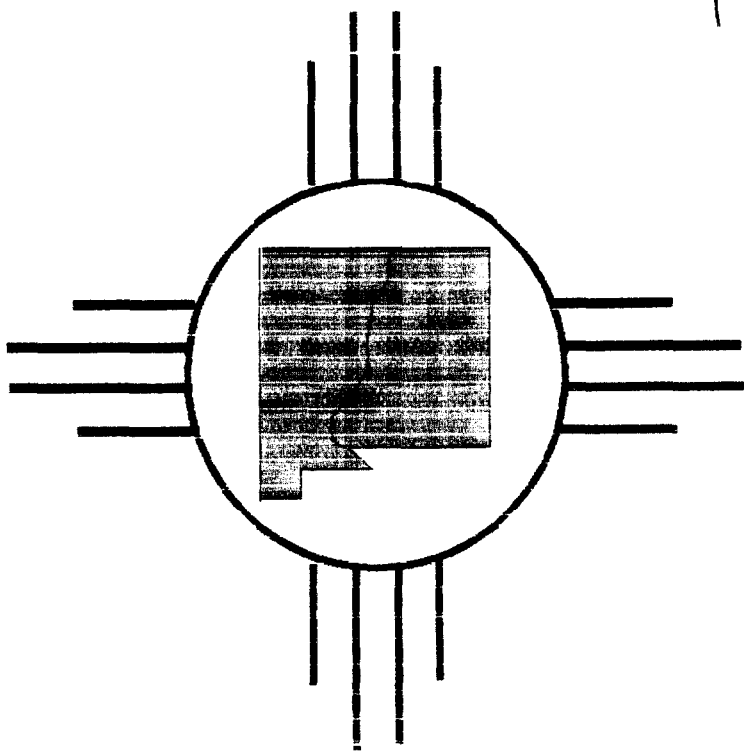


PR 93-86



***PUBLIC SAFETY RADIO COMMUNICATIONS PLAN***

*for*

**THE STATE OF NEW MEXICO**

**\* REGION 29 \***



STATE OF NEW MEXICO

GENERAL SERVICES DEPARTMENT  
INFORMATION SYSTEMS DIVISION  
**RADIO COMMUNICATIONS BUREAU**  
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PUBLIC SAFETY REGIONAL PLANNING COMMITTEE  
IRVING W. SKINNER, CHAIRMAN  
THE STATE OF NEW MEXICO  
REGION 29


**FEB - 4 1993**

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

IRVING W. SKINNER was elected chairman of the New Mexico Region 29  
800 Mhz Planning Committee at our first Convenor meeting.

Mr. Skinner works for the State of New Mexico, Radio Communications  
Bureau, Engineering Department in Santa Fe, New Mexico.

We are submitting this Plan of the State of New Mexico Region 29  
800 Mhz Planning Committee to the Federal Communications  
Commission on November 23, 1992. This plan represents a basically  
generic plan and is recommended for your review and acceptance.

  
Irving W. Skinner, Chairman  
State of New Mexico  
Radio Communications Bureau  
P.O. Box 5393  
Santa Fe, New Mexico 87502-5393  
505-827-9364



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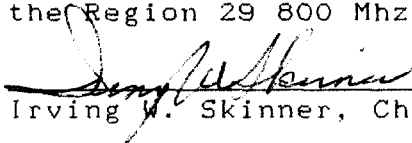
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IRVING W. SKINNER, CHAIRMAN  
THE STATE OF NEW MEXICO  
REGION 29

**FEB - 4 1993**

FEDERAL COMMUNICATIONS COMMISSION  
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FINAL REVIEW COMMITTEE

I, Irving W. Skinner, Chairman of the State of New Mexico Region 29 800 Mhz Planning Committee, do hereby indicate by my signature that the Final Review Committee completed its review and accepted the Region 29 800 Mhz Plan on November 23, 1992.

  
Irving W. Skinner, Chairman



STATE OF NEW MEXICO

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REGION 29

**FEB - 4 1993**

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

ACKNOWLEDGMENTS

I would like to thank John Dawson, Acting Deputy Director of the Office of Communications for his support during the time it took to complete this plan. I would, also like to thank all the people who contributed the technical information and maps I had drawn up to cover the plan and most of all, the Planning Committee/NM APCO chapter for standing behind me during my illness for these past three years.

REGIONAL PLANNING COMMITTEE REQUIREMENTS  
AS OUTLINED IN THE NPSPAC'S FINAL REPORT  
1988

Executive Summary:

1. The traditional mileage separation approach for frequency reuse must not be considered the best approach to maximize reuse of the 800MHz Public Safety channels. The question of frequency reuse criteria will be addressed at the Regional planning level.
2. Planning for re-assignment of Public Safety frequencies that are relinquished by the user as a result of the implementation of 800MHz systems must be done at the Regional Planning level.
3. Regional Plans may identify additional common channels for use within their respective Regions.
4. Each licensee or agency using frequencies in this portion of the Public safety spectrum should, at a minimum, incorporate the National Public Safety Calling Channel for interoperability. Regional Plans must address the use of these frequencies.
5. Regional Plans must require, where practicable, that Public Safety agencies within a given political jurisdiction or sub-division are to utilize common systems.
6. Federal agencies interoperability needs must be included in the communications requirements of Regional Planning.
7. Digital Voice Encryption must be addressed in Regional Plans.

Report Summary:

1. It is recommended that Regional Plans incorporate techniques for interfacing the use of Amateur Radio, Satellite communications, long range Emergency Communications into the Regional Plans.
2. To what extent should 800MHz Public Safety Radio systems be interconnected to switched telephone networks. should the Regional Plan even consider this matter?
3. Cellular car and hand held telephones, which can relieve Public Safety non-critical communications traffic must be considered by Regional Planners.
4. The American Red Cross and other quasi-public sector

Report Summary: page (2)

entities recognized for their contribution to disaster management and relief must be considered.

5. To meet the need of interoperability between Federal, State, and/or local governments during daily and disaster management operations, 5-160 type agreements must be strongly urged by Regional Planners. (letters of agreement)
6. It is recommended that a factor be considered in the anticipated traffic requirement of non-Federal communications systems to accommodate present and future Federal interoperability needs.
7. Regional Plans must manage the five channel pairs established on 800MHz for mutual aid and interoperability
8. The Regional Plan must address Federal level interoperability on the five interoperability channels. It is recommended that use be restricted for daily use of local and regional interoperability needs and Federal use for tactical operations.
9. One of the five channels will be designated as the National Public Safety Calling Channel, with the remaining four channels designated as tactical channels. The Regional Plan must identify their operation and management specifically.
10. Regional Plans can identify additional mutual aid channels and must provide operational guidelines for their use. This pertains to all Public Safety spectrum as well as 800MHz.
11. Any additional common channels identified in the Regional Plans should be located as specified in the respective Regional Plans, and need not be protected by the bandwidth criteria of the National Common Channels.
12. All primary Public Safety dispatch centers, designated in the Regional Plan, must operate a base station on the National Public Safety Calling Channel and maintain a radio watch. The Regional Plan must determine the normal mode of operation of common channel base stations (repeat or repeat disable).
13. The Regional Plan must address the use of digital voice encryption and take this need into consideration in developing frequency-specific plans.
14. In order to provide state-of-the-art technology to entities of all sizes, spectrum efficiency, and budgetary

Report Summary: page (3)

resources for meeting increased public demand, Regional Plans are to require, where practical, users within a given political sub-division and users of adjacent political sub-divisions, to utilize joint or common systems.

15. Regional Plans must include the Public Safety communications needs of all current eligibles such as Public Works, Highway Maintenance, Forestry-Conservation, Local Government, Fire and Police. Additional Regional Plans must include such other Public Safety service associated operations as is deemed necessary and desirable for local regional needs.  
(This could include such agencies as ambulance companies where local governments have contracts and/or agreements that cause such companies to provide services as an extension of local government responsibility.)
16. The Regional Planning process will consider carefully any request for more than four conventional channels by any single entity. Exceptions are to be recommended only when empirical data demonstrates that a trunked system will not meet operational requirements.
17. Although the FCC rules will include loading requirements to a specified benchmark within a certain time frame, Regional Plans may assign an appropriate number of channels to an agency based on the number and type of users of the system.
18. Since our Planning Region is the State of New Mexico our plan must address Public Safety Service needs such as Emergency Medical, where boundaries of operation may not coincide with the Region's Planning boundaries.
19. The Regional Plan must show that all Public Safety agencies within the Region are afforded the opportunity to participate in the planning process. The planning process must be limited to governmental entities. Special Emergency eligibles who have contractual relationships or agreements with Public Safety agencies are to be represented in the planning process by those governmental entities.
20. The Regional Plan must include justification for the amount of spectrum specified and the specific timetable requirements for implementation of each communications system being planned. A Regional Plan Review Committee must review the plan's status at least once a year and make warranted recommendations to the Commission for amendment of the Regional Plan.

Report Summary: page (4)

21. The Regional Plan Review Committee must be responsible for providing full Public Safety representation to resolve intra-region problems. The Region, however, must name one spokesperson to represent its interests in discussions with the surrounding Regions. This spokesperson will represent the region by attending the Annual Meeting of Regional Representatives for review of proposed changes to the National Plan.
22. Requirements which the National Plan will require in our Regional Plan:
  - a. Mandatory use of trunked systems; or a demonstration of a channel loading scheme equivalent to trunking; or a satisfactory showing to the Regional Planning Committee and the Commission, that trunked operations will not meet needs.
  - b. A detailed engineering submittal showing that the signal coverage of a proposed system will not be excessive for the political jurisdiction of the applicant.
  - c. A demonstration why an individual department or agency seeking a radio license cannot consolidate it's operations with other departments or agencies of the same governmental entity.
  - d. Surrender for cancellation (with exceptions) any licenses an applicant currently holds for existing radio systems in lower frequency bands for operations of the department or agency which seeks use of the 800MHz frequencies, in which the 800MHz system will satisfy the existing need, and in accordance with the implementation schedule of the new system.
  - e. A statement from the person authorized to sign the license application of the governmental entity applying for licensing testifying that he/she is aware of the above requirements and the terms under which the licensing is being requested.
23. Specific frequency reuse criteria will be developed by the Regional Plan based on sound engineering techniques which consider terrain, boundary field strength, antenna height, transmitter locations, and band channelization. This criteria will be frequency specific which in itself points to the importance of all entities within the boundaries of the State of New Mexico becoming involved in the planning process. The Regional Plan must consider criteria to evaluate present and future applications for frequency assignment.

Report Summary: page (5)

24. Specific direction as to frequency give up will be spelled out in the Regional Plan. Specific planning, as a part of the Regional effort must be agreed to between various entities involved in system expansion where other frequency bands are involved.

#### Summary Addendum

Interoperability for Federal, State, Pueblos, Reservations and Local Government Agencies will require to submit a letter to the APCO Frequency Advisor for operation on the Five Common Channels. When they wish to operate on other agency frequency (frequencies) then they will go to the individual agencies.

Address for Region 29 State of New Mexico:

State of New Mexico  
APCO Frequency Advisor  
Attn: Irving Skinner  
P.O. Box 5393  
Santa Fe, NM 87502

PUBLIC SAFETY RADIO COMMUNICATIONS PLAN

FOR

THE STATE OF NEW MEXICO

\* REGION 29 \*

## TABLE OF CONTENTS

1.0	SCOPE	
1.1	Introduction.....	5
1.2	Purpose.....	6
2.0	AUTHORITY	
2.1	Regional Planning Committee.....	6
2.2	Planning Committee Formation.....	8
2.3	National Interrelationships.....	9
2.4	Federal Interoperability.....	9
2.5	Regional Review Committee.....	10
3.0	SPECTRUM UTILIZATION	
3.1	Region Defined.....	11
3.2	Region Profile (Demographic Information).....	12
3.2.1	NEW MEXICO Population.....	12
3.2.2	Geographical Description.....	12
3.3	Usage Guidelines.....	13
3.4	Technical Design Requirements For Licensing.....	16
3.4.1	Definition of Coverage Area.....	16
3.4.2	System Coverage Limitations.....	16
3.4.3	Determination of Coverage.....	16
3.4.4	Annexation and Other Expansions.....	18
3.4.5	Coverage Area Description.....	19
3.4.6	Give-Back Frequencies.....	20
3.4.7	Unused Spectrum.....	21
3.4.8	Adjacent Region Coordinations.....	22

3.5	Initial Spectrum Allocation.....	22
3.5.1	Frequency Sorting Methodology.....	22
3.5.2	Geographic Area.....	23
3.5.3	Define the Environment.....	23
3.5.4	Blocked Channels.....	23
3.5.5	Transmitter Combining.....	24
3.5.6	Special Considerations.....	24
3.5.7	Protection Ratios.....	25
3.5.8	Adjacent Region Considerations.....	25
4.0	COMMUNICATIONS REQUIREMENTS	
4.1	Common Channel Implementation.....	25
4.1.1	Areas of Operation.....	27
4.1.2	Operation on the Common Channels.....	27
4.1.3	Operation Procedures.....	28
4.1.3(I)	International Calling Channel (ICALL).....	28
4.1.3(II)	International Tactical Channels (ITAC-1 Through ITAC-4).....	28
4.1.4	Coded Squelch.....	29
4.2	Network Operating Method.....	29
4.3	Requirements For Trunking.....	30
4.4	Channel Loading Requirements.....	32
4.4.1	Loading Tables.....	33
4.4.2	Traffic Loading Study.....	34
4.4.3	Slow Growth.....	34
4.5	Use of Long Range Communications.....	34
4.6	Expansion of Existing Systems.....	35

5.0	IMPLEMENTATION AND PROCEDURES	
5.1	Notification.....	35
5.2	Frequency Allocation Process.....	37
5.3	Frequency Allocation Maps.....	37
5.4	State Map.....	37
5.5	Excluded Common Channels.....	38
5.5.1	Excluded Channels for Mexico(90.619(2)).....	39
5.5.2	Channel Assignments by County.....	44
5.5.3	Channel Assignments for Major Towns & Cities.....	46
5.5.4	Channel Assignments for Reservtions and Pueblos.....	47
5.5.5	Channel Assignments for The State of New Mexico.....	48
5.5.6	Channel Assignments for Government Agencies.....	52
5.6	Assignment Statistics.....	53
5.7	Expansion of Initial Allocation.....	54
5.8	Prioritization of Applicants.....	54
5.9	Appeal Process.....	54
6.0	THE REGIONAL PLANNING COMMITTEE .....	55

## 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 an overall spectrum management approach by recommending policy guidelines, technical standards, and procedures to satisfy public safety needs for the foreseeable 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 New Mexico 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 most considerations for frequency allocation, re-use, turn back, regional interoperability, spectrum requirements and adjacent region operations. This plan should provide the flexibility to accommodate the growth and changes which 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 29, the State of New Mexico, has followed the

2.1 Regional Planning Committee (cont)

requirements of the FCC's Report and Order as issued in the matter of 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 New Mexico Region 29. 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 18 individuals have participated in the development process. The list herein contains the names, organizational affiliations, mailing addresses and phone numbers of all participants in 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 constituted a majority for all Public Safety Radio Users and the Special Emergency Users. Only the final approval of the plan prior to submission to the FCC required a vote from more than would be in attendance at a regular meeting. In this case the vote was conducted by mail ballot sent to all those who had not

2.1 Regional Planning Committee (cont)

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 (on the telephone) with the representatives of all major state, county, cities and Indian government 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. Letters of announcement were mailed to each major state organizations composed of local government level public safety/public service users. Letters were also sent to all members of the New Mexico Chapter of APCO.

4. A public notice was placed in a FCC PUBLIC NOTICE for the first planning committee meeting. This first meeting was held at the High Mesa Inn in Santa Fe, a public facility. (See Appendix A).

5. One organizational meeting was held before the chairperson was elected.

6. Committee membership was left open to any person or agency

## 2.2 Planning Committee Formation (cont)

which 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 differences 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 rather 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, Region 29 will need a letter of request to the user agency, a licensee may permit Federal use of a non-

#### 2.4 Federal Interoperability (cont)

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, provided that 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 29 Review Committee will be established for the review of applications which 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 consist of the Local APCO Frequency Advisor for this region, a state agency representative, one representative from the Police, Fire and EMS services, and a minimum representation from other eligibles is also welcome. This committee and its composition will be assured by the New Mexico APCO chapter and other Public Safety organizations. Membership on this committee will be solicited on an annual basis. Since this committee will probably 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

## 2.5 Regional Review Committee (cont)

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.

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 any and 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 29 is the State of New Mexico. This region is the result of definition by the Federal Communications Commission as a result 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 New Mexico shall be defined as all the lands and waters contained within the boundaries of the State of New Mexico.

### 3.2 Region Profile (Demographic Information)

The purpose of this section is to provide the basis for the assignment of frequencies, and their re-use. Since region 29 serves the mountainous area of New Mexico and bordered on west by Arizona, north by Utah, Colorado, East by Oklahoma, Kansas, Texas and south by Mexico. With elevations ranging from 3000ft to over 13000ft. Signal paths vary to a tremendous degree due to this topography. It is common to place radio stations on top of these mountains over 12000ft to achieve necessary coverage. This makes calculations alone a very inaccurate means of determining the potential for interference. For these reasons New Mexico will have to require a field survey to determine actual strength of signals before approving the system.

#### 3.2.1 State of New Mexico Population And Expected Growth percentage.

The population of the state is broken down between urban and rural population. The urban population is 936,603 and the rural population is 568,397 with the total population is 1,505,000 . The urban population is some 61 percent and the rural 39 percent. Developed urban areas is about 49 percent of total population.

#### 3.2.2 Geographical Description

There are 33 counties in the state with a total land mass of 121,666 square miles. The largest county is Catron, with a total of 6898 square miles and 30th in population with 2563 persons. As is shown above, the population of the state is 1.505 million persons distributed across the mountain land area contained in the

### 3.2.2 Geographical Description (cont)

state. This presents considerable problems in area coverage for radio systems in that the entire land area of any given jurisdiction must be covered. The population per square mile is somewhat sparse which generally indicates that the concentration of radio users for public safety activities is also sparse.

### 3.3 Usage Guidelines

All systems operating within the Region 29 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 which 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 impacts the Region 29, will be reviewed by the Committee. State-wide public safety agencies will submit their communications plans for impact approval if they utilize communications systems within the Region and those portions of such systems must be compatible with the Regional Plan.

### 3.3 Usage Guidelines (cont)

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

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 utilized, 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 of 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. In order to provide a title for the next level of communications the term metropolitan is used to define the level below county-wide. Metropolitan

### 3.3 Usage Guidelines (cont)

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, they must consider utilizing the next higher system level if 800 MHz trunked radio is available in the area. As those higher level systems reach capacity, the smaller system communicators in 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 utilized must not interfere with the region's trunked systems. The 800 MHz trunked radio system is to be considered the higher technology at this time and in greater compliance with FCC guidelines. The amount of interference that can be tolerated depends on the service affected. Personal life and property protection shall receive the highest priority and disruptive interference 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 which is applying for license. In the case of 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 said 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 of their jurisdictional boundaries. In these situations the applicant shall provide a proposal of said service to the Local APCD 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 utilize 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 determining the area of coverage

### 3.4.3 Determination of Coverage (cont)

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 determining factor which defines the actual boundary of a system. The minimum signal level which 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:  $ERP (w) = \text{Power}(w) \times \text{Antilog}(\text{net gain in dB divided by } 10)$ .

#### 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:** Which is 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.

### 3.4.3 Determination of Coverage (cont)

(2) SUBURBAN: Which is a city of 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 which is cleared of anything for 300 to 400 meters ahead. This would include farm land, open fields, etc.

The Okumura/Hata method is the method resident in the computer packing program to develop this plan. A minimum system shall be permitted without special consideration when it is limited to a HAAT of 100 feet and the transmitter is centrally located within the jurisdiction or jurisdictions participating in a system. In all jurisdictions, regardless of size, a maximum boundary radius of 8 miles shall be allowed provided adequate measures have been taken to assure that interference of existing co-channel and adjacent channel systems will not occur. Preparation of these requirements shall be the responsibility of the applicant. The Federal Communications Commission provides, in part 90.309(a)(4) of the Rules and Regulations, some additional guidance for these calculations.

### 3.4.4 Annexations And Other Expansions

It is well known that as cities grow, annexations occur. When an

#### 3.4.4 Annexations And Other Expansions (cont)

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 will have to be determined at the time of modification to assure non-interference with any other existing system. Where interference is likely, the use of alternate methods of expansion, such as satellite systems, may be necessary.

Should the annexation or expansion of a city effectively take in all or most of a county, the allocation for that county may be given to the city if required by said city and not in use or planned to be used by the county. 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. Regardless of the type map used, the name of the applicant and the scale of the map shall be

#### 3.4.5 Coverage Area Description (cont)

displayed on the map.

The following table lists the field strength in dBu/KW versus distance and antenna height for the suburban environment. The adjustment factors for the other environments relative to the suburban environment are:

Urban = Suburban - 9.7 dB,

Quasi-open = Suburban + 9.2 dB,

Open = Suburban + 18.4 dB

#### 3.4.6 Give-Back 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 re-use 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

#### 3.4.6 Give-back Frequencies (cont)

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 even though this procedure is followed, there is no guarantee that a particular frequency will be assigned to the returning jurisdiction.

The time frame 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 in most cases, with five years as a maximum. Any agency requiring more than five years shall provide documents stating the reasons for the delay, and give the estimated time of completion.

#### 3.4.7 Unused Spectrum

Due to the fact that all of the frequency spectrum is not needed at this time, the excess channel pairs will be returned to a reserve pool. These channels may be used for conflict with adjacent Region allocations or may simply remain within this Region until needed. This does not imply that these frequencies are unavailable, only that before they can be utilized within the Region they must be coordinated via the regular APCO coordination process and within the guidelines set forth in this plan. Where possible, the channels designated for a jurisdiction in this plan shall be used.

### 3.4.8 Adjacent Region Coordinations

Coordination with adjacent regions shall be an on-going process until all region plans have been finalized. 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: Texas (Region 50); Texas (Region 52); Oklahoma (Region 34); Colorado (Region 07); Utah (Region 41); and Arizona (Region 03). (See attached letters)

As the use of the five National channels is not considered a day-to-day function, the "hard" coordination for the use of these channels is not considered to be 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 29 was determined by a computerized frequency sorting process performed by APCO. The purpose of the computer program which 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

### 3.5.1 Frequency Sorting Methodology (cont)

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 which 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 Geographic Area

For the purpose of this frequency sort, a geographic area is defined as one or more circles of equal radius. To the degree practical, the circle(s) should include the entire area of the eligible's geopolitical boundary, but not exceed the boundary by more than three (3) miles. Thus, the procedure is to gather maps of sufficient detail, outline the areas to be defined, determine the coordinates and radius of the circles which define each area, and tabulate the data.

### 3.5.3 Define The Environment

The environment of each system is defined according to the Okumura/Hata method of classifications.

### 3.5.4 Blocked Channels

In the Region 29 there are five mutual aid channels which must be blocked out to prevent the computer from making assignments on

#### 3.5.4 Blocked Channels (cont)

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.

#### 3.5.5 Transmitter Combining

The computer program is designed to provide a minimum frequency separation between any two channels assigned to the same eligible at the same site. This separation is provided in order to enable more efficient combining of multiple transmitters to a single antenna. These separated blocks of frequencies also have a maximum size. That is, 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 0.25MHz minimum spacing and five channel blocks.

#### 3.5.6 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 of the existing radio units are unable to operate on 12.5 KHz separated carrier frequencies. The result is that these

### 3.5.6 Special Considerations (cont)

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.

### 3.5.7 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.

### 3.5.8 Adjacent Region Considerations

The computer program requires a listing of channels to be blocked along the borderline with other regions which have pre-existing plans. If the adjacent region plan was developed using the APCO packing program, this information exists in the database. If the adjacent region plan was developed by another method, then the data must be obtained from the adjacent region's plan in order to build the exclusion list.

## 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 in US

#### 4.1 Common Channel Implementation (cont)

and Mexico and shall be used in accordance with the provisions of the National Plan. All mobile and portable equipment must be equipped to operate in the "talk-around 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 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 in accordance with the National Plan and in compliance with the regulations as set forth by the Federal Communications Commission. These channels require no special licensing, only that the users be eligible for licensing on the other Public Safety 800 MHz channels as specified in section 90.617 (a) of the FCC Rules and Regulations.

#### 4.1.1 Areas of Operation

The common channels shall be available for use throughout the Region 29. One specific assignments were deemed necessary within the Region. State of New Mexico Control Center, Santa Fe, New Mexico state wide operation.

#### 4.1.2 Operation on The Common Channels

Normally, the five national mutual-aid channels are to be used only for activities requiring inter-communications between agencies not sharing any other compatible communications system. National mutual-aid 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 which occur within the corporate limits of said 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 national mutual-aid channels include Federal, State, and Local Disaster Management agencies. Police, Fire, and

#### 4.1.2 Operation on The Common Channels (cont)

Emergency Medical services (providers of Basic and Advanced Life support services) will be the primary using agencies. If radio channels are available, other services provided in the Public Safety Radio Services also participate to the extent required to insure the safety of the public. These agencies include the Highway Department, Forestry, Game & Fish Department, Parks 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 at all times in US (if approved, Spanish on the Mexican border) 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 utilized 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 utilize these frequencies as directed by the control agency assuming responsibility for an incident or area of concern. These frequencies may be subdivided according to

4.1.3(II) International Tactical Channels (ITAC-1 - ITAC-4) (cont)  
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 the purpose of  
selecting individual mobile relay stations, provided the National  
Common Tone Squelch Code is used on the output. If such an  
arrangement is utilized, provision must also be made for certain  
centralized, high level sites to be activated by the 156.7 Hz tone  
to ensure emergency access by transient units.

#### 4.2 Network Operating Methods

Communications systems using ITAC-1 thru 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 of the ITAC channels. In many areas the  
common channels will be utilized on a mobile to mobile  
talk-around basis. Mobile relays on ITAC-1 thru ITAC-4 will be

#### 4.2 Network Operating Methods (cont)

on a limited coverage design to permit reuse of the channel several times within the Region and in adjacent regions. Since Region 29 will probably not have a large number of stationary ITAC Channel stations, the implementation of mobile relay 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.

The State of New Mexico Will use ICALL and ITAC-1, ITAC-2, ITAC-3 ITAC-4 for communications with all agencies, and with Mexico.

#### 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 showings as to why 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

#### 4.3 Requirements For Trunking (cont)

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 utilizing 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 29 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

#### 4.3 Requirements For Trunking (cont)

be minimized, even where systems utilizing 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

NOTE: New Mexico Region 29 is a rural mountainous area with Counties and cities with sparse population. The smaller counties have the same right as the larger counties. Smaller counties have the same agencies to license, but they can't make the loading requirement for even a one channel system.

In region 29, each licensee will be considered on a case-by-case basis by the Review committee.

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 in order to obtain the new frequency. However, if the single frequency is not loaded to more than 50 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

4.4 Channel Loading Requirements (cont)

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 as a method of 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 70 percent will lose operating authority on a sufficient number of 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

#### 4.4.2 Traffic Loading Study

additional frequencies. Justification for adding frequencies, or retaining existing frequencies, can be provided by a traffic loading study in lieu of loading by number of transmitters per channel. It will be the responsibility of the requesting agency to provide a verifiable study showing sufficient air-time usage to merit additional frequencies. A showing of air-time 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 slow growth will be in accordance with 90.629 of the FCC 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

#### 4.5 Use of Long Range Communications (cont)

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", provided that 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 Public Safety communications users in the State of New Mexico. Announcements were made by letter to Public Safety and Special Emergency Licenses,

such as the International Fire Chiefs Association, the New Mexico Fire Marshal office, DPS/Civil Defense, State Radio communications Bureau, DPS/State Police Div, and all the City, County, Sheriff's Dept, and City Police Dept's.

## 5.1 Notification (Cont)

Supplemental to the personal contact, an advertisement was placed in the FCC PUBLIC NOTICE. All APCO Chapter members and a large number of other interested parties who had requested notification were sent letters of invitation.

During the initial 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 draft plan was completed, each member of the planning committee was presented with a draft copy of the plan for study. A planning committee meeting was called to vote on the final draft. 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.

## 5.2 Frequency Allocation Process

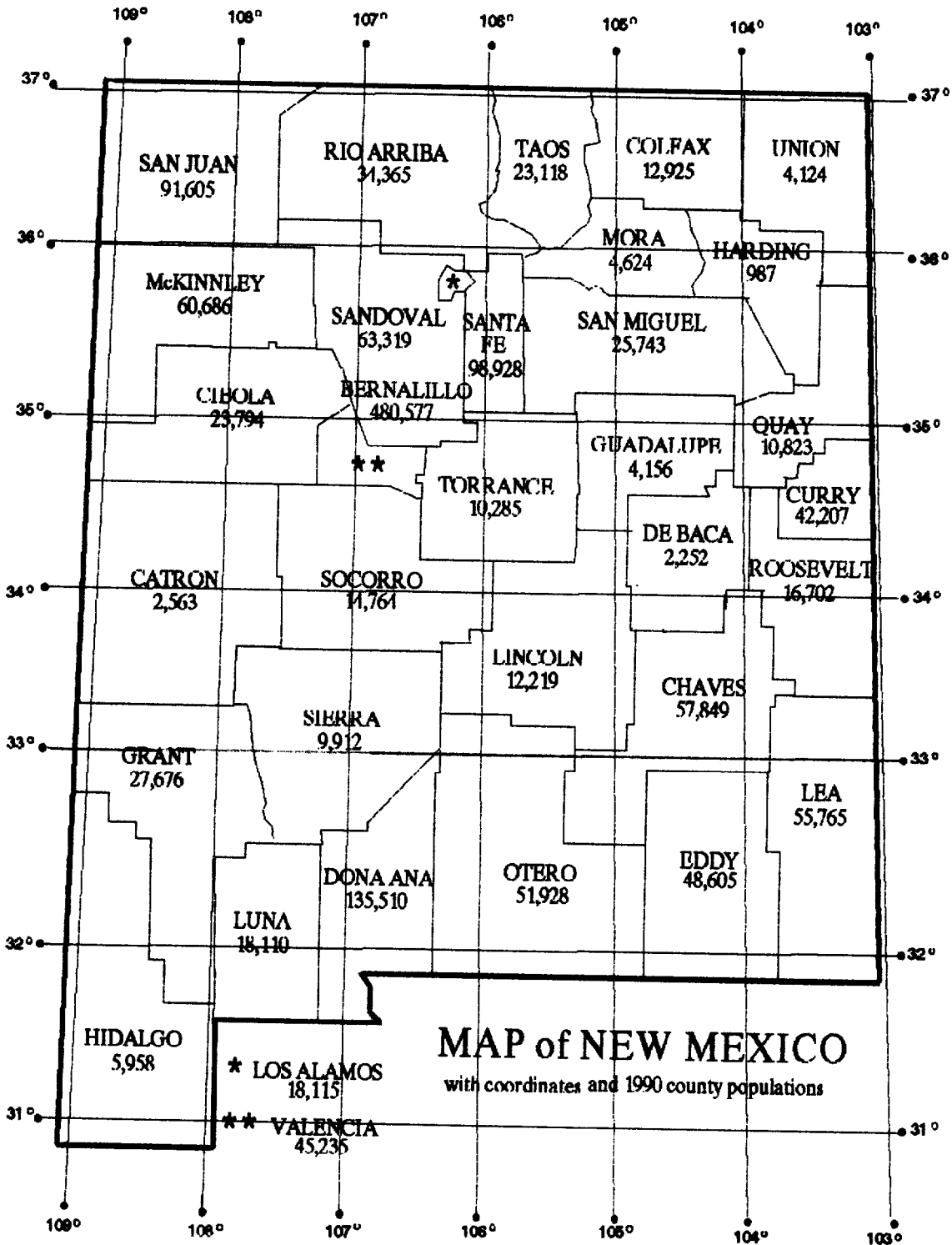
The method used for "packing" Region 29 was the APCO computerized method. The approximate geographical location for the center of each county, in latitude and longitude, were provided along with the environmental type of the county and the approximate radius to cover the county lines. Along with this information, a list of frequencies to block along the adjacent region's border was included. The actual assignment of frequencies is for four (4) channel-pairs per county. This allocation is the minimum and only applies to counties with a population of 10,000 or less. One additional channel is allocated for each additional 10,000 of population. The state of New Mexico has reserved 15 channels State-wide. This leaves a reserve pool of channels for future assignment.

## 5.3 Frequency Allocation Map

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.

## 5.4 State Map





**MAP of NEW MEXICO**  
with coordinates and 1990 county populations



CHANNEL ASSIGNMENTS

5.5 Common Channel Numbers to Exclude from New Mexico

601	821.0125/866.0125	Mutual Aid (ICALL)
602	821.0375/866.0375	Reserved
603	821.0500/866.0600	Reserved for protection
639	821.5125/866.5125	Mutual Aid (ITAC-1
640	821.5375/866.5375	Reserved for Future
641	821.5500/866.5500	Reserved for Protection
677	822.0125/867.0125	Mutual Aid (ITAC-2)
678	822.0375/867.0375	Reserved For Future Use
679	822.0500/867.0500	Reserved For Protection
715	822.5125/867.5125	Mutual Aid (ITAC-3)
716	822.5375/867.5375	Reserved For Future
717	822.5500/867.5500	Reserved For Protection
753	823.0125/868.0125	Mutual Aid (ITAC-4)
754	823.0375/868.0375	Reserved for Future
755	823.0500/868.0500	Reserved for Protection

5.5.1 Mexico Channels to Exclude from New Mexico Counties  
Hidalgo County, Grant County, Luna County, Dona Ana County,

611	866.1500/821.1500	Guard channel
612	866.1625/821.1625	Mexico
613	866.1750/821.1750	Mexico
614	866.1875/821.1875	Mexico
615	866.2000/821.2000	Mexico
616	866.2125/821.2125	Mexico
617	866.2250/821.2250	Mexico
618	866.2375/821.2375	Mexico
619	866.2500/821.2500	Mexico
620	866.2625/821.2625	Mexico
621	866.2750/821.2750	Mexico
622	866.2875/821.2875	Mexico
623	866.3000/821.3000	Mexico
624	866.3125/821.3125	Mexico
625	866.3250/821.3250	Mexico
626	866.3375/821.3375	Mexico
627	866.3500/821.3500	Mexico
628	866.3625/821.3625	Mexico
629	866.3750/821.3750	Guard channel
-----		
649	866.6500/821.6500	Guard channel
650	866.6625/821.6625	Mexico
651	866.6750/821.6750	Mexico
652	866.6875/821.6875	Mexico
653	866.7000/821.7000	Mexico

Mexico Channels to Exclude from New Mexico (cont)

654	866.7125/821.7125	Mexico
655	866.7250/821.7250	Mexico
656	866.7375/821.7375	Mexico
657	866.7500/821.7500	Mexico
658	866.7625/821.7625	Mexico
659	866.7750/821.7750	Mexico
660	866.7875/821.7875	Mexico
661	866.8000/821.8000	Mexico
662	866.8125/821.8125	Mexico
663	866.8250/821.8250	Mexico
664	866.8375/821.8375	Mexico
665	866.8500/821.8500	Mexico
666	866.8625/821.8625	Mexico
667	866.8750/821.8750	Guard channel
-----		
687	867.1500/822.1500	Guard channel
688	867.1625/822.1625	Mexico
689	867.1750/822.1750	Mexico
690	867.1875/822.1875	Mexico
691	867.2000/822.2000	Mexico
692	867.2125/822.2125	Mexico
693	867.2250/822.2250	Mexico
694	867.2375/822.2375	Mexico
695	867.2500/822.2500	Mexico
696	867.2625/822.2625	Mexico
697	867.2750/822.2750	Mexico

Mexico Channels to Exclude from New Mexico (cont)

698	867.2875/822.2875	Mexico
699	867.3000/822.3000	Mexico
700	867.3125/822.3125	Mexico
701	867.3250/822.3250	Mexico
702	867.3375/822.3375	Mexico
703	867.3500/822.3500	Mexico
704	867.3625/822.3625	Mexico
705	867.3750/822.3750	Guard channel
-----		
725	867.6500/822.6500	Guard channel
726	867.6625/822.6625	Mexico
727	867.6750/822.6750	Mexico
728	867.6875/822.6875	Mexico
729	867.7000/822.7000	Mexico
730	867.7125/822.7125	Mexico
731	867.7250/822.7250	Mexico
732	867.7375/822.7375	Mexico
733	867.7500/822.7500	Mexico
734	867.7625/822.7625	Mexico
735	867.7750/822.7750	Mexico
736	867.7875/822.7875	Mexico
737	867.8000/822.8000	Mexico
738	867.8125/822.8125	Mexico
739	867.8250/822.8250	Mexico
740	867.8375/822.8375	Mexico
741	867.8500/822.8500	Mexico

Mexico Channels to Exclude from New Mexico (cont)

742	867.8625/822.8625	Guard channel
-----		
763	868.1500/823.1500	Guard channel
764	868.1625/823.1625	Mexico
765	868.1750/823.1750	Mexico
766	868.1875/823.1875	Mexico
767	868.2000/823.2000	Mexico
768	868.2125/823.2125	Mexico
769	868.2250/823.2250	Mexico
770	868.2375/823.2375	Mexico
771	868.2500/823.2500	Mexico
772	868.2625/823.2625	Mexico
773	868.2750/823.2750	Mexico
774	868.2875/823.2875	Mexico
775	868.3000/823.3000	Mexico
776	868.3125/823.3125	Mexico
777	868.3250/823.3250	Mexico
778	868.3375/823.3375	Mexico
779	868.3500/823.3500	Mexico
780	868.3625/823.3625	Guard channel
-----		
800	868.6125/823.6125	Guard channel
801	868.6250/823.6250	Mexico
802	868.6375/823.6375	Mexico
803	868.6500/823.6500	Mexico
804	868.6625/823.6625	Mexico
805	868.6750/823.6750	Mexico

Mexico Channels to Exclude from New Mexico (cont)

806	868.6875/823.6875	Mexico
807	868.7000/823.7000	Mexico
808	868.7125/823.7125	Mexico
809	868.7250/823.7250	Mexico
810	868.7375/823.7375	Mexico
811	868.7500/823.7500	Mexico
812	868.7625/823.7625	Mexico
813	868.7750/823.7750	Mexico
814	868.7875/823.7875	Mexico
815	868.8000/823.8000	Mexico
816	868.8125/823.8125	Mexico
817	868.8250/823.8250	Mexico
818	868.8375/823.8375	Mexico
819	868.8500/823.8500	Mexico
820	868.8625/823.8625	Mexico
821	868.8750/823.8750	Mexico
822	868.8875/823.8875	Mexico
823	868.9000/823.9000	Mexico
824	868.9125/823.9125	Guard channel

Listing of Channel Users of Region 29 New Mexico

<u>Channel Numbers</u>	<u>Frequencies</u>	<u>Users</u>
604	866.0625/821.0625	Deming, State Govt Region 1, Harding County, State Govt Region 5
605	866.0750/821.0750	Silver City
606	866.0875/821.0875	State Govt Region 1, Chaves County, Dona Ana County
-----		
608	866.1125/821.1125	Guadalupe County, Otero County, Bernalillo County, Hidalgo County
609	866.1250/821.1250	Rio Arriba County
610	866.1375/821.1375	Las Vegas, Dona Ana County, Cibola County
611	866.1500/821.1500	Taos County, Lincoln County
612	866.1625/821.1625	Clovis, Sandoval County
613	866.1750/821.1750	San Miguel County, Socorro County
614	866.1875/821.1875	Gallup
615	866.2000/821.2000	Las Cruces, Valencia County
616	866.2125/821.2125	Jicarilla Reservation, Los Alamos
617	866.2250/821.2250	Rio Rancho, Albuquerque
618	866.2375/821.2375	Jicarilla Reservation
619	866.2500/821.2500	Santo Domingo Pueblo, Albuquerque
-----		
622	866.2875/821.2875	Zuni Pueblo, State Police Dist 1, State Police Dist 8, Colfax County, Roosevelt County
623	866.3000/821.3000	Artesia, State Police Dist 12
624	866.3125/821.3125	Hobbs, State Police Dist 2, Carlsbad
625	866.3250/821.3250	Silver City, Deming, State Police Dist 10, De Baca County
626	866.3375/821.3375	Hobbs, Taos County
627	866.3500/821.3500	Alamogordo, Sandoval County
628	866.3625/821.3625	Roswell, State Govt Region 3
-----		
630	866.3875/821.3875	Santa Fe County, Otero County, Cibola County

Listing of Channel Users (cont)

631	866.4000/821.4000	Quay County
632	866.4125/821.4125	Santa Clara Pueblo, Sierra County, Sandoval County
633	866.4250/821.4250	Torrance County
634	866.4375/821.4375	Pojoaque Pueblo, San Juan Pueblo, Tesuque Pueblo, Luna County
635	866.4500/821.4500	Mescalero Reservation, Albuquerque Los Alamos County
-----		
637	866.4750/821.4750	Rio Rancho, Albuquerque
-----		
642	866.5625/821.5625	Harding County, State Police Dist 7, State Govt Region 5, Bernalillo County Grant County
-----		
644	866.5875/821.5875	Union County, Los Alamos County, Lea County, Rio Arriba County, Curry County, State Govt Region 4
645	866.6000/821.6000	Bernalillo County
646	866.6125/821.6125	Rio Arriba County, Dona Ana County, Hidalgo County, Catron County, Chaves County
647	866.6250/821.6250	Isleta Pueblo
648	866.6375/821.6375	Otero County, Santa Fe County, Quay County, McKinley County
-----		
650	866.6625/821.6625	Clovis, Lincoln County, Sandoval County
651	866.6750/821.6750	San Miguel County
652	866.6875/821.6875	Las Cruces, Valencia County, Gallup
653	866.7000/821.7000	Taos Pueblo, Picuris Pueblo
654	866.7125/821.7125	Mescalero Reservation, Albuquerque Rio Rancho
655	866.7250/821.7250	Jicarilla Reservation
656	866.7375/821.7375	San Felipe Pueblo, Albuquerque
657	866.7500/821.7500	Ute Mountain Reservation
658	866.7625/821.7625	Jemez Pueblo, Albuquerque
-----		
660	866.7875/821.7875	Zuni Pueblo, State Police Dist 1, State Police Dist 3, Colfax County, State Police Dist 4
-----		

Listing of Channel Users (cont)

662	866.8125/821.8125	Deming, Catron County, State Police Dist 7, Harding County, Bernalillo County, State Govt Region 5
664	866.8375/821.8375	Silver City, Carlsbad, Roswell, State Police Dist 10
665	866.8500/821.8500	State Police Dist 9
666	866.8625/821.8625	Bernalillo County, Mescalero Reservation, Catron County, Rio Arriba County,
667	866.8750/821.8750	Guadalupe
668	866.8875/821.8875	Santa Fe County, McKinley County, Roosevelt County, Otero County
670	866.9125/821.9125	Clovis, Sandoval County, Sierra County
671	866.9250/821.9250	Torrance County
672	866.9375/821.9375	Pojoaque Pueblo, Gallup, Tesuque Pueblo, Luna County
673	866.9500/821.9500	Mescalero Reservation, Albuquerque
674	866.9625/821.9625	Rio Rancho
675	866.9750/821.9750	Sandia Pueblo, Albuquerque
680	867.0625/822.0625	Harding County, State Police Dist 7 State Govt Region 5, Bernalillo County Grant County
682	867.0875/822.0875	De Baca County, Lea County, State Govt Region 2, Grant County
683	867.1000/822.1000	Clovis, Dona Ana County
684	867.1125/822.1125	Rio Arriba County, Chaves County, Bernalillo County, Hidalgo County
686	867.1375/822.1375	McKinley County, Otero County, State Govt Region 3
689	867.1750/822.1750	Laguna Pueblo, San Juan County, Las Cruces, Santa Fe County
690	867.1875/822.1875	Acoma Pueblo
691	867.2000/822.2000	Las Cruces, San Juan County, Albuquerque
693	867.2250/822.2250	Jicarilla Reservation, Albuquerque

Listing of Channel Users (cont)

696	867.2625/822.2625	Cochiti Pueblo, Clayton, Ute Mountain Reservation
-----		
698	867.2875/822.2875	Colfax County, State Police Dist 4, State Police Dist 1, State Police Dist 3
-----		
700	867.3125/822.3125	Union County, State Govt Region 1, State Govt Region 5
701	867.3250/822.3250	State Police Dist 11
702	867.3375/822.3375	Alamogordo, State Police Dist 9
703	867.3500/822.3500	Roswell, State Govt Region 2
704	867.3625/822.3625	Portales, Las Cruces
705	867.3750/822.3750	McKinley County, State Govt Region 3
706	867.3875/822.3875	Otero County
707	867.4000/822.4000	Santa Fe County, McKinley County, Roosevelt County
708	867.4125/822.4125	Isleta Pueblo, Sierra County
709	867.4250/822.4250	Laguna Pueblo, Santa Fe County, San Juan County
710	867.4375/822.4375	Las Cruces
711	867.4500/822.4500	Gallup, Albuquerque
712	867.4625/822.4625	Mescalero Reservation
713	867.4750/822.4750	Santa Ana Pueblo, Albuquerque
-----		
718	867.5625/822.5625	Union County, Lea County, Curry County State Govt Region 4
719	867.5750/822.5750	State Govt Region 1
720	867.5875/822.5875	Chaves County, State Govt Region 4
721	867.6000/822.6000	Rio Arriba County, Bernalillo County Quay County
722	867.6125/822.6125	Las Vegas, Chaves County, Dona Ana County
723	867.6250/822.6250	Los Alamos County, Cibola County
724	867.6375/822.6375	State Govt Region 3, Otero County
725	867.6500/822.6500	McKinley County

Listing of Channel Users (cont)

726	867.6625/822.6625	Union County, Santa Fe County, Socorro County
727	867.6750/822.6750	San Juan Pueblo
728	867.6875/822.6875	Picuris Pueblo, Las Cruces, Clayton, San Juan Pueblo, Albuquerque
729	867.7000/822.7000	Farmington
730	867.7125/822.7125	Rio Rancho, Albuquerque
731	867.7250/822.7250	Farmington
732	867.7375/822.7375	Santo Domingo Pueblo, Albuquerque
733	867.7500/822.7500	Ute Mountain Reservation
734	867.7625/822.7625	Albuquerque
-----		
736	867.7875/822.7875	State Police Dist 6, State Police Dist 4, State Police Dist 2, State Police Dist 3
737	867.8000/822.8000	Curry County
738	867.8125/822.8125	Hobbs, Mora County, State Police Dist 5, Artesia, State Police Dist 11
739	867.8250/822.8250	Alamogordo
740	867.8375/822.8375	Rio Arriba County, Bernalillo County State Police Dist 9, Los Alamos County State Police Dist 11
741	867.8500/822.8500	Alamogordo
742	867.8625/822.8625	Los Alamos County, Cibola County, Portales
743	867.8750/822.8750	State Govt Region 30tero County
744	867.8875/822.8875	McKinley County
745	867.9000/822.9000	San Miguel County, Lincoln County, Roosevelt County, Dona Ana County
746	867.9125/822.9125	Sandoval County
747	867.9250/822.9250	Clayton, Sierra County, Torrance County
748	867.9375/822.9375	San Ildefonso Pueblo, San Juan County
749	867.9500/822.9500	Nambe Pueblo Las Cruces, Albuquerque
-----		
751	867.9750/822.9750	Zia Pueblo, Albuquerque
-----		

Listing of Channel Users (cont)

756	868.0625/823.0625	Union County, Lea County, Curry County State Govt Region 4
757	868.0750/823.0750	State Govt Region 1
758	868.0875/823.0875	Chaves County, Grant County
759	868.1000/823.1000	Quay County, Dona Ana County, State Govt Region 2
760	868.1125/823.1125	Chaves County
761	868.1250/823.1250	Rio Arriba County, Cibola County, Quay County, Luna County
762	868.1375/823.1375	Portales, Otero County
763	868.1500/823.1500	Union County, McKinley County, Santa Fe County
764	868.1625/823.1625	Socorro County
765	868.1750/823.1750	Los Alamos, Las Vegas
766	868.1875/823.1875	Las Cruces, Valencia County, San Juan County
767	868.2000/823.2000	Taos County
768	868.2125/823.2125	Farmington, Albuquerque
-----		
770	868.2375/823.2375	Jicarilla Reservation, Albuquerque
774	868.2875/823.2875	Hobbs, Mora County, State Police Dist 8, Deming, Los Alamos County, State Police Dist 6
-----		
776	868.3125/823.3125	Hobbs, Mora County, State Police Dist 5, Artesia, Curry County, State Police Dist 12
777	868.3250/823.3250	Alamogordo
778	868.3375/823.3375	Silver City, De Baca County
779	868.3500/823.3500	Las Cruces, State Govt Region 2, Carlsbad
780	868.3625/823.3625	Guadalupe County
781	868.3750/823.3750	Valencia County, Otero County, Rio Arriba County
782	868.3875/823.3875	Roosevelt County
783	868.4000/823.4000	Socorro County, McKinley County, Santa Fe County, Dona Ana County
785	868.4250/823.4250	Acoma Pueblo, Sierra County, Torrance County

Listing of Channel Users (cont)

786	868.4375/823.4375	San Ildefonso Pueblo, San Juan County Nambe Pueblo
787	868.4500/823.4500	Los Alamos County, Albuquerque
789	868.4750/823.4750	San Felipe Pueblo, Albuquerque
791	868.5000/823.5000	Jemez Pueblo, Albuquerque
794	868.5375/823.5375	Colfax County, Grant County, Chaves County
795	868.5500/823.5500	Curry County, Dona Ana County, State Police Dist 5
796	868.5625/823.5625	Mora County, Chaves County
797	868.5750/823.5750	Sandoval County, Curry County, Los Alamos County, State Govt Region 4
799	868.6000/823.6000	Union County, Dona Ana County, Hidalgo County, State Govt Region 2, Chaves County
801	868.6250/823.6250	Las Cruces, Sandoval County, Taos County, Guadalupe County
802	868.6375/823.6375	Portales
803	868.6500/823.6500	Santa Fe County, McKinley County, Lincoln County
804	868.6625/823.6625	Union County
805	868.6750/823.6750	San Juan Pueblo, Las Cruces, Torrance County, Santa Clara Pueblo, San Juan County
807	868.7000/823.7000	Las Cruces, Albuquerque, Farmington
809	868.7250/823.7250	Farmington, Albuquerque
811	868.7500/823.7500	Ute Mountain Reservation, Albuquerque Clayton
814	868.7875/823.7875	Curry County, State Police Dist 2 State Police Dist 6, State Police Dist 8
815	868.8000/823.8000	Artesia, State Police Dist 12, State Police Dist 6, State Police Dist 8
816	868.8125/823.8125	Roswell, Carlsbad, Curry County, Taos County
817	868.8250/823.8250	Silver City, State Police Dist 10
818	868.8375/823.8375	Carlsbad, De Baca County

Listing of Channel Users (cont)

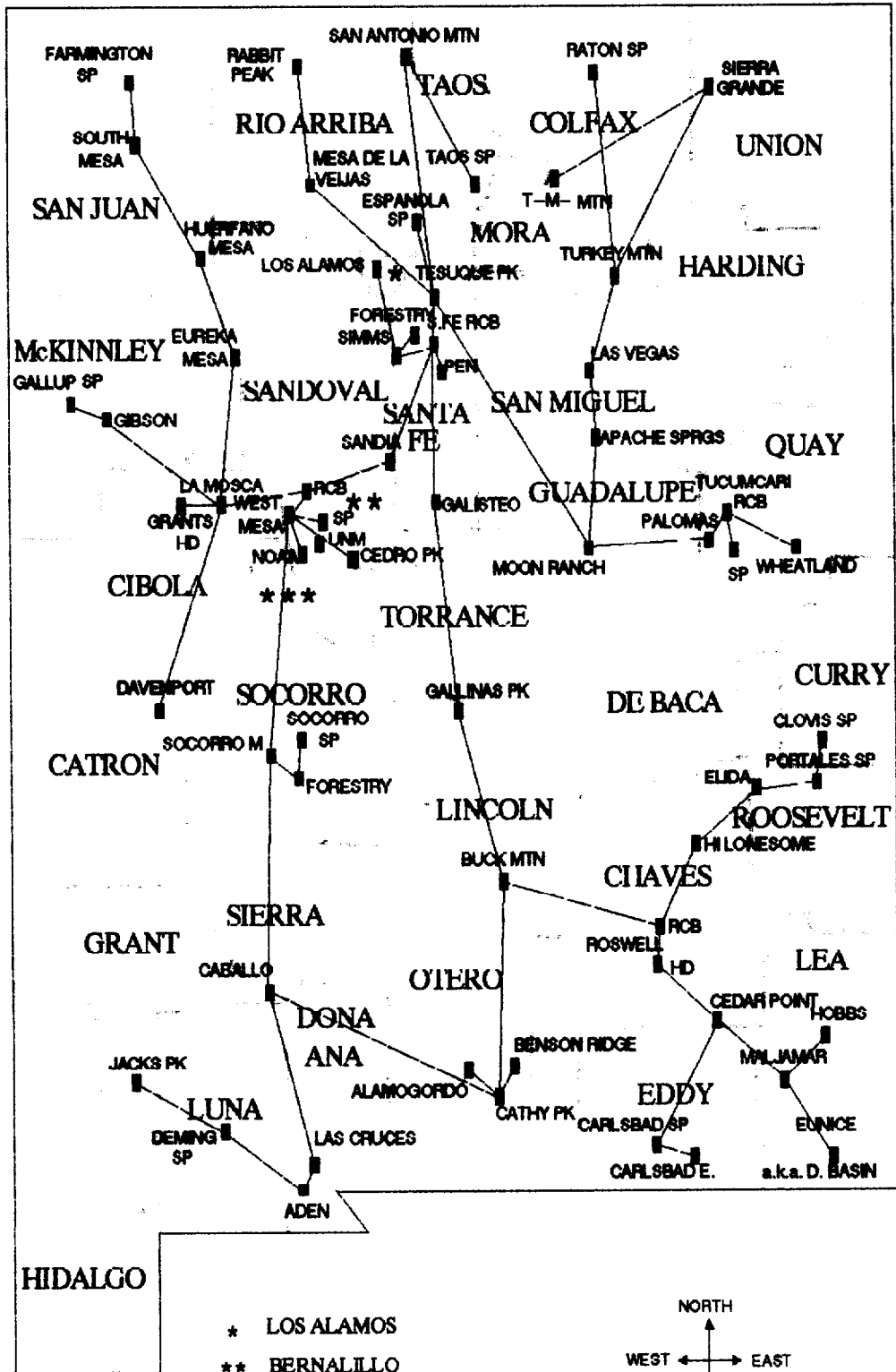
819	868.8500/823.8500	Roswell, Rio Arriba County, Bernalillo County, Union County, Catron County
820	868.8625/823.8625	Las Cruces, Guadalupe County
821	868.8750/823.8750	Taos County, Sandoval County
822	868.8875/823.8875	San Miguel County, Lincoln County
823	868.9000/823.9000	Clovis, Sandoval County
824	868.9125/823.9125	San Miguel County, Socorro County
825	868.9250/823.9250	Santa Ana Pueblo, Luna County, San Juan County
826	868.9375/823.9375	Cochiti Pueblo, Clayton, Las Vegas, Valencia County
827	868.9500/823.9500	Las Cruces, Gallup
828	868.9625/823.9625	Zia Pueblo, Sandia Pueblo
829	868.9750/823.9750	Albuquerque

5.5.2 CHANNEL ASSIGNMENTS BY COUNTY IN NEW MEXICO

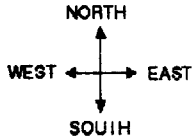
<u>Counties</u>	<u>Channels</u>	<u>Channel Numbers</u>						
Bernalillo	(10)	608	642	645	662	666	680	684
		721	740	819				
Catron	(4)	646	662	666	819			
Chaves	(10)	606	646	684	720	722	758	760
		794	796	799				
Cibola	(5)	610	630	723	742	761		
Colfax	(4)	622	660	698	794			
Curry	(10)	644	718	737	756	774	776	795
		797	814	816				
De Baca	(4)	625	682	778	818			
Dona Ana	(10)	606	610	646	683	722	745	759
		783	795	799				
Eddy	(9)	623	661	737	776	814	622	660
		736	774					
Grant	(5)	642	680	682	758	794		
Guadalupe	(5)	608	667	780	801	820		
Harding	(4)	604	642	662	680			
Hidalgo	(4)	608	646	684	799			
Lea	(4)	644	682	718	756			
Lincoln	(5)	611	650	745	803	822		
Los Alamos	(11)	616	635	644	723	740	742	765
		774	787	797	815			
Luna	(4)	634	672	761	825			
McKinley	(10)	648	668	686	705	707	725	744
		763	783	803				
Mora	(4)	738	774	776	796			
Otero	(10)	608	630	648	668	686	706	724
		743	762	781				
Quay	(5)	631	648	721	759	761		
Rio Arriba	(10)	609	644	646	666	684	721	740
		761	781	819				
Roosevelt	(5)	622	668	707	745	782		

Channel Assignments by County (cont)

Sandoval	(10)	612	627	632	650	670	746	797
		801	821	823				
San Juan	(10)	634	689	691	709	727	748	766
		786	805	825				
San Miguel	(5)	613	651	745	822	824		
Santa Fe	(10)	630	648	668	689	707	709	726
		763	783	803				
Sierra	(5)	632	670	708	747	785		
Socorro	(5)	613	726	764	783	824		
Taos	(5)	611	626	801	816	821		
Torrance	(5)	633	671	747	785	805		
Union	(9)	644	700	718	726	756	763	799
		804	819					
Valencia	(5)	615	652	766	781	826		



- \* LOS ALAMOS
- \*\* BERNALILLO
- \*\*\* VALENCIA



MAP NOT TO SCALE

## 5.5.3

## MAJOR TOWNS &amp; CITIES OF NEW MEXICO

<u>Major Cities</u>	<u>Channels</u>		<u>Channel Numbers</u>					
Alamogordo	(5)	627	702	739	741	777		
Albuquerque	(30)	617	619	635	637	654	656	658
		673	675	691	693	695	711	713
		728	730	732	734	749	751	768
		770	772	787	789	791	807	809
		811	829					
Artesia	(4)	623	738	776	815			
Carlsbad	(5)	624	664	779	816	818		
Clayton	(5)	696	728	747	811	826		
Clovis	(5)	612	650	670	683	823		
Deming	(4)	604	625	662	774			
Farmington	(5)	729	731	768	807	809		
Gallup	(5)	614	652	672	711	827		
Hobbs	(5)	624	626	738	774	776		
Las Cruces	(15)	615	652	689	691	704	710	728
		749	766	779	801	805	807	820
		827						
Las Vegas	(4)	610	722	765	826			
Los Alamos	(4)	774	787	797	815			
Portales	(4)	704	742	762	802			
Rio Rancho	(5)	617	637	654	674	730		
Roswell	(5)	628	664	703	816	819		
Santa Fe	(5)	739	757	777	797	817		
Silver City	(5)	605	625	664	778	817		



## 5.5.4

## RESERVATIONS AND PUEBLOS

<u>Reservations</u>	<u>Channels</u>	<u>Channel Numbers</u>
Ute Mountain	(4) 657 696	733 811
Navajo	(4) 746 764	784 804
Jicarilla Apache	(5) 616 618	655 693 770
Mescalero Apache	(5) 635 654	666 673 712
<u>Pueblos</u>	<u>Channels</u>	<u>Channel Numbers</u>
Zuni	(2) 622 660	
Acoma	(2) 690 785	
Laguna	(2) 689 709	
Isleta	(2) 647 708	
Sandia	(2) 675 828	
Santa Ana	(2) 713 825	
Zia	(2) 751 828	
San Felipe	(2) 656 789	
Santo Domingo	(2) 619 732	
Jemez	(2) 658 791	
Cochiti	(2) 696 826	
Tesuque	(2) 634 672	
Pojoaque	(2) 634 672	
Nambe	(2) 748 786	
San Ildefonso	(2) 748 786	
Santa Clara	(2) 632 805	
San Juan	(2) 728 805	
Picuris	(2) 653 728	
Taos	(2) 653 767	



5.5.5 STATE OF NEW MEXICO COMMUNICATIONS SYSTEM

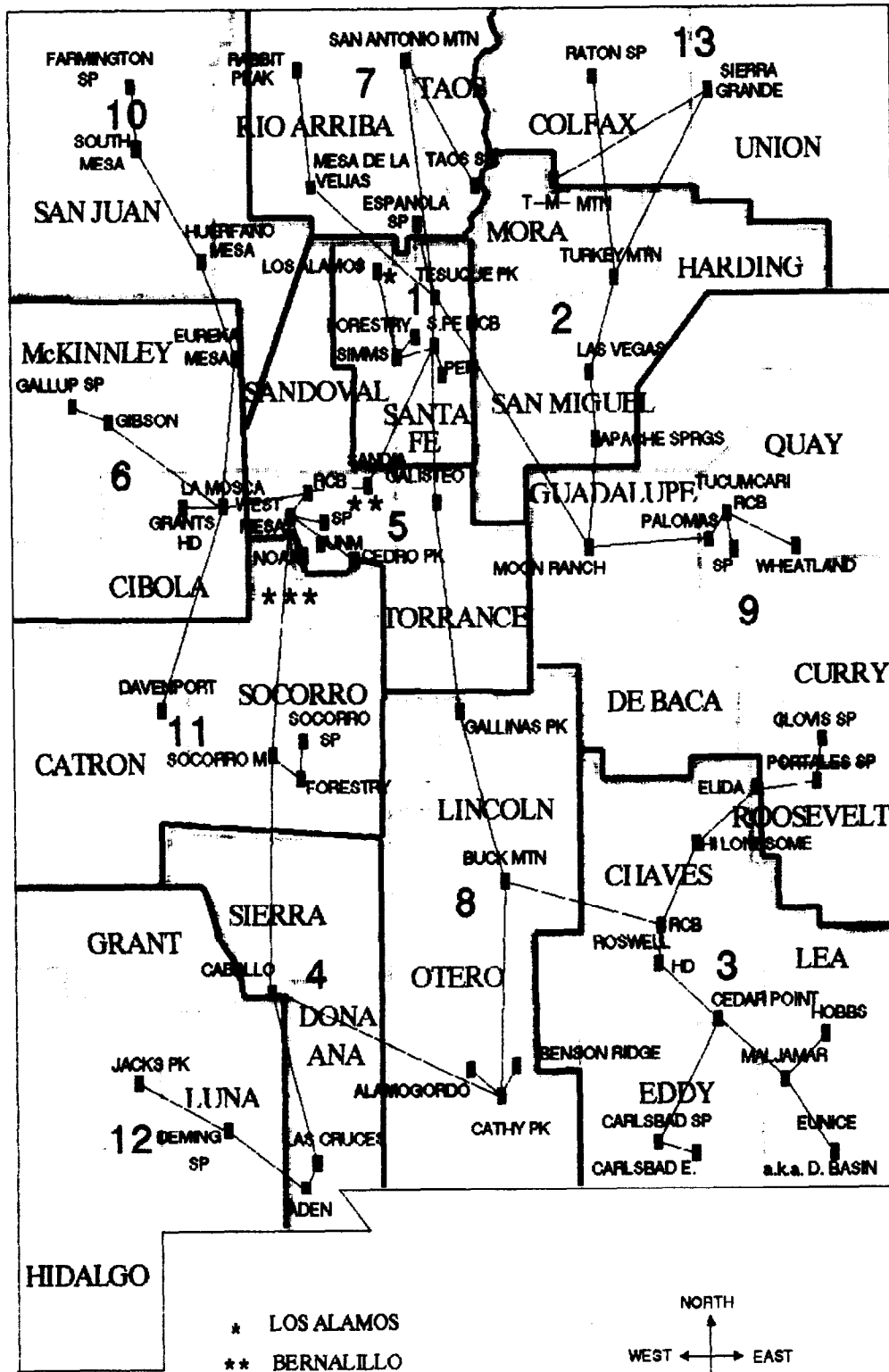
DPS/State Police Division:

<u>State Police Districts</u>	<u>Channels</u>	<u>Channel Numbers</u>
District (1)	(3) 622 660	698
District (2)	(3) 624 736	814
District (3)	(3) 660 698	736
District (4)	(3) 660 698	736
District (5)	(3) 738 776	795
District (6)	(3) 736 774	814
District (7)	(3) 642 662	680
District (8)	(3) 622 774	814
District (9)	(3) 665 702	740
District (10)	(3) 625 664	817
District (11)	(3) 701 738	740
District (12)	(3) 623 776	815
District (13)	(3) (To be coordinated later) (SP divided dist 2 after the stacking)	

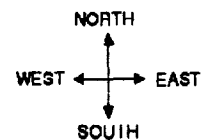
DEPARTMENT OF PUBLIC SAFETY

STATE POLICE DIVISION

DISTRICT MAP



- \* LOS ALAMOS
- \*\* BERNALILLO
- \*\*\* VALENCIA



MAP NOT TO SCALE

Corrections Department

<u>Departments</u>	<u>Channels</u>
Santa Fe	(3)(1MR)
Central	(3)(1MR)
Southern	(2)(1MR)
Grants	(2)(1MR)
Springer Boys School	(2)(1MR)
Roswell	(2)(1MR)

(Radiolaocation Mobiles "MR")  
(To be coordinated later)



STATE OF NEW MEXICO CONTROL CENTER:  
 (General Services/Informations Systems/Radio  
 Communications Bureau)

<u>Departments</u>	<u>Channels</u>	<u>Channel Numbers</u>
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Control Center (State Wide (5) Common Channels Operations) Interconnect ("C") Radiolocation Mobile		
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Control Center(Gen Services)

Region One	(5)	604	606	700	719	757
Region Two	(5)	682	703	759	779	799
Region Three	(5)	628	686	705	724	743
Region Four	(5)	644	718	720	756	797
Region Five	(5)	604	642	662	680	700

All Hospitals

All Ground and Air Ambulance

Office of Medical Investigator

Department of Game & Fish

State Park

State Forestry

Highway Department

State Fire Marshall

Public Defenders Office

General Service Division

Surplus Property

Energy, Minerals and Natural Resources Department

Bureau of Mine Inspection

Construction Industries Division

Los Alamos National Labs

State of New Mexico Communications System (cont)

U.S. Customs Technician

Radio Communications Bureau

State Board of Pharmacy

Health and Environment

Environment Department

CID (Radiation)

Department of Agriculture

State Engineer

Taxation and Revenue

Interstate Stream Commission

Museum of New Mexico

Oil conservation commission

State Corporation Commission

Eastern New Mexico University

Office of Cultural Affairs

Motor Transportation Division

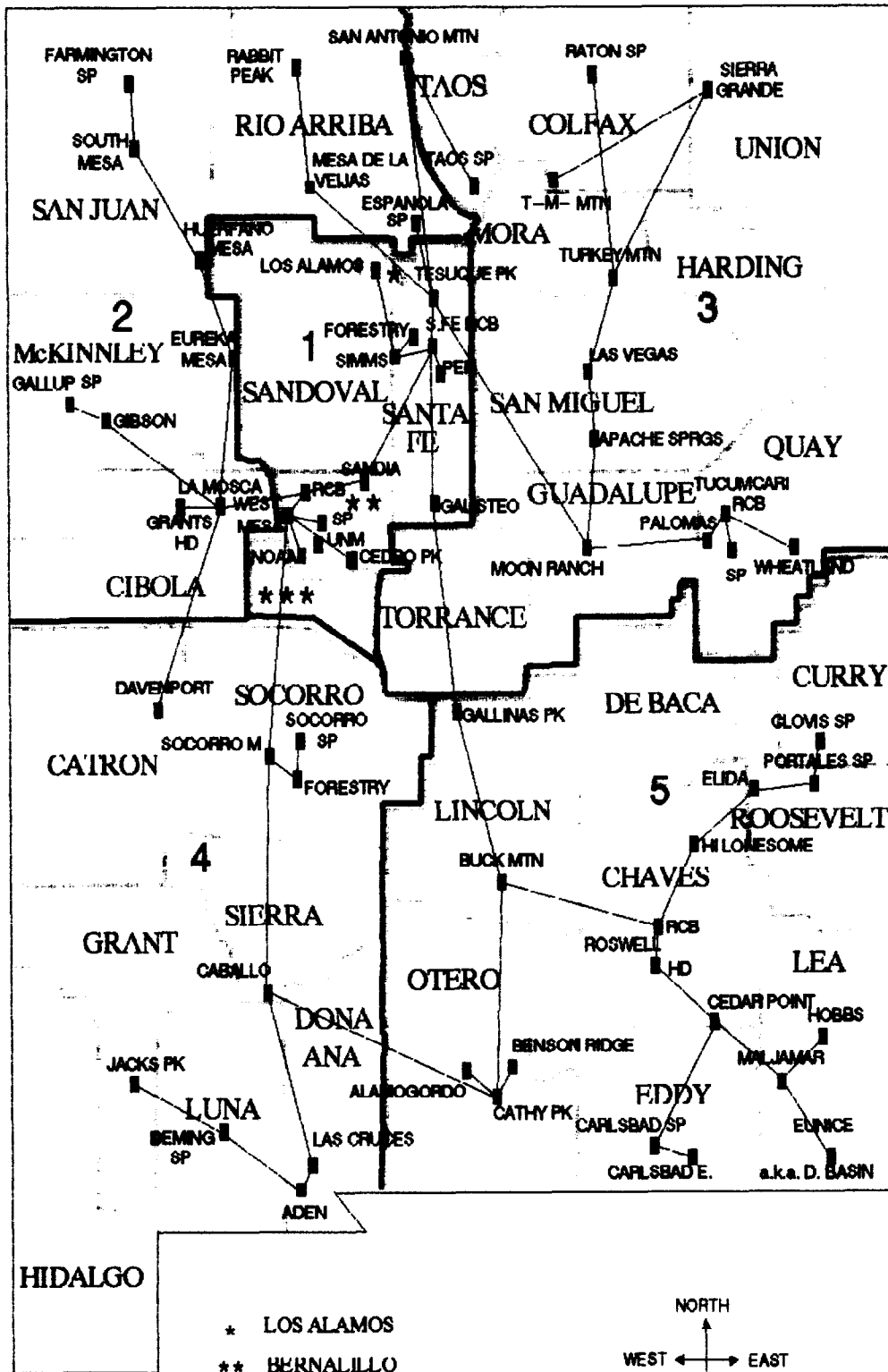
Probation and Parole Field Service Division

Corrections Prisoner Transport

New Mexico State Library

Education Department/School Transportation Division

STATE LOCAL GOVERNMENT REGIONS



5.5.6

Government Agencies

USDOE/AL Kirtland USAF Base, Albuquerque, NM

Federal Aviation Administration, Southwest Region

Bureau of Alcohol, Tobacco, and Firearms

U.S. Customs Service

U.S. Secret Service

General Services Administration

Drug Enforcement Administration

Federal Bureau of Investigations

Immigration and Naturalization Service

U.S. Border Patrol

U.S. Marshall Service

NASA, White Sands Test Facility

U.S. Department of Energy

BIA, Albuquerque Area Office

Bureau of Land Management

U.S. Fish and Wildlife Service

National Park Service

Interstate Commerce Commission

U.S. Forest Service, Southwest Region

National Weather Service

Department of the Air Force, Cannon AFB

Department of the Air Force, Holloman AFB

Department of the Air Force, Kirtland AFB

Department of the Army, White Sands Missile Range

Government Agencies (cont)

Sandia National Laboratory, Albuquerque, NM

Los Alamos National Laboratory, Los Alamos, NM

WIPP Site, Carlsbad, NM

5.6 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 130

Total number of unassigned channels none

Total number of reserved channels, surrounding region and Mexico none

5.7 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 said 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, taking into consideration the channels which were returned to the reserve pool.

5.8 Prioritization of Applicants

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

5.8 Prioritization of Applicants (cont)

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 Police & Fire Agencies.....2 Point
- Public Services Agencies..... 1 Point
- Multi-agency Systems..... 2 Points
- Multi-agency/Multi Jurisdiction Systems... 3 Points
- Single Agency/Jurisdiction Systems..... 1 Point

5.9 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 29 PLANNING COMMITTEE

CHAIRPERSON:

NAME: Irving W. Skinner

AGENCY AFFILIATION:

ADDRESS: State of New Mexico

Radio Communication Bureau

P.O.Box 5393

Santa Fe, New Mexico 87502-5393

PHONE NUMBER: 505-827-9364

THE REGIONAL PLANNING COMMITTEE MEMBERS

Charles Anderson.....Radio Communications Bureau  
P.O.Box 5393  
Santa Fe, NM  
505-827-9351

Dicky Bain.....Navajo Nation Fire & Rescue  
P.O.Drawer J  
Window Rock, Az 86515  
602-871-6915

Chief John Brown.....Albuquerque Fire Department  
P.O.Box 2086  
Albuquerque, NM 87103  
505-243-6601

Maj Don Helburg.....DPS/State Police Division  
P.O.Box 1629  
Santa Fe, NM  
505-827-3411

Frank Smith.....Energy Minerals and Natural  
Resources Department/Forestry  
Division  
Santa Fe, NM  
505-827-5830

Raleigh Tofoya Sr.....Jicarilla Apache Tribal Police  
Box 253  
Dulce, NM 87528  
505-759-3222

Carl Gilmore.....Taos County EMS Director  
P.O. Drawer SSS  
Taos, New Mexico 87571  
505-758-2719

Regional Planning Committee (Cont)

Yolanda Gonzales.....State Highway Transportation  
Department/Communications  
General Office  
1120 Cerrillos Road, Box 1149  
Santa Fe, NM 87504-1149  
505-827-5594

Randy Minyard.....Spectrum Coordinator  
D.O.E. Albuquerque Office  
Raytheon Services, Nevada  
1050 E. Flamingo Suite 335  
Las Vegas, NV 89119  
702-295-3458 FAX 702-295-1500

Rod Brown.....AL/DOE SAIC (c/o Rod Brown)  
Penn & H St. (SAIC POB 5400)  
Kirtland, USAF Base (ALB, 87185)  
Albuquerque, New Mexico  
505-845-5841

Jim Jones, Capt.....Bernalillo County SO  
309 Rincon CT NW  
Albuquerque, NM 87105-1664  
505-764-4249, 768-4140

Kevin M. J. Hoban.....9-1-1 Emergency Communications  
Mesilla Valley Regional  
Dispatch Authority  
130 W. Lohman  
Las Cruces, NM 88005  
505-523-4447

James M.W. Morrison, Capt.....Hobbs Police Department  
300 N. Turner  
Hobbs, NM 88240  
505-397-9265

**MINUTES OF MONDAY, NOVEMBER 23, 1992**

**Region 29 Planning Committee**

A regular meeting of the Region 29 Planning Committee was held on Monday, November 23, 1992. The meeting was called to order by Irving Skinner, Chairman, Region 29 Planning Committee, at 10:00 a.m., at the ISD Radio Communications Bureau.

Present were: Irving Skinner (RCB), Kevin Hoban (MVRDA), Randy Minyard (Raytheon, DOE), James Morrison (Hobbs P.D.), Dicky Bain (Navajo Nation F.D.), Capt. Jim Jones (BCSD), Michael Gomez (DOE/AL), Russ La Beau (DOE/AL), Yolanda Gomez (NMHD), Raleigh Tafoya Sr. (JATP), Frank Smith (EMNR/Forestry), Charles Anderson (RCB), John Dawson (RCB), Jay Staeder (AFD).

Jay Staeder attended the meeting in place of John Brown who was unable to attend.

**CORRECTION ON PLAN**

Irving asked if anyone had any questions pertaining to the plan he had sent to each of them.

Randy Minyard pointed out a few items which he thought ought to be changed. They are as follows:

1. On Page 9, under the Federal Inoperability it explains about the S160 how us and the Federal Government gives access to 800 mistrac frequencies. Randy suggested that Irving might want to add that DOE has to flag Irving under the S160 FCC to get authorization to go back through the Federal Government to get a license. Who will we apply to by letter and who is going to respond that we have authority to operate on the frequency. It might be beneficial to add in Paragraph 2.4 that Radio Communications is the agency where the Federal Government will apply to operate on the 800 radio frequency.
2. On Page 27, Irving had specified in Paragraph 4.1.1 that there are two specific assignments. Randy did not quite understand this statement. Irving explained that there is two specific assignments that DOE and the state have a state control here that will operate statewide for the five common channels. Randy told Irving he thought they might be asking to get the five (5) mutual aid frequencies just to monitor them, but DOE does not want to be a control point. Irving said he would take off control point.

3. On Page 46 where all the agencies are listed, might want to add Sandia National Laboratory, Los Alamos National Laboratory and the WIPP Site at Carlsbad.

#### OTHER ISSUES

The Department of Energy needs to keep updated with the committee, especially in the Albuquerque Area, as far as budget for radios are concerned.

Charles said he does not like to be limited to just one vendor. He is looking at G.E. trunking because it is more flexible than Motorola.

The first step is to get the Microwave System overlaid with switch so we can patch any location to any location without having to do it manually here; just dial up patch so any mountain top can talk to any mountain top and this will eliminate the operator.

Another technology to consider is cellular technology. Every other cellular system has to work with every other cellular.

Randy said unless Project 25 gets fully implemented and everybody follows that order, he can see a checker board pattern in New Mexico that will ruin communications for Public Safety. What the Committee needs to consider is working as a state entity rather than individual agencies pursuing their own research projects.

An item the Las Cruces consultant will bring up at next month's meeting, as he has done before the Council, is that any agency or government who has five or more frequencies and has not looked at trunking, will not have their license renewed unless they have looked at trunking.

Charles is installing 155 475, which is the nationwide mutual Aid Channel, on all local areas by the end of this year or next year. Every district office in the State of New Mexico will have 155 475.

Charles suggested composing a sub-group out of the regional planning committee to conduct a study on the various aspects of the question of inoperability. This sub-group would meet, discuss inoperability and come up with ideas or recommendations to the original group and then have a meeting of the planning committee. Randy asked if Laura Threet would agree to sign off on forming a sub-group of that sort. John told Randy that ISD has a very supportive Cabinet Secretary. Laura Threet seeks to understand issues and is very politically connected.

Frank Smith asked about the cost involved in the transition of this switch. How is it going to impact us? Irving said the frequencies must be allotted to our state first.

Randy asked if it would be beneficial to add in the plan about using Region 29 Planning Committee to develop inoperability guidelines. Irving said to write it in the summary.

Randy asked Yolanda if the Highway Department Dispatchers should go to the Dispatch Academy for Public Safety Dispatchers. Yolanda said she does not feel a need to send them to the Academy because Highway would not use what they learned at the Academy and would not be able to implement it. The reason Randy was concerned is in case of implementation of the statewide public safety concept; then a potential need would arise for Highway Dispatch to become involved in more of these joint operations. Yolanda said it would if that route were chosen. Then there cause to send the eight (8) Highway Dispatchers to the Academy; otherwise they would not have much awareness of what is taking place.

Irving then had the Planning Committee sign the final review committee letter.

Irving explained about the generic plan. It states four (4) Channels will be given to Counties under 10,000.

James pointed out a couple of items in the plan in which he wanted to review. They are as follows:

1. On Page 46 where you the Government agencies are listed, have two DOE listings; one in Kirtland AFB and DOE in Albuquerque. Irving said it should read DOE Control Center in Albuquerque.
2. On Page 37-38 it mentions getting the five common Mutual Aid Channels licenses. What are the two common Law Enforcement Mutual Aid State Police statewide frequencies? Are those different from dispatch? Irving said there is a need for two new channels for the Law Enforcement statewide for mutual aid besides the five common channels. James asked if these frequencies would be 100MHz. Irving responded yes.

Region 29 Planning Committee  
November 23, 1992  
Page 4

Jay Staeder asked if the Albuquerque Fire Department would be allocated 15 channels under the plan because they are planning on joining the city wide trunk radio system and anticipate 4000 users. He wondered if 15 channels will be adequate for this amount of users. Irving said there are 30 channels allocated for the County. Jim Jones added that the City and County are looking into combining city and county entities and should see no problems.

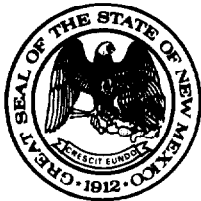
James asked Irving if the exact frequencies will be allocated for the entire state? Irving responded by saying if the plan is passed frequencies for each county and city will be allotted and will show what the extra frequencies are. Irving will then write them on the plan when he gets the statute. The Committee might be called back at this time to modify the plan with the addition of the extra frequencies.

Kevin asked Irving if he saw a need for another control point other than Santa Fe. Irving said yes because Santa Fe Control is patrolling all state radios from here except State Police. During the day, different Departments control their system, but all the systems come back to our Microwave System making Santa Fe the redundant site.

Kevin moved to adjourn the meeting. Charles seconded the motion and the motion carried through unanimous vote.

Meeting ended at 11:41 a.m.

Kevin M.S. Hoban	MVROA	523-4447
RANDY MIKYARD	RAYTHEON (Dept of Energy)	702 295-3458
JAMES MW MORRISON	HOBBS P.D.	397-9265
DICKY BAIN	NAVY/NATION FD	602 871-6915
CAPT. JIM JONES	BCSD	768-4249
Michael P. Gomez	DOE/AL	845-5622
Russ LaBeau	DOE/AL	845-5811
Yolanda Gonzales	N.M. Highway Dept	827-5594
Raleigh Tafaya Sr.	Huella Apache Tribe - Police	757-3222
FRANK SMITH	ENERGY, MINERALS & NATURAL RESOURCES DEPT. - FORESTRY	827-5838
Charles Anderson	Radio Comm Bur, State of N.M.	827-9351
JOHN DAWSON	GSD/USD / COMMUNICATIONS	827-2190
JAY STAEDEL (John Brown)	AFD (Albug. Fire Dept.)	764-6339
Jimmy Skinner	Radio Comm Bureau state of NM	827-9364



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**Leo Griego**  
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PUBLIC SAFETY REGIONAL PLANNING COMMITTEE  
IRVING W. SKINNER, CHAIRMAN  
THE STATE OF NEW MEXICO  
REGION 29

FINAL REVIEW COMMITTEE

This is the final draft of the State of New Mexico Region 29 800 Mhz Plan. There will be modifications as we go on to use the 800 Mhz frequencies. We have to get the frequencies assigned to the various Counties, Cities, State and Reservations/Pueblos.

I, Charles M. Anderson do hereby indicate by my signature that this Plan of the State of New Mexico Region 29 800 Mhz Planning Committee is accepted after my review.

Charles M. Anderson 23 Nov 92  
Signed, Committee Member      Date



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I, Dicky Bain do hereby indicate by my signature that this Plan of the State of New Mexico Region 29 800 Mhz Planning Committee is accepted after my review.

Dicky Bain 11.23.92  
Signed, Committee Member Date



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I, John Brown do hereby indicate by my signature that this Plan of the State of New Mexico Region 29 800 Mhz Planning Committee is accepted after my review.

John H Brown 11/23/92  
Signed, Committee Member Date





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I, DON L. HELBERG do hereby indicate by my signature that this Plan of the State of New Mexico Region 29 800 Mhz Planning Committee is accepted after my review.

Don L. Helberg 12-10-92  
Signed, Committee Member Date



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I, Frank K. Smith do hereby indicate by my signature that this Plan of the State of New Mexico Region 29 800 Mhz Planning Committee is accepted after my review.

Frank K. Smith 11-23-92  
Signed, Committee Member Date



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I, Raleigh Tafaya Sr. do hereby indicate by my signature that this Plan of the State of New Mexico Region 29 800 Mhz Planning Committee is accepted after my review.

[Signature] 11-23-92  
Signed, Committee Member Date

REC'D NOV 23 1992

## TAOS VOLUNTEER FIRE DEPARTMENT

BOX 4591  
TAOS, NEW MEXICO 87571  
(505) 758-3386

November 19, 1992

Mr. Irving Skinner, Chairperson  
Public Safety  
Region 29 Planning Committee  
State of New Mexico  
Radio Communications Bureau  
PO Box 5393  
Santa Fe, New Mexico 87502-5393

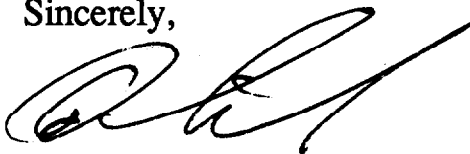
Dear Chairperson Skinner,

I apologize that previous commitments make it impossible for me to be able to attend the meeting in Santa Fe on November 23rd. I would like to be a part of the process in person.

I have reviewed the plan and supporting documentation and correspondence. I agree with the need for the plan and for it's contents.

Please register that I am voting for **acceptance** of the plan by this proxy at this, or any other meeting at which the plan should come to a vote.

Sincerely,



Carl Gilmore  
1st Lieutenant, Rescue  
New Mexico State Police SAR Field Coordinator # 703  
University of New Mexico EMS Academy Master Instructor



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I, Yolanda Gonzalez do hereby indicate by my signature that this Plan of the State of New Mexico Region 29 800 Mhz Planning Committee is accepted after my review.

Y Gonzalez 11-23-92  
Signed, Committee Member Date



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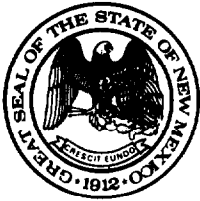
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I, JAMES W. JONES do hereby indicate by my signature that this Plan of the State of New Mexico Region 29 800 Mhz Planning Committee is accepted after my review.

James W. Jones 11-23-92  
Signed, Committee Member Date



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I, Kevin M. J. Hoban do hereby indicate by my signature that this Plan of the State of New Mexico Region 29 800 Mhz Planning Committee is accepted after my review.

 11-23-92  
Signed, Committee Member Date



STATE OF NEW MEXICO

GENERAL SERVICES DEPARTMENT  
INFORMATION SYSTEMS DIVISION  
**RADIO COMMUNICATIONS BUREAU**  
PO Box 5393, Coronado Station  
Santa Fe, New Mexico 87502-5393  
(505) 827-9351

**BRUCE KING**  
GOVERNOR

**Laura E. Threet**  
SECRETARY

**Leo Griego**  
DEPUTY SECRETARY

OFFICE of the SECRETARY  
(505) 827-2000  
ADMINISTRATIVE SERVICES DIVISION  
(505) 827-2165  
BUILDING SERVICES DIVISION  
(505) 827-2349  
INFORMATION SYSTEMS DIVISION  
(505) 827-2001  
PROPERTY CONTROL DIVISION  
(505) 827-2141  
PURCHASING DIVISION  
(505) 827-0472  
RISK MANAGEMENT DIVISION  
(505) 827-0442

PUBLIC SAFETY REGIONAL PLANNING COMMITTEE  
IRVING W. SKINNER, CHAIRMAN  
THE STATE OF NEW MEXICO  
REGION 29

FINAL REVIEW COMMITTEE

This is the final draft of the State of New Mexico Region 29 800 Mhz Plan. There will be modifications as we go on to use the 800 Mhz frequencies. We have to get the frequencies assigned to the varies Counties, Cities, State and Reservations/Pueblos.

I, James MW Morrison do hereby indicate by my signature that this Plan of the State of New Mexico Region 29 800 Mhz Planning Committee is accepted after my review.

James MW Morrison 11-23-92  
Signed, Committee Member Date

REC'D JAN 19 1993

ARRC

800 MHZ

Arizona Regional Review Committee

P.O. BOX 3468 • PHOENIX, AZ. 85030-3468

December 24, 1992

Mr. Irving W. Skinner  
Region 29 Planning Committee Chairman  
State of New Mexico  
P.O. Box 5393  
Santa Fe, NM 85702-5393

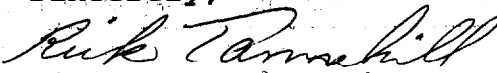
Dear Irv,

Congratulations on completing a fine Regional Plan for New Mexico. I know how much hard work is involved in such an effort.

I have reviewed your draft plan and see no conflicts with the Region 3 (Arizona) Plan currently in place. I would appreciate you sending us your APCO packing plan when completed so that we can check for any obvious conflicts.

Again, congratulations on a job well done.

Sincerely,

  
Richard L. Tannehill, P.E.  
Region 3 Chairman

REC'D DEC 28 1992  
STATE OF NEW MEXICO



GENERAL SERVICES DEPARTMENT  
INFORMATION SYSTEMS DIVISION  
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**BRUCE KING**  
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**Leo Griego**  
DEPUTY SECRETARY

PUBLIC SAFETY REGIONAL PLANNING COMMITTEE  
IRVING W. SKINNER, CHAIRMAN  
THE STATE OF NEW MEXICO  
REGION 29

November 13, 1992

Steve Proctor  
Utah Department of Public Safety  
4501 South 2700 West  
Salt Lake City, UT 84119

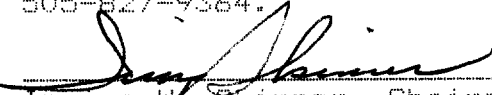
Dear Mr. Chairman:

Enclosed is the final draft of the State of New Mexico Region 29  
800 Mhz Plan. This plan is basically a generic plan developed  
through th APCD plan and the New Mexico; Blue Book.

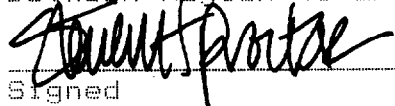
We will be working around your region in the circelization  
loading program. When the committee meets November 23 to vote on  
the final plan and prepair the plan for the FCC, we should have  
the frequency stacking by then.

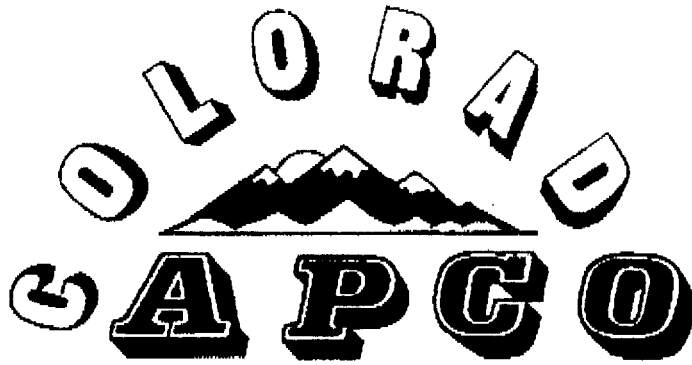
When you study this plan, you will see that we need to work on all  
the five common channels state-wide cperation because of the WIPP  
program. There is a central dispatch in Santa Fe and several  
regional dispatch centers.

If you have any questions about our plan please call me at  
505-827-9364.

  
Irving W. Skinner, Chairman  
State of New Mexico, Region 29

Region 41 has reviewed the State of New Mexico Region 29 Public  
Safety 800 Mhz Plan and this constitutes coordination of planning  
between Region 41 and Region 29.

  
Signed \_\_\_\_\_ Date \_\_\_\_\_  
Steve Proctor, Chairman for Region 41



*January 19, 1993*

*Irv Skinner  
State of New Mexico  
Regional Public Safety Planning Advisory Committee  
Santa Fe, New Mexico*

*Dear Irv,*

*Region 7's Frequency Advisory Committee has reviewed your Regional Plan and would have no objection to said plan.*

*Sincerely,*

*Emery L. Reynolds, Chairman  
Frequency Advisory Committee  
& FCC Region 7 Committee  
c/o Arapahoe County Sheriff's Office  
5686 South Court Place  
Littleton, Colorado 80120  
303-795-4910 FAX 303-795-7684*



STATE OF NEW MEXICO

GENERAL SERVICES DEPARTMENT  
INFORMATION SYSTEMS DIVISION  
**RADIO COMMUNICATIONS BUREAU**

PO Box 5393, Coronado Station  
Santa Fe, New Mexico 87502-5393  
(505) 827-9351

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- ADMINISTRATIVE SERVICES DIVISION  
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- PURCHASING DIVISION  
(505) 827-0472
- RISK MANAGEMENT DIVISION  
(505) 827-0442

**BRUCE KING**  
GOVERNOR

**Laura E. Threet**  
SECRETARY

**Leo Griego**  
DEPUTY SECRETARY

PUBLIC SAFETY REGIONAL PLANNING COMMITTEE  
IRVING W. SKINNER, CHAIRMAN  
THE STATE OF NEW MEXICO  
REGION 29

November 13, 1992

Gary Adams  
Captain of Turnpikes  
P.O.Box 11415  
Oklahoma City, OK 73136



Dear Mr. Chairman:

Enclosed is the final draft of the State of New Mexico Region 29 800 Mhz Plan. This plan is basically a generic plan developed through the APCD plan and the New Mexico; Blue Book.

We will be working around your region in the circlization loading program. When the committee meets November 23 to vote on the final plan and prepair the plan for the FCC, we should have the frequency stacking by then.

When you study this plan, you will see that we need to work on all the five common channels state-wide operation because of the WIPP program. There is a central dispatch in Santa Fe and several regional dispatch centers.

If you have any questions about our plan please call me at 505-827-9364.

*Irving W. Skinner*  
Irving W. Skinner, Chairman.  
State of New Mexico, Region 29

Region 34 has reviewed the State of New Mexico Region 29 Public Safety 800 Mhz Plan and this constitutes coordination of planning between Region 34 and Region 29.

*Gary Adams 11-23-92*  
Signed \_\_\_\_\_ Date \_\_\_\_\_  
Gary Adams, Chairman for Region 34



STATE OF NEW MEXICO

GENERAL SERVICES DEPARTMENT  
INFORMATION SYSTEMS DIVISION  
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PO Box 5393, Coronado Station  
Santa Fe, New Mexico 87502-5393  
(505) 827-9351

**BRUCE KING**  
GOVERNOR

**Laura E. Threet**  
SECRETARY

**Leo Griego**  
DEPUTY SECRETARY

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(505) 827-0442

PUBLIC SAFETY REGIONAL PLANNING COMMITTEE  
IRVING W. SKINNER, CHAIRMAN  
THE STATE OF NEW MEXICO  
REGION 29

November 17, 1992

Walt Kelley  
Department of Communications  
City of Amarillo  
P.O.Box 1971  
Amarillo, TX 79186

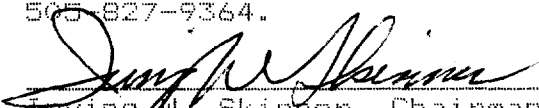
Dear Mr. Chairman:

Enclosed is the final draft of the State of New Mexico Region 29 800 Mhz Plan. This plan is basically a generic plan developed through the APCO plan and the New Mexico; Blue Book.

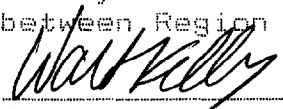
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When you study this plan, you will see that we need to work on all the five common channels state-wide operations because of the WIPP program. There is a central dispatch in Santa Fe and several regional dispatch centers.

If you have any questions about our plan please call me at 505 827-9364.

  
Irving W. Skinner, Chairman  
State of New Mexico, Region 29

Region 52 has reviewed the State of New Mexico Region 29 Public Safety 800 Mhz Plan and this constitutes coordination of planning between Region 52 and Region 29.

  
Signed \_\_\_\_\_ Date \_\_\_\_\_  
Walt Kelley, Chairman for Region 52



STATE OF NEW MEXICO

GENERAL SERVICES DEPARTMENT  
INFORMATION SYSTEMS DIVISION  
**RADIO COMMUNICATIONS BUREAU**

PO Box 5393, Coronado Station  
Santa Fe, New Mexico 87502-5393  
(505) 827-9351

**REC'D JAN 15 1993**

OFFICE of the SECRETARY  
(505) 827-2000

ADMINISTRATIVE SERVICES DIVISION  
(505) 827-2165

BUILDING SERVICES DIVISION  
(505) 827-2349

INFORMATION SYSTEMS DIVISION  
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PROPERTY CONTROL DIVISION  
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PURCHASING DIVISION  
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RISK MANAGEMENT DIVISION  
(505) 827-0442

**BRUCE KING**  
GOVERNOR

**Laura E. Threet**  
SECRETARY

**Leo Griego**  
DEPUTY SECRETARY

PUBLIC SAFETY REGIONAL PLANNING COMMITTEE  
IRVING W. SKINNER, CHAIRMAN  
THE STATE OF NEW MEXICO  
REGION 29

November 17, 1992

John McDaniel  
Midland County Sheriff's Dept  
Midland, TX 79702

Dear Mr. Chairman:

Enclosed is the final draft of the State of New Mexico Region 29  
800 Mhz Plan. This plan is basically a generic plan developed  
through the APCO plan and the New Mexico; Blue Book.

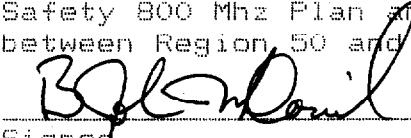
We will be working around your region in the circledization  
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When you study this plan, you will see that we need to work on all  
the five common channels state-wide operation because of the WIFP  
program. There is a central dispatch in Santa Fe and several  
regional dispatch centers.

If you have any questions about our plan please call me at  
505-827-9364.

  
Irving W. Skinner, Chairman  
State of New Mexico, Region 29

Region 50 has reviewed the State of New Mexico Region 29 Public  
Safety 800 Mhz Plan and this constitutes coordination of planning  
between Region 50 and Region 29.

 1-12-93  
Signed Date  
John McDaniel, Chairman for Region 50



STATE OF NEW MEXICO

GENERAL SERVICES DEPARTMENT  
INFORMATION SYSTEMS DIVISION  
RADIO COMMUNICATIONS BUREAU  
PO Box 5393, Coronado Station  
Santa Fe, New Mexico 87502-5393  
(505) 827-9351

**GARREY CARRUTHERS**  
GOVERNOR

**Tom Thornhill**  
SECRETARY

**Johnny A. Taylor**  
DEPUTY SECRETARY

OFFICE of the SECRETARY  
(505) 827-2000  
ADMINISTRATIVE SERVICES DIVISION  
(505) 827-2186  
BUILDING SERVICES DIVISION  
(505) 827-2348  
INFORMATION SYSTEMS DIVISION  
(505) 827-2001  
PROPERTY CONTROL DIVISION  
(505) 827-2141  
PURCHASING DIVISION  
(505) 827-0472  
RISK MANAGEMENT DIVISION  
(505) 827-0442

BEFORE THE  
FEDERAL COMMUNICATIONS COMMISSION  
WASHINGTON, D.C.

In the Matter of

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

To: The Commission

**SUPPORT FOR PETITION FOR PARTIAL RECONSIDERATION AND  
EXPEDITED ACTION**

The Associated Public-Safety Communications Officers, Inc., has designated me as the Convenor of Region (29) New Mexico (as defined in the Report and Order) for the Regional Planning Process which is developing from this proceeding. I hereby express my support for the "Petition for Partial Reconsideration and Expedited Action" filed with the Commission in this proceeding on or about February 11, 1988 by J.Y. Nasser, Chairman of the National Public Safety Planning Advisory Committee.

Respectfully submitted,

Irving W. Skinner  
Convenor, Region 29  
State of New Mexico  
Radio Communications  
Bureau

P.O.Box 5393  
Santa Fe, New Mexico  
87502  
(505) 827-9364

**ASSOCIATED PUBLIC-SAFETY COMMUNICATIONS OFFICERS, INC.  
NEW MEXICO CHAPTER**

-----  
**It's a privilege to belong to APCO**  
-----

**IRVING SKINNER  
Designated Frequency Advisor  
P.O.Box 5393  
Santa fe, New Mexico 87502-5393  
505-827-9364**

**12/30/87**

**Memo to: Public-Safety Radio Services  
Communications Directors and System Planners  
Local Government Radio Service  
Police Radio Service  
Fire Radio Service  
Highway Maintenance Radio Service  
Forestry-Conservation Radio Service  
Special Emergency Radio Service (EMS)**

**From: Irving Skinner, Convenor**

**re: Development of a Public Safety National Plan, New  
Mexico Region, Organize Planning Committee**

**We are establishing a planning committee based on the  
F.C.C.'s Report and Order in Gen. Docket 87-112 on the  
Regional Planning Process for the new 821-824/866-869 block  
of frequencies for the Public-Safety Services.**

**I have been instructed by the National Public Safety Planning  
Advisory Committee and National Associated Public-Safety  
Communications Officers, Inc. to organize a planning  
committee for our region.**

**This committee will have the task of plotting the future of  
New Mexico for adequate frequency spectrum in the 800 meg  
frequency range.**

**We will need communications systems planners to volunteer to  
work on this committee, people who will be willing and able  
to travel to meetings.**

**Anyone interested in volunteering for this very important  
task please give me a call at 827-9364 before the 12th of  
January.**

**Thank you for your interest.**

NEW MEXICO PUBLIC-SAFETY SPECTRUM REGIONAL PLANING  
COMMITTEE ORGANIZATIONAL MEETING

January 15, 1988

From: Irving Skinner

re: Development of a Public Safety National Plan  
New Mexico Region

Note Public-Safety Radio Services are to include  
Local Government Radio Service  
Police Radio Service  
Fire Radio Service  
Highway Maintenance Radio Service  
Forestry-Conservation Radio Service  
Special Emergency Radio Service (EMS)

The Federal Communications Commission has charged the National Public Safety Advisory Committee (NPSFAC) with the responsibility of developing regional frequency usage plans for 6 Mhz of frequencies located at 821-824/866-869 Mhz. These frequencies will be made available for all eligible Public Safety Agencies as set forth in the F.C.C. Report and Order in General Docket 87-112.

The F.C.C. has set up 48 regions, New Mexico being a Region by itself, and we have been charged to form our own Regional Planning Committee for the purpose of preparing a regional plan to comply with this directive. We will need to have representatives from all of the above services. Also we will need people well versed in 800 Mhz systems. With Regional Interoperability a prime topic in our planning, we will also need to have government agencies represented. We are also directed to have a representative from FEMA.

This first meeting will be primary to elect a Chairman, Vice Chairman and a meeting recorder.

Study the Report and Order.

Make plans for future meetings.

Make plans to notify all Public Safety eligibles from the list of licensees.



**GARREY CARRUTHERS**  
GOVERNOR

**Tom Thornhill**  
SECRETARY

**Johnny A. Taylor**  
DEPUTY SECRETARY

STATE OF NEW MEXICO

GENERAL SERVICES DEPARTMENT  
INFORMATION SYSTEMS DIVISION  
RADIO COMMUNICATIONS BUREAU  
PO Box 5393, Coronado Station  
Santa Fe, New Mexico 87502-5393  
(505) 827-9351

OFFICE of the SECRETARY  
(505) 827-3000  
ADMINISTRATIVE SERVICES DIVISION  
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PURCHASING DIVISION  
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RISK MANAGEMENT DIVISION  
(505) 827-0442

**M E M O R A N D U M**

TO: Robert E. Tall, Executive Director, APCO

FROM: Irving Skinner, Convenor/Chairman *IS*

SUBJECT: APCO National Public Safety Communications Plan  
New Mexico Region (29) Convenors Report

DATE: February 24, 1988

New Mexico is well under way in getting a planning committee together. We have had two meetings thus far which were organizational in nature with several new people at the second meeting. We did elect a chairman and that's me. Vice Chairman is Charles Anderson of the State of New Mexico Radio Communications Bureau. General Electric volunteered to do our first mail out to all licensees in the region which will be done in March.

Sub-regions will not be considered because our state is basically rural, 1/2 to 3/4th of the people are living in or near the Albuquerque area.

Effort is now in progress to get the Governors Office involved. I have a letter ready to send through channels to the Secretary of our General Services Department, as per instructions from my Bureau Chief.

Our committees basic concern is where are we going to get funding for our travel expenses. So far it has not been a problem for the members that have attended but future meetings may be. The ones who would like to belong to the committee are having trouble getting their agencies to let them attend because of funding problems.

You will find minutes and attendance records enclosed of our two meetings we have had, the survey report, and a copy of my letter to the FCC supporting APCO's petition for GD NO. 87-112.



# PUBLIC NOTICE

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

2189

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

March 22, 1988

**ANNOUNCEMENT OF THE INITIAL  
REGIONAL PUBLIC SAFETY PLANNING MEETING FOR  
THE STATE OF NEW MEXICO**

The purpose of this Public Notice is to announce the initial meeting of the New Mexico Public Safety Planning Committee.

**DATE/TIME:** April 13, 1988/9:00 AM

**LOCATION:** High Mesa Inn  
3347 Cerrillos Road  
Sante Fe, New Mexico

**CONVENOR:** Irving W. Skinner  
State of Mexico  
Radio Communications Bureau  
P.O. Box 5393  
Sante Fe, NM 87502-5393

(505) 827-9364

All parties located in the State of New Mexico and interested in participating in the public safety planning process are encouraged to contact the convenor listed above for further information.

- FCC -



# PUBLIC NOTICE

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

1724

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

February 19, 1988

## FCC TO ASSIST IN ANNOUNCING REGIONAL PUBLIC SAFETY PLANNING MEETINGS

In response to a directive from Congress, the Commission has adopted a procedure for the development and implementation of a National Plan to accommodate the communications requirements of the public safety community. The concept calls for combining broad national goals with specific regional needs to enable the highly diverse public safety communications requirements of each region of the country to be fulfilled. As indicated in the Commission's National Plan for Public Safety, Report and Order, Gen Docket 87-112, 53 Fed. Reg. 1022 (January 15, 1988), this will be accomplished through development of detailed public safety plans by regional planning committees.

The regional planning committees will be formulated in accordance with a set procedure described in the Report and Order. Under this procedure, a "convenor" will be designated in each region by the Associated Public Safety Communications Officers, Inc. (APCO). The convenors will then be responsible for organizing an initial planning meeting in their particular region. During these initial meetings, permanent chairmen will be elected and the committees' operating procedures will be established.

To assist convenors in publicizing this process, the Commission will issue Public Notices announcing the times and locations of the meetings, based on information from the convenors. Any inquiries about specific meetings should be directed to the convenor listed in the Public Notice.

ASSOCIATED PUBLIC-SAFETY COMMUNICATIONS OFFICERS, INC.  
NEW MEXICO CHAPTER

-----  
It's a privilege to belong to APCO  
-----

IRVING SKINNER  
Designated Frequency Advisor  
P.O.Box 5393  
Santa Fe, New Mexico 87502-5393  
(505) 827-9364

**PUBLIC NOTICE:**


Having been duly certified to the Federal Communications Commission (FCC) by the Associated Public-Safety Communications Officers, Inc. (APCO) as the Convenor of an initial meeting of representatives of parties eligible for radio licensing in the FCC's Public Safety and Special Emergency Radio Services to establish a Regional Planning Committee in (the State of New Mexico) (in Region 29, as described hereinafter), I hereby give Public Notice that such an initial meeting will be held on April 13, 1988 at the High Mesa Inn, 3347 Cerrillos Rd., in Santa Fe, New Mexico, beginning at 09:00 hrs. Meeting is being held in conjunction with our New Mexico Chapter of APCO spring meeting on the 12th and 13th.

In accordance with the FCC's Report and Order in General Docket 87-112, the primary responsibility of the Regional Planning Committee will be to develop a Plan for use of frequencies in the 821-824/866-869 megahertz bands allocated by the FCC for use by such licensees. All of the Public Safety Frequency spectrum (VHF,UHF,800) will be considered in the planning process by this committee. Parties interested in participating in the regional planning process should contact me.

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

Copies of both the Report and Order and the Final Report are available from the FCC's duplication contractor, (will also be available at the meeting) International Transcription Services, Inc., Suite 140, 2100 M Street, N.W., Washington, D.C. 20037. Phone (202) 857-3800.

Irving W. Skinner, Convenor  
Regional, National Plan  
State of New Mexico  
Radio Communications Bureau  
P.O.Box 5393  
Santa Fe, New Mexico 87502-5393  
(505) 827-9364

  
Convenor  
03/03/88  
Date



March 03, 1988

ANNOUNCEMENT OF THE INITIAL  
REGIONAL PUBLIC SAFETY PLANNING MEETING FOR  
THE NEW MEXICO REGION 29

The purpose of this **Public Notice** is to announce the initial meeting of the New Mexico Region 29 Public Safety Planning committee.

Meeting will be held on April 13, 1988 at the High Mesa Inn 3347 Cerrillos Road in Santa Fe, New Mexico beginning at 09:00 hours. This meeting is being held in conjunction with the New Mexico Chapter of AFCD spring meeting on the 12th and 13th.

All Public Safety, Special Emergency Radio Service and interested parties are encouraged to participate in the Public Safety Frequency Spectrum planning process.

For more information, you may contact the convenor listed below.

Irving W. Skinner, Convenor  
New Mexico Region 29  
State of New Mexico  
Radio Communications Bureau  
P.O.Box 5393  
Santa Fe, New Mexico 87502-5393  
(505) 827-9364





APCO  
 NATIONAL PUBLIC SAFETY PLANNING COMMITTEE  
 NEW MEXICO REGION (29)  
 COMMITTEE ATTENDANCE CHART

Meetings to be 2nd Thursday each month, 9:00am at Santa Fe Radio Communications Bureau, Law Enforcement complex on Albuquerque highway south.

NAME	+01/15/88+	+02/11/88+	+04/14/88+
ANDERSON, CHARLES (Vice Char)			
Radio Communications Bureau	P	P	P
BAIN, DICKY			
Navajo Nation Fire & Rescue		P	A
BALLOU, BRIAN			
Motorola C&E Inc.	P	A	P
BRISBIN, BOB			
GE Mobile Comm.	P	P	P
BROWN, Capt. JOHN			
Albuq Fire Department	P	A	P
DURAN, PETER			
Santa Fe Fire Department		P	A
HANLEY, TOM			
City of Santa Fe Comm		P	A
HELBERG, Capt. DON			
DPS/State Police	P	A	P
JOHN, GEORGE			
Navajo Nation Police Dept		P	A
LETCHER, KEN			
Southwest Communications, Inc		P	A
QUINTANA, GEORGE			
Santa Fe Fire Department		P	A
RAEL, ROBERT			
Penitentiary of NM	P	A	A
SEDLAR, JOSEPH A.			
DPS/EMPAC	P	A	A
SKINNER, IRVING (Chairman)			
Radio Communications Bureau	P	P	P
SMITH, FRANK			
EMNRD/Forestry Div.	P	A	P
STOUT, DAVE			
Tesuque Peak, Inc.	P	P	-
TAFOYA, RALEIGH Sr			
Jicarilla Apache Tribe Police		P	A
VILLA, RAY			
NM Highway Department	P	A	A

*runy*

**NEW MEXICO PUBLIC SAFETY SPECTRUM REGIONAL MEETING**

**January 15, 1988 at Radio Communications Bureau, Santa Fe, NM**

**Present**

Dave Stout	Tesuque Peak, Inc., Santa Fe, NM	473-0231
Capt. Don Helberg	DPS/State Police, Santa Fe, NM P.O.Box 1628	827-3411
Bob Brisbin	GE - Mobile Comm., P.O.Box 8487, Abq.	243-8546
Brian Ballou	Motorola C&E, Inc., 1650 Univ NE #201, Abq.	842-0496
Joseph A. Sedlar	DPS/EMPAC-Nat.Guard Complex, PO Box 4277, AF	473-2476
Capt. John Brown	Abq. Fire Dept., PO Box 2086, Abq. 87103	243-6601
Irving Skinner	State Radio Comm. Bureau, PO Box 5393, SF	827-9351
Charles Anderson	State Radio Comm. Bureau, PO Box 5393, SF	827-9351
Robert Rael	Penitentiary of NM, Santa Fe, NM	471-7300
Ray Villa	NM Highway Dept., Santa Fe, NM	827-5125
Frank Smith	EMNRD-Forestry Div., Santa Fe, NM	827-5838

Meeting opened with introductions - then discussion of letter from APCO outlining FCC request to NPSAC to assume responsibility of developing regional frequency usage plans for the new 800 block of frequencies for the Public Safety Services.

Charlie Anderson attended the Colorado meeting in January (their third meeting-held in Denver). They did not receive page 4 of the FCC Docket 87-112 nor the Appendix and were expecting it to be sent by February 6. They are preparing letter to go to licensees to be answered within 60 days. Discussion of whether Denver would be one district and rest of Colorado divided, how to use 800 block and merge, UHF/VHF interoperability, etc. They estimate time period of two years to accomplish. (Texas working on solution for three years, since FCC made Texas one district.

Informal meeting will be held in February to resolve jurisdictional problems.

General discussion following reference New Mexico being one region - how to subdivide; how to coordinate with other states; has to fit into nation's plans; will involve a lot of travel. Need to form committee to work together for the next six months. Also technical specifications must fit overall plan; what lower frequencies will be given up. Colorado reps will go to Washington, D.C., may wait for minutes to know what New Mexico should do.

Capt. Brown raised the question of cost to contact 24,000 licensees in NM, that considerable expense was involved and we need to identify who pays.

Irving discussed meeting in Phoenix on Arizona Plan - Public Safety Services will send out letters notifying all licensees.

We will need a review committee to check all licensees. Some think APCO should give up some frequencies.

Capt. Helberg asked if all license applicants must go through Irving - affirmative - requests received through APCO computer.

Charlie asked who is going to pay postage for mailings? (Council of Governments pays in Texas). Also, manufacturers must work on Mutual Aid frequency (with other vendors). Brian Ballou of Motorola concurred and suggested that a Mr. Vogel from New Jersey be called in at a later date. Charlie also mentioned that Colorado is setting up one site to receive Mutual Aid frequency.

GE rep Bob Brisbin asked how many radio are needed in rural areas? Do they need 800 Mhz. Discussion of how Arizona EMS has UHF, others VHF and cannot communicate.

Brian advised we need input from APD, Bernalillo Fire Dept, etc. (covers one-half to three-quarters of the state's population).

Charlie said we need a very strong letter. (Colorado meets every 30 days on first Thursday of the month), and that first letter should be sent to everyone. Capt. Brown stated it should be sent to key people, probably 500 in all. Irving said a strong letter was sent from Arizona advising that without participation now, they may not be able to get the 800 later.

Irving Skinner was appointed Chairman, Charlie Anderson, Vice Chairman.

Question asked: what about Federal participation? Capt. Helberg stated efforts were already started to coordinate border law enforcement including Customs. Are the Feds involved at all? (Not under FCC).

It was agreed that this group should meet after Irving's trip to Florida on January 26. First meeting was set for Feb. 11 at 9 a.m. at Radio Communications and that group would meet the 2nd Thursday of each month thereafter. Group was advised to work on content of first letter to be sent out and to consider future planning. It was agreed that group would wait for more information before calling in Mr. Vogel and that Brian would make the arrangements.

It was agreed that we should probably send notes on our meetings to other states.

Recorder:  
Jean Miller

Second Meeting - 800 Spectrum

February 11, 1988 - Santa Fe, NM

Present

✓ Peter Duran	P. O. Box 909	984-6570	SF Fire Dept.
✓ George Quintana	P. O. Box 909	"	"
Dave Stout	2921 Rufina Ct. SF	473-0231	EF Johnson/Reserve Units
Charles Anderson	P. O. Box 5393, SF	827-9351	State NM RCB
✓ Ken Letcher	P. O. Box 1942	622-7870	Southwest Comm. Inc.
Bob Brisbin	P. O. Box 8487	243-8546	GE - Manager
✓ George John	P. O. Drawer J, Window Rock, Az. 86515		Navajo Police Dept.
✓ Tom Hanley	P. O. Box 909, SF	473-7232	City of Santa Fe
✓ Dicky Bain	P.O. Drawer J, Window Rock, Az. 86515	(602)871-6915	Nav. Nat. F/R
✓ Raleigh Tafoya, Sr.	Jicarilla Apache Tribe, Box 507, Dulce, NM 87528	759-3222	Police
Irving Skirmer	P.O. Box 5393, SF	827-9351	State NM - RCB

Chairman opened with recap of purpose of meeting - how to assign block of 800 frequencies in all services - fire, Highway, etc.; discussion of plan from Florida meeting and NPS Plan for 800.

Request for draft letters - no drafts submitted as per request last meeting.

APCO printout list received - all public service users in New Mexico, total of 404. Must notify all to join in planning (including bus systems).

Need to work on rough draft - GE will pay for postage.

Important that committee be formed - subregions should have subcommittees - to write up plan. Decide how often to attend meetings.

Draft will spell out to users their one and only chance to get on committee - if not, will have to take what's left.

Each part of state should be represented. Las Cruces and Alamogordo are interested. LC may work with El Paso, Tx. Santa Fe will probably put out draft.

Florida meeting had representatives from other states - FCC having problems with Canada/Mexico borders.

Chairman expected to have FCC video for meeting - to clarify questions, etc., but it was not received in time. (Committee of all public safety users - FCC approved (??))

How many UHF used in state - how many left? Would help in determining necessity.

New Mexico does not need block now - but for future. No VHF, Fire, Local, Police or Highway in Albuquerque Valley. Must share, with least amount of interference.

Plan must state jurisdictions covered, standards, antenna patterns, etc. Will be very expensive system.

Funds provided? Nothing from state. Will have to use telephone - computer to keep in touch. No Federal funds. Will use conference calls. Should be in state budget but too late for this Legislature - no grant money.

(Dallas has Council of Governments to help pay expenses.)

Still need drafts for letter - will call each for input and request that individuals be assigned to committee.

Chairman read the Arizona draft which includes questionnaire.

May set up annual fee of \$400 to support on-going technical committee to monitor frequencies used in the state.

FEMA not represented - but should be included and may be a source of funds.

Difficult to get Governor's approval because of political ramifications.

In order to get list of communications officers in the state, Santa Fe will cross-reference license lists to find signatures.

GE mailouts - has contacts with cities, counties, etc.

It was decided that no meeting would be held in March. Will read draft over the telephone, then mail and plan meeting in April. Responses will have 30-day deadline; if none, how strongly should they be contacted a second time?

Plan on setting up subcommittees on technical standards, etc.

Will give second chance, then will make decisions - maybe send letter to mayors also.

Next meeting set for April 14, 1988.

If state goes to 800 (including Feds), may use new application, possibly Local Govt changeover. Possibility of grant money through special fund? SFPD only has 800 at this time, but may become citywide eventually.



STATE OF NEW MEXICO

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**GARREY CARRUTHERS**  
GOVERNOR

**Tom Thornhill**  
SECRETARY

**Johnny A. Taylor**  
DEPUTY SECRETARY

M E M O R A N D U M

TO: Tom Thornhill, Secretary, GSD  
THROUGH: William C. Dwire, Bureau Chief, RCB  
FROM: Gerald Ralston, Director, ISD  
SUBJECT: APCO National Public Safety Communications Plan  
New Mexico Region (29) Planning  
DATE: February 23, 1988

The Federal Communications Commission (FCC) has issued a Report and Order in General Docket No. 87-112 establishing a National Plan which specifies special policies and procedures governing the Public Safety Radio Services and the Special Emergency Radio Service.

New Mexico Region (29) was established by this Report and Order.

Each Region is to organize a planning committee with members from all Public Safety Radio Services and the Special Emergency Radio Service. These services include the Local Government Radio Service, Police Radio Service, Fire Radio Service, Highway Maintenance Radio Service, Forestry-Conservation Radio Service, Special Emergency Radio Service/EMS.

New Mexico Region is well under way in organizing their planning committee with meetings held in January and February.

The committee needs complete backing from State Governments, therefor they are asking for your sincere support of their planning effort to secure adequate frequency spectrum for future Public Safety Communications needs.