06	86-02-20		
9	CARROLL COUNTY	A	36-02-48	88-32-18	3	8.0
		B	36-03-19	88-18-36		
		C	35-53-27	88-19-58		
		D	35-53-23	88-35-06		
10	CARTER COUNTY	A	36-23-54	82-02-43	3	8.0
		B	36-13-01	82-05-23		
		C	36-19-11	82-14-18		
11	CHEATHAM COUNTY	A	36-07-17	87-06-02	3	6.0
		B	36-13-36	87-04-33		
		C	36-20-09	86-59-40		
		D	36-22-13	87-09-41		

SYS NO	SYSTEM NAME	SITE	SITE COORDINATES		NO. OF CHANS	RANGE (MI.)
			LATITUDE	LONGITUDE		
12	CHESTER COUNTY	A	35-17-53	88-45-14	3	5.5
		B	35-23-31	88-44-32		
		C	35-25-46	88-36-50		
		D	35-31-19	88-34-37		
		E	35-25-51	88-26-10		
13	CLAIBORNE COUNTY	A	36-30-18	83-28-49	3	8.0
		B	36-31-40	83-50-52		
		C	36-28-13	83-38-16		
14	CLAY COUNTY	A	36-33-47	85-44-04	3	5.5
		B	36-33-30	85-37-45		
		C	36-29-20	85-32-23		
		D	36-33-05	85-28-13		
		E	36-34-07	85-20-41		
15	COCKE COUNTY	A	36-00-54	83-09-23	3	8.5
		B	35-50-05	83-12-10		
		C	35-53-56	83-00-51		
16	COFFEE COUNTY	A	35-32-13	85-59-25	3	7.0
		B	35-23-40	85-58-49		
		C	35-25-23	86-10-02		
		D	35-35-49	86-09-15		
17	CROCKETT COUNTY	A	35-45-39	89-00-54	3	6.0
		B	35-47-17	89-07-39		
		C	35-54-05	89-11-23		
		D	35-49-12	89-16-23		
18	CUMBERLAND COUNTY	A	36-02-23	84-57-20	3	10.0
		B	36-00-37	85-07-04		
		C	35-54-41	84-50-55		
		D	35-51-14	85-06-01		
19	DAVIDSON COUNTY	A	36-07-07	86-39-06	20	8.5
		B	36-06-38	86-54-29		
		C	36-16-03	86-48-18		
20	DECATUR COUNTY	A	35-28-00	88-07-14	3	7.0
		B	35-36-10	88-07-01		
		C	35-45-17	88-05-41		
21	DEKALB COUNTY	A	36-01-40	85-57-43	3	7.0
		B	36-01-36	85-47-00		
		C	35-55-18	85-51-07		
		D	35-55-07	85-43-55		
22	DICKSON COUNTY	A	36-13-37	87-26-17	3	8.0
		B	36-13-07	87-15-48		
		C	36-03-16	87-17-12		
		D	36-04-37	87-27-20		

SYS NO	SYSTEM NAME	SITE	SITE COORDINATES		NO. OF CHANS	RANGE (MI.)
			LATITUDE	LONGITUDE		
23	DYER COUNTY	A	36-07-34	89-29-07	3	8.0
		B	36-06-52	89-15-55		
		C	35-59-16	89-18-28		
		D	36-00-39	89-34-34		
24	FAYETTE COUNTY	A	35-05-54	89-31-49	3	9.5
		B	35-05-38	89-18-57		
		C	35-17-16	89-19-17		
		D	35-17-40	89-30-17		
25	FENTRESS COUNTY	A	36-25-29	84-49-50	3	9.0
		B	36-26-53	84-58-28		
		C	36-15-31	85-00-10		
26	FRANKLIN COUNTY	A	35-05-10	85-59-03	3	8.0
		B	35-15-06	86-09-41		
		C	35-13-03	86-00-45		
		D	35-05-01	86-12-39		
27	GIBSON COUNTY	A	36-06-48	89-01-47	3	8.5
		B	36-02-35	88-48-56		
		C	35-57-26	89-02-05		
		D	35-53-12	88-49-08		
28	GILES COUNTY	A	35-14-14	86-55-39	3	7.5
		B	35-04-24	86-56-40		
		C	35-14-39	87-06-15		
		D	35-04-16	87-06-15		
		E	35-21-51	87-04-05		
29	GRAINGER COUNTY	A	36-18-49	83-25-29	3	8.5
		B	36-13-34	83-36-56		
30	GREENE COUNTY	A	36-17-05	82-45-20	3	10.0
		B	36-10-39	82-59-35		
		C	36-03-51	82-47-17		
31	GRUNDY COUNTY	A	35-26-48	85-46-10	3	7.5
		B	35-24-51	85-37-40		
		C	35-18-07	85-47-26		
32	HAMBLEEN COUNTY	A	36-13-01	83-16-22	3	9.0
33	HAMILTON COUNTY	A	35-04-38	85-17-07	11	8.5
		B	35-04-33	85-06-13		
		C	35-12-28	85-09-19		
		D	35-19-54	85-05-43		
34	HANCOCK COUNTY	A	36-34-41	83-00-30	3	6.5
		B	36-31-29	83-11-00		
		C	36-33-15	83-20-20		
		D	36-27-25	83-17-33		

SYS NO	SYSTEM NAME	SITE	SITE COORDINATES		NO. OF CHANS	RANGE (MI.)
			LATITUDE	LONGITUDE		
35	HARDEMAN COUNTY	A	35-06-22	89-05-25	3	9.0
		B	35-06-15	88-53-43		
		C	35-18-17	88-53-53		
		D	35-19-28	89-03-52		
36	HARDIN COUNTY	A	35-06-03	88-16-06	3	9.0
		B	35-06-28	88-05-58		
		C	35-17-46	88-05-20		
		D	35-18-24	88-15-00		
37	HAWKINS COUNTY	A	35-22-00	83-07-19	3	9.0
		B	36-27-05	82-56-51		
		C	36-31-05	82-44-59		
38	HAYWOOD COUNTY	A	35-42-36	89-21-03	3	8.0
		B	35-37-19	89-10-35		
		C	35-30-07	89-23-26		
		D	35-29-53	89-11-45		
39	HENDERSON COUNTY	A	35-45-38	88-17-53	3	7.0
		B	35-43-50	88-31-03		
		C	35-38-41	88-18-01		
		D	35-35-04	88-29-20		
		E	35-29-46	88-18-25		
40	HENRY COUNTY	A	36-25-15	88-23-14	3	8.0
		B	36-24-35	88-09-17		
		C	36-14-47	88-13-07		
		D	36-13-56	88-25-52		
41	HICKMAN COUNTY	A	35-44-28	87-22-55	3	8.5
		B	35-52-10	87-33-59		
		C	35-52-54	87-20-33		
		D	35-42-49	87-34-44		
42	HOUSTON COUNTY	A	36-17-30	87-54-35	3	4.5
		B	36-17-09	87-46-35		
		C	36-19-08	87-39-37		
		D	36-14-20	87-37-39		
		E	36-17-27	87-34-52		
43	HUMPHREYS COUNTY	A	36-09-53	87-49-57	3	7.5
		B	36-07-37	87-40-29		
		C	36-00-57	87-39-10		
		D	36-00-26	87-53-24		
		E	35-53-28	87-49-47		
44	JACKSON COUNTY	A	36-21-14	85-40-09	3	11.0
45	JEFFERSON COUNTY	A	36-04-28	83-32-00	3	8.5
		B	36-01-51	83-22-06		

SYS NO	SYSTEM NAME	SITE	SITE COORDINATES		NO. OF CHANS	RANGE (MI.)
			LATITUDE	LONGITUDE		
46	JOHNSON COUNTY	A	36-23-30	81-54-06	3	8.0
		B	36-31-43	81-48-41		
47	KNOX COUNTY	A	35-54-44	84-07-45	13	8.5
		B	36-03-30	83-56-46		
		C	35-56-08	83-50-31		
		D	36-03-44	83-46-01		
48	LAKE COUNTY	A	36-16-26	89-32-21	3	7.0
		B	36-25-01	89-28-10		
49	LAUDERDALE COUNTY	A	35-49-04	89-39-24	3	8.0
		B	35-50-19	89-29-00		
		C	35-41-13	89-32-56		
		D	35-40-29	89-49-55		
50	LAWRENCE COUNTY	A	35-18-23	87-27-12	3	8.5
		B	35-19-12	87-18-34		
		C	35-05-40	87-29-30		
		D	35-05-41	87-19-05		
51	LEWIS COUNTY	A	35-31-26	87-34-14	3	8.5
		B	35-31-55	87-23-53		
52	LINCOLN COUNTY	A	35-14-59	86-36-05	3	6.5
		B	35-10-50	86-43-59		
		C	35-04-03	86-44-06		
		D	35-03-58	86-35-04		
		E	35-03-48	86-24-04		
		F	35-12-01	86-28-34		
53	LOUDON COUNTY	A	35-41-30	84-26-47	3	6.0
		B	35-41-20	84-13-12		
		C	35-43-51	84-20-09		
		D	35-49-10	84-16-07		
54	MACON COUNTY	A	36-32-36	86-05-40	3	8.5
		B	36-31-33	85-55-26		
55	MADISON COUNTY	A	35-41-43	88-55-32	3	8.0
		B	35-41-26	88-42-07		
		C	35-32-09	88-45-37		
		D	35-30-41	88-57-55		
56	MARION COUNTY	A	35-06-13	85-45-19	3	9.5
		B	35-05-17	85-31-02		
		C	35-12-37	85-35-08		
57	MARSHALL COUNTY	A	35-36-48	86-44-02	3	6.5
		B	35-20-45	86-43-45		
		C	35-28-29	86-45-55		
		D	35-23-50	86-51-52		

SYS NO	SYSTEM NAME	SITE	SITE COORDINATES		NO. OF CHANS	RANGE (MI.)
			LATITUDE	LONGITUDE		
58	MAURY COUNTY	A	35-39-43	86-56-07	3	8.5
		B	35-43-56	87-08-54		
		C	35-31-25	86-59-46		
		D	35-33-27	87-13-53		
59	McMINN COUNTY	A	35-19-24	84-37-21	3	6.5
		B	35-27-28	84-32-10		
		C	35-20-59	84-29-28		
		D	35-21-32	84-44-43		
		E	35-27-18	84-41-16		
		F	35-33-51	84-35-36		
60	McNAIRY COUNTY	A	35-07-28	88-40-37	3	10.0
		B	35-06-00	88-29-41		
		C	35-16-46	88-31-16		
61	MEIGS COUNTY	A	35-22-02	84-56-28	3	5.5
		B	35-27-14	84-51-31		
		C	35-33-17	84-46-01		
		D	35-39-51	84-41-26		
62	MONROE COUNTY	A	35-19-57	84-11-21	3	9.5
		B	35-22-25	84-22-21		
		C	35-34-53	84-22-49		
		D	35-29-30	84-07-06		
63	MONTGOMERY COUNTY	A	36-25-43	87-17-17	5	8.0
		B	36-24-41	87-29-22		
		C	36-33-19	87-30-34		
		D	36-33-54	87-14-49		
64	MOORE COUNTY	A	35-12-14	86-20-50	3	5.0
		B	35-19-28	86-18-33		
		C	35-18-42	86-26-41		
65	MORGAN COUNTY	A	36-04-18	84-34-11	3	11.5
		B	36-12-31	84-43-51		
66	OBION COUNTY	A	36-24-59	89-14-27	3	8.0
		B	36-26-03	88-58-39		
		C	36-16-43	89-04-57		
		D	36-17-21	89-19-03		
67	OVERTON COUNTY	A	36-15-10	85-12-33	3	8.0
		B	36-25-10	85-14-03		
		C	36-19-31	85-23-01		
		D	36-25-21	85-21-44		
68	PERRY COUNTY	A	35-44-39	87-54-40	3	7.5
		B	35-44-43	87-47-55		
		C	35-33-45	87-46-48		
		D	35-33-09	87-56-12		

SYS NO	SYSTEM NAME	SITE	SITE COORDINATES		NO. OF CHANS	RANGE (MI.)
			LATITUDE	LONGITUDE		
69	PICKETT COUNTY	A	36-34-32	85-12-50	3	5.0
		B	36-28-39	85-08-06		
		C	36-33-53	85-07-07		
		D	36-35-25	84-58-41		
		E	36-34-24	84-49-50		
70	POLK COUNTY	A	35-07-04	84-31-24	3	13.5
71	PUTNAM COUNTY	A	36-06-14	85-18-02	3	7.5
		B	36-10-04	85-28-44		
		C	36-07-56	85-40-53		
72	RHEA COUNTY	A	35-30-36	85-01-04	3	7.0
		B	35-36-30	84-55-15		
		C	35-43-22	84-49-26		
73	ROANE COUNTY	A	35-43-48	84-34-53	3	7.5
		B	35-51-12	84-30-33		
		C	35-49-07	84-41-12		
		D	35-56-00	84-23-35		
74	ROBERTSON COUNTY	A	36-33-53	86-41-11	3	7.0
		B	36-35-09	86-50-37		
		C	36-27-20	86-48-35		
		D	36-34-40	87-01-23		
		E	36-27-40	86-59-41		
75	RUTHERFORD COUNTY	A	35-44-03	86-19-38	5	8.5
		B	35-52-51	86-16-29		
		C	35-46-09	86-31-51		
		D	35-57-59	86-29-18		
76	SCOTT COUNTY	A	36-32-02	84-37-44	3	8.5
		B	36-23-22	84-34-30		
		C	36-29-55	84-22-54		
		D	36-17-43	84-27-40		
77	SEQUATCHIE COUNTY	A	35-14-57	85-23-00	3	6.0
		B	35-19-51	85-19-31		
		C	35-19-26	85-27-20		
		D	35-22-54	85-24-04		
		E	35-29-09	85-28-34		
78	SEVIER COUNTY	A	35-41-43	83-34-02	3	10.0
		B	35-54-28	83-37-59		
		C	35-47-34	83-22-01		
79	SHELBY COUNTY	A	35-05-16	89-46-30	33	9.5
		B	35-16-53	89-58-42		
		C	35-17-08	89-45-52		
		D	35-05-20	90-03-48		

SYS NO	SYSTEM NAME	SITE	SITE COORDINATES		NO. OF CHANS	RANGE (MI.)
			LATITUDE	LONGITUDE		
80	SMITH COUNTY	A	36-11-26	85-52-44	3	6.5
		B	36-09-56	86-00-11		
		C	36-17-27	86-02-10		
		D	36-21-30	85-55-30		
81	STEWART COUNTY	A	36-25-34	87-43-29	3	7.5
		B	36-25-44	87-54-58		
		C	36-35-11	87-57-01		
		D	36-33-05	87-44-45		
82	SULLIVAN COUNTY	A	36-34-07	81-59-01	6	8.0
		B	36-29-25	82-10-27		
		C	36-30-18	82-21-34		
		D	36-30-21	82-33-30		
83	SUMNER COUNTY	A	36-24-22	86-22-50	4	8.5
		B	36-32-46	86-29-25		
		C	36-33-17	86-19-31		
		D	36-22-34	86-35-36		
84	TIPTON COUNTY	A	35-29-46	89-34-18	3	7.5
		B	35-27-57	89-43-44		
		C	35-33-54	89-43-38		
		D	35-28-19	89-56-36		
85	TROUSDALE COUNTY	A	36-24-08	86-12-47	3	5.5
		B	36-22-49	86-05-59		
86	UNICOI COUNTY	A	36-09-45	82-21-19	3	6.5
		B	36-03-19	82-30-41		
87	UNION COUNTY	A	36-17-25	83-50-21	3	10.0
88	VAN BUREN COUNTY	A	35-44-14	85-30-49	3	6.5
		B	35-44-19	85-21-34		
		C	35-36-45	85-28-53		
89	WARREN COUNTY	A	35-43-39	85-52-09	3	7.5
		B	35-45-16	85-42-18		
		C	35-36-39	85-50-31		
		D	35-36-20	85-41-47		
90	WASHINGTON COUNTY	A	36-22-59	82-24-36	4	7.0
		B	36-20-34	82-34-14		
		C	36-15-43	82-25-24		
		D	36-11-16	82-34-32		

SYS NO	SYSTEM NAME	SITE	SITE COORDINATES		NO. OF CHANS	RANGE (MI.)
			LATITUDE	LONGITUDE		
91	WAYNE COUNTY	A	35-05-34	87-52-15	3	8.0
		B	35-05-53	87-40-48		
		C	35-16-06	87-41-05		
		D	35-15-17	87-52-03		
		E	35-22-38	87-53-43		
		F	35-23-50	87-42-39		
92	WEAKLEY COUNTY	A	36-24-28	88-47-44	3	8.5
		B	36-23-31	88-36-59		
		C	36-14-57	88-49-26		
		D	36-11-29	88-39-26		
93	WHITE COUNTY	A	35-53-20	85-34-18	3	8.0
		B	35-53-36	85-20-23		
		C	35-58-51	85-28-43		
94	WILLIAMSON COUNTY	A	35-51-01	86-44-06	3	9.5
		B	35-55-24	87-04-10		
		C	35-54-19	86-52-49		
95	WILSON COUNTY	A	36-14-34	86-26-47	3	8.5
		B	36-06-39	86-21-52		
		C	36-13-09	86-13-50		
		D	36-03-41	86-09-41		
96	DIVISION 1	A	36-28-08	81-51-43	10	13.0
		B	36-27-46	82-16-28		
		C	36-26-23	82-37-21		
		D	36-28-58	82-55-03		
		E	36-28-55	83-13-34		
		F	36-16-35	82-59-42		
		G	36-07-16	82-50-04		
		H	36-08-47	82-30-24		
		I	36-14-18	82-09-01		

SYS NO	SYSTEM NAME	SITE	SITE COORDINATES		NO. OF CHANS	RANGE (MI.)
			LATITUDE	LONGITUDE		
97	DIVISION 2	A	36-27-22	84-35-16	10	13.0
		B	36-26-53	84-15-25		
		C	36-26-49	83-54-00		
		D	36-26-41	83-33-56		
		E	36-13-23	83-18-15		
		F	36-09-06	83-42-09		
		G	36-09-03	84-05-00		
		H	36-09-43	84-24-41		
		I	36-10-19	84-43-01		
		J	35-50-29	84-34-31		
		K	35-50-03	84-15-17		
		L	35-55-15	83-53-33		
		M	35-57-21	83-28-48		
		N	35-55-40	83-05-28		
		O	35-47-43	83-17-53		
		P	35-41-31	83-37-18		
Q	35-38-54	83-59-00				
98	DIVISION 3	A	35-24-21	85-44-42	10	13.0
		B	35-08-04	85-45-43		
		C	35-07-22	85-28-11		
		D	35-08-07	85-08-02		
		E	35-08-23	84-46-51		
		F	35-09-03	84-26-31		
		G	35-22-53	85-00-16		
		H	35-25-36	85-22-52		
		I	35-37-10	85-09-35		
		J	35-38-45	84-47-27		
		K	35-21-39	84-35-39		
		L	35-34-12	84-24-10		
		M	35-24-47	84-09-50		
99	DIVISION 4	A	36-27-45	85-39-16	10	13.5
		B	36-27-11	85-17-55		
		C	36-27-23	84-55-23		
		D	36-09-49	85-04-49		
		E	36-10-52	85-38-13		
		F	36-04-47	85-24-06		
		G	35-58-18	85-48-51		
		H	35-40-26	85-47-08		
		I	35-44-27	85-31-09		
		J	35-51-23	85-12-54		
		K	35-56-04	84-53-41		

SYS NO	SYSTEM NAME	SITE	SITE COORDINATES		NO. OF CHANS	RANGE (MI.)
			LATITUDE	LONGITUDE		
100	DIVISION 5	A	36-31-21	87-51-42	20	15.0
		B	36-28-48	87-25-34		
		C	36-28-14	87-01-17		
		D	36-28-03	86-39-49		
		E	36-28-17	86-18-26		
		F	36-28-00	85-58-48		
		G	36-08-52	86-03-01		
		H	36-06-35	86-30-02		
		I	36-10-44	86-53-24		
		J	36-08-31	87-19-39		
		K	36-14-38	87-43-39		
		L	35-57-37	87-48-10		
		M	35-54-13	86-56-21		
		N	35-49-19	86-30-32		
		O	35-49-21	86-08-40		
101	DIVISION 6	A	35-50-31	87-25-36	10	14.0
		B	35-42-56	87-47-56		
		C	35-27-35	87-50-47		
		D	35-27-34	87-29-47		
		E	35-39-52	87-06-30		
		F	35-34-01	86-44-23		
		G	35-28-37	86-25-53		
		H	35-27-38	86-04-42		
		I	35-08-31	85-57-26		
		J	35-21-07	86-43-51		
		K	35-07-43	86-17-06		
		L	35-07-12	86-36-40		
		M	35-07-27	87-01-02		
		N	35-22-06	87-07-55		
		O	35-07-57	87-24-58		
P	35-09-13	87-49-57				
102	DIVISION 7	A	36-21-07	89-19-00	10	15.5
		B	36-18-05	88-55-48		
		C	36-19-21	88-32-21		
		D	36-18-53	88-08-24		
		E	36-00-01	88-05-55		
		F	35-59-21	88-30-22		
		G	35-53-13	88-51-23		
		H	35-55-21	89-08-33		
		I	36-03-32	89-30-52		

SYS NO	SYSTEM NAME	SITE	SITE COORDINATES		NO. OF CHANS	RANGE (MI.)
			LATITUDE	LONGITUDE		
103	DIVISION 8	A	35-07-50	89-59-25	10	18.0
		B	35-12-24	89-28-19		
		C	35-10-37	89-01-17		
		D	35-13-04	88-33-51		
		E	35-11-26	88-12-00		
		F	35-38-14	88-10-07		
		G	35-35-50	88-40-24		
		H	35-33-18	89-07-02		
		I	35-24-29	89-52-52		
		J	35-42-50	89-33-53		

Protection Ratios - Co-Channel: 35 dB., Adjacent Channel: 15 dB.

Spacing for Transmitter Combining: 0.250 MHz.

CHANNEL ASSIGNMENTS

CHANNEL ASSIGNMENTS BY FREQUENCY

<u>Channel Number</u>	<u>Frequencies</u>	<u>Counties and Use</u>
601	821.0125/866.0125	Mutual Aid
602	821.0375/866.0375	Hickman, Cocke, Chester, Cannon
603	821.0500/866.0600	Union
604	821.0625/866.0625	Loudon, Rutherford
605	821.0750/866.0750	Montgomery
606	821.0875/866.0875	Putnam, Meigs, Jefferson, Franklin, Fayette, Carroll
607	821.1000/866.1000	Sumner
608	821.1125/866.1125	Unassigned
609	821.1250/866.1250	Sevier, Maury, State Division 4
610	821.1375/866.1375	Unassigned
611	821.1500/866.1500	Unicoi, Hancock, Crockett, Coffee, Blount, Benton
612	821.1625/866.1625	Williamson
613	821.1750/866.1750	Unassigned
614	821.1875/866.1875	Unassigned
615	821.2000/866.2000	White, Perry, McMinn, Gibson, Franklin
616	821.2125/866.2125	Unassigned
617	821.2250/866.2250	Unassigned
618	821.2375/866.2375	Sevier, Dickson, State Division 4
619	821.2500/866.2500	Unassigned
620	821.2625/866.2625	Hardeman, Decatur, Cheatham, Carter, Blount, Bledsoe
621	821.2750/866.2750	Rutherford
622	821.2875/866.2875	Madison, Lewis, Grainger
623	821.3000/866.3000	Shelby
624	821.3125/866.3125	White, Washington, Shelby, McMinn, Franklin, Davidson, Carroll
625	821.3250/866.3250	Unassigned
626	821.3375/866.3375	Unassigned
627	821.3500/866.3500	State Division 5, State Division 2
628	821.3625/866.3625	Montgomery
629	821.3750/866.3750	Maury, Lake, Grundy, Carroll, State Division 2
630	821.3875/866.3875	Unassigned
631	821.4000/866.4000	Rutherford, State Division 7
632	821.4125/866.4125	Unassigned
633	821.4250/866.4250	Shelby, Monroe, Davidson, State Division 7
634	821.4375/866.4375	Davidson
635	821.4500/866.4500	Unassigned
636	821.4625/866.4625	Hamilton, Grainger, State Division 5

Channel Assignments for Region 39 Continued

<u>Channel Number</u>	<u>Frequencies</u>	<u>Counties and Use</u>
637	821.4750/866.4750	Unassigned
638	821.4875/866.4875	Unassigned
639	821.5125/866.5125	Mutual Aid
640	821.5375/866.5375	Loudon, Hardeman, Cannon, Benton
641	821.5500/866.5500	State Division 1
642	821.5625/866.5625	Bradley, Robertson
643	821.5750/866.5750	Unassigned
644	821.5875/866.5875	Fayette, Clay, State Division 3
645	821.6000/866.6000	Sumner, Hamilton
646	821.6125/866.6125	Williamson
647	821.6250/866.6250	Sequatchie, Polk, Knox, Jackson
648	821.6375/866.6375	Unassigned
649	821.6500/866.6500	Lewis, Haywood, Cumberland, State Division 1
650	821.6625/866.6625	State Division 6
651	821.6750/866.6750	Unassigned
652	821.6875/866.6875	Unassigned
653	821.7000/866.7000	Lauderdale, Henderson, Davidson, State Division 3
654	821.7125/866.7125	Unassigned
655	821.7250/866.7250	Unassigned
656	821.7375/866.7375	Wayne, Tipton, Davidson, State Division 2
657	821.7500/866.7500	Unassigned
658	821.7625/866.7625	Smith, Giles, Decatur, Crockett, Carter, Blount, Bledsoe
659	821.7750/866.7750	Unassigned
660	821.7875/866.7875	Madison, Van Buren, Sullivan, Lewis, Grundy, Campbell
661	821.8000/866.8000	Unassigned
662	821.8125/866.8125	Sullivan, Houston, Hamblen, Gibson, State Division 3
663	821.8250/866.8250	Williamson
664	821.8375/866.8375	Shelby, State Division 4
665	821.8500/866.8500	Warren, Pickett, Davidson, State Division 7
666	821.8625/866.8625	Unassigned
667	821.8750/866.8750	Maury, Greene, State Division 7, State Division 3
668	821.8875/866.8875	Hamilton
669	821.9000/866.9000	Stewart, Rutherford, Knox, Fentress
670	821.9125/866.9125	Unassigned
671	821.9250/866.9250	Trousdale, Obion, Monroe, State Division 5
672	821.9375/866.9375	Montgomery, Trousdale, Smith
673	821.9500/866.9500	Unassigned
674	821.9625/866.9625	Knox, Henry, Davidson
675	821.9750/866.9750	Unassigned
676	821.9875/866.9875	Unassigned

Channel Assignments for Region 39 Continued

<u>Channel Number</u>	<u>Frequencies</u>	<u>Counties and Use</u>
677	822.0125/867.0125	Mutual Aid
678	822.0375/867.0375	Madison, Rutherford
679	822.0500/867.0500	Shelby, Morgan, Humphreys, State Division 1
680	822.0625/867.0625	Robertson
681	822.0750/867.0750	Unassigned
682	822.0875/867.0875	Washington, Marshall, Hardin, State Division 3
683	822.1000/867.1000	Hamilton
684	822.1125/867.1125	Unassigned
685	822.1250/867.1250	Sequatchie, Morgan, Lincoln, Davidson, State Division 8
686	822.1375/867.1375	Unassigned
687	822.1500/867.1500	Johnson, State Division 3, State Division 8
688	822.1625/867.1625	Scott
689	822.1750/867.1750	State Division 6
690	822.1875/867.1875	State Division 6
691	822.2000/867.2000	Macon, Lake, State Division 6, State Division 2
692	822.2125/867.2125	Shelby
693	822.2250/867.2250	State Division 6
694	822.2375/867.2375	Knox, State Division 6
695	822.2500/867.2500	Unassigned
696	822.2625/867.2625	Johnson, Giles, Cumberland, Cocke, Cheatham, Cannon, State Division 8
697	822.2750/867.2750	Knox, State Division 8
698	822.2875/867.2875	Van Buren, Madison, Knox, Grundy
699	822.3000/867.3000	Wayne, Shelby
700	822.3125/867.3125	Davidson, Clay, State Division 7, State Division 3
701	822.3250/867.3250	Shelby
702	822.3375/867.3375	Montgomery, State Division 4
703	822.3500/867.3500	Union, Montgomery, State Division 4, State Division 8
704	822.3625/867.3625	Unassigned
705	822.3750/867.3750	Loudon, Greene, Bedford, State Division 8
706	822.3875/867.3875	Shelby, Sequatchie
707	822.4000/867.4000	Shelby, Rutherford, Houston, State Division 2
708	822.4125/867.4125	Shelby
709	822.4250/867.4250	Trousdale, Polk, Obion, Hancock, State Division 5
710	822.4375/867.4375	Montgomery, Smith, State Division 1
711	822.4500/867.4500	Unassigned
712	822.4625/867.4625	Tipton, Knox, Henry, Davidson
713	822.4750/867.4750	Unassigned
714	822.4875/867.4875	Unassigned
715	822.5125/867.5125	Mutual Aid

Channel Assignments for Region 39 Continued

<u>Channel Number</u>	<u>Frequencies</u>	<u>Counties and Use</u>
716	822.5375/867.5375	Loudon
717	822.5500/867.5500	Wilson, Claiborne, State Division 8
718	822.5625/867.5625	Shelby, Marion
719	822.5750/867.5750	Rutherford
720	822.5875/867.5875	Washington, Van Buren, Loudon, Lincoln, Cheatham, State Division 8
721	822.6000/867.6000	Shelby
722	822.6125/867.6125	Shelby
723	822.6250/867.6250	Sullivan, Lawrence, Jackson
724	822.6375/867.6375	Unassigned
725	822.6500/867.6500	Williamson, Unicoi, Lauderdale, Hardin, State Division 3
726	822.6625/867.6625	Unassigned
727	822.6750/867.6750	Shelby, State Division 6
728	822.6875/867.6875	Shelby
729	822.7000/867.7000	Obion, McNairy, State Division 5, State Division 2
730	822.7125/867.7125	Montgomery
731	822.7250/867.7250	Unassigned
732	822.7375/867.7375	Shelby, State Division 5, State Division 2
733	822.7500/867.7500	Unassigned
734	822.7625/867.7625	Johnson, Decatur, Crockett, Coffee, Cocke, Anderson
735	822.7750/867.7750	Hancock, Hamilton
736	822.7875/867.7875	Madison, Lawrence, Jackson, Hamilton, Campbell
737	822.8000/867.8000	Williamson, Hamilton
738	822.8125/867.8125	Sullivan, Monroe, Hamblen, Dyer, State Division 5
739	822.8250/867.8250	Rutherford
740	822.8375/867.8375	Shelby
741	822.8500/867.8500	Dickson, State Division 4, State Division 1
742	822.8625/867.8625	Unassigned
743	822.8750/867.8750	Sullivan, Shelby, Loudon, Hamblen, Giles, DeKalb, State Division 7
744	822.8875/867.8875	Williamson, Shelby
745	822.9000/867.9000	Marion, State Division 7, State Division 2
746	822.9125/867.9125	Unassigned
747	822.9250/867.9250	Davidson, State Division 3, Dyer
748	822.9375/867.9375	Shelby, Montgomery, Hamilton, State Division 1
749	822.9500/867.9500	Unassigned
750	822.9625/867.9625	Weakley, Polk, Knox, State Division 6
751	822.9750/867.9750	Unassigned
752	822.9875/867.9875	Shelby, State Division 5, State Division 2
753	823.0125/868.0125	Mutual Aid

Channel Assignments for Region 39 Continued

<u>Channel Number</u>	<u>Frequencies</u>	<u>Counties and Use</u>
754	823.0375/868.0375	Lake, Cumberland, Chester, Bedford, State Division 1
755	823.0500/868.0500	Hawkins
756	823.0625/868.0625	State Division 6
757	823.0750/868.0750	Unassigned
758	823.0875/868.0875	Macon, Gibson, State Division 6, State Division 2
759	823.1000/868.1000	Wayne
760	823.1125/868.1125	Unassigned
761	823.1250/868.1250	Wilson, Tipton, Sullivan, Rhea, Overton, Lawrence
762	823.1375/868.1375	Montgomery
763	823.1500/868.1500	Unicoi, Perry, Hardeman, Bradley, Bedford, Anderson
764	823.1625/868.1625	Sumner
765	823.1750/868.1750	Marion
766	823.1875/868.1875	Unassigned
767	823.2000/868.2000	Perry, Moore, Davidson, Clay, Bradley
768	823.2125/868.2125	Shelby
769	823.2250/868.2250	Unassigned
770	823.2375/868.2375	Union, Robertson, State Division 4
771	823.2500/868.2500	State Division 8
772	823.2625/868.2625	Henderson, Greene, Fayette, DeKalb, Anderson
773	823.2750/868.2750	Unassigned
774	823.2875/868.2875	Rhea, Overton, McNairy, Humphreys, Davidson, Campbell
775	823.3000/868.3000	Hawkins
776	823.3125/868.3125	Putnam, Moore, Haywood, Hawkins, Davidson
777	823.3250/868.3250	Unassigned
778	823.3375/868.3375	Unassigned
779	823.3500/868.3500	State Division 4, State Division 1, State Division 8
780	823.3625/868.3625	Unassigned
781	823.3750/868.3750	White, Marshall, Bradley, Dyer
782	823.3875/868.3875	Unassigned
783	823.4000/868.4000	Weakley, Rutherford, Fentress
784	823.4125/868.4125	Shelby
785	823.4250/868.4250	Morgan, State Division 5
786	823.4375/868.4375	Sumner, Shelby, Houston, State Division 1
787	823.4500/868.4500	Unassigned
788	823.4625/868.4625	Stewart, Putnam, Knox, Davidson
789	823.4750/868.4750	Montgomery
790	823.4875/868.4875	Roane, Davidson, State Division 1
791	823.5000/868.5000	Unassigned
792	823.5125/868.5125	Unassigned
793	823.5250/868.5250	Unassigned

Channel Assignments for Region 39 Continued

<u>Channel Number</u>	<u>Frequencies</u>	<u>Counties and Use</u>
794	823.5375/868.5375	Shelby, Hickman, Chester, Carter, Blount, Bledsoe
795	823.5500/868.5500	Hamblen, Wilson
796	823.5625/868.5625	Unassigned
797	823.5750/868.5750	Rutherford
798	823.5875/868.5875	Washington, Lincoln, Knox, Hickman, Haywood
799	823.6000/868.6000	State Division 4
800	823.6125/868.6125	Shelby
801	823.6250/868.6250	Sevier, State Division 4
802	823.6375/868.6375	Williamson
803	823.6500/868.6500	Scott, McMinn, Jefferson, Hardin, DeKalb
804	823.6625/868.6625	Shelby, Scott
805	823.6750/868.6750	Unassigned
806	823.6875/868.6875	Shelby
807	823.7000/868.7000	Moore, Meigs, Henderson, Davidson
808	823.7125/868.7125	Unassigned
809	823.7250/868.7250	Montgomery
810	823.7375/868.7375	McNairy, Claiborne, State Division 5
811	823.7500/868.7500	Unassigned
812	823.7625/868.7625	Rhea, Jefferson, Coffee, Benton
813	823.7750/868.7750	Unassigned
814	823.7875/868.7875	Overton, Hamilton, Grainger, Dickson
815	823.8000/868.8000	Hamilton
816	823.8125/868.8125	Warren, Roane, Macon, Lauderdale
817	823.8250/868.8250	Williamson
818	823.8375/868.8375	Shelby
819	823.8500/868.8500	Warren, Roane, Pickett, Humphreys, Davidson, Claiborne
820	823.8625/868.8625	Unassigned
821	823.8750/868.8750	Marshall, State Division 3, Weakley
822	823.8875/868.8875	Shelby, Hamilton
823	823.9000/868.9000	Williamson, Pickett, Knox
824	823.9125/868.9125	Shelby
825	823.9250/868.9250	Knox, Henry, Fentress, Davidson
826	823.9375/868.9375	Shelby
827	823.9500/868.9500	Unassigned
828	823.9625/868.9625	Stewart, Knox, Davidson
829	823.9750/868.9750	Montgomery
830	823.9875/868.9875	Unassigned

Channel Assignments for Region 39 Continued

CHANNEL ASSIGNMENTS BY COUNTY

<u>Tennessee County</u>	<u>Assigned Channels</u>						
Anderson	734	763	772				
Bedford	705	754	763				
Benton	611	640	812				
Bledsoe	620	658	794				
Blount	611	620	658	794			
Bradley	642	763	767	781			
Campbell	660	736	774				
Cannon	602	640	696				
Carroll	606	624	629				
Carter	620	658	794				
Cheatham	620	696	720				
Chester	602	754	794				
Claiborne	717	810	819				
Clay	644	700	767				
Cocke	602	696	734				
Coffee	611	734	812				
Crockett	611	658	734				
Cumberland	649	696	754				
Davidson	624	633	634	653	656	665	674
Davidson	685	700	712	747	767	774	776
Davidson	788	790	807	819	825	828	
De Kalb	743	772	803				
Decatur	620	658	734				
Dickson	618	741	814				
Dyer	738	747	781				
Fayette	606	644	772				
Fentress	669	783	825				
Franklin	606	615	624				
Gibson	615	662	758				
Giles	658	696	743				
Grainger	622	636	814				
Greene	667	705	772				
Grundy	629	660	698				
Hamblen	662	738	743	795			
Hamilton	636	645	668	683	735	736	737
Hamilton	748	814	815	822			
Hancock	611	709	735				
Hardeman	620	640	763				

Channel Assignments for Region 39 Continued

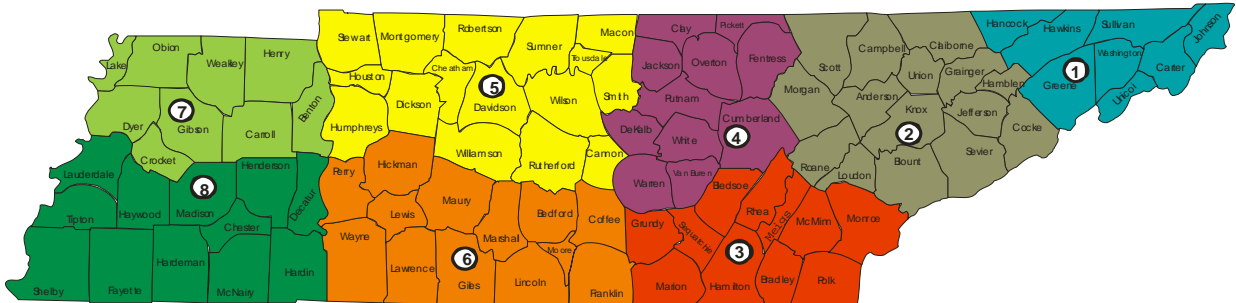
<u>Tennessee County</u>	<u>Assigned Channels</u>						
Hardin	682	725	803				
Hawkins	755	775	776				
Haywood	649	776	798				
Henderson	653	772	807				
Henry	674	712	825				
Hickman	602	794	798				
Houston	662	707	786				
Humphreys	679	774	819				
Jackson	647	723	736				
Jefferson	606	803	812				
Johnson	687	696	734				
Knox	647	669	674	694	697	698	712
Knox	750	788	798	823	825	828	
Lake	629	691	754				
Lauderdale	653	725	816				
Lawrence	723	736	761				
Lewis	622	649	660				
Lincoln	685	720	798				
Loudon	604	640	705	716	720	743	
Macon	691	758	816				
Madison	622	660	678	698	736		
Marion	718	745	765				
Marshall	682	781	821				
Maury	609	629	667				
McMinn	615	624	803				
McNairy	729	774	810				
Meigs	602	606	807				
Monroe	633	671	738				
Montgomery	605	628	672	702	710	730	748
Montgomery	762	789	809	829			
Moore	767	776	807				
Morgan	679	685	785				
Obion	671	709	729				
Overton	761	774	814				
Perry	615	763	767				
Pickett	665	819	823				
Polk	647	709	750				
Putnam	606	776	788				
Rhea	761	774	812				
Roane	790	816	819				
Robertson	642	680	770				

Channel Assignments for Region 39 Continued

<u>Tennessee County</u>	<u>Assigned Channels</u>						
Rutherford	604	621	631	669	678	707	719
Rutherford	739	783	797				
Scott	688	803	804				
Sequatchie	647	685	706				
Sevier	609	618	801				
Shelby	623	624	633	664	679	692	699
Shelby	701	706	707	708	718	721	722
Shelby	727	728	732	740	743	744	748
Shelby	752	768	784	786	794	800	804
Shelby	818	822	824	826			
Smith	658	672	710				
Stewart	669	788	828				
Sullivan	660	662	723	738	743	761	
Sumner	607	645	764	786			
Tipton	656	712	761				
Trousdale	671	672	709				
Unicoi	611	725	763				
Union	603	703	770				
Van Buren	660	698	720				
Warren	665	816	819				
Washington	624	682	720	798			
Wayne	656	699	759				
Weakley	750	783	821				
White	615	624	781				
Williamson	612	646	663	725	737	744	802
Williamson	817	823					
Wilson	717	761	795				
State Division 1	641	649	679	710	741	748	754
State Division 1	779	786	790				
State Division 2	627	629	656	691	707	729	732
State Division 2	745	752	758				
State Division 3	644	653	662	667	682	687	700
State Division 3	725	747	821				
State Division 4	609	618	664	702	703	741	770
State Division 4	779	799	801				
State Division 5	627	636	671	709	729	732	738
State Division 5	752	785	810				
State Division 6	650	689	690	691	693	694	727
State Division 6	750	756	758				
State Division 7	631	633	665	667	700	743	745
State Division 8	685	687	696	697	703	705	717
State Division 8	720	771	779				

5.4 State Divisions Map

REGION 39 800 MHz STATE DIVISIONS MAP



DIVISION 7 COUNTIES
 Benton, Carroll, Crockett,
 Dyer, Gibson, Henry, Lake,
 Obion, Weakley

DIVISION 8 COUNTIES
 Chester, Decatur, Fayette,
 Hardeman, Hardin, Haywood,
 Henderson, Lauderdale,
 Madison, McNairy, Shelby, Tipton

DIVISION 5 COUNTIES
 Cannon, Cheatham, Davidson,
 Dickson, Houston, Humphreys,
 Macon, Montgomery, Robertson,
 Rutherford, Smith, Stewart,
 Sumner, Trousdale, Williamson,
 Wilson

DIVISION 6 COUNTIES
 Bedford, Coffee, Franklin, Giles,
 Hickman, Lawrence, Lewis,
 Lincoln, Marshall, Maury,
 Moore, Perry, Wayne

DIVISION 4 COUNTIES
 Clay, Cumberland, DeKalb,
 Fentress, Jackson, Overton,
 Pickett, Putnam, White,
 Van Buren, Warren

DIVISION 3 COUNTIES
 Bledsoe, Bradley, Grundy,
 Hamilton, Marion, McMinn,
 Meigs, Monroe, Polk, Rhea,
 Sequatchie

DIVISION 2 COUNTIES
 Anderson, Blount, Campbell,
 Claiborne, Cocke, Grainger,
 Hamblin, Jefferson, Knox,
 Loudon, Morgan, Roane,
 Scott, Sevier, Union

DIVISION 1 COUNTIES
 Carter, Green, Hancock,
 Hawkins, Johnson, Sullivan,
 Unicoi, Washington

5.5 Assignment Statistics

Maximum field strength for co-channel operation is 5 dBu

Maximum field strength for adjacent channel operation is 25 dBu

Total number of channels assigned	154
Total number of unassigned channels	71
Total number of reserved channels	5

5.6 Expansion of Initial Allocation

In the event that the allocation for any county becomes depleted, the Region Review Committee shall meet to make further allocations to that county. Should this occur, the applying agency or entity shall submit the proper license and coordination applications with all applicable fees, as in any other licensing request. Allocations will be made based on the initial frequency allocation plan as mentioned above, considering the channels that were returned to the reserve pool.

5.7 Prioritization of Applicants

A very simple method of prioritization has been chosen for use in this Region. As there is no unmet spectrum requirement, there appears to be no great need for prioritization. To facilitate future problems that may arise, the following rating system shall be used.

Prioritization shall be done according to a final score, based on applicant criteria. The highest score, in points, shall be given priority in a situation where spectrum is insufficient to fulfill the needs of all.

Public Safety Agencies	2 Points
Public Services Agencies	1 Point
Multi-agency Systems	2 Points
Multi-agency/Multi Jurisdiction Systems	3 Points
Single Agency/Jurisdiction Systems	1 Point

5.8 Appeal Process

At any time, any applicant may appeal an allocation, rejection, or any limits placed on a particular application for any reason. The appeal process has two levels; the Region Review Committee, 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 FCC, their decision will be final and binding upon all parties.

6.0 THE REGION 39 PLANNING COMMITTEE

CHAIRPERSON:

David Wolfe, Chairman
 Tennessee Emergency Management Agency
 3041 Sidco Drive
 Nashville, TN 37204
 615/741-0001

THE REGIONAL PLANNING COMMITTEE

Name	Organization/Address	Telephone #
Allen, Don	Hamilton County EMA 317 Oak Street Chattanooga, Tennessee 37403	(615) 757-2300
Allman, John	Brentwood Fire Department 5211 Maryland Way Brentwood, Tennessee 37221	(615) 371-0170
Austin, Kenneth	Metro Radio Shop 41 Peabody Street Nashville, Tennessee 37210	(615) 682-5111
Bateman, Ron	Martin Marietta Emergency Services 109 Danbury Drive Oak Ridge, Tennessee 37830	(615) 574-5217
Bird, John	Tennessee Association of Rescue Squads Realty World Building 820 Tulip Avenue Knoxville, Tennessee	(615) 522-9045
Brooks, Craig*	Tennessee Hospital Association 500 Interstate Boulevard South Nashville, Tennessee 37210	(615) 256-8240
Brooks, Robert Earl	NFD-EMS 2613 Mt. Laurel Drive Antioch, Tennessee 37013	(615) 781-4884
Brown, Ernie	General Electric 25 Century Boulevard Suite 504 Nashville, Tennessee 37214	(615) 391-4477
Bryant, Charles	Memphis-Shelby County EMA 125 N Mid-American Mall Memphis, Tennessee 38013	(901) 528-2780
Bull, Alan	Knoxville County Emergency Communications District 400 Main Avenue L305 Knoxville, Tennessee 37902	(615) 521-2201
Carroll, Michael A.	Department of Transportation 6600 Centennial Boulevard Nashville, Tennessee 37209	(615) 741-2277

The Regional Planning Committee Continued

Name	Organization/Address	Telephone #
Cohen, Alvin	Tennessee Department of General Services C2-205 Central Services Building Nashville, Tennessee 37219	(615) 741-1035
Crenshaw, Jeff	Memphis-Shelby County EMA 125 N Mid-American Mall Memphis, Tennessee 38013	(901) 528-2780
Crinklaw, Jim*	E.F. Johnson Company 121 Lewisville Center Suite 172 Lewisville, Texas 75056	(214) 539-1966
Curd, Lewis	Motorola 7101 Executive Center Drive, Suite 197 Brentwood, Tennessee 37027	(615) 373-0800
David, Gene*	FEMA Region IV Thomasville, Georgia 31792	(912) 225-4500
Dinsmore, Ervin	Chattanooga PD 3300 Amnicola Highway Chattanooga, Tennessee 37406	(615) 698-9703
Draughn, Ed	Sullivan County SO Box 589 Blountville, Tennessee 37617	(615) 323-5121
Dykes, Bill	City of Kingsport, Tennessee Route 2, Box 235 Church Hill, Tennessee 37642	(615) 229-9468
Eaves, Thomas	Blount County Communications Center Post Office Box 108 Alcoa, Tennessee 37701	(615) 982-4210
Eldridge, W. Kent	Department of Safety 225 Ezell Pike Nashville, Tennessee 37217	(615) 741-6799
Farris, Ronald	City of Chattanooga 3300½ Amnicola Highway Electronic Department Chattanooga, Tennessee 37406	(615) 698-9703
Fowler, Roger	Memphis State University 151 Administration Building Memphis, Tennessee 38152	(901) 678-3848
Frady, Doug*	State Planning 309 John Sevier State Office Building Nashville, Tennessee 37219	(615) 741-1676
Fry, Jerry	MSU/Public Safety 778 Colonial Road Memphis, Tennessee 38117	(901) 678-4357
Garner, John	Shelby County 911 785 Crossover Lane, Suite 150 Memphis, Tennessee 38117	(901) 685-0911

The Regional Planning Committee Continued

Name	Organization/Address	Telephone #
Goodrich, Dorothy*	FCC 1365 Peachtree Street, NE, Room 440 Atlanta, Georgia 30309	(404) 279-4621
Goulet, Mark	Brentwood Fire Department 5211 Maryland Way Brentwood, Tennessee 37027	(615) 371-0160
Grantz, Don*	E.F. Johnson Company 6718 Edgeworth Drive Orlando, Florida 32819	(407) 351-2602
Hill, Ike*	Tennessee Sheriff's Association 501 Union Street, Suite L-102 Nashville, Tennessee 37219	(615) 242-0409
Hooper, Arnold	City of Chattanooga 3300½ Amnicola Highway Chattanooga, Tennessee 37406	(615) 698-9703
Hughes, Vince*	Intergraph Corporation One Madison Industrial Park Huntsville, Alabama 35894	(205) 730-2000
Hutchinson, James	Vanderbilt Medical Center 1161 21 st Avenue South Nashville, Tennessee 37232-7150	(615) 322-3440
Johnson, John W.	Tennessee Emergency Management Agency 3041 Sidco Drive Nashville, Tennessee 37204	(615) 741-3826
Johnston, Ken	Motorola 520 Augusta National Highway Knoxville, Tennessee 37922	(615) 690-6110
Jones, Mike*	Martin Marietta ES 701 Scarboro Road, MS-8227 Oak Ridge, Tennessee 37831-8227	(615) 574-5217
Kaldenbach, Brian*	Martin Marietta Emergency Services Post Office Box 2003 MS 7591 Oak Ridge, Tennessee 37831-7591	(615) 576-2863
Key, Tom	Knox County 911 Suite L-305 400 Main Avenue Knoxville, Tennessee 37902	(615) 521-2201
Lane, Pat	MSU/TV/FM 3390 Northwood Drive Memphis, Tennessee 38111	(901) 458-2521
Lowry, Ike	Sullivan 911 485 Blountville Blountville, Tennessee 37617	(615) 323-9111
Lyons, Otto	Assistant Chief Bartlett Fire Department 2939 Alturia Bartlett, Tennessee 38134	(901) 385-6412

#Resource Member

The Regional Planning Committee Continued

Name	Organization/Address	Telephone #
McDonald, Robert	Department of Safety 225 Ezell Pike Nashville, Tennessee 37217	(615) 741-6799
McKinney, Mac	G.E. 25 Century Boulevard, Suite 504 Nashville, Tennessee 37214	(615) 391-4477
McKukehn, Roy*	Governors Planning Office Nashville, Tennessee 37249	(615) 741-1676
McNeill, Bob	Washington County 911 Post Office Box 448 Johnson City, Tennessee 37605	(615) 928-8071
Mims, Ed*	Motorola Communications 7101 Executive Center Drive, Suite 197 Brentwood, Tennessee 37017	(615) 373-0800
Mitchell, John*	Mitchell Group 845 Crossover, Suite 119 Memphis, Tennessee 38117	(901) 682-0086
Mize, Jerry	Tennessee Wildlife Resources Agency 900 Breckenridge Brownsville, Tennessee 38012	(615) 781-6580
Mosca, John	Post Office Box 955 Norris, Tennessee 37828	(615) 690-6110
Muse, Allen	Metro Police 2060 15 th Avenue South Nashville, Tennessee 37212	(615) 862-8554
Myers, Richard	Warren County EMA Route 3, Box 279 McMinnville, Tennessee 37110	(615) 473-5312
Neal, Roy Turner	Tennessee Dept of Health and Environment - EMA 287 Plus Park Boulevard Nashville, Tennessee 37217	(615) 367-6275
Patterson, Edgar	Montgomery County SO 120 Commerce Street Clarksville, Tennessee 37040	(615) 648-0611
Phipps, Charles	Tennessee Wildlife Resources Agency 312 S. Baird Lane Murfreesboro, Tennessee 37130	(615) 781-6580
Pierce, Ken	State of Tennessee F&A 598 James Robertson Parkway Nashville, Tennessee	(615) 741-5239
Pollock, Steve	Department of Environment and Conservation 245 Blanton Avenue Nashville, Tennessee 37210	(615) 741-0671
Poynter, Bob	Knox County 911 Suite L-305 400 Main Avenue Knoxville, Tennessee 37902	(615) 521-2201

The Regional Planning Committee Continued

Name	Organization/Address	Telephone #
Proctor, Cory	Shelby County Fire Department 1115 Sycamore View Road Memphis, Tennessee 38134	(901) 385-5100
Randall, Bernard T.	Rural Metro Fire Department 6700 Baum Drive Knoxville, Tennessee 37919	(615) 693-2511
Raney, Fred	Tennessee Department of Corrections 320 6 th Avenue North Rachel Jackson Building Nashville, Tennessee 37219	(615) 741-1067
Richardson, Charles	Metro Radio Shop 41 Peabody Street Nashville, Tennessee 37210	(615) 862-5111
Rummage, James III	Brentwood Fire Department Post Office Box 788 5211 Maryland Way Brentwood, Tennessee 37024	(615) 371-0170
Russell, Joseph	City of Memphis 125 N Mid America Mall Memphis, Tennessee 38103	(615) 576-6233
Shamburg, Duane*	E.F. Johnson Company 2156 Murfreesboro Road 1417 Nashville, Tennessee 37217	(615) 361-1528
Stanford, Michael	Henderson County Fire Department 147 S. Broad Lexington, Tennessee 38351	(901) 968-7710
Tapp, Richard	Bartlett Fire Department 4855 Memphis Arlington Bartlett, Tennessee 38135	(901) 385-6412
Truebger, Harold	Memphis Fire Department 79S. Flicker Street Memphis, Tennessee 38104	(901) 320-5305
Watson, LT John	Hendersonville PD Post Office Box 0541 Hendersonville, Tennessee 37075	(615) 822-1111
White, John	Tennessee Emergency Management Agency 3041 Sidco Drive Nashville, Tennessee 37204	(615) 741-4332
Williams, Harold R.	City of Memphis Police and Fire 79 S. Flicker Street Memphis, Tennessee 38104	(901) 323-1655
Wolfe, David	Tennessee Emergency Management Agency 3041 Sidco Drive Nashville, Tennessee 37204	(615) 741-2749
Wright, Richard	Tennessee Bureau of Investigation Building 1148, Foster Avenue Cooper Hall Nashville, Tennessee 37210	(615) 741-0430

#Resource Member

EXHIBIT A

TN Population and Expected Growth Percentage

County	1990	2000	% Increase or Decrease
Tennessee	4,877,185	5,179,999	+6.2
Anderson	68,250	67,864	-.5
Bedford	30,411	33,565	+9.3
Benton	14,524	14,240	-1.9
Bledsoe	9,669	10,132	+4.7
Blount	85,969	94,005	+9.3
Bradley	73,712	79,851	+8.3
Campbell	35,079	34,890	-.5
Cannon	10,467	10,890	+4.0
Carroll	27,514	26,655	-3.1
Carter	51,505	51,777	+.5
Cheatham	27,140	34,313	+26.0
Chester	12,819	12,849	-.2
Claiborne	26,137	27,522	+5.0
Clay	7,238	6,929	-4.2
Cocke	29,141	29,358	+.7
Coffee	40,339	42,903	+6.3
Crockett	13,378	11,855	-11.3
Cumberland	34,736	41,622	+19.8
Davidson	510,784	540,574	+5.8
Decatur	10,472	10,019	-4.3
DeKalb	14,360	15,012	+4.5
Dickson	35,061	41,803	+19.2
Dyer	34,854	35,387	+1.5
Fayette	25,559	25,373	-.7
Fentress	14,669	14,264	-2.7
Franklin	34,725	36,896	+6.2
Gibson	46,315	43,557	-5.9
Giles	25,741	26,901	+4.5
Grainger	17,095	17,445	+2.0
Greene	55,853	56,624	+1.3
Grundy	13,362	12,761	-4.4
Hamblen	50,480	51,708	+2.4
Hamilton	285,536	280,524	-1.7
Hancock	6,739	6,491	-3.6
Hardeman	23,377	22,853	+2.2

TN Population and Expected Growth Percentage Continued

County	1990	2000	% Increase or Decrease
Hardin	22,633	23,188	+2.4
Hawkins	44,565	44,926	+ .8
Haywood	19,437	18,330	-5.6
Henderson	21,844	22,097	+1.1
Henry	27,888	26,694	-4.2
Hickman	16,754	18,440	+10.0
Houston	7,018	7,044	-.3
Humphreys	15,795	15,567	-1.4
Jackson	9,297	9,344	+ .5
Jefferson	33,016	34,532	+4.5
Johnson	13,766	13,388	-2.7
Knox	355,749	350,215	-1.5
Lake	7,129	6,951	-2.4
Lauderdale	23,491	22,382	-4.7
Lawrence	35,303	37,150	+5.2
Lewis	9,247	8,756	-5.3
Lincoln	28,157	30,364	+7.8
Loudon	31,255	34,264	+9.6
McMinn	42,383	42,389	0.0
McNairy	22,422	22,151	-1.2
Macon	15,906	16,276	+2.3
Madison	77,982	81,438	+4.4
Marion	24,860	25,349	+1.9
Marshall	21,539	23,942	+11.1
Maury	54,812	59,104	+7.8
Meigs	8,033	8,628	+7.4
Monroe	30,541	32,429	+6.1
Montgomery	100,498	120,707	+20.1
Moore	4,721	4,914	+4.0
Morgan	17,300	17,899	+3.4
Obion	31,717	30,796	-2.9
Overton	17,636	17,561	-.4
Perry	6,612	7,111	+7.5
Pickett	4,548	4,707	+3.4
Polk	13,643	13,539	-.7
Putnam	51,373	55,939	+8.8
Rhea	24,344	24,367	0.0
Roane	47,277	44,907	-5.0
Robertson	41,494	46,795	+12.7

TN Population and Expected Growth Percentage Continued

County	1990	2000	% Increase or Decrease
Rutherford	118,570	169,404	+42.8
Scott	18,358	17,686	-3.6
Sequatchie	8,863	9,182	+2.9
Sevier	51,043	63,057	+23.5
Shelby	826,330	867,032	+4.9
Smith	14,143	13,508	-4.4
Stewart	9,479	10,509	+10.8
Sullivan	143,596	141,262	-1.6
Sumner	103,281	122,502	+18.6
Tipton	37,568	43,162	+14.8
Trousdale	5,920	5,667	-4.4
Unicoi	16,549	16,321	-1.3
Union	13,694	15,939	+16.3
Van Buren	4,846	4,826	-.4
Warren	32,992	33,121	+.3
Washington	92,315	94,766	+2.6
Wayne	13,955	13,899	-.4
Weakley	31,972	31,574	-1.2
White	20,090	20,679	+2.9
Williamson	81,021	110,498	+36.3
Wilson	67,675	81,413	+20.2

APPENDIX A

Chancellor Thomas J. Garland
Tennessee Board of Regents
1415 Murfreesboro Road, Suite 350
Nashville, Tennessee 37217

Chief David Key, President
Tennessee Chief's of Police Association
P.O. Box 541
Hendersonville, Tennessee 37075

Commissioner Elbert T. Gill
Department of Conservation
701 Broadway
Nashville, Tennessee 37219

Commissioner James E. Word
Department of Health and Environment
344 Cordell Hull Building
Nashville, Tennessee 37219

Commissioner Jimmy Evans
Department of Transportation
James K. Polk State Building
Nashville, Tennessee 37219

Commissioner Robert D. Lawson
Department of Safety
1150 Foster Avenue
Nashville, Tennessee 37210

Commissioner William B. Whitson
Department of General Services
Central Services Building
Nashville, Tennessee 37219

Commissioner Stephen H. Norris
Department of Corrections
320 Sixth Avenue North
Nashville, Tennessee 37219

Director Arzo Carson
Tennessee Bureau of Investigation
1200 Foster Avenue, P.O. Box 100940
Nashville, Tennessee 37210

Director Lacy E. Suiter
Tennessee Emergency Management Agency
3041 Sidco Drive
Nashville, Tennessee 37204

Director Phil May
FEMA, Region Four
1371 Peachtree Street, N.E.
Atlanta, Georgia 30309

Executive Director
Tennessee Sheriff's Association
P.O. Box 2990
Nashville, Tennessee 37219

Executive Director Gary T. Myers
Tennessee Wildlife Resources Agency
P.O. Box 40747
Nashville, Tennessee 37204

Federal Communications Commission
Private Radio Bureau
1919 M Street, NW, Room 5002
Washington, DC 20554

Honorable Bill Boner
Mayor of Metro Nashville
Metro Courthouse, Room 107
Nashville, Tennessee 37201

Honorable Gene Roberts
Mayor Chattanooga
City Hall, East Eleventh Street
Chattanooga, Tennessee 37402

Honorable Ned McWherter
State Capitol
Nashville, Tennessee 37219

Honorable Richard C. Hackett
Mayor of Memphis
Second Floor
125 N. Mid-America Mall
Memphis, Tennessee 38103

Honorable Victor Ashe
Mayor of Knoxville
P.O. Box 1631
Knoxville, Tennessee 37901

Honorable William N. Morris, Jr.
Mayor of Shelby County
160 N. Mid-American Mall, Eighth Floor
Memphis, Tennessee 38103

Appendix A Continued

John H. Bird, Executive Director
Tennessee Association of Rescue Squads
Realty World Building, 820 Tulip Avenue
Knoxville, Tennessee 37912

Major General Carl D. Wallace
The Adjutant General
3041 Sidco Drive, Houston Barracks
Nashville, Tennessee 37204

Mike Stanford, President
Tennessee Fire Chiefs Association
Henderson County Courthouse
Lexington, Tennessee 38351

Mr. Dalton Roberts
Hamilton County Executive
208 Courthouse
Chattanooga, Tennessee 37402

Mr. Doug Frady
State Planning Agency
309 John Sevier State Building
Nashville, Tennessee 37219

Mr. Dwight Kessel
Knox County Executive
400 Main Street, Suite 651
Knoxville, Tennessee 37902

Mr. Ernest R. Brown
General Electric Company
1661 Murfreesboro Road, Suite M
Nashville, Tennessee 37217

Mr. Jerry Mize
Tennessee Chapter APCO
900 Breckinridge
Brownsville, Tennessee 38012

Mr. Larry J. Lyda
Tennessee Emergency Number Association
317 Oak Street, Room 315
Chattanooga, Tennessee 37403

Mr. Lewis Curd
Motorola, Inc.
7101 Executive Center Drive, Suite 197
Brentwood, Tennessee 37027

Mr. Mike Carroll
AASHTO Frequency Coordinator - Tennessee
6600 Centennial Boulevard
Nashville, Tennessee 37209

Mr. Milt Lennert
E.F. Johnson Company
1184 Pine Tree Lane
Bartlett, Illinois 60103

Mr. Robert Tall
APCO National Office
P.O. Box 669
New Smyrna Beach, Florida 32070

Mr. Roy Turner Neal
Tennessee Chapter APCO
Emergency Medical Services
287 Plus Park Boulevard
Nashville, Tennessee 37219-5407

Mr. Steve Pollock
Tennessee Chapter APCO
245 Blanton Avenue
Nashville, Tennessee 37210

Tennessee County Commissioners Association
226 Capitol Boulevard Building, Suite 700
Nashville, Tennessee 37219

Tennessee County Commissioners Association
226 Capitol Boulevard Building, Suite 700
Nashville, Tennessee 37219

Tennessee County Commissioners Association
226 Capitol Boulevard Building, Suite 700
Nashville, Tennessee 37219

Tennessee Hospital Association
500 Interstate Boulevard South
Nashville, Tennessee 37210

Tennessee Medical Association
112 Louise Avenue
Nashville, Tennessee 37203

Tennessee Municipal League
226 Capitol Boulevard Building
Nashville, Tennessee 37219

Appendix A Continued

Tennessee School Board Association
500 Thirteenth Avenue, North
Nashville, Tennessee 37203

Tennessee School Superintendents Association
10th and Charlotte Avenue, Suite A
Nashville, Tennessee 37203

Tennessee Veterinary Medical Association
226 Capitol Boulevard Building
Nashville, Tennessee 37219

INSERT PROOF OF PUBLICATION FROM THE TENNESSEAN NEWSPAPER FOR
ADVERTISEMENT OF THIRD MEETING AS A-2.

Region 39 Plan Modifications

5-31-02

Added channels for Montgomery County

12-13-04

Added Color State Division Map in 5.4

INSERT NOTICE OF INTENT TO FILE AS SENT OUT OVER THE TIES/NCIC
COMPUTER NETWORK AS A-3.

INSERT PROOF OF PUBLICATION FROM THE TENNESSEAN NEWSPAPER FOR
INTENT TO FILE AS A-4.