



POCKET FILE COPY ORIGINAL RECEIVED

FEB - 5 1998

FCC MAIL ROOM

North Carolina Department of Crime Control and Public Safety  
Division of State Highway Patrol

James B. Hunt Jr., Governor  
Richard H. Moore, Secretary

January 29, 1998

E. W. Horton, Colonel

Federal Communications Commission  
Office of the Secretary  
1919 M Street, N.W., Room 8010  
Washington, DC 20554

RE: Request To Modify The Region 31 Plan - **PR Docket # 93-150**

Enclosed is an original and 5 copies of a revised Region 31 Plan. The Region 31 committee requested APCO to perform a repack of the frequencies in order to better utilize the channels and still conform to the guidelines of the NPSPAC assignments. The repack is included in the enclosed revised plan.

The Region 31 Committee respectfully request the FCC process this request for modification so that we can better utilize the spectrum that has been made available to Public Safety.

Should you have questions, please call me at 919-733-7956 or contact me via email at [hmeacombs@ncshp.org](mailto:hmeacombs@ncshp.org).

Sincerely,

Harold Meacombs, Region 31 Chairman  
NC Highway Patrol  
1300 Blue Ridge Road  
Raleigh, NC 27607

HM:gcs

cc: Joy Alford, FCC  
APCO AFC  
Carl Vancott, Region 31 Secretary  
Dyke Hostettler, NC APCO Frequency Advisor  
Richard Roley, Region 10 Chairman  
Boykin Roseborough, Region 37 Chairman  
Ron Farris, Region 39 Chairman  
David Warner, Region 42 Chairman

No. of Copies rec'd  
List ABCDE

*045*

**RECEIVED**

FEB - 5 1998

**FCC MAIL ROOM**

**FCC REGION 31  
800 MHz REGIONAL  
PUBLIC SAFETY NATIONAL PLAN  
(821-824/866-869 MHz)**

**NORTH CAROLINA**

**REVISED**  
November 20, 1997

**D - R - A - F - T**

Mr. Harold Meacombs, Chairman  
North Carolina Highway Patrol  
1300 Blue Ridge Road  
Raleigh, North Carolina 27607  
Telephone: (919) 733-7956

# TABLE OF CONTENTS

<b>1 PREFACE .....</b>	<b>6</b>
<b>2 METHODOLOGY FOR PLAN DEVELOPMENT.....</b>	<b>6</b>
<b>3 INTRODUCTION .....</b>	<b>7</b>
<b>4 COMMITTEE PURPOSE.....</b>	<b>8</b>
<b>5 AUTHORITY.....</b>	<b>8</b>
<b>6 FORMATION AND DISCHARGE OF REGIONAL COMMITTEE .....</b>	<b>8</b>
<b>7 INITIAL MEMBERSHIP .....</b>	<b>9</b>
<b>8 PRELIMINARY ORGANIZATION .....</b>	<b>9</b>
<b>9 ELECTION OFFICERS .....</b>	<b>10</b>
<b>10 STRUCTURE OF REGIONAL PLANNING COMMITTEE .....</b>	<b>10</b>
<b>11 EXECUTIVE COMMITTEE.....</b>	<b>10</b>
<b>12 DUTIES AND RESPONSIBILITIES OF THE EXECUTIVE COMMITTEE.....</b>	<b>10</b>
<b>13 CHAIRMAN .....</b>	<b>10</b>
<b>14 VICE CHAIRMAN .....</b>	<b>11</b>
<b>15 SECRETARY/TREASURER .....</b>	<b>11</b>
<b>16 MEMBERSHIP SECRETARY .....</b>	<b>11</b>
<b>17 ADMINISTRATIVE SUBCOMMITTEE CHAIRMAN .....</b>	<b>12</b>
<b>18 TECHNICAL SUBCOMMITTEE CHAIRMAN.....</b>	<b>12</b>
<b>19 GEOGRAPHIC SUBCOMMITTEE CHAIRMEN .....</b>	<b>12</b>
<b>20 QUORUM.....</b>	<b>13</b>

<b>21 MAJORITY .....</b>	<b>13</b>
<b>22 PROXY VOTING .....</b>	<b>13</b>
<b>23 DISSOLUTION OF COMMITTEE.....</b>	<b>13</b>
<b>24 MEMBERSHIP QUALIFICATIONS .....</b>	<b>13</b>
<b>25 MEMBERSHIP APPLICATION PROCESS.....</b>	<b>13</b>
<b>26 EASTERN SUB-REGIONAL GEOGRAPHIC COMMITTEE COUNTIES .....</b>	<b>14</b>
<b>27 CENTRAL SUB-REGIONAL GEOGRAPHIC COMMITTEE COUNTIES .....</b>	<b>14</b>
<b>28 WESTERN SUB-REGIONAL GEOGRAPHIC COMMITTEE COUNTIES.....</b>	<b>14</b>
<b>29 CLASSIFICATION OF REGIONAL COMMITTEE MEMBERS.....</b>	<b>14</b>
<b>30 CHANGE IN MEMBERSHIP CLASSIFICATION.....</b>	<b>15</b>
<b>31 ADMINISTRATIVE FEES.....</b>	<b>15</b>
<b>32 VOTING .....</b>	<b>15</b>
<b>33 OFFICIAL VOTE.....</b>	<b>15</b>
<b>34 OFFICIAL VOTING MEMBER .....</b>	<b>15</b>
<b>35 VOTING PROVISIONS .....</b>	<b>15</b>
<b>36 RULES FOR CONDUCT OF BUSINESS.....</b>	<b>16</b>
<b>37 FISCAL YEAR .....</b>	<b>16</b>
<b>38 OPEN MEETINGS .....</b>	<b>16</b>
<b>39 CLOSED MEETINGS.....</b>	<b>16</b>
<b>40 NOTIFICATION OF MEETING.....</b>	<b>16</b>
<b>41 MINUTES.....</b>	<b>16</b>

<b>42 ELECTION OFFICERS .....</b>	<b>16</b>
<b>43 TERM OFFICE.....</b>	<b>16</b>
<b>44 TECHNICAL REGIONAL PLAN REQUIREMENTS.....</b>	<b>17</b>
<b>45 APCO FREQUENCY SORTING PROGRAM.....</b>	<b>17</b>
<b>46 PROGRAM PATH .....</b>	<b>18</b>
<b>47 FUTURE CHANGES AND ADDITIONS TO A REGIONAL PLAN PACKING .....</b>	<b>18</b>
<b>48 SPECTRUM UTILIZATION .....</b>	<b>19</b>
<b>49 COORDINATION APPLICATION FORMS .....</b>	<b>20</b>
<b>50 FREQUENCY APPLICATION PROCESS .....</b>	<b>20</b>
<b>51 APPEAL PROCESS .....</b>	<b>21</b>
<b>52 COMMON CHANNEL IMPLEMENTATION .....</b>	<b>21</b>
<b>53 MUTUAL AID CHANNEL UTILIZATION.....</b>	<b>21</b>
<b>54 INTEROPERABILITY - COMMON CHANNEL IMPLEMENTATION .....</b>	<b>22</b>
<b>55 STANDARD SUBAUDIBLE CONTINUOUS TONE SQUELCH.....</b>	<b>22</b>
<b>56 SECONDARY USERS .....</b>	<b>22</b>
<b>57 OPERATING PROCEDURES ON THE COMMON CHANNELS .....</b>	<b>23</b>
<b>58 OPERATING PROCEDURES .....</b>	<b>23</b>
<b>59 NETWORK OPERATING METHODS.....</b>	<b>23</b>
<b>60 LONG-RANGE COMMUNICATIONS.....</b>	<b>24</b>
<b>61 FREQUENCY GIVE-BACK AND REASSIGNMENT .....</b>	<b>24</b>
<b>62 EXPANSION OF EXISTING SYSTEMS.....</b>	<b>24</b>

63 SLOW GROWTH ENTITIES ..... 25

64 TELEPHONE INTERCONNECT ..... 25

65 UHF TELEVISION SHARING ..... 25

66 FREQUENCY ALLOCATION PROCESS GUIDELINES ..... 25

67 FREQUENCY ALLOCATION PROCESS ..... 25

68 NORTH CAROLINA COUNTIES RANKING ..... 26

69 NORTH CAROLINA COUNTIES RANK ORDERING ..... 27

70 REGION-31 PRIORITY SORTING TABLE ..... 32

71 STATE OF NORTH CAROLINA STATEWIDE INTERAGENCY SITE LOCATIONS ... 33

72 CHANNEL LISTING BY LOCATION ..... 36

73 LISTING BY CHANNEL NUMBER ..... 42

74 GLOSSARY ..... 67

75 CHECK LIST OF TECHNICAL REGIONAL PLAN REQUIREMENTS ..... 68

76 NAMES OF EXECUTIVE SUBCOMMITTEE..... 69

77 NAMES OF ADMINISTRATIVE SUBCOMMITTEE..... 69

78 NAMES OF TECHNICAL SUBCOMMITTEE ..... 70

79 NAMES AND ADDRESSES OF REGIONAL PLANNING COMMITTEE..... 71

80 REFERENCED DOCUMENTS..... 73

**FCC REGION 31  
800 MHz REGIONAL  
PUBLIC SAFETY NATIONAL PLAN  
(821-824/866-869 MHz)**

**NORTH CAROLINA**

**1 PREFACE**

- 1.1 This document is the **REVISED** FCC Region 31 North Carolina Regional 800 MHz Communications Plan. The document was developed by the members of the North Carolina Regional Communications Planning Committee (NCRPC) through participation in the committee and subcommittee meetings conducted since the formation of the Committee on February 21, 1989. The document has undergone several revisions since the inception of the document. The document was previously submitted to the Federal Communications Commission in November of 1991. This November 20, 1997 document replaces the previous plan accepted by the FCC dated March 9, 1993 under PR Docket 93-150.
- 1.2 Sections 1.0 (Preface) through 43.0 (Term office) were the responsibility of the Administrative Subcommittee which served as the original writing group for these sections. Sections 44.0 (Technical Regional Plan Requirements) through 72.0 (Use of Planning Cells for Determination of Allocations in 800 MHz) was the responsibility of the Technical Subcommittee which functioned as the writing group for these sections.
- 1.3 The technical sections have been revised to accommodate the Federal Communications Commissions requirement that the 800 MHz frequencies be packed by the Associated Public-Safety Communications Officers, Inc. (APCO), which serves as the frequency coordinator for the 800 MHz spectrum.

**2 METHODOLOGY FOR PLAN DEVELOPMENT**

- 2.1 This document has evolved through the continued efforts of the two writing group subcommittees refining their respective sections of the document. Through dissemination and discussion of the draft documents, further comment and input was solicited from all interested individuals and agencies.
- 2.2 All comments or recommendations received have been incorporated into this current document. Any further requests for change in the plan must be specific and clearly referenced to a paragraph number in this document. Comments must include specific recommendations and rationale for change or refinement and include the exact text of how a section should be worded or changed.
- 2.3 Any recommendation for inclusion of new sections must be provided with instructions showing where the new text should be inserted in the plan. The respective responsible

subcommittee will review each recommendation for change or addition and will incorporate the content as recommended or as acted upon by the subcommittee.

- 2.4 Both the technical and the administrative plan sections are complete and the Subcommittee Chairmen of both subcommittees have recommended to the Chairman of the Planning Committee that the plan be submitted.

### 3 INTRODUCTION

- 3.1 In December 1983, the United States Congress directed the Federal Communications Commission (FCC) to establish a plan that would ensure the communications needs of state and local public safety authorities would be met. By Notice of Inquiry, over 300 comments were received and evaluated by the Commission. This resulted in the recognition of public safety agency needs and the subsequent allocation of an additional 6 megahertz of radio spectrum for public safety use nationwide. The FCC additionally recognized the necessity of developing a National Plan to promote interoperability among public safety providers and to insure an efficient use of the newly allocated spectrum.
- 3.2 Recognizing the importance of the public safety agencies participation in the development of the National Plan, the FCC established the National Public Safety Planning Advisory Committee (NPSPAC). With open membership, NPSPAC provided the 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.
- 3.3 After consideration of NPSPAC's Final Report and comments filed in FCC Docket No. 87-112, the FCC issued a Report and Order on December 18, 1987. By this Commission action the FCC adopted policies, procedures and rules that constitute a national plan for public safety services. In particular the Commission adopted service rules and technical standards for the 821-824/866-869 MHz bands, which the Commission allocated for public safety use in an order adopted July 24, 1986. Included within the Report and Order are the requirements for the structure of the National Plan and guidelines for the development of regional plans.
- 3.4 The National Plan reflects the FCC's regulatory objective of maximizing spectrum efficiency and ensuring sufficient flexibility to accommodate specific communications requirements in different areas of the United States. The National Plan serves as an umbrella document under which regional plans can be developed and implemented.
- 3.5 When the Federal Communications Commission announced the 800 MHz allocation of reserve radio frequencies to Public Safety Radio Services and Special Emergency Radio Services (SERS) in July 1986, they mandated that a National Plan outlining the use of public safety radio frequencies be in place before any agency would receive channels from this new allocation. As part of this mandate, Regional Plans conforming to the National Plan were to be developed.
- 3.6 A Regional Plan for 800 MHz radio spectrum usage by public safety agencies in the North Carolina Region is to be written by the North Carolina Regional Planning Committee.
- 3.7 This group, representing a cross-section of Public Safety and Special Emergency Radio Service radio users in North Carolina has among its members, the North Carolina APCO

frequency advisors, as well as members from the categories of eligible radio users of the 800 MHz reserve spectrum.

#### **4 COMMITTEE PURPOSE**

- 4.1 The purpose of the North Carolina 800 MHz Regional Planning Committee is to provide the forum and management mechanism to organize, develop, refine, and submit to the Federal Communications Commission, an approveable plan for utilization of the 6 MHz of 800 MHz radio spectrum designated by the FCC for Public Safety and Special Emergency Radio Service usage within North Carolina FCC Region 31 and to serve as the contact point for North Carolina with adjacent FCC Planning Regions, the Federal Communications Commission and such other organizations as may be required for future plan revision.

#### **5 AUTHORITY**

- 5.1 Authority for the Regional Planning Committee to carry out its stated purpose and tasks is derived from the Federal Communications Commission Report and Order, Docket 87-112. Participants in the formation of the Regional Planning Committee represent interested parties from both the Public Safety and the Special Emergency Radio Services.
- 5.2 Principles Governing the procedures for the development and adoption of the North Carolina 800 MHz Plan.
- 5.3 The Federal Communications Commission empowered the formation of the Regional Plan by adoption of the Final Report and Order, FCC Docket 87-112. The North Carolina Regional Plan Steering committee has adopted a policy of voluntary participation in the original formation of the Planning Committee in accordance with the following principles:
- 5.4 Timely and adequate notice of all persons likely to be affected by the plan, or known to have active interest in the plans formation.
- 5.5 Opportunity for all affected interests to participate in the deliberations, discussions, and decisions concerned both with the procedural and substantive matters affecting the proposed plan.
- 5.6 Maintenance of adequate records of discussions, decisions, and technical data accumulated during the plans development.
- 5.7 Timely publication and distribution of minutes of meetings of the Regional Planning Committee and its Subcommittees.
- 5.8 Maintenance of records official drafts of the proposed plan, proposed amendments, action on amendments, and final promulgation of the 800 MHz Regional Plan.

#### **6 FORMATION AND DISCHARGE OF REGIONAL COMMITTEE**

- 6.1 OFFICIAL NAME - The Official Name of the committee is:

The FCC Region 31 - North Carolina Regional Communications Planning Committee  
(NCRPC)

## 6.2 ESTABLISHMENT

Acting under the directive of the Federal Communications Commission, the Associated Public-Safety Communications Officers, Inc. (APCO) identified Mr. Sanford Smith as the Official Convener for the North Carolina (Region 31) Planning Region. In the capacity of convener, Mr. Smith with the assistance of an ad hoc planning committee convened the first official meeting of the committee in the Blueroom of the Greensboro Coliseum on February 21, 1989. The following individuals attended the first official meeting:

Sanford Smith, Convener	City of Greensboro
Don Mabe	Forsyth County Fire Department
Marvin S. Heller	Raleigh-Wake County EOC
Jeff Pegram	NC State Office of EMS
Edward Rankin	Durham Police Department
Cliff Link	City of Charlotte
Carl C. Van Cott	NC State Office of EMS
Harold Meacombs	NC State Highway Patrol
Max Bloodworth	NC State Highway Patrol
Max Hopper	Motorola, Inc.
Billy Vass	City of High Point
L. Richard Nifong	City of High Point
John C. Trail	City of Charlotte
Marcia Simmons	Charlotte Fire Department
Lonnie J. Blake	Charlotte Police Department
Warren Eib, Jr.	RAM Communications Consultants, Inc.
Jon D. Jarvis	Winston Salem Police Department
Ed Howard	C.T.A., Inc.
Don Beuerle	C.T.A., Inc.
T. C. Lemonds	Greensboro Fire Department
R. E. Marine, Jr.	Greensboro Police Department
Larry L. Thomas	Guilford County EMS
Donna L. Langley	General Electric Mobile Radio
Danny Hickman	Wilson County Communications
Bill Fivek	Motorola, Inc.
Larry Simmons	Motorola, Inc.

## 7 INITIAL MEMBERSHIP

- 7.1 The initial membership of the North Carolina Regional Planning Committee was established at the time of the first convened official meeting of the committee and includes those persons listed above. Additional membership shall consist of those persons completing and submitting a membership application to the membership secretary.

## 8 PRELIMINARY ORGANIZATION

- 8.1 The official membership of the Regional Planning Committee shall consist of voluntary planning participant members from public safety or local government agencies eligible to license and operate in the new Public Safety and Special Emergency Radio Service bands of 821-824/866-869 MHz. Other individuals which have an expressed interest in the use of the radio spectrum, but are not eligible to license in the service, may serve on the planning committee, but may not vote on official actions of the committee.

**9 ELECTION OFFICERS**

9.1 Officers for the North Carolina Regional Planning Committee shall be elected by the initial membership at the first convened official meeting of the committee.

**10 STRUCTURE OF REGIONAL PLANNING COMMITTEE**

10.1 The Regional Planning Committee shall be administered by an Executive Committee and five operating subcommittees identified as the Administration Subcommittee; the Technical Subcommittee; the Western Geographic Subcommittee; the Central Geographic Subcommittee; and, the Eastern Geographic Subcommittee. All Executive members shall be full voting members of the Regional Planning Committee.

10.2 Subcommittee Assignments - Every member of the Regional Planning Committee shall be assigned by the Membership Secretary to one of the identified subcommittees upon joining the Regional Planning Committee.

**11 EXECUTIVE COMMITTEE**

11.1 The Executive Committee shall be comprised of the: Chairman; Vice-Chairman; Secretary/Treasurer; Membership Secretary; Administrative Subcommittee Chairman; Technical Subcommittee Chairman; Eastern Subcommittee Chairman; Central Subcommittee Chairman; and, the Western Subcommittee Chairman.

**12 DUTIES AND RESPONSIBILITIES OF THE EXECUTIVE COMMITTEE**

12.1 The Executive Committee shall be responsible for the administration of the Regional Committee in directing the development of the North Carolina 800 MHz Regional Plan.

**13 CHAIRMAN**

13.1 The Chairman shall be elected by the membership of the Regional Planning Committee during a duly called meeting.

13.2 The duties and responsibilities of the Chairman are as follows:

13.2.1 Scheduling, Calling and Chairing meetings of the Executive Committee;

13.2.2 Scheduling, Calling and Chairing meetings of the Regional 800 MHz Regional Planning Committee;

13.2.3 Overseeing the direction of the regional plan development activities of the Regional Planning Committee;

13.2.4 Appointing subcommittee chairmen for conformation by the Executive Committee;

13.2.5 Naming of nominating committees;

13.2.6 Serving as the point of contact for the committee and handling correspondence for the regional planning committee;

13.2.7 Conveyance of the final developed Regional Plan to the Federal Communications Commission.

13.3 The Chairman may be removed from office by majority vote of the membership of the planning committee during a duly called meeting.

#### 14 **VICE CHAIRMAN**

14.1 The Vice Chairman shall be elected by the membership of the Regional Planning Committee during a duly called meeting.

14.2 The duties and responsibilities of the Vice Chairman are as follows:

14.2.1 Assist the Chairman to conduct the business of the Regional Planning Committee;

14.2.2 Serve as replacement should the Chairman be unable to attend meetings or complete his responsibilities as Chairman, until a new Chairman can be elected.

14.3 The Vice Chairman may be removed from office by majority vote of the membership of the Planning Committee during a duly called meeting.

#### 15 **SECRETARY/TREASURER**

15.1 The Secretary/Treasurer is elected by the membership of the Regional Planning Committee during a duly called meeting.

15.2 Duties of the Secretary/Treasurer

15.2.1 Maintain the official meeting minutes of the Executive Council Meetings and Regional Planning Meetings.

15.2.2 Maintain the minutes and other business documents of the Planning Committee.

15.2.3 Maintain the financial records and bank accounts of the Committee and make financial disbursements as directed by the Executive Committee.

15.3 The Secretary/Treasurer may be removed from office by majority vote of the membership of the Planning Committee during a duly called meeting.

#### 16 **MEMBERSHIP SECRETARY**

16.1 The Membership Secretary is elected by the membership of the Regional Planning Committee.

16.2 Duties of the Membership Secretary

16.2.1 Receive and process applications for membership in the Regional Committee;

16.2.2 Maintain the official membership roster of the Regional Planning Committee and determine applicant members classification;

- 16.2.3 Assign new members to operational subcommittees and orientate new members to the activity of the subcommittee;
- 16.2.4 Take attendance at each official meeting and incorporate the attendance listing into the official meeting minutes.
- 16.3 The Membership Secretary may be removed from office by majority vote of the membership of the Planning Committee during a duly called meeting.

**17 ADMINISTRATIVE SUBCOMMITTEE CHAIRMAN**

- 17.1 The Administrative Subcommittee Chairman shall be appointed by the Regional Planning Committee Chairman and be confirmed by majority vote of the Executive Committee.
- 17.2 Duties of the Administrative Subcommittee Chairman:
  - 17.2.1 The Administrative Subcommittee Chairman shall chair the meetings of the Administrative Subcommittee and direct the development of the administrative, procedural and financial portions of the Regional Plan.
- 17.3 The Administrative Subcommittee Chairman may be removed from office by majority vote of the Executive Committee during a duly called meeting.

**18 TECHNICAL SUBCOMMITTEE CHAIRMAN**

- 18.1 The Technical Subcommittee Chairman shall be appointed by the Regional Planning Committee Chairman and confirmed by majority vote of the Executive Committee.
- 18.2 The Technical Subcommittee Chairman shall be qualified by education and experience to serve as the engineering and technical advisor to the Regional Planning Committee.
- 18.3 Duties of the Technical Subcommittee Chairman
  - 18.3.1 The Technical Subcommittee Chairman shall chair the meetings of the Technical Subcommittee and be responsible for directing the development of the frequency allocations, engineering aspects and technical content of the Regional Plan.
  - 18.3.2 The Technical Subcommittee Chairman may be removed from office by a majority vote of the Executive Committee during a duly called meeting.

**19 GEOGRAPHIC SUBCOMMITTEE CHAIRMEN**

- 19.1 The Geographic Subcommittee Chairmen shall be appointed by the Regional Planning Committee Chairman and be confirmed by majority vote of the Executive Committee.
- 19.2 Each Geographic Subcommittee Chairman shall reside within the geographic region which he represents.
- 19.3 Duties of the Geographic Subcommittee Chairmen
  - 19.3.1 The Geographic Subcommittee Chairmen shall serve as the primary point of contact for the Regional Planning Committee within their respective geographic region. The Geographic

Subcommittee Chairmen shall serve on the Executive Committee and represent their respective geographic region on the Executive Committee and during formulation of the North Carolina Regional Plan.

- 19.4 The Geographic Subcommittee Chairmen may be removed from office by majority vote of the Executive Committee during a duly called meeting.

## 20 **QUORUM**

- 20.1 A quorum of the Regional Planning Committee shall consist of the members present at any given duly called meeting.

## 21 **MAJORITY**

- 21.1 During a duly called meeting a majority shall consist of 51 percent (51%) of the members present and voting.

## 22 **PROXY VOTING**

- 22.1 An official voting Planning Committee member may transfer his vote by writing to the Membership Secretary and designating an individual to act as a proxy. An individual may not hold nor exercise proxies for more than one member in any committee or subcommittee. The one man, one vote precept shall prevail.

## 23 **DISSOLUTION OF COMMITTEE**

- 23.1 Upon dissolution of the North Carolina Regional Communications Planning Committee, all assets shall be distributed for one or more exempt purposes within the Internal Revenue Code, or corresponding section of any future Federal tax code, or shall be distributed to the Federal Government, or to the State or local government for a public purpose.

## 24 **MEMBERSHIP QUALIFICATIONS**

- 24.1 Any entity agency or subagency chartered in North Carolina which is eligible to be licensed under subparts B or C of FCC Rules Part 90. Each agency or subagency of a governmental entity which is entitled to hold a license in one or more of the radio services shall be considered to be a separate entity up to a maximum of one agency or subagency for each radio service. For example, a City could have separate entities for local government, police, fire, highway maintenance, forestry and special emergency.

## 25 **MEMBERSHIP APPLICATION PROCESS**

- 25.1 All individuals desiring to be routinely informed of the activities of the Committee shall request membership in the committee by completion of a membership application form. The application form with any required administrative fees shall be submitted to the Membership Secretary of the Regional Planning Committee. The Membership Secretary shall review the application and make recommendation to the Chairman for acceptance or rejection of the application.
- 25.2 Individuals are not eligible to be Official Voting Members. Official Voting Membership shall be reserved to governmental agencies, organizations, or corporations chartered in North

Carolina and eligible to hold radio license in the Public Safety or Special Emergency Radio Service.

- 25.3 Any agency desiring to be identified as an Official Voting Member Agency of the NCRPC shall complete an application form and submit with any required administrative fees to the Membership Secretary of the Regional Planning Committee. The application shall clearly designate the name of the person that will serve as the point of contact for the agency, and be responsible for voting on behalf of the agency. The Membership Secretary shall review the application and make recommendation to the Chairman for acceptance or rejection of the application.
- 25.4 The Chairman shall acknowledge by letter the acceptance or rejection of the applicant agency as a voting member of the NCRPC. If the application is rejected, the Chairman shall notify the applicant of the reason for the rejection.
- 25.5 Committee members and member agencies are responsible for providing to the Membership Secretary any updated information concerning changes in agency name, address, telephone number, changes in employment status, or changes in naming the official representative to the NCRPC.

## **26 EASTERN SUB-REGIONAL GEOGRAPHIC COMMITTEE COUNTIES**

- 26.1 Brunswick; Columbus; New Hanover; Pender; Carteret; Craven; Duplin; Green; Jones; Lenoir; Onslow; Pamlico; Wayne; Beaufort; Bertie; Hertford; Martin; Pitt; Camden; Chowan; Currituck; Dare; Gates; Hyde; Pasquotank; Perquimans; Tyrrell; Northampton; Halifax; Nash; Edgecombe; Wilson; and, Washington.

## **27 CENTRAL SUB-REGIONAL GEOGRAPHIC COMMITTEE COUNTIES**

- 27.1 Alamance; Caswell; Guilford; Randolph; Rockingham; Davidson; Anson; Montgomery; Moore; Richmond; Davie; Forsyth; Stokes; Surry; Yadkin; Chatham; Durham; Lee; Orange; Wake; Franklin; Granville; Person; Vance; Warren; Cumberland; Harnett; Sampson; Bladen; Hoke; Robeson; and, Scotland.

## **28 WESTERN SUB-REGIONAL GEOGRAPHIC COMMITTEE COUNTIES**

- 28.1 Cherokee; Clay; Graham; Haywood; Jackson; Macon; Swain; Buncombe; Henderson; Madison; Transylvania; Cleveland; McDowell; Polk; Rutherford; Alleghany; Ashe; Avery; Mitchell; Watauga; Wilkes; Yancey; Alexander; Burke; Caldwell; Catawba; Cabarrus; Gaston; Iredell; Lincoln; Mecklenburg; Rowan; Stanly; and, Union.

## **29 CLASSIFICATION OF REGIONAL COMMITTEE MEMBERS**

- 29.1 Government Members - An individual who is employed by a government entity, agency or subagency which satisfies criteria of membership qualification shown above. A person who serves in a voluntary capacity of an agency which operates under provisions of the Federal Communications Commission Rules designated under membership qualifications shall be considered a government member.
- 29.2 Commercial Members - An individual who is an employee of a company which designs, manufacturers, sells, services, maintains, leases, rents or provides consulting services for profit by the development, implementation, operation or training of personnel systems or

equipment utilized by eligible members described in membership qualifications listed above.

- 29.3 Affiliate Members - An individual or agency interested in participating but not eligible for membership as described in membership qualifications.

### 30 **CHANGE IN MEMBERSHIP CLASSIFICATION**

- 30.1 A member who has a change in employment which would affect membership classification shall so inform the membership secretary in writing on letterhead stationery of the new agency or subagency. The Membership Secretary shall assign the individual to the member classification in accordance with the change of employment.

### 31 **ADMINISTRATIVE FEES**

- 31.1 The Executive Committee may establish a nominal fee structure to defray the costs for printing, copying, mailing, distribution and other administrative costs associated with the development of the plan.
- 31.2 Administrative fees shall be uniformly applied and collected from all agencies or members.

### 32 **VOTING**

- 32.1 All Planning Committee members are entitled to vote on administrative matters such as election officers, committee administrative procedures, committee bylaws and determination of when formal balloting of the plan documents are required. All members of the Planning Committee may additionally comment on Committee or Subcommittee ballot items or actions and may participate in reviewing actions such as official voting.

### 33 **OFFICIAL VOTE**

- 33.1 Only the ballots and votes of designated Agency Official Voting members shall be counted in the official vote on Planning Committee ballot actions. Each member organization shall clearly indicate the name of its Official Voting Member.

### 34 **OFFICIAL VOTING MEMBER**

- 34.1 Official Voting Membership shall be limited to agencies that are eligible to hold radio license in the 800 MHz band or the Public Safety Radio Service or Special Emergency Radio Service under FCC Part 90 Rules and Regulations.
- 34.2 Each eligible membership agency shall, at the time of its original application for membership, designate to the Membership Secretary the official point of contact for that organization and the person responsible for casting the Official Vote of the member agency.

### 35 **VOTING PROVISIONS**

- 35.1 For official balloted items, only one voting member shall be designated for each member agency or organization. The voting member may be changed by written notification of the Membership Secretary. All such notifications of change in name of voting member shall be received at least seven days prior to any official ballot by the Regional Planning Committee. All changes shall be confirmed in writing to the Membership Secretary.

36 **RULES FOR CONDUCT OF BUSINESS**

36.1 Meetings shall be governed by "Robert's Rules of Order"

37 **FISCAL YEAR**

37.1 The Fiscal Year for the NCRPC shall begin January 1 and end December 31.

38 **OPEN MEETINGS**

38.1 The meetings of committees and subcommittees shall be open to all parties having an interest in the activities of the planning committee.

39 **CLOSED MEETINGS**

39.1 It is permissible to hold closed meetings of the Executive Committee when technical matters relating to the development of the Regional Plan are not discussed.

40 **NOTIFICATION OF MEETING**

40.1 Members of committees and subcommittees shall receive written notifications of all NCRPC meetings no later than one week prior to any called meeting date. Notification of unscheduled meetings may be made by telephone no less than one week prior to the meeting.

41 **MINUTES**

41.1 Minutes of all committee and subcommittee meetings shall be taken and copies shall be sent to the Secretary/Treasurer of the Regional Planning Committee for retention. Minutes of all Regional Planning Committee meetings shall be provided to all members of record at the time of the meeting.

42 **ELECTION OFFICERS**

42.1 The Regional Planning Committee shall elect a Chairman, Vice-Chairman, Secretary/Treasurer and Membership Secretary, by ballot conducted at the first Formal Organization of Regional Planning Committee meeting. A slate of nominees shall be placed in nomination to the Regional Convener by the Nominating Committee of the Steering Committee. The Regional Convener shall additionally call for nominations from the floor. All nominees for any office shall have at the time of the election a written statement from their employer organization or agency that the individual has the official sponsorship of the employing agency, and will be permitted to devote adequate time, effort and resources on the project as necessary to satisfactorily accomplish the development of the Regional Plan.

43 **TERM OFFICE**

43.1 The initial term office shall be two years beginning January 1, or upon election in the first year, and terminating December 31, of the second year. Each Regional Planning Committee Officer shall serve a normal term office or until a replacement is elected or named to the office.

- 43.2 Each Regional Planning Committee officer shall be eligible to succeed himself for one additional term.
- 43.3 After the initial term office, elections shall be held for Chairman and Secretary/Treasurer in each odd numbered year. After the initial term office, elections shall be held in each even numbered year for Vice-Chairman and Membership Secretary.
- 43.4 Elections shall be from a slate of nominees selected from the members of record named by a three member nominating committee appointed by the Chairman.
- 43.5 The names of the nominating committee shall be made public by the Chairman at least one month prior to any election.
- 43.6 Persons interested in holding office in the Regional Planning Committee shall contact the nominating committee making their interest known and providing the official endorsement of their employing agency.
- 43.7 All candidates for office shall provide a written statement from their employer indicating the individual has the official sponsorship of the employing agency and will be permitted to devote the time, effort and resources necessary to satisfactorily accomplish the objectives and duties of the chosen office.

#### 44 TECHNICAL REGIONAL PLAN REQUIREMENTS

##### 44.1 APCO FREQUENCY SORTING PROGRAM

The APCO frequency packing programs are a series of programs that create an allocation table of frequencies usable within an area based on certain distance separation rules. These separation rules are an approximation of several engineering principles which dictate the necessary separation between co channel and adjacent channels stations in "real world" environments.

- 44.2 The methodology itself is not an engineering program but a planning tool used in the allotment of channels in accordance with the national NPSPAC plan and the 55 regional plans resulting from same.
- 44.3 Certain assumptions are made in the execution of the program. These are the probable 40/5dbu separation for co-channel allotments, the 40/20 dBu separation for adjacent channels and the fact that the 800 MHz environment is quite favorable for the use of transmitter combiners, antennas with specific highly directional patterns, and the use of simulcast for systems required to cover an area larger than (typical) 15 miles in a base-to-mobile configuration and 8 miles in radius in Base/Portable configuration.
- 44.4 Differences in terrain, anomalies in coverage, and other factors in the "real world" dictate accommodation in this or any other RF planning process. in the case of NPSPAC planning regions this can be accommodated in advance of the packing process by indicating those sites and geo-political areas that have sites with exceptional coverage (due to height advantage or other anomaly). These sites are then placed in the data file with coverage radius's much larger than indicated above to reflect the actual environment.

- 44.5 Other anomalies found after the packing process is complete such as high signal level coverage within an urban area are accommodated through design of a system intentionally protecting co and adjacent channel users (potential or planned).
- 44.6 The method used in determining an allotment of a channel is to analyze both the co channel and adjacent channel distances relative to the project coverage areas for each site in a new system.
- 44.7 The decision to allot a channel to a geographic area is through a formula solution ( $D/R$ ) where  $D$  must equal at least 5 times the larger radius ( $R$ ) of coverage plus one times the smaller radius of coverage, the subject coverage specified is the 40 dbu coverage contour.
- 44.8 Co-channel assignments must meet a  $D/R$  of 5.0 or greater in order to be considered allottable. Adjacent channel assignments must meet a 3.5 ratio for acceptability.

#### **45 PROGRAM PATH**

- 45.1 The program process begins with the creation of a "circulation" file by the National APCO office. This file is created by the ATLAS GRAPHICS (TM) program. These files are then managed by a program to create a flat file containing anywhere from one to a hundred entries representing a geo-political area.
- 45.2 This data is then developed into separate files containing a "request" criteria of one to several circles (Lat/Long/Radius). A separate file is generated containing the name of each of the requester files and the number of channels to be located for each area. Larger areas, consisting of more than one geo-political area, called a zone, are also created to reflect state government or regional government or authorities, usually a US Bureau of Census SMSA or an exiting multi-county governmental region.
- 45.3 Each requester file is then compared against each record in a file creating a temporary file containing the results. This file is analyzed for records meeting the 5.0 x 3.5 spacing factors according to an assignment matrix. The requested number of channels meeting the criteria (if available) are then added to the file and the process begins again with the next requestor.
- 45.4 Results are generated throughout the process by noting the "success" level of each iteration on a printer and finally through printing a report for the particular region.

#### **46 FUTURE CHANGES AND ADDITIONS TO A REGIONAL PLAN PACKING**

- 46.1 The NPSPAC planning process, like any good planning process, is subject to change as conditions within the region change. These changes, usually a need for additional channels within a planning area, can be accommodated through this packing software.
- 46.2 Any future amendment or revision of the regional channel assignment plan must be submitted through the APCO Area Frequency Coordinators office in order to assure compatibility with the other assignments within the region and adjoining regions.
- 46.3 By reserving the "PACC" channels for use primarily in nonstandard systems which don't require a full block in a given area, standard groups, sets, and blocks will be broken less often and less consideration or coordination will be required when initially assigning those blocks.

46.4 The PACC channels, because of their organization, have a minimum expected channel-to-channel spacing of 0.125 MHz. The clusters listed indicate the preferred assignment of up to four channel systems, but since they are not intended to be used only as clusters of four channels, they will be referred to and considered individually with no further implied relationships. Whenever possible "PACC" channels will be assigned from a cluster which has an available channel capacity that most closely meets the needs of the applicant.

#### 47 SPECTRUM UTILIZATION

47.1 This portion of the plan provides a basis for proper spectrum utilization. Its purpose is to guide the NCRPC Committee in their task of evaluating the implementation of radio communication systems within the North Carolina region.

47.2 All communications systems incorporating five (5) or more channels will be required to be configured and operated in a trunked configuration. Those systems having four (4) or fewer channels may be configured in a conventional system configuration.

47.3 The Federal Communications Commission 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 be (sic) operational requirements. Exceptions will not be granted routinely. However, strong evidence showing why trunking is unacceptable must be presented in support of any request for exception." Systems of 4 or less channels operating in the conventional mode that do not meet FCC loading standards will be required to share the frequency on a nonexclusive basis.

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

47.5 The county/multiple municipality agency or agencies depending upon systems loading and a need for multiple systems within an area must provide inter-communication between area wide systems in a multi-agency environment. A lead agency using 800 MHz spectrum must implement the common channels in this band as mandated by the national plan. Such implementation must be reviewed and approved by the NCRPC Committee.

47.6 Communications for public safety purposes should 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 trunk system that municipality should consider implementing an interagency shared system with other users.

47.7 Where conventional 800 MHz needs are requested, those frequencies to be utilized must not interfere with the region's trunked systems. The 800 MHz trunk radio system is to be considered in greater compliance with the FCC guidelines. Any co-channel interference within an authorized area of coverage will be examined on a case by case basis.

47.8 Loading of channels will be in compliance with FCC Rules 90.631 and 90.633. This plan must be used as a guide when establishing any new systems. Overlap or extended coverage must be minimized.

47.9 Antenna heights are to be limited to provide only the necessary coverage. The system design shall produce the minimum necessary coverage pattern and effective radiated power for the required geographic area.

47.10 Separation of co-channel transmitters will be determined after consideration of the applicants coverage needs, topography, natural barriers and antennae patterns.

#### **48 COORDINATION APPLICATION FORMS**

48.1 Coordination and Application forms will be adopted by this planning region and will be in conformance with the forms developed by the recognized national frequency coordinator.

#### **49 FREQUENCY APPLICATION PROCESS**

49.1 To develop an effective and functional plan the following recommendations shall be adopted:

49.1.1 A frequency assignment algorithm shall be developed and implemented by the frequency coordinator responsible for the 800 MHz spectrum within North Carolina Region 31.

49.1.2 An engineering study shall be provided with each application which describes the geographic location of the site and the technical parameters of the system. Coverage predictions shall be included which are based on that information. The predictions shall define a coverage contour where a minimum signal level of 40 dBu will be provided in accordance with FCC Rule 90.621(c). The coverage prediction shall be provided on a map of 1:25000 scale which clearly shows the location(s) of the proposed transmitters, the political boundaries of the licensee(s), the county and state lines, and the closest adjacent and co-channel system(s), if within 35 and 70 miles respectively. In addition to the eight standard radials used to determine height above average terrain, one radial between each proposed location and its nearest adjacent and co-channel stations shall be included in a fashion similar to FCC Rule 90.309(a)(4).

49.1.3 A clearly written narrative explanation of the need for the system shall be provided by the applicant agency.

49.1.4 A financial and budget commitment from the applicant agency or governmental agency requesting the frequency and responsible for the implementation shall be provided by the applicant agency. An applicant's commitment to implement the system must be ensured to maintain the efficient utilization of the 800 MHz frequencies. The funding statement, which shall be in the form of a resolution from the applicant's governing body, shall be included in the application including the method by which the system will be funded.

49.1.5 An implementation schedule describing development of the system from the first original system implementation to the fully loaded eventual system implementation.

49.1.6 A certification, provided by the applicant agency, that shows compliance with the national plan common channel requirements, and stating how the common channels will be implemented within the system.

49.1.7 An applicant shall be required to furnish a schedule detailing the time period required to implement the proposed communications system, including statements to show the progress, including: funding, initial planning, procurement, implementation, initial

acceptance, initial operation, system optimization, final acceptance, and maintenance scheduling.

- 49.2 All trunked systems authorized in accordance with this plan shall comply with section 90.631(e) regarding the implementation of systems. All conventional systems shall comply with section 90.633.

## 50 APPEAL PROCESS

Applicants shall be given the opportunity to appeal decisions which result in the rejection of their application throughout the application and frequency allocation process.

- 50.1 Throughout the channel allocation process applicants are given opportunities to appeal decisions which caused rejection of their application. The appeal process has two levels; APCO (or the FCC designated frequency coordinator) then to the Federal Communications Commission. An applicant who decides to appeal a rejection should initiate that appeal immediately with APCO upon notification of the rejection. In the event an appeal reaches the second level, the Federal Communication Commissions decision will be final and binding upon all parties.

## 51 COMMON CHANNEL IMPLEMENTATION

- 51.1 The eligible users in each planning area shall develop an implementation plan for their area based upon a two-tier implementation concept. The plan shall identify the location, frequency, operating parameters of the proposed stations in the area, and the name of the responsible monitoring agency and responsible system agency, if not the same.
- 51.2 The first tier of the plan shall consist of one or more stations operating on the National Calling Channel. The coverage of the stations shall be designed so as to provide coverage throughout a major portion of the area. Stations may be either mobile relay stations (FB2) or base stations (FB) provided that base stations must be capable of reverting to mobile relay operation upon failure of a control line, control link or control path.
- 51.3 The monitoring agency shall provide a continuous and effective watch on the nationally designated National Mutual Assistance System (NMAS) calling channel.
- 51.4 The second tier shall consist of stations operating on the four National Common TACTical Channels (TAC 1, TAC 2, TAC 3, TAC 4). The coverage area of the stations shall be designed so as to maximize utilization of the TAC channels.

## 52 MUTUAL AID CHANNEL UTILIZATION

The mutual aid channels are to be used for coordination activities between different agencies in a mutual aid situation, or emergency activities of a single agency. Priority use levels are described below. When a higher priority of use is required all lower priority use must cease in any area where interference could occur.

- 52.1 PRIORITY 1 - Disaster and extreme emergency operations, for mutual aid and interagency communications.
- 52.2 PRIORITY 2 - Emergency or urgent operations involving imminent danger to the safety of life or property.

- 52.3 **PRIORITY 3 - Special event control activities, generally of a preplanned nature and generally involving joint participation of two or more licensed agencies, including drills, tests and exercises of disaster or emergency plans.**

**53 INTEROPERABILITY - COMMON CHANNEL IMPLEMENTATION**

In accord with the National Plan, interoperability among federal, state and local governments during both routine and disaster operations will take place primarily on the five common channels designated as the "Calling Channel" and channels "TAC 1 through TAC 4."

**54 STANDARD SUBAUDIBLE CONTINUOUS TONE SQUELCH**

- 54.1 All mobile and portable radios operating in the 821-824/866-869 MHz frequency band shall be equipped to operate on the five common channels using CTCSS frequency of 156.7 Hz. (Ref. General Docket No. 87-112 par. III.C.2.28.(3))
- 54.2 Additionally through the use of S-160 or equivalent agreements a licensee may permit federal use of a nonfederal communications system. Such use other than the five identified common channels is to be in full compliance with FCC requirements for federal government use of nonfederal government frequencies.
- 54.3 The implementation of the common channels designated by the National Plan will separate into two categories designated as: Primary and Secondary.
- 54.3.1 **PRIMARY USERS** - All licensees of five or more 800 MHz channels. As a minimum, all primary users shall operate a receiver for continuous monitoring of the "Calling Channel" and a single separate mobile relay/base station that is equipped to operate on all five of the national common channels.
- 54.3.2 Wide area coverage transmitters will be required to be installed to assure area of responsibility coverage. Licensees must be willing to sponsor provision of sufficient satellite receivers for in-street mobile coverage within a system's area, consistent with the coverage requirement.
- 54.3.3 A continuous monitor of the Calling Channel will be maintained using control stations. Any or all agencies may be required to operate a control station for the purpose of monitoring and rendering assistance on the Calling Channel.
- 54.3.4 Direct communications "talk-around" on all four tactical channels will provide additional on scene communications to supplement the mobile relay base stations.

**55 SECONDARY USERS**

- 55.1 Secondary Users are All licensees of four or fewer 800 MHz channels.
- 55.2 All users of four or fewer channels shall, as a minimum, operate a base station for continuous monitoring of the national Calling Channel. All secondary users shall maintain a radio watch for the purpose of monitoring and rendering assistance on the Calling Channel.

- 55.3 A secondary user whose area is encompassed by a primary user may apply for a waiver for the full time monitoring of the Calling Channel, however, the secondary user shall be required to maintain a control station on the national Calling Channel.

## 56 OPERATING PROCEDURES ON THE COMMON CHANNELS

- 56.1 Normally, the five interoperable channels are to be used for activities requiring inter-communications between agencies not sharing any other compatible communications system. Interoperable channels are not to be used by an agency for daily operations or for interagency communications not requiring interoperability. In major emergency situations, one or more tactical channels may be assigned as deemed necessary.
- 56.2 Participants in the interoperable channels include federal, state and local disaster management agencies. Police, fire, and certificated providers of basic and advanced life support services will be the primary using agencies. If radio channels are available, other services provided for in the Public Safety Radio Services and the Special Emergency Radio Service may also participate to the extent required to insure the safety of the public and protection of property.

## 57 OPERATING PROCEDURES

Plain-text "English" language will be used on all five common channels at all times. The use of unfamiliar terms, phrases and codes shall be kept to a minimum. The use of the common channels for normal dispatch or routine agency operations is specifically prohibited.

- 57.1 CALLING CHANNEL - The Calling Channel shall be used to contact other users that can render assistance at an incident. It shall not be used as an ongoing working channel. Once contact is made between agencies, an agreed upon, assigned or predetermined tactical channel shall be used for additional or continued communications.
- 57.2 TACTICAL CHANNELS (TAC 1 - TAC 4) - These frequencies are reserved for use by those agencies involved in interagency or intersystem communications. Incidents requiring multiagency participation will utilize these channels as directed by the agency with responsibility for the incident or area of operation.

## 58 NETWORK OPERATING METHODS

- 58.1 A network will be established on the Calling Channel. The network will be wide area in nature and cover the major sections of North Carolina Region 31. Multiple networks may be required to fully cover outlying areas. Communications systems on TAC 1 - TAC 4 will be implemented by agencies who volunteer on a coordinated basis through system application.
- 58.2 Every geographic section of the North Carolina Region 31 is intended to be covered by at least one of the working tactical channels. In areas not supporting an 800 MHz trunked system, common channels will be utilized through mobile-to-mobile "talk around." Mobile relay stations on TAC 1 - TAC 4 will be of a limited coverage design to permit reuse of the channels several times within North Carolina Region 31.
- 58.2.1 One channel will be designated as federal for use primarily between federal agencies, or between federal and state or local agencies.

- 58.2.2 One channel will be designated as state for use primarily between state agencies, or between state and federal or state and local agencies.
- 58.2.3 One channel would be designated as local for use primarily between local agencies, or between local and state or federal agencies.
- 58.2.4 One channel will be left for noncritical communications, which would be secondary to any essential local, state, or federal communications.
- 58.3 This plan will allow the local users to implement one calling channel and one "local" channel. The state or federal government will then be able to implement its "own channel" in areas deemed necessary. This also allows a state or federal agency to bring in a temporary or itinerant station for use during emergency response or drills. The local cost and responsibility are only to provide a method to coordinate the use of the agencies (calling channel) and their "own" working channel. In cases where a federal or state channel is not warranted, the state or federal agency can still communicate to others on a secondary basis using the local channel. Those areas with sufficient local funding can implement a second (nonessential) working channel without affecting the "state" or "federal" channel operations.
- 58.4 On these channels, mobile relays are allowable, but not mandated.

## 59 LONG-RANGE COMMUNICATIONS

- 59.1 Planning for "long range" communications, those required beyond the local system capability, during incidents of major proportions, where public safety requirements dictate the need for communications in and out of a disaster area, shall be addressed by the primary users within the service area. These agencies shall integrate the appropriate interface to the National Calling Channel as a minimum. The long range communications may additionally require or include interconnection with private carrier systems or the public switched network.

## 60 FREQUENCY GIVE-BACK AND REASSIGNMENT

- 60.1 It is anticipated that in all but the most unusual cases, frequencies presently used by a licensee will be turned back for reassignment. Frequency coordinators for the service affected will be responsible for reassignment of the channels to other agencies awaiting channels in the Public Safety Communications lower frequency bands. Normal coordination procedures will be followed with these "give-back" frequencies.
- 60.2 All frequencies are to be returned to their respective pools to be assigned for the most beneficial public use. The frequency coordinator will consider the communication needs of all current eligible under the FCC's Services.

## 61 EXPANSION OF EXISTING SYSTEMS

- 61.1 Existing systems that are to be expanded to include the frequency bands of 821-824/866-869 MHz must have their mobile radios "grandfathered" and modified in conformance with the Memorandum Opinion and Order, FCC Docket 87-112. Existing base stations in the frequency bands of 806-821/851-866 MHz may not be used in the frequency bands of 821-824/866-869 MHz.

**62 SLOW GROWTH ENTITIES**

62.1 All systems in the 821-824/866-869 MHz bands under this plan will be slow growth in accordance with Section 90.629 of the Commission' rules.

**63 TELEPHONE INTERCONNECT**

63.1 The use of a car radio telephone via interconnect through an 800 MHz trunked radio system or other type two-way radio communications system will normally require a significant amount of air time, therefore, the use of automatic interconnected equipment for interconnection between the public switched telephone network on a routine basis is discouraged. Automatic interconnect for mission dedicated communications may be adopted.

**64 UHF TELEVISION SHARING**

64.1 Even low power UHF television stations (TV channels 57 through 70) operating in near proximity to trunking radio systems can cause interference to trunked radio operations. Trunking repeaters can also cause some viewer interference, but only in low signal strength TV viewer zones. 800 MHz trunked radio system planners must insure repeater sites are well away form high channel UHF Television transmitter sites.

**65 FREQUENCY ALLOCATION PROCESS GUIDELINES**

65.1 Consider future needs of both current and potential users.

65.2 Coordinate frequency allocation with neighboring planning regions.

65.3 Establish a time schedule for application submission and evaluation.

65.4 Develop a scoring system for the evaluation process that assigns weights to the following elements:

65.4.1 Category and class of service including eligibility and function.

65.4.2 Interoperability

65.4.3 Channel loading

65.4.4 Implementation factors based on the plan and timeliness of completion.

65.4.5 Geographic efficiency, i.e., ratio of mobiles to areas served and channel reuse.

65.4.6 Release of currently used frequencies and channels

65.4.7 Population served and administrative capability

**66 FREQUENCY ALLOCATION PROCESS**

66.1 Methodology - Frequencies shall be assigned on a geographic basis. The parameters upon which the number of frequencies allocated shall be based on the following:

66.1.1 Population Served

66.1.2 Number of mobile units. Portable radios shall be counted if the agency does not utilize mobile radio units.

66.1.3 Organizations responsible for the delivery of services which protect life and property shall receive priority over other public service organizations.

66.2 Spectrum utilization efficiency.

66.2.1 After initial frequency requests are met the appropriate frequency coordinator will assign frequencies given priority to the initial assignment, but having the latitude to choose frequencies other than those specified at the initial distribution. Coordination with the adjacent regions will be accomplished to ensure spectrum efficiency and effective management of interoperability channels.

## 67 NORTH CAROLINA COUNTIES RANKING

67.1 The Rank Order shall be used to resolve instances of contention for a limited number of available channels. Where two or more entities have applied for channels and insufficient spectrum exists to satisfy those requests, the ranking will be utilized to determine the greatest geographic area and population to be served, while accounting for the possibility of future growth.

67.2 Ranking may additionally be used to determine the redistribution of channels in cases where channel loading has not been met and channels are made available to other applicants.

67.3 The result of this regional communications plan will affect users well into the 21st century. It is impossible at the time of this writing to accurately determine the future demand for the reserved radio spectrum. It is also anticipated that little contention will exist within North Carolina for these channels in the very near future. With time, demographic changes and alternate technologies may alter the need for this spectrum. The ranking guidelines were approached to solve these few identifiable problems, rather than making arbitrary decisions on future needs.

67.4 Most public safety systems are expected to serve political jurisdictions where services are provided to the citizens of a county. In instances where a city provides services within an area of that county, it is expected that a county and city or townships can work cooperatively to build systems which will serve all citizens. This approach will not only conserve spectrum, but will potentially allow for more cost efficient systems to be installed.

67.5 Counties have been ranked by the following method: Information was entered for each county regarding the land area in square miles, and population predictions for the years 1990 and 2010 (obtained from the North Carolina Office of State Budget and Management). Starting with these three figures on each county, the population density and growth were also determined. Rankings were made for the following categories:

67.5.1 Area in square miles. This figure is not expected to vary over time.

67.5.2 Raw population figures. One rank was determined by sorting the counties on population predictions, primarily on the year 2010, and secondarily on 1990 figures.

67.5.3 Population density determined by a method similar to the one above.

67.5.4 Growth, which is the same for both raw population and population density. Since this figure represents the change between 1990 and 2010, there was no need for a secondary field.

67.6 The counties were then ranked according to the above categories, and an "average" ranking was determined. The final ranking was determined by sorting primarily on this average ranking, and secondarily on the land area.

67.7 The following lists contain the results of this ranking method. The first list is organized by ranking, the second alphabetically by county. As can be seen in the list by rank, very few counties obtained similar "average" rankings, and those that did were mostly separated geographically so that the secondary ranking by land area did not have significant impact on (geographically) adjacent counties.

## 68 NORTH CAROLINA COUNTIES RANK ORDERING

NORTH CAROLINA COUNTIES RANK ORDERING					
COUNTY	NUMBER	REGION	SQUARE MILES	SCORE	OVERALL RANK
WAKE	91	J	858	4.25	1
MECKLENBURG	59	F	530	13.00	2
ONslow	66	P	765	15.25	3
UNION	89	F	639	17.50	4
BRUNSWICK	9	O	855	19.75	5
RANDOLPH	75	G	798	20.00	6
CRAVEN	24	P	699	21.25	7
BUNCOMBE	10	B	657	22.00	8
PITT	73	Q	655	22.25	9
DAVIDSON	28	G	549	22.75	10
JOHNSTON	50	J	797	23.50	11
CUMBERLAND	25	M	654	23.75	12
GUILFORD	40	G	655	25.50	13
CARTERET	15	P	536	25.75	14
IREDELL	48	F	572	27.00	15
FORSYTH	33	I	418	27.75	16
ROBESON	77	N	949	28.75	17
MOORE	62	H	704	28.75	18
CATAWBA	17	E	394	29.25	19
ORANGE	67	J	400	29.50	20
DURHAM	31	J	295	30.00	21
BEAUFORT	6	Q	826	30.25	22

HENDERSON	44	B	378	30.50	23
NEW HANOVER	64	O	185	32.25	24
ROWAN	79	F	523	33.00	25
HARNETT	42	M	603	33.25	26
CABARRUS	12	F	363	33.25	27
GASTON	35	F	356	35.00	28
FRANKLIN	34	K	491	37.75	29
PENDER	70	O	871	38.50	30
LINCOLN	54	F	297	39.00	31
ALAMANCE	0	G	428	39.50	32
BURKE	11	E	511	39.75	33
RUTHERFORD	80	C	563	40.00	34
GRANVILLE	38	K	537	40.75	35
ROCKINGHAM	78	G	569	41.50	36
LEE	52	J	256	41.50	37
DARE	27	R	391	42.50	38
WILKES	96	D	757	43.25	39
EDGECOMBE	32	L	510	43.50	40
CLEVELAND	22	C	468	43.75	41
CHATHAM	18	J	709	44.00	42
WAYNE	95	P	557	44.00	43
STOKES	84	I	457	44.00	44
SURRY	85	I	536	45.00	45
CALDWELL	13	E	469	46.25	46
MACON	55	A	513	48.25	47
HOKE	46	N	389	48.75	48
COLUMBUS	23	O	944	49.50	49
DAVIE	29	I	265	50.50	50
HALIFAX	41	L	734	51.00	51
NASH	63	L	544	51.00	52
WILSON	97	L	375	51.50	53
STANLY	83	F	398	53.75	54
HAYWOOD	43	A	551	54.00	55
SAMPSON	81	M	944	54.50	56
VANCE	90	K	249	55.25	57
WATAUGA	94	D	317	55.75	58
CURRITUCK	26	R	246	56.00	59
TRANSYLVANIA	87	B	382	57.50	60
ALEXANDER	1	E	259	57.50	61
PASQUOTANK	69	R	228	57.75	62
SCOTLAND	82	N	318	58.00	63
CASWELL	16	G	428	58.50	64
LENOIR	53	P	400	58.50	65
DUPLIN	30	P	815	59.00	66
CHEROKEE	19	A	452	59.00	67
MONTGOMERY	61	H	488	59.25	68
PERSON	72	K	401	59.25	69
RICHMOND	76	H	475	60.50	70
McDOWELL	58	C	435	61.50	71

YADKIN	98	I	336	62.75	72
JACKSON	49	A	491	64.75	73
BLADEN	8	N	883	65.25	74
ASHE	4	D	426	67.25	75
POLK	74	C	239	67.50	76
ANSON	3	H	533	68.00	77
PERQUIMANS	71	R	246	68.25	78
MARTIN	57	Q	454	69.25	79
YANCEY	99	D	312	70.50	80
BERTIE	7	Q	698	71.50	81
CHOWAN	20	R	173	72.25	82
MADISON	56	B	450	74.00	83
SWAIN	86	A	524	75.00	84
GATES	36	R	337	75.00	85
NORTHAMPTON	65	L	536	75.25	86
HERTFORD	45	Q	353	76.25	87
AVERY	5	D	245	76.50	88
JONES	51	P	467	76.75	89
HYDE	47	R	613	77.50	90
WARREN	92	K	424	78.75	91
TYRRELL	88	R	390	79.00	92
PAMLICO	68	P	338	80.50	93
CLAY	21	A	209	80.75	94
GREENE	39	P	267	82.75	95
MITCHELL	60	D	215	86.25	96
WASHINGTON	93	R	343	88.50	97
CAMDEN	14	R	239	89.75	98
ALLEGHANY	2	D	225	90.25	99
GRAHAM	37	A	292	94.50	100

COUNTY	NUM	REG	YEAR - 1990			YEAR - 2010			PERCENT CHANGE
			POPULATION	PERCENT OF STATE	POP/SQ MILE	POPULATION	PERCENT OF STATE	POP/SQ MILE	
ALAMANCE	0	G	107,061	1.63%	250	113,807	1.47%	266	6.30%
ALEXANDER	1	E	27,897	0.43%	108	32,759	0.42%	126	17.43%
ALLEGHANY	2	D	9,787	0.15%	43	9,879	0.13%	44	0.94%
ANSON	3	H	26,424	0.40%	50	27,366	0.35%	51	3.56%
ASHE	4	D	23,737	0.36%	56	25,543	0.33%	60	7.61%
AVERY	5	D	15,436	0.24%	63	16,563	0.21%	68	7.30%
BEAUFORT	6	Q	43,666	0.67%	53	58,558	0.76%	71	34.10%
BERTIE	7	Q	21,171	0.32%	30	20,696	0.27%	30	-2.24%
BLADEN	8	N	30,894	0.47%	35	30,158	0.39%	34	-2.38%
BRUNSWICK	9	O	54,884	0.84%	64	95,519	1.24%	112	74.04%
BUNCOMBE	10	B	175,493	2.67%	267	196,968	2.55%	300	12.24%
BURKE	11	E	77,638	1.18%	152	83,564	1.08%	164	7.63%
CABARRUS	12	F	96,679	1.47%	266	114,977	1.49%	317	18.93%
CALDWELL	13	E	71,642	1.09%	153	74,965	0.97%	160	4.64%
CAMDEN	14	R	6,040	0.09%	25	6,362	0.08%	27	5.33%
CARTERET	15	P	54,043	0.82%	101	77,876	1.01%	145	44.10%
CASWELL	16	G	23,116	0.35%	54	27,258	0.35%	64	17.92%
CATAWBA	17	E	119,832	1.83%	304	143,144	1.85%	363	19.45%
CHATHAM	18	J	37,438	0.57%	53	43,872	0.57%	62	17.19%
CHEROKEE	19	A	21,633	0.33%	48	26,118	0.34%	58	20.73%
CHOWAN	20	R	13,906	0.21%	80	15,846	0.20%	92	13.95%
CLAY	21	A	7,415	0.11%	35	8,579	0.11%	41	15.70%
CLEVELAND	22	C	87,373	1.33%	187	90,790	1.17%	194	3.91%
COLUMBUS	23	O	53,546	0.82%	57	55,737	0.72%	59	4.09%
Craven	24	P	83,771	1.28%	120	106,996	1.38%	153	27.72%
CUMBERLAND	25	M	261,839	3.99%	400	282,905	3.66%	433	8.05%
CURRITUCK	26	R	14,676	0.22%	60	22,542	0.29%	92	53.60%
DARE	27	R	22,501	0.34%	58	41,283	0.53%	106	83.47%
DAVIDSON	28	G	127,264	1.94%	232	149,972	1.94%	273	17.84%
DAVIE	29	I	28,473	0.43%	107	35,731	0.46%	135	25.49%
DUPLIN	30	P	41,905	0.64%	51	41,806	0.54%	51	-0.24%
DURHAM	31	J	175,678	2.68%	596	214,757	2.78%	728	22.24%
EDGECOMBE	32	L	60,317	0.92%	118	65,996	0.85%	129	9.42%
FORSYTH	33	I	272,780	4.16%	653	312,972	4.05%	749	14.73%
FRANKLIN	34	K	37,158	0.57%	76	49,743	0.64%	101	33.87%
GASTON	35	F	176,505	2.69%	496	195,517	2.53%	549	10.77%
GATES	36	R	9,996	0.15%	30	11,682	0.15%	35	16.87%
GRAHAM	37	A	7,088	0.11%	24	6,496	0.08%	22	-8.35%
GRANVILLE	38	K	39,796	0.61%	74	48,813	0.63%	91	22.66%
GREENE	39	P	16,603	0.25%	62	16,529	0.21%	62	-0.45%
GUILFORD	40	G	339,946	5.18%	519	358,737	4.64%	548	5.53%
HALIFAX	41	L	57,162	0.87%	78	57,633	0.75%	79	0.82%
HARNETT	42	M	67,014	1.02%	111	78,300	1.01%	130	16.84%
HAYWOOD	43	A	48,597	0.74%	88	49,852	0.64%	90	2.58%
HENDERSON	44	B	71,532	1.09%	189	94,005	1.22%	249	31.42%
HERTFORD	45	Q	24,051	0.37%	68	24,032	0.31%	68	-0.08%
HOKE	46	N	25,309	0.39%	65	34,801	0.45%	89	37.50%
HYDE	47	R	5,771	0.09%	9	5,806	0.08%	9	0.61%
IREDELL	48	F	92,667	1.41%	162	108,289	1.40%	189	16.86%
JACKSON	49	A	27,227	0.41%	55	28,976	0.37%	59	6.42%
JOHNSTON	50	J	82,509	1.26%	104	103,063	1.33%	129	24.91%
JONES	51	P	10,234	0.16%	22	10,893	0.14%	23	6.44%
LEE	52	J	43,166	0.66%	169	54,494	0.70%	213	26.24%
LENOIR	53	P	60,535	0.92%	151	57,906	0.75%	145	-4.34%
LINCOLN	54	F	49,353	0.75%	166	62,343	0.81%	210	26.32%
MACON	55	A	24,283	0.37%	47	31,150	0.40%	61	28.28%
MADISON	56	B	17,586	0.27%	39	18,514	0.24%	41	5.28%
MARTIN	57	Q	27,144	0.41%	60	27,880	0.36%	61	2.71%
MECKLENBURG	59	F	489,877	7.46%	924	638,382	8.26%	1204	30.31%

MITCHELL	60	D	14,636	0.22%	68	14,404	0.19%	67	-1.59%
MONTGOMERY	61	H	24,919	0.38%	51	28,612	0.37%	59	14.82%
MOORE	62	H	60,197	0.92%	86	75,524	0.98%	107	25.46%
McDOWELL	58	C	36,805	0.56%	85	38,692	0.50%	89	5.13%
NASH	63	L	24,717	0.38%	45	30,407	0.39%	56	23.02%
NEW HANOVER	64	O	121,218	1.85%	655	152,685	1.98%	825	25.96%
NORTHAMPTON	65	L	22,265	0.34%	42	21,283	0.28%	40	-4.41%
ONSLow	66	P	130,520	1.99%	171	161,255	2.09%	211	23.55%
ORANGE	67	J	89,722	1.37%	224	110,511	1.43%	276	23.17%
PAMLICO	68	P	10,990	0.17%	33	11,766	0.15%	35	7.06%
PASQUOTANK	69	R	31,226	0.48%	137	35,790	0.46%	157	14.62%
PENDER	70	O	27,803	0.42%	32	38,351	0.50%	44	37.94%
PERQUIMANS	71	R	11,198	0.17%	46	14,244	0.18%	58	27.20%
PERSON	72	K	31,678	0.48%	79	34,972	0.45%	87	10.40%
PITt	73	Q	103,190	1.57%	158	122,871	1.59%	188	19.07%
POLK	74	C	15,097	0.23%	63	18,199	0.24%	76	20.55%
RANDOLPH	75	G	103,977	1.58%	130	125,766	1.63%	158	20.96%
RICHMOND	76	H	46,106	0.70%	97	45,432	0.59%	96	-1.46%
ROBESON	77	N	109,332	1.67%	115	119,107	1.54%	126	8.94%
ROCKINGHAM	78	G	86,825	1.32%	153	89,573	1.16%	157	3.16%
ROWAN	79	F	106,850	1.63%	204	115,458	1.49%	221	8.06%
RUTHERFORD	80	C	58,396	0.89%	104	65,691	0.85%	117	12.49%
SAMPSON	81	M	51,030	0.78%	54	51,304	0.66%	54	0.54%
SCOTLAND	82	N	35,150	0.54%	111	39,062	0.51%	123	11.13%
STANLY	83	F	51,263	0.78%	129	54,100	0.70%	136	5.53%
STOKES	84	I	37,370	0.57%	82	45,911	0.59%	100	22.86%
SURRY	85	I	63,072	0.96%	118	67,224	0.87%	125	6.58%
SWAIN	86	A	10,808	0.16%	21	11,457	0.15%	22	6.00%
TRANSYLVANIA	87	B	26,908	0.41%	70	31,849	0.41%	83	18.36%
TYRRELL	88	R	4,208	0.06%	11	4,729	0.06%	12	12.38%
UNION	89	F	86,169	1.31%	135	118,148	1.53%	185	37.11%
VANCE	90	K	40,027	0.61%	161	44,186	0.57%	177	10.39%
WAKE	91	J	402,330	6.13%	469	592,773	7.67%	691	47.34%
WARREN	92	K	16,683	0.25%	39	16,894	0.22%	40	1.26%
WASHINGTON	93	R	14,604	0.22%	43	13,459	0.17%	39	-7.84%
WATAUGA	94	D	35,706	0.54%	113	40,907	0.53%	129	14.57%
WAYNE	95	P	98,568	1.50%	177	95,376	1.23%	171	-3.24%
WILKES	96	D	62,202	0.95%	82	66,325	0.86%	88	6.63%
WILSON	97	L	66,128	1.01%	176	69,038	0.89%	184	4.40%
YADKIN	98	I	30,526	0.47%	91	33,150	0.43%	99	8.60%
YANCEY	99	D	16,314	0.25%	52	18,695	0.24%	60	14.59%

**69 REGION-31 PRIORITY SORTING TABLE**

SORT PRIORITY	COUNTY	SQ MI	CHNLS REQD
1	GUILFORD	655	20
2	WAKE	858	28
3	MECKLENBURG	530	28
4	ALAMANCE	428	16
5	DURHAM	295	20
6	CABARRUS	363	20
7	DAVIDSON	549	16
8	ORANGE	400	16
9	GASTON	356	20
10	ROWAN	523	20
11	FORSYTH	418	10
12	BUNCOMBE	657	10
13	ONSLow	765	10
14	UNION	639	20
15	BRUNSWICK	855	20
16	RANDOLPH	798	12
17	GRAVEN	699	10
18	PITT	655	15
19	JOHNSTON	797	15
20	CUMBERLAND	654	20
21	CARTERET	536	10
22	IREDELL	572	15
23	ROBESON	949	20
24	MOORE	704	10
25	CATAWBA	394	10
26	BEAUFORT	826	15
27	HENDERSON	378	10
28	NEW HANOVER	185	20
29	HARNETT	603	20
30	FRANKLIN	491	10
31	PENDER	871	20
32	LINCOLN	297	20
33	BURKE	511	10
34	RUTHERFORD	563	10

SORT PRIORITY	COUNTY	SQ MI	CHNLS REQD
35	GRANVILLE	537	10
36	ROCKINGHAM	569	15
37	LEE	256	15
38	DARE	391	15
39	WILKES	757	6
40	EDGEcombe	510	15
41	CLEVELAND	468	8
42	CHATHAM	709	15
43	WAYNE	557	8
44	STOKES	457	8
45	SURRY	536	8
46	CALDWELL	469	15
47	MACON	513	6
48	HOKE	389	15
49	COLUMBUS	944	15
50	DAVIE	265	10
51	HALIFAX	734	10
52	NASH	544	10
53	WILSON	375	20
54	STANLY	398	10
55	HAYWOOD	551	6
56	SAMPSON	944	15
57	VANCE	249	6
58	WATAUGA	317	10
59	CURRITUCK	246	10
60	TRANSYLVANI	382	6
61	ALEXANDER	259	6
62	PASQUOTANK	228	15
63	SCOTLAND	318	10
64	CASWELL	428	12
65	LENOIR	400	15
66	DUPLIN	815	8
67	CHEROKEE	452	6
68	MONTGOMERY	488	6

SORT PRIORITY	COUNTY	SQ MI	CHNLS REQD
69	PERSON	401	10
70	RICHMOND	475	6
71	McDOWELL	435	6
72	YADKIN	336	6
73	JACKSON	491	6
74	BLADEN	883	15
75	ASHE	426	6
76	POLK	239	6
77	ANSON	533	6
78	PERQUIMANS	246	10
79	MARTIN	454	10
80	YANCEY	312	6
81	BERTIE	698	10
82	CHOWAN	173	10
83	MADISON	450	6
84	SWAIN	524	6
85	GATES	337	10
86	NORTHAMPTON	536	10
87	HERTFORD	353	6
88	AVERY	245	6
89	JONES	467	10
90	HYDE	613	10
91	WARREN	424	10
92	TYRRELL	390	6
93	PAMLICO	338	6
94	CLAY	209	6
95	GREENE	267	10
96	MITCHELL	215	6
97	WASHINGTON	343	6
98	CAMDEN	239	16
99	ALLEGHANY	225	6
100	GRAHAM	292	6

**70 STATE OF NORTH CAROLINA STATEWIDE INTERAGENCY SITE LOCATIONS**

NC COUNTY	CITY	LAT	LONG	NUMBER OF CHANNELS REQUIRED	CHANNEL SPACING kHz	RADIUS KM.	CO-CHNL. DISTANCE KM.
ALAMANCE	CANE MTN.	35-56-43	79-26-4	5	25	40	90
ALLEGHANY	SPARTA	36-29-35	81-10-33	4	25	40	90
ANSON	WADESBORO	34-59-41	80-10-10	4	25	40	90
ASHE	MT. JEFFERSON	36-24-11	81-27-49	4	25	40	90
AVERY	BEACH MT.	36-11-3	81-52-55	3	25	40	90
AVERY	GRANDMA MT.	36-3-47	81-50-33	3	25	40	90
BEAUFORT	CHOCOWINITY	35-28-57	77-9-42	4	25	40	90
BEAUFORT	BELHAVEN	35-32-40	76-36-55	3	25	40	90
BERTIE	AULANDER	36-15-56	77-6-29	4	25	40	90
BLADEN	ELIZABETHTOWN	34-34-49	78-37-37	6	25	40	90
BRUNSWICK	BOLIVIA	34-7-51	78-11-16	6	25	40	90
BRUNSWICK	SUPPLY	34-1-5	78-15-59	3	25	40	90
BUNCOMBE	PEACH KNOB	35-38-15	82-29-54	5	25	40	90
CABARRUS	CONCORD	35-21-30	80-36-37	5	25	40	90
CALDWELL	HIBRITEN MT.	35-54-2	81-29-33	5	25	40	90
CARTERET	MOREHEAD CITY	34-44-3	76-46-58	5	25	40	90
CASWELL	YANCEYVILLE	36-21-1	79-20-59	4	25	40	90
CATAWBA	ANDERSON MT.	35-34-6	81-5-20	3	25	40	90
CATAWBA	BAKER MT.	35-39-30	81-24-20	3	25	40	90
CHATHAM	CHATHAM MTN.	35-52-0	79-10-0	5	25	40	90
CHEROKEE	FAIN MT.	35-7-19	84-1-56	3	25	40	90
CHEROKEE	JOANNA BALD	35-15-26	83-47-43	3	25	40	90
COLUMBUS	DELCO	34-19-16	78-13-43	4	25	40	90
COLUMBUS	NAKINA	34-7-41	78-39-55	3	25	40	90
COLUMBUS	WHITEVILLE	34-20-8	78-45-12	3	25	40	90
CRAVEN	NEW BERN	35-8-4	77-3-49	6	25	40	90
CUMBERLAND	FAYETTEVILLE	35-04-46	78-55-58	5	25	40	90
CURRITUCK	CURRITUCK	36-22-24	75-57-58	5	25	40	90
DARE	NAGS HEAD	35-59-16	75-38-42	6	25	40	90
DAVIDSON	LEXINGTON	35-49-6	80-11-59	8	25	40	90
DUPLIN	KENNANSVILLE	34-56-34	77-58-56	5	25	40	90
DURHAM	DURHAM	36-01-11	78-5-6	5	25	40	90
DURHAM	LAKE MICHIE	36-09-6	78-49-15	5	25	40	90
EDGECOMBE	ROCKY MOUNT	35-58-15	77-47-41	4	25	40	90
EDGECOMBE	TARBORO	35-54-52	77-31-5	4	25	40	90
FORSYTH	WINSTON SALEM	36-05-46	80-14-40	5	25	40	90
FRANKLIN	LOUISBURG	36-03-20	78-22-30	4	25	40	90
GASTON	GASTONIA	35-14-01	81-16-13	6	25	40	90
GATES	GATESVILLE	36-24-13	76-45-28	4	25	40	90
GRANVILLE	OXFORD	36-17-45	78-39-30	5	25	40	90
GRANVILLE	BUTNER	36-8-24	78-45-56	5	25	40	90
GUILFORD	HIGH POINT	35-57-25	80-00-10	5	25	40	90
GUILFORD	MCLEANSVILLE	36-04-33	79-38-35	5	25	40	90

GUILFORD	SUMMERFIELD	36-13-15	79-54-24	5	25	40	90
HALIFAX	BRINKLEYVILLE	36-17-28	77-50-10	5	25	40	90
HAYWOOD	CHAMBERS MT.	35-34-6	82-54-25	3	25	40	90
HAYWOOD	SOCO MT.	35-29-40	83-8-45	3	25	40	90
HAYWOOD	STERLING MT.	35-42-7	83-7-19	3	25	40	90
HYDE	OCRACOKE	35-7-0	75-58-10	3	25	40	90
HYDE	SWANQUARTER	35-24-49	76-19-34	3	25	40	90
HYDE	ENGLEHARD	35-31-59	75-58-24	3	25	40	90
IREDELL	BARIUM SPRINGS	35-40-00	80-53-23	4	25	40	90
JOHNSON	ARCHERS LODGE	35-41-25	78-19-18	5	25	40	90
JOHNSON	SMITHFIELD	35-30-39	78-25-44	5	25	40	90
LENOIR	KINSTON	35-16-60	77-34-58	5	25	40	90
MACON	WINE SPRINGS BALD	35-10-23	83-34-51	4	25	40	90
MACON	FRANKLIN	35-19-38	83-20-7	4	25	40	90
MADISON	DUCKETTS KNOB	35-46-49	82-47-22	3	25	40	90
MARTIN	WILLIAMSTON	35-50-16	77-5-39	5	25	40	90
MECKLENBURG	I85 CHARLOTTE	35-16-33	80-48-5	5	25	40	90
MONTGOMERY	BUCK MT.	35-24-21	79-59-56	5	25	40	90
MOORE	CARTHAGE	35-21-06	79-24-04	5	25	40	90
MOORE	SOUTHERN PINES	35-10-36	79-24-51	5	25	40	90
NASH	3MI. W. NASHVILLE	35-57-59	78-1-0	5	25	40	90
ONSLOW	HOLLY RIDGE	34-29-38	77-29-18	4	25	40	90
ONSLOW	JACKSONVILLE	34-49-8	77-19-48	4	25	40	90
NEW HANOVER	WILMINGTON	34-15-32	77-49-54	5	25	40	90
NORTHAMPTON	JACKSON	36-24-17	77-26-25	3	25	40	90
PASQUOTANK	ELIZABETH CITY	36-21-03	76-16-29	5	25	40	90
PENDER	PENDERLEA	34-37-26	78-6-45	4	25	40	90
PERSON	ROXBORO	36-23-24	78-59-34	5	25	40	90
PITT	GREENVILLE	35-32-33	77-21-25	5	25	40	90
PITT	FARMVILLE	35-33-1	77-36-2	5	25	40	90
POLK	TRYON PEAK	35-16-2	82-14-19	5	25	40	90
RANDOLPH	SHEPHERD MT.	35-45-20	79-57-4	5	25	40	90
RICHMOND	ELLERBE	35-7-12	79-42-42	5	25	40	90
ROBESON	SAINT PAULS	34-47-51	79-2-41	5	25	40	90
ROCKINGHAM	EDEN	36-31-08	79-45-38	5	25	40	90
ROWAN	GRANITE QUARRY	35-36-17	80-26-30	5	25	40	90
RUTHERFORD	CHERRY MT.	35-25-5	81-46-32	5	25	40	90
SAMPSON	CLINTON	35-01-00	78-20-00	4	25	40	90
SCOTLAND	LAURINGBURG	34-43-14	79-23-4	4	25	40	90
STOKES	GAP	36-22-34	80-22-14	4	25	40	90
SURRY	ELKIN	36-15-18	80-49-57	4	25	40	90
SURRY	MOUNT AIRY	36-25-15	80-39-45	4	25	40	90
TRANSYLVANIA	TOXAWAY MT.	35-7-24	82-59-1	4	25	40	90
TRANSYLVANIA	RICH MT.	35-10-36	82-40-54	4	25	40	90
TYRELL	COLUMBIA	35-53-59	76-20-46	4	25	40	90
UNION	MONROE	35-01-38	80-34-59	4	25	40	90
VANCE	HENDERSON	36-14-51	78-30-28	6	25	40	90
WAKE	RALEIGH	35-47-56	78-42-21	4	25	40	90
WAKE	APEX	35-42-52	78-49-1	4	25	40	90

WAKE	ZEBULON	35-49-31	78-17-58	4	25	40	90
WASHINGTON	PLYMOUTH	35-51-0	76-45-40	4	25	40	90
WATAUGA	BOONE	36-14-7	81-42-24	4	25	40	90
WAYNE	GOLDSBORO	35-23-52	78-8-7	4	25	40	90
WAYNE	SEVEN SPRINGS	35-12-21	77-49-42	4	25	40	90
WILKES	PORES KNOB	36-2-48	81-9-25	4	25	40	90
WILSON	WILSON	35-42-25	77-55-50	5	25	40	90
YANCEY	CLINGMANS PEAK	34-44-5	81-17-12	4	25	40	90

71 CHANNEL LISTING BY

COLUMBUS COUNTY		602	619	636	655	657	692	694
		696	730	732	769	771	792	809
		811						
DAVIDSON COUNTY		602	614	635	642	651	663	675
		685	706	713	716	736	745	764
		783	791	824	830			
Shelby, City of	L	602	640	678	716	754		
Wake, County of	L	602	609	611	615	620	622	636
		640	647	649	653	658	674	678
		687	696	698	712	716	725	734
		736	750	754	763	767	772	788
		794	803	812	825	828		
ANSON COUNTY		603	641	650	679	707		
MARTIN COUNTY		604	631	669	681	719	726	732
		743	757	777	814	830		
ONslow COUNTY		604	622	624	642	660	698	736
		774	794	814				
Harnett, County of	L	604	626	642	664	680	702	718
		740	778	799				
Cumberland, County of of	L	604	626	638	642	664	665	676
		680	702	714	718	752	778	783
		785	790	799	807	818	819	
GUILFORD COUNTY		605	607	625	628	666	668	681
		701	719	721	774	777	780	815
		817	820	822				
NASH COUNTY		605	607	613	633	660	689	707
		727	742	765				
MITCHELL COUNTY		605	607	673	699	703	767	
WILKES COUNTY		605	607	626	701	815	817	
DARE COUNTY		605	622	624	660	662	681	698
		736	738	774	776	794	796	814
		816						
BERTIE COUNTY		606	624	662	701	703	722	738
		741	796	816				
CRAVEN COUNTY		606	633	654	662	667	673	680
		685	718	738	742	744	749	756
		776	787	796	807	816		

BRUNSWICK COUNTY		606	626	644	646	664	666	682
		684	703	705	720	743	758	777
		779	781	800	817	819	821	
CURRITUCK COUNTY		607	626	701	703	719	740	757
		778	798	818				
CUMBERLAND COUNTY		607	628	660	662	668	670	683
		721	723	743	745	757	759	
		761	774	776	780	797	822	
NORTHAMPTON COUNTY		608	610	628	646	648	650	666
		682	706	708	720	744	758	760
		774	776	778	822			
BEAUFORT COUNTY		608	610	621	623	629	648	659
		695	697	699	706	723	761	769
		771	773	782	802	820		
ROCKINGHAM COUNTY		609	613	636	652	662	673	712
		725	737	746	799	803	825	827
		829						
PASQUOTANK COUNTY		609	628	646	661	666	682	721
		737	742	759	775	780	795	800
		815						
CALDWELL COUNTY		609	622	647	651	668	698	704
		706	724	736	764	766	801	822
		824						
NEW HANOVER COUNTY		609	611	629	631	648	662	668
		680	686	701	707	723	725	738
		740	745	756	761	796	798	
Concord, City of	L	609	627	647	669	703	723	761
		786	814	828				
SURRY COUNTY		610	619	621	629	648	650	657
		661	667	695	697	707	722	
		733	735	739	760	765	771	773
		775	778	800	802	828		
ROBESON COUNTY		610	613	624	630	633	646	648
		650	685	689	704	708	710	727
		747	764	766	804	824	826	
PERQUIMANS COUNTY		611	630	649	668	686	705	707
		724	762	821				
POLK COUNTY		611	649	668	683	780	821	

Mecklenburg, County of	L	611	618	620	624	653	656	658
		662	667	682	694	700	705	720
		725	738	743	763	772	776	779
		788	803	816	819	821	823	825
		826						
Greensboro, City of	L	611	620	631	649	658	660	683
		687	694	696	710	723	732	734
		740	741	748	759	770	772	794
		801	810	812				
SAMPSON COUNTY		612	621	623	697	699	726	737
		739	755	795	801	813	815	827
		830						
MADISON COUNTY		613	701	756	781	816	822	
CHOWAN COUNTY		613	633	651	671	688	709	746
		764	804	823				
MECKLENBURG COUNTY		613	615	630	632	634	637	674
		676	690	692	710	712	714	728
		730	732	749	751	765	768	790
		792	806	811				
PAMLICO COUNTY		614	689	727	765	785	805	
BURKE COUNTY		614	628	631	670	689	727	745
		783	796	799				
PENDER COUNTY		614	634	651	653	671	673	688
		690	709	711	728	748	763	765
		767	787	803	805	823	825	
GATES COUNTY		615	622	635	653	690	698	727
		748	766	819				
HENDERSON COUNTY		615	676	694	714	742	765	768
		789	807	825				
AVERY COUNTY		616	730	732	830			
DUPLIN COUNTY		616	630	681	719	722	724	760
		808						
Forsyth, County of	L	616	633	654	671	689	709	727
		757	767	796	805			
TYRRELL COUNTY		617	655	731	786	788	809	
JOHNSTON COUNTY		617	631	655	691	709	729	748
		769	809	830				

ORANGE COUNTY		618	784	792	806	808		
JONES COUNTY		618	637	656	675	692	713	730
		751	829					
HALIFAX COUNTY		618	626	656	710	770	799	801
		810	819					
CAMDEN COUNTY		619	657	694	696	733	750	770
		772	792	811	829			
SCOTLAND COUNTY		621	635	654	691	695	697	729
		749	768	787				
VANCE		606						
CABARRUS COUNTY		622	698					
FORSYTH COUNTY		623	646	699	704	750	762	787
WAKE COUNTY		624	629	651	667	682	685	705
		720	722	738	744	746	756	758
		760	775	781	796	814	816	821
		823						
MACON COUNTY		625	631	642	669	680	684	
PITT COUNTY		625	627	643	665	683	704	721
		740	759	780	800	818		
CARTERET COUNTY		626	644	664	682	720	740	758
		778	798	818				
RICHMOND COUNTY		629	722	724	744	760	762	
Burlington, City of	L	631	660	710	740	741	748	759
		770	801	810				
TRANSYLVANIA COUNTY		633	772	827				
WATAUGA COUNTY		633	635	666	708	757	759	777
		803	820	827				
PERSON COUNTY		634	708	723	745	818		
LENOIR COUNTY		635	650	652	670	708	710	747
		764	766	784	789	804	810	822
		824	826					
WASHINGTON COUNTY		637	675	713	736	794	806	
RUTHERFORD COUNTY		638	645	691	729	731	752	761
		805	809	814				

BLADEN COUNTY		640	678	716	750			
ROWAN COUNTY		640	678	754				
HYDE COUNTY		642	650	670	687	725	741	763
		779	799	822				
BUNCOMBE COUNTY		643	646	663	665	722	737	760
		775	777	818				
N.C., State of	L	644	672	703	741	825		
GREENE COUNTY		645	701	791	798			
JACKSON COUNTY		648	650	672	704	770	795	
YANCEY COUNTY		654	675	693	711	766	827	
McDOWELL COUNTY		654	739	750	771	792	811	
HOKE COUNTY		656	770	810				
ALAMANCE COUNTY		656	691	729	765	786	830	
LINCOLN COUNTY		660						
Thomasville, City of	L	660	748	770	810			
WILSON COUNTY		663						
IREDELL COUNTY		665	781					
WARREN COUNTY		669	784	792	805	807		
ALLEGHANY COUNTY		669	703	705	737	744	795	
DURHAM COUNTY		671	693	700	731	779	830	
WAYNE COUNTY		672	694	732				
HERTFORD COUNTY		673	692	711	729	768	827	
CLAY COUNTY		674	689	694				
ASHE COUNTY		674	681	690	692	719	728	
CHEROKEE COUNTY		676	702	714	727	765		
UNION COUNTY		684	747	757	797			
ALEXANDER COUNTY		686	711	747	769	810	830	
HAYWOOD COUNTY		686	688	783	799	805	820	

STOKES COUNTY	691	729	743	785	807		
MOORE COUNTY	693	700	731				
CLEVELAND COUNTY	696						
CHATHAM COUNTY	707						
GASTON COUNTY	708	770					
MONTGOMERY COUNTY	711	733	793				
GRAHAM COUNTY	722	740	760	767	826		
DAVIE COUNTY	731	798	808				
CATAWBA COUNTY	758	774					
CASWELL COUNTY	761						
FRANKLIN COUNTY	777						
SWAIN COUNTY	778	792	809				
EDGECOMBE COUNTY	786						
RANDOLPH COUNTY	789						
GRANVILLE COUNTY	800						
STANLY COUNTY	800						
YADKIN COUNTY	830						
LEE COUNTY	830						

72 LISTING BY CHANNEL NUMBER

CHANNEL NO.	STATE	AGENCY AREA	LICENSED
602	NC	COLUMBUS COUNTY	
602	NC	DAVIDSON COUNTY	
602	NC	Shelby, City of	L
602	NC	Wake, County of	L
603	NC	ANSON COUNTY	
604	NC	MARTIN COUNTY	
604	NC	ONSLow COUNTY	
604	NC	Harnett, County of	L
604	NC	Cumberland, County of	L
605	NC	GUILFORD COUNTY	
605	NC	NASH COUNTY	
605	NC	MITCHELL COUNTY	
605	NC	WILKES COUNTY	
605	NC	DARE COUNTY	
606	NC	VANCE COUNTY	
606	NC	BERTIE COUNTY	
606	NC	CRAVEN COUNTY	
606	NC	BRUNSWICK COUNTY	
607	NC	NASH COUNTY	
607	NC	MITCHELL COUNTY	
607	NC	CURRITUCK COUNTY	
607	NC	WILKES COUNTY	
607	NC	CUMBERLAND COUNTY	
607	NC	GUILFORD COUNTY	
608	NC	NORTHAMPTON COUNTY	
608	NC	BEAUFORT COUNTY	
609	NC	ROCKINGHAM COUNTY	
609	NC	PASQUOTANK COUNTY	
609	NC	CALDWELL COUNTY	
609	NC	NEW HANOVER COUNTY	
609	NC	Wake, County of	L
609	NC	Concord, City of	L
610	NC	NORTHAMPTON COUNTY	
610	NC	SURRY COUNTY	
610	NC	BEAUFORT COUNTY	
610	NC	ROBESON COUNTY	

611	NC	PERQUIMANS COUNTY	
611	NC	POLK COUNTY	
611	NC	NEW HANOVER COUNTY	
611	NC	Wake, County of	L
611	NC	Mecklenburg, County of	L
611	NC	Greensboro, City of	L
612	NC	SAMPSON COUNTY	
613	NC	MECKLENBURG COUNTY	
613	NC	NASH COUNTY	
613	NC	MADISON COUNTY	
613	NC	CHOWAN COUNTY	
613	NC	ROCKINGHAM COUNTY	
613	NC	ROBESON COUNTY	
614	NC	DAVIDSON COUNTY	
614	NC	PAMLICO COUNTY	
614	NC	BURKE COUNTY	
614	NC	PENDER COUNTY	
615	NC	MECKLENBURG COUNTY	
615	NC	GATES COUNTY	
615	NC	HENDERSON COUNTY	
615	NC	Wake, County of	L
616	NC	AVERY COUNTY	
616	NC	DUPLIN COUNTY	
616	NC	Forsyth, County of	L
617	NC	TYRRELL COUNTY	
617	NC	JOHNSTON COUNTY	
618	NC	ORANGE COUNTY	
618	NC	JONES COUNTY	
618	NC	HALIFAX COUNTY	
618	NC	Mecklenburg, County of	L
619	NC	SURRY COUNTY	
619	NC	CAMDEN COUNTY	
619	NC	COLUMBUS COUNTY	
620	NC	Greensboro, City of	L
620	NC	Wake, County of	L
620	NC	Mecklenburg, County of	L
621	NC	BEAUFORT COUNTY	

621	NC	BEAUFORT COUNTY	
621	NC	SURRY COUNTY	
621	NC	SCOTLAND COUNTY	
621	NC	SAMPSON COUNTY	
622	NC	GATES COUNTY	
622	NC	CALDWELL COUNTY	
622	NC	DARE COUNTY	
622	NC	ONslow COUNTY	
622	NC	CABARRUS COUNTY	
622	NC	Wake, County of	L
623	NC	SAMPSON COUNTY	
623	NC	BEAUFORT COUNTY	
623	NC	FORSYTH COUNTY	
624	NC	BERTIE COUNTY	
624	NC	DARE COUNTY	
624	NC	ROBESON COUNTY	
624	NC	ONslow COUNTY	
624	NC	WAKE COUNTY	
624	NC	Mecklenburg, County of	L
625	NC	MACON COUNTY	
625	NC	PITT COUNTY	
625	NC	GUILFORD COUNTY	
626	NC	CURRITUCK COUNTY	
626	NC	HALIFAX COUNTY	
626	NC	WILKES COUNTY	
626	NC	CARTERET COUNTY	
626	NC	BRUNSWICK COUNTY	
626	NC	Harnett, County of	L
626	NC	Cumberland, County of	L
627	NC	PITT COUNTY	
627	NC	Concord, City of	L
628	NC	NORTHAMPTON COUNTY	
628	NC	PASQUOTANK COUNTY	
628	NC	BURKE COUNTY	
628	NC	CUMBERLAND COUNTY	
628	NC	GUILFORD COUNTY	
629	NC	RICHMOND COUNTY	
629	NC	SURRY COUNTY	
629	NC	NEW HANOVER COUNTY	
629	NC	BEAUFORT COUNTY	

629	NC	WAKE COUNTY	
630	NC	PERQUIMANS COUNTY	
630	NC	DUPLIN COUNTY	
630	NC	ROBESON COUNTY	
630	NC	MECKLENBURG COUNTY	
631	NC	MARTIN COUNTY	
631	NC	MACON COUNTY	
631	NC	BURKE COUNTY	
631	NC	NEW HANOVER COUNTY	
631	NC	JOHNSTON COUNTY	
631	NC	Greensboro, City of	L
631	NC	Burlington, City of	L
632	NC	MECKLENBURG COUNTY	
633	NC	CRAVEN COUNTY	
633	NC	NASH COUNTY	
633	NC	CHOWAN COUNTY	
633	NC	TRANSYLVANIA COUNTY	
633	NC	WATAUGA COUNTY	
633	NC	ROBESON COUNTY	
633	NC	Forsyth, County of	L
634	NC	PERSON COUNTY	
634	NC	PENDER COUNTY	
634	NC	MECKLENBURG COUNTY	
635	NC	GATES COUNTY	
635	NC	LENOIR COUNTY	
635	NC	SCOTLAND COUNTY	
635	NC	WATAUGA COUNTY	
635	NC	DAVIDSON COUNTY	
636	NC	COLUMBUS COUNTY	
636	NC	ROCKINGHAM COUNTY	
636	NC	Wake, County of	L
637	NC	WASHINGTON COUNTY	
637	NC	JONES COUNTY	
637	NC	MECKLENBURG COUNTY	
638	NC	RUTHERFORD COUNTY	
638	NC	Cumberland, County of	L
640	NC	BLADEN COUNTY	
640	NC	ROWAN COUNTY	

640	NC	Shelby, City of	L
640	NC	Wake, County of	L
641	NC	ANSON COUNTY	
642	NC	HYDE COUNTY	
642	NC	MACON COUNTY	
642	NC	ONSLow COUNTY	
642	NC	DAVIDSON COUNTY	
642	NC	Harnett, County of	L
642	NC	Cumberland, County of	L
643	NC	PITT COUNTY	
643	NC	BUNCOMBE COUNTY	
644	NC	CARTERET COUNTY	
644	NC	BRUNSWICK COUNTY	
644	NC	N.C., State of	L
645	NC	GREENE COUNTY	
645	NC	RUTHERFORD COUNTY	
646	NC	NORTHAMPTON COUNTY	
646	NC	PASQUOTANK COUNTY	
646	NC	ROBESON COUNTY	
646	NC	BRUNSWICK COUNTY	
646	NC	BUNCOMBE COUNTY	
646	NC	FORSYTH COUNTY	
647	NC	CALDWELL COUNTY	
647	NC	Wake, County of	L
647	NC	Concord, City of	L
648	NC	NORTHAMPTON COUNTY	
648	NC	SURRY COUNTY	
648	NC	JACKSON COUNTY	
648	NC	NEW HANOVER COUNTY	
648	NC	BEAUFORT COUNTY	
648	NC	ROBESON COUNTY	
649	NC	PERQUIMANS COUNTY	
649	NC	POLK COUNTY	
649	NC	Greensboro, City of	L
649	NC	Wake, County of	L
650	NC	ANSON COUNTY	
650	NC	JACKSON COUNTY	
650	NC	LENOIR COUNTY	

650	NC	ROBESON COUNTY	
650	NC	NORTHAMPTON COUNTY	
650	NC	SURRY COUNTY	
650	NC	HYDE COUNTY	
651	NC	CHOWAN COUNTY	
651	NC	CALDWELL COUNTY	
651	NC	PENDER COUNTY	
651	NC	DAVIDSON COUNTY	
651	NC	WAKE COUNTY	
652	NC	LENOIR COUNTY	
652	NC	ROCKINGHAM COUNTY	
653	NC	GATES COUNTY	
653	NC	PENDER COUNTY	
653	NC	Mecklenburg, County of	L
653	NC	Wake, County of	L
654	NC	CRAVEN COUNTY	
654	NC	YANCEY COUNTY	
654	NC	McDOWELL COUNTY	
654	NC	SCOTLAND COUNTY	
654	NC	Forsyth, County of	L
655	NC	TYRRELL COUNTY	
655	NC	COLUMBUS COUNTY	
655	NC	JOHNSTON COUNTY	
656	NC	JONES COUNTY	
656	NC	HALIFAX COUNTY	
656	NC	HOKE COUNTY	
656	NC	ALAMANCE COUNTY	
656	NC	Mecklenburg, County of	L
657	NC	SURRY COUNTY	
657	NC	CAMDEN COUNTY	
657	NC	COLUMBUS COUNTY	
658	NC	Greensboro, City of	L
658	NC	Wake, County of	L
658	NC	Mecklenburg, County of	L
659	NC	BEAUFORT COUNTY	
659	NC	BEAUFORT COUNTY	
659	NC	SURRY COUNTY	
660	NC	NASH COUNTY	

660	NC	DARE COUNTY	
660	NC	LINCOLN COUNTY	
660	NC	CUMBERLAND COUNTY	
660	NC	ONslow COUNTY	
660	NC	Greensboro, City of	L
660	NC	Burlington, City of	L
660	NC	Thomasville, City of	L
661	NC	VANCE COUNTY	
661	NC	PASQUOTANK COUNTY	
661	NC	SURRY COUNTY	
662	NC	BERTIE COUNTY	
662	NC	DARE COUNTY	
662	NC	ROCKINGHAM COUNTY	
662	NC	NEW HANOVER COUNTY	
662	NC	CUMBERLAND COUNTY	
662	NC	CRAVEN COUNTY	
662	NC	Mecklenburg, County of	L
663	NC	WILSON COUNTY	
663	NC	BUNCOMBE COUNTY	
663	NC	DAVIDSON COUNTY	
664	NC	CARTERET COUNTY	
664	NC	BRUNSWICK COUNTY	
664	NC	Harnett, County of	L
664	NC	Cumberland, County of	L
665	NC	IREDELL COUNTY	
665	NC	PITT COUNTY	
665	NC	BUNCOMBE COUNTY	
665	NC	Cumberland, County of	L
666	NC	NORTHAMPTON COUNTY	
666	NC	PASQUOTANK COUNTY	
666	NC	WATAUGA COUNTY	
666	NC	BRUNSWICK COUNTY	
666	NC	GUILFORD COUNTY	
667	NC	CRAVEN COUNTY	
667	NC	SURRY COUNTY	
667	NC	WAKE COUNTY	
667	NC	Mecklenburg, County of	
668	NC	PERQUIMANS COUNTY	
668	NC	POLK COUNTY	
668	NC	CALDWELL COUNTY	

668	NC	NEW HANOVER COUNTY	
668	NC	CUMBERLAND COUNTY	
668	NC	GUILFORD COUNTY	
669	NC	WARREN COUNTY	
669	NC	ALLEGHANY COUNTY	
669	NC	MARTIN COUNTY	
669	NC	MACON COUNTY	
669	NC	Concord, City of	L
670	NC	HYDE COUNTY	
670	NC	LENOIR COUNTY	
670	NC	BURKE COUNTY	
670	NC	CUMBERLAND COUNTY	
671	NC	CHOWAN COUNTY	
671	NC	PENDER COUNTY	
671	NC	DURHAM COUNTY	
671	NC	Forsyth, County of	L
672	NC	JACKSON COUNTY	
672	NC	WAYNE COUNTY	
672	NC	N.C., State of	L
673	NC	CRAVEN COUNTY	
673	NC	MITCHELL COUNTY	
673	NC	HERTFORD COUNTY	
673	NC	ROCKINGHAM COUNTY	
673	NC	PENDER COUNTY	
674	NC	MECKLENBURG COUNTY	
674	NC	CLAY COUNTY	
674	NC	ASHE COUNTY	
674	NC	Wake, County of	L
675	NC	WASHINGTON COUNTY	
675	NC	JONES COUNTY	
675	NC	YANCEY COUNTY	
675	NC	DAVIDSON COUNTY	
676	NC	CHEROKEE COUNTY	
676	NC	HENDERSON COUNTY	
676	NC	MECKLENBURG COUNTY	
676	NC	Cumberland, County of	L
678	NC	BLADEN COUNTY	
678	NC	ROWAN COUNTY	
678	NC	Shelby, City of	L

678	NC	Wake, County of	L
679	NC	ANSON COUNTY	
680	NC	MACON COUNTY	
680	NC	NEW HANOVER COUNTY	
680	NC	CRAVEN COUNTY	
680	NC	Harnett, County of	L
680	NC	Cumberland, County of	L
681	NC	MARTIN COUNTY	
681	NC	ASHE COUNTY	
681	NC	DUPLIN COUNTY	
681	NC	DARE COUNTY	
681	NC	GUILFORD COUNTY	
682	NC	NORTHAMPTON COUNTY	
682	NC	PASQUOTANK COUNTY	
682	NC	CARTERET COUNTY	
682	NC	BRUNSWICK COUNTY	
682	NC	WAKE COUNTY	
682	NC	Mecklenburg, County of	L
683	NC	POLK COUNTY	
683	NC	CUMBERLAND COUNTY	
683	NC	PITT COUNTY	
683	NC	Greensboro, City of	L
684	NC	MACON COUNTY	
684	NC	BRUNSWICK COUNTY	
684	NC	UNION COUNTY	
685	NC	CRAVEN COUNTY	
685	NC	ROBESON COUNTY	
685	NC	DAVIDSON COUNTY	
685	NC	WAKE COUNTY	
686	NC	PERQUIMANS COUNTY	
686	NC	ALEXANDER COUNTY	
686	NC	HAYWOOD COUNTY	
686	NC	NEW HANOVER COUNTY	
687	NC	HYDE COUNTY	
687	NC	Greensboro, City of	L
687	NC	Wake, County of	L
688	NC	CHOWAN COUNTY	
688	NC	HAYWOOD COUNTY	

688	NC	PENDER COUNTY	
689	NC	NASH COUNTY	
689	NC	CLAY COUNTY	
689	NC	PAMLICO COUNTY	
689	NC	BURKE COUNTY	
689	NC	ROBESON COUNTY	
689	NC	Forsyth, County of	L
690	NC	GATES COUNTY	
690	NC	ASHE COUNTY	
690	NC	PENDER COUNTY	
690	NC	MECKLENBURG COUNTY	
691	NC	RUTHERFORD COUNTY	
691	NC	JOHNSTON COUNTY	
691	NC	ALAMANCE COUNTY	
691	NC	STOKES COUNTY	
691	NC	SCOTLAND COUNTY	
692	NC	JONES COUNTY	
692	NC	HERTFORD COUNTY	
692	NC	ASHE COUNTY	
692	NC	COLUMBUS COUNTY	
692	NC	MECKLENBURG COUNTY	
693	NC	YANCEY COUNTY	
693	NC	MOORE COUNTY	
693	NC	DURHAM COUNTY	
694	NC	CAMDEN COUNTY	
694	NC	CLAY COUNTY	
694	NC	COLUMBUS COUNTY	
694	NC	WAYNE COUNTY	
694	NC	HENDERSON COUNTY	
694	NC	Mecklenburg, County of	L
694	NC	Greensboro, City of	L
695	NC	BEAUFORT COUNTY	
695	NC	SURRY COUNTY	
695	NC	SCOTLAND COUNTY	
696	NC	CLEVELAND COUNTY	
696	NC	Greensboro, City of	L
696	NC	Wake, County of	L
696	NC	CAMDEN COUNTY	
696	NC	COLUMBUS COUNTY	

697	NC	BEAUFORT COUNTY	
697	NC	SURRY COUNTY	
697	NC	SCOTLAND COUNTY	
697	NC	SAMPSON COUNTY	
698	NC	GATES COUNTY	
698	NC	CALDWELL COUNTY	
698	NC	DARE COUNTY	
698	NC	ONSLow COUNTY	
698	NC	CABARRUS COUNTY	
698	NC	Wake, County of	L
699	NC	MITCHELL COUNTY	
699	NC	SAMPSON COUNTY	
699	NC	BEAUFORT COUNTY	
699	NC	FORSYTH COUNTY	
700	NC	MOORE COUNTY	
700	NC	DURHAM COUNTY	
700	NC	Mecklenburg, County of	L
701	NC	GREENE COUNTY	
701	NC	MADISON COUNTY	
701	NC	BERTIE COUNTY	
701	NC	CURRITUCK COUNTY	
701	NC	WILKES COUNTY	
701	NC	NEW HANOVER COUNTY	
701	NC	GUILFORD COUNTY	
702	NC	CHEROKEE COUNTY	
702	NC	Harnett, County of	L
702	NC	Cumberland, County of	L
703	NC	ALLEGHANY COUNTY	
703	NC	MITCHELL COUNTY	
703	NC	BERTIE COUNTY	
703	NC	CURRITUCK COUNTY	
703	NC	BRUNSWICK COUNTY	
703	NC	Concord, City of	L
703	NC	N.C., State of	L
704	NC	JACKSON COUNTY	
704	NC	CALDWELL COUNTY	
704	NC	ROBESON COUNTY	
704	NC	PITT COUNTY	
704	NC	FORSYTH COUNTY	
705	NC	ALLEGHANY COUNTY	

705	NC	PERQUIMANS COUNTY	
705	NC	BRUNSWICK COUNTY	
705	NC	WAKE COUNTY	
705	NC	Mecklenburg, County of	L
706	NC	CUMBERLAND COUNTY	
706	NC	NORTHAMPTON COUNTY	
706	NC	DAVIDSON COUNTY	
706	NC	CALDWELL COUNTY	
706	NC	BEAUFORT COUNTY	
707	NC	NASH COUNTY	
707	NC	CHATHAM COUNTY	
707	NC	SURRY COUNTY	
707	NC	PERQUIMANS COUNTY	
707	NC	ANSON COUNTY	
707	NC	NEW HANOVER COUNTY	
708	NC	NORTHAMPTON COUNTY	
708	NC	PERSON COUNTY	
708	NC	LENOIR COUNTY	
708	NC	WATAUGA COUNTY	
708	NC	ROBESON COUNTY	
708	NC	GASTON COUNTY	
709	NC	CHOWAN COUNTY	
709	NC	PENDER COUNTY	
709	NC	JOHNSTON COUNTY	
709	NC	Forsyth, County of	L
710	NC	LENOIR COUNTY	
710	NC	HALIFAX COUNTY	
710	NC	ROBESON COUNTY	
710	NC	MECKLENBURG COUNTY	
710	NC	Greensboro, City of	
710	NC	Burlington, City of	
711	NC	YANCEY COUNTY	
711	NC	ALEXANDER COUNTY	
711	NC	PENDER COUNTY	
711	NC	MONTGOMERY COUNTY	
711	NC	HERTFORD COUNTY	
712	NC	MECKLENBURG COUNTY	
712	NC	ROCKINGHAM COUNTY	
712	NC	Wake, County of	L
713	NC	WASHINGTON COUNTY	

713	NC	JONES COUNTY	
713	NC	DAVIDSON COUNTY	
714	NC	CHEROKEE COUNTY	
714	NC	HENDERSON COUNTY	
714	NC	MECKLENBURG COUNTY	
714	NC	Cumberland, County of	L
716	NC	DAVIDSON COUNTY	
716	NC	BLADEN COUNTY	
716	NC	Shelby, City of	L
716	NC	Wake, County of	L
718	NC	CRAVEN COUNTY	
718	NC	Harnett, County of	L
718	NC	Cumberland, County of	L
719	NC	GUILFORD COUNTY	
719	NC	MARTIN COUNTY	
719	NC	ASHE COUNTY	
719	NC	DUPLIN COUNTY	
719	NC	CURRITUCK COUNTY	
720	NC	NORTHAMPTON COUNTY	
720	NC	CARTERET COUNTY	
720	NC	BRUNSWICK COUNTY	
720	NC	WAKE COUNTY	
720	NC	Mecklenburg, County of	L
721	NC	PASQUOTANK COUNTY	
721	NC	CUMBERLAND COUNTY	
721	NC	PITT COUNTY	
721	NC	GUILFORD COUNTY	
722	NC	WAKE COUNTY	
722	NC	GRAHAM COUNTY	
722	NC	BERTIE COUNTY	
722	NC	RICHMOND COUNTY	
722	NC	DUPLIN COUNTY	
722	NC	SURRY COUNTY	
722	NC	BUNCOMBE COUNTY	
723	NC	WAKE COUNTY	
723	NC	NEW HANOVER COUNTY	
723	NC	BEAUFORT COUNTY	
723	NC	CUMBERLAND COUNTY	
723	NC	Concord, City of	L
723	NC	Greensboro, City of	L

724	NC	PERQUIMANS COUNTY	
724	NC	RICHMOND COUNTY	
724	NC	DUPLIN COUNTY	
724	NC	CALDWELL COUNTY	
725	NC	HYDE COUNTY	
725	NC	ROCKINGHAM COUNTY	
725	NC	NEW HANOVER COUNTY	
725	NC	Mecklenburg, County of	L
725	NC	Wake, County of	L
726	NC	MARTIN COUNTY	
726	NC	SAMPSON COUNTY	
727	NC	NASH COUNTY	
727	NC	PAMLICO COUNTY	
727	NC	GATES COUNTY	
727	NC	CHEROKEE COUNTY	
727	NC	BURKE COUNTY	
727	NC	ROBESON COUNTY	
727	NC	Forsyth, County of	L
728	NC	ASHE COUNTY	
728	NC	PENDER COUNTY	
728	NC	MECKLENBURG COUNTY	
729	NC	STOKES COUNTY	
729	NC	HERTFORD COUNTY	
729	NC	SCOTLAND COUNTY	
729	NC	RUTHERFORD COUNTY	
729	NC	JOHNSTON COUNTY	
729	NC	ALAMANCE COUNTY	
730	NC	JONES COUNTY	
730	NC	AVERY COUNTY	
730	NC	COLUMBSU COUNTY	
730	NC	MECKLENBURG COUNTY	
731	NC	DAVIE COUNTY	
731	NC	TYRRELL COUNTY	
731	NC	RUTHERFORD COUNTY	
731	NC	MOORE COUNTY	
731	NC	DURHAM COUNTY	
732	NC	MARTIN COUNTY	
732	NC	AVERY COUNTY	
732	NC	COLUMBUS COUNTY	

732	NC	WAYNE COUNTY	
732	NC	MECKLENBURG COUNTY	
732	NC	Greensboro, City of	L
733	NC	SURRY COUNTY	
733	NC	MONTGOMERY COUNTY	
733	NC	CAMDEN COUNTY	
734	NC	Greensboro, City of	L
734	NC	Wake, County of	L
735	NC	SURRY COUNTY	
736	NC	DARE COUNTY	
736	NC	ONSLow COUNTY	
736	NC	Wake, County of	L
736	NC	DAVIDSON COUNTY	
736	NC	WASHINGTON COUNTY	
736	NC	CALDWELL COUNTY	
737	NC	ALLEGHANY COUNTY	
737	NC	PASQUOTANK COUNTY	
737	NC	SAMPSON COUNTY	
737	NC	ROCKINGHAM COUNTY	
737	NC	BUNCOMBE COUNTY	
738	NC	BERTIE COUNTY	
738	NC	DARE COUNTY	
738	NC	NEW HANOVER COUNTY	
738	NC	CRAVEN COUNTY	
738	NC	WAKE COUNTY	
738	NC	Mecklenburg, County of	L
739	NC	McDOWELL COUNTY	
739	NC	SAMPSON COUNTY	
739	NC	SURRY COUNTY	
740	NC	GRAHAM COUNTY	
740	NC	CURRITUCK COUNTY	
740	NC	NEW HANOVER COUNTY	
740	NC	CARTERET COUNTY	
740	NC	PITT COUNTY	
740	NC	Greensboro, City of	L
740	NC	Burlington, City of	L
740	NC	Harnett, County of	L
741	NC	HYDE COUNTY	
741	NC	BERTIE COUNTY	

741	NC	Greensboro, City of	L
741	NC	Burlington, City of	L
741	NC	N.C., State of	L
742	NC	CRAVEN COUNTY	
742	NC	NASH COUNTY	
742	NC	PASQUOTANK COUNTY	
742	NC	HENDERSON COUNTY	
743	NC	MARTIN COUNTY	
743	NC	STOKES COUNTY	
743	NC	CUMBERLAND COUNTY	
743	NC	BRUNSWICK COUNTY	
743	NC	Mecklenburg, County of	L
744	NC	NORTHAMPTON COUNTY	
744	NC	CRAVEN COUNTY	
744	NC	ALLEGHANY COUNTY	
744	NC	RICHMOND COUNTY	
744	NC	WAKE COUNTY	
745	NC	PERSON COUNTY	
745	NC	BURKE COUNTY	
745	NC	NEW HANOVER COUNTY	
745	NC	CUMBERLAND COUNTY	
745	NC	DAVIDSON COUNTY	
746	NC	CHOWAN COUNTY	
746	NC	ROCKINGHAM COUNTY	
746	NC	WAKE COUNTY	
747	NC	LENOIR COUNTY	
747	NC	ALEXANDER COUNTY	
747	NC	ROBESON COUNTY	
747	NC	UNION COUNTY	
748	NC	GATES COUNTY	
748	NC	PENDER COUNTY	
748	NC	JOHNSTON COUNTY	
748	NC	Greensboro, City of	L
748	NC	Burlington, City of	L
748	NC	Thomasville, City of	L
749	NC	CRAVEN COUNTY	
749	NC	MECKLENBURG COUNTY	
749	NC	SCOTLAND COUNTY	
750	NC	CAMDEN COUNTY	

750	NC	BLADEN COUNTY	
750	NC	McDOWELL COUNTY	
750	NC	FORSYTH COUNTY	
750	NC	Wake, County of	L
751	NC	JONES COUNTY	
751	NC	MECKLENBURG COUNTY	
752	NC	RUTHERFORD COUNTY	
752	NC	Cumberland, County of	L
754	NC	ROWAN COUNTY	
754	NC	Shelby, City of	L
754	NC	Wake, County of	L
755	NC	SAMPSON COUNTY	
756	NC	MADISON COUNTY	
756	NC	NEW HANOVER COUNTY	
756	NC	CRAVEN COUNTY	
756	NC	WAKE COUNTY	
757	NC	MARTIN COUNTY	
757	NC	CURRITUCK COUNTY	
757	NC	WATAUGA COUNTY	
757	NC	CUMBERLAND COUNTY	
757	NC	UNION COUNTY	
757	NC	Forsyth, County of	L
758	NC	NORTHAMPTON COUNTY	
758	NC	CATAWBA COUNTY	
758	NC	CARTERET COUNTY	
758	NC	BRUNSWICK COUNTY	
758	NC	WAKE COUNTY	
759	NC	PASQUOTANK COUNTY	
759	NC	WATAUGA COUNTY	
759	NC	CUMBERLAND COUNTY	
759	NC	PITT COUNTY	
759	NC	Greensboro, City of	L
759	NC	Burlington, City of	L
760	NC	WAKE COUNTY	
760	NC	GRAHAM COUNTY	
760	NC	NORTHAMPTON COUNTY	
760	NC	RICHMOND COUNTY	
760	NC	DUPLIN COUNTY	
760	NC	SURRY COUNTY	

760	NC	BUNCOMBE COUNTY	
761	NC	CASWELL COUNTY	
761	NC	RUTHERFORD COUNTY	
761	NC	NEW HANOVER COUNTY	
761	NC	BEAUFORT COUNTY	
761	NC	CUMBERLAND COUNTY	
761	NC	Concord, City of	L
762	NC	PERQUIMANS COUNTY	
762	NC	RICHMOND COUNTY	
762	NC	FORSYTH COUNTY	
763	NC	HYDE COUNTY	
763	NC	PENDER COUNTY	
763	NC	Mecklenburg, County of	L
763	NC	Wake, County of	L
764	NC	CHOWAN COUNTY	
764	NC	LENOIR COUNTY	
764	NC	CALDWELL COUNTY	
764	NC	ROBESON COUNTY	
764	NC	DAVIDSON COUNTY	
765	NC	NASH COUNTY	
765	NC	SURRY COUNTY	
765	NC	PAMLICO COUNTY	
765	NC	CHEROKEE COUNTY	
765	NC	PENDER COUNTY	
765	NC	HENDERSON COUNTY	
765	NC	ALAMANCE COUNTY	
765	NC	MECKLENBURG COUNTY	
766	NC	ROBESON COUNTY	
766	NC	GATES COUNTY	
766	NC	YANCEY COUNTY	
766	NC	LENOIR COUNTY	
766	NC	CALDWELL COUNTY	
767	NC	GRAHAM COUNTY	
767	NC	MITCHELL COUNTY	
767	NC	PENDER COUNTY	
767	NC	Forsyth, County of	L
767	NC	Wake, County of	L
768	NC	HERTFORD COUNTY	
768	NC	SCOTLAND COUNTY	
768	NC	HENDERSON COUNTY	
768	NC	MECKLENBURG COUNTY	

769	NC	BEAUFORT COUNTY	
769	NC	ALEXANDER COUNTY	
769	NC	COLUMBUS COUNTY	
769	NC	JOHNSTON COUNTY	
770	NC	CAMDEN COUNTY	
770	NC	JACKSON COUNTY	
770	NC	HALIFAX COUNTY	
770	NC	HOKE COUNTY	
770	NC	GASTON COUNTY	
770	NC	Greensboro, City of	L
770	NC	Burlington, City of	L
770	NC	Thomasville, City of	L
771	NC	BEAUFORT COUNTY	
771	NC	SURRY COUNTY	
771	NC	McDOWELL COUNTY	
771	NC	COLUMBUS COUNTY	
772	NC	CAMDEN COUNTY	
772	NC	TRANSYLVANIA COUNTY	
772	NC	Greensboro, City of	L
772	NC	Wake, County of	L
772	NC	Mecklenburg, County of	L
773	NC	BEAUFORT COUNTY	
773	NC	SURRY COUNTY	
774	NC	NORTHAMPTON COUNTY	
774	NC	DARE COUNTY	
774	NC	CATAWBA COUNTY	
774	NC	CUMBERLAND COUNTY	
774	NC	ONSLOW COUNTY	
774	NC	GUILFORD COUNTY	
775	NC	PASQUOTANK COUNTY	
775	NC	SURRY COUNTY	
775	NC	BUNCOMBE COUNTY	
775	NC	WAKE COUNTY	
776	NC	NORTHAMPTON COUNTY	
776	NC	DARE COUNTY	
776	NC	CUMBERLAND COUNTY	
776	NC	CRAVEN COUNTY	
776	NC	Mecklenburg, County of	
777	NC	MARTIN COUNTY	

777	NC	WATAUGA COUNTY	
777	NC	FRANKLIN COUNTY	
777	NC	BRUNSWICK COUNTY	
777	NC	BUNCOMBE COUNTY	
777	NC	GUILFORD COUNTY	
778	NC	NORTHAMPTON COUNTY	
778	NC	SWAIN COUNTY	
778	NC	CURRITUCK COUNTY	
778	NC	SURRY COUNTY	
778	NC	CARTERET COUNTY	
778	NC	Harnett, County of	L
778	NC	Cumberland, County of	L
779	NC	HYDE COUNTY	
779	NC	BRUNSWICK COUNTY	
779	NC	DURHAM COUNTY	
779	NC	Mecklenburg, County of	L
780	NC	POLK COUNTY	
780	NC	PASQUOTANK COUNTY	
780	NC	CUMBERLAND COUNTY	
780	NC	PITT COUNTY	
780	NC	GUILFORD COUNTY	
781	NC	MADISON COUNTY	
781	NC	IREDELL COUNTY	
781	NC	BRUNSWICK COUNTY	
781	NC	WAKE COUNTY	
782	NC	BEAUFORT COUNTY	
783	NC	HAYWOOD COUNTY	
783	NC	BURKE COUNTY	
783	NC	DAVIDSON COUNTY	
783	NC	Cumberland, County of	L
784	NC	WARREN COUNTY	
784	NC	ORANGE COUNTY	
784	NC	LENOIR COUNTY	
785	NC	STOKES COUNTY	
785	NC	PAMLICO COUNTY	
785	NC	Cumberland, County of	L
786	NC	TYRRELL COUNTY	
786	NC	EDGECOMBE COUNTY	
786	NC	ALAMANCE COUNTY	

786	NC	Concord, City of	L
787	NC	CRAVEN COUNTY	
787	NC	SCOTLANDCOUNTY	
787	NC	PENDER COUNTY	
787	NC	FORSYTH COUNTY	
788	NC	TYRRELL COUNTY	
788	NC	Wake, County of	
788	NC	Mecklenburg, County of	
789	NC	LENOIR COUNTY	
789	NC	HENDERSON COUNTY	
789	NC	RANDOLPH COUNTY	
790	NC	MECKLENBURG COUNTY	
790	NC	Cumberland, County of	L
791	NC	GREENE COUNTY	
791	NC	DAVIDSON COUNTY	
792	NC	MECKLENBURG COUNTY	
792	NC	WARREN COUNTY	
792	NC	ORANGE COUNTY	
792	NC	CAMDEN COUNTY	
792	NC	SWAIN COUNTY	
792	NC	McDOWELL COUNTY	
792	NC	COLUMBUS COUNTY	
793	NC	MONTGOMERY COUNTY	
794	NC	WASHINGTON COUNTY	
794	NC	DARE COUNTY	
794	NC	ONslow COUNTY	
794	NC	Greensboro, City of	L
794	NC	Wake, County of	L
795	NC	ALLEGHANY COUNTY	
795	NC	JACKSON COUNTY	
795	NC	PASQUOTANK COUNTY	
795	NC	SAMPSON COUNTY	
796	NC	BERTIE COUNTY	
796	NC	DARE COUNTY	
796	NC	BURKE COUNTY	
796	NC	NEW HANOVER COUNTY	
796	NC	CRAVEN COUNTY	
796	NC	WAKE COUNTY	

796	NC	Forsyth, County of	L
797	NC	CUMBERLAND COUNTY	
797	NC	UNION COUNTY	
798	NC	GREENE COUNTY	
798	NC	DAVIE COUNTY	
798	NC	CURRITUCK COUNTY	
798	NC	NEW HANOVER COUNTY	
798	NC	CARTERET COUNTY	
799	NC	ROCKINGHAM COUNTY	
799	NC	HYDE COUNTY	
799	NC	HAYWOOD COUNTY	
799	NC	HALIFAX COUNTY	
799	NC	BURKE COUNTY	
799	NC	Cumberland, County of	L
799	NC	Harnett, County of	L
800	NC	GRANVILLE COUNTY	
800	NC	PASQUOTANK COUNTY	
800	NC	STANLY COUNTY	
800	NC	SURRY COUNTY	
800	NC	PITT COUNTY	
800	NC	BRUNSWICK COUNTY	
801	NC	SAMPSON COUNTY	
801	NC	HALIFAX COUNTY	
801	NC	CALDWELL COUNTY	
801	NC	Greensboro, City of	L
801	NC	Burlington, City of	L
802	NC	SURRY COUNTY	
802	NC	BEAUFORT COUNTY	
803	NC	WATAUGA COUNTY	
803	NC	ROCKINGHAM COUNTY	
803	NC	PENDER COUNTY	
803	NC	Wake, County of	L
803	NC	Mecklenburg, County of	L
804	NC	CHOWAN COUNTY	
804	NC	LENOIR COUNTY	
804	NC	ROBESON COUNTY	
805	NC	WARREN COUNTY	
805	NC	PAMLICO COUNTY	
805	NC	HAYWOOD COUNTY	

805	NC	RUTHERFORD COUNTY	
805	NC	PENDER COUNTY	
805	NC	Forsyth, County of	L
806	NC	ORANGE COUNTY	
806	NC	WASHINGTON COUNTY	
806	NC	MECKLENBURG COUNTY	
807	NC	CRAVEN COUNTY	
807	NC	WARREN COUNTY	
807	NC	STOKES COUNTY	
807	NC	HENDERSON COUNTY	
807	NC	Cumberland, County of	L
808	NC	DAVIE COUNTY	
808	NC	ORANGE COUNTY	
808	NC	DUPLIN COUNTY	
809	NC	TYRRELL COUNTY	
809	NC	SWAIN COUNTY	
809	NC	COLUMBUS COUNTY	
809	NC	RUTHERFORD COUNTY	
809	NC	JOHNSTON COUNTY	
810	NC	LENOIR COUNTY	
810	NC	ALEXANDER COUNTY	
810	NC	HALIFAX COUNTY	
810	NC	HOKE COUNTY	
810	NC	Greensboro, City of	L
810	NC	Burlington, City of	L
810	NC	Thomasville, City of	L
811	NC	MECKLENBURG COUNTY	
811	NC	CAMDEN COUNTY	
811	NC	McDOWELL COUNTY	
811	NC	COLUMBUS COUNTY	
812	NC	Greensboro, City of	L
812	NC	Wake, County of	L
813	NC	SAMPSON COUNTY	
814	NC	MARTIN COUNTY	
814	NC	DARE COUNTY	
814	NC	RUTHERFORD COUNTY	
814	NC	ONSLOW COUNTY	
814	NC	WAKE COUNTY	
814	NC	Concord, City of	L

815	NC	PASQUOTANK COUNTY	
815	NC	SAMPSON COUNTY	
815	NC	WILKES COUNTY	
815	NC	GUILFORD COUNTY	
816	NC	MADISON COUNTY	
816	NC	BERTIE COUNTY	
816	NC	DARE COUNTY	
816	NC	CRAVEN COUNTY	
816	NC	WAKE COUNTY	
816	NC	Mecklenburg, County of	L
817	NC	WILKES COUNTY	
817	NC	BRUNSWICK COUNTY	
817	NC	GUILFORD COUNTY	
818	NC	PERSON COUNTY	
818	NC	CURRITUCK COUNTY	
818	NC	CARTERET COUNTY	
818	NC	PITT COUNTY	
818	NC	BUNCOMBE COUNTY	
818	NC	Cumberland, County of	L
819	NC	GATES COUNTY	
819	NC	HALIFAX COUNTY	
819	NC	BRUNSWICK COUNTY	
819	NC	Cumberland, County of	L
819	NC	Mecklenburg, County of	L
820	NC	WATAUGA COUNTY	
820	NC	HAYWOOD COUNTY	
820	NC	BEAUFORT COUNTY	
820	NC	GUILFORD COUNTY	
821	NC	PERQUIMANS COUNTY	
821	NC	POLK COUNTY	
821	NC	BRUNSWICK COUNTY	
821	NC	WAKE COUNTY	
821	NC	Mecklenburg, County of	L
822	NC	NORTHAMPTON COUNTY	
822	NC	LENOIR COUNTY	
822	NC	HYDE COUNTY	
822	NC	MADISON COUNTY	
822	NC	CALDWELL COUNTY	
822	NC	CUMBERLAND COUNTY	
822	NC	GUILFORD COUNTY	

823	NC	CHOWAN COUNTY	
823	NC	PENDER COUNTY	
823	NC	WAKE COUNTY	
823	NC	Mecklenburg, County of	L
824	NC	LENOIR COUNTY	
824	NC	CALDWELL COUNTY	
824	NC	ROBESON COUNTY	
824	NC	DAVIDSON COUNTY	
825	NC	ROCKINGHAM COUNTY	
825	NC	PENDER COUNTY	
825	NC	HENDERSON COUNTY	
825	NC	Mecklenburg, County	L
825	NC	Wake, County of	L
825	NC	N.C., State of	L
826	NC	GRAHAM COUNTY	
826	NC	LENOIR COUNTY	
826	NC	ROBESON COUNTY	
826	NC	Mecklenburg, County of	L
827	NC	ROCKINGHAM COUNTY	
827	NC	HERTFORD COUNTY	
827	NC	YANCEY COUNTY	
827	NC	TRANSYLVANIA COUNTY	
827	NC	WATAUGA COUNTY	
827	NC	SAMPSON COUNTY	
828	NC	SURRY COUNTY	
828	NC	Wake, County of	L
828	NC	Concord, City of	L
829	NC	CAMDEN COUNTY	
829	NC	JONES COUNTY	
829	NC	ROCKINGHAM COUNTY	
830	NC	MARTIN COUNTY	
830	NC	AVERY COUNTY	
830	NC	YADKIN COUNTY	
830	NC	ALEXANDER COUNTY	
830	NC	SAMPSON COUNTY	
830	NC	LEE COUNTY	
830	NC	JOHNSTON COUNTY	
830	NC	DAVIDSON COUNTY	
830	NC	DURHAM COUNTY	
830	NC	ALAMANCE COUNTY	

## 73 GLOSSARY

- Block - A standard grouping of five channels with a channel spacing of 38.
- Cluster - A grouping of four channels above channel 790 with a channel spacing of 10.
- Group - A standard grouping of two ten channel sets.
- Set - A standard grouping of two five channel blocks.
- SICSPACC - System for Incremental Channelization of the Spectrum with Paring of the Associated Contiguous Channels
- NCRPC - North Carolina Regional Communications Planning Committee
- NMAS - National Mutual Assistance System
- PACC channels - Pared Associated Contiguous Channels

## 74 CHECK LIST OF TECHNICAL REGIONAL PLAN REQUIREMENTS

The following are requirements of the FCC for inclusion in the Regional Plan, as itemized in Docket No. 87-112 Report and Order released December 18, 1987:

- 74.1 Cover page
- 74.2 Name of Regional Planning Chairman
- 74.3 Mailing Address
- 74.4 Telephone Number
- 74.5 Names of the members of the regional planning committee including organizational affiliation, mailing address and telephone number.
- 74.6 Summary of major elements of the plan.
- 74.7 General description of how the spectrum is to be allotted among the various eligible users within the region.
- 74.8 Explanation of how the requirements of all eligible entities within the region were considered and met.
- 74.9 Explanation of how eligible entities have been prioritized in areas where not all can receive licenses.
- 74.10 Explanation of how the plan has been coordinated with adjacent regions.
- 74.11 Detailed description of how the plan puts the spectrum to the best possible use by requiring system design with minimum coverage areas, by assigning frequencies so that maximum frequency reuse and offset channel use may be made, by using trunking, and by requiring small entities with minimal requirements to join together on a single system where possible.

**75 NAMES OF EXECUTIVE SUBCOMMITTEE**

Committee Chairman:

Mr. Harold Meacombs, Communications Engineer  
North Carolina Highway Patrol  
1300 Blue Ridge Road  
Raleigh, North Carolina 27607  
Telephone: 919/ 733-7956

Vice Chairman:

Dyke Hostettler  
North Carolina Highway Patrol  
Information Management Unit  
3318 Garner Road - Building 2 - Room 211  
Raleigh, NC 27610  
Telephone: 919/ 662-4440

Secretary:

Carl C. Van Cott  
North Carolina Office of EMS  
701 Barbour Drive  
Raleigh, NC 27603-2008  
Telephone: 919/ 733-2285

Administrative Subcommittee Chairman:

Not currently active

Technical Subcommittee Chairman:

John C. LeMay, Jr., Communication Systems Manager  
Durham Department of Emergency Services  
Communication Systems Division  
1840 Camden Avenue  
Durham, North Carolina 27704  
919/560-4175

**76 NAMES OF ADMINISTRATIVE SUBCOMMITTEE**

Not currently active

77 **NAMES OF TECHNICAL SUBCOMMITTEE**

Bob Sileo, Motorola  
Jim Neese, Mecklenburg County  
Al Linker, Salisbury  
Eric Combs, Greensboro  
Mark Lojek, Motorola  
Martin Chriscoe, Wake County  
Lloyd Taylor, NC State Telecommunications  
Dick Fay, Duke University  
Dwayne Emerson, Erricsson, Inc.  
Jim Hunt, City of Raleigh

78 NAMES AND ADDRESSES OF REGIONAL PLANNING COMMITTEE

NAME	WORKING TITLE/ AGENCY COMPANY	MAILING ADDRESS	PHONE # FAX # E-MAIL
Roger Bryant	Utilities Director City of Thomasville	PO Box 368 Thomasville, NC 27360	910/475-4220 910/475-4283 robryant@infoave.net
Charles Burkholder	Communications Tech City of High Point	Radio Shop PO Box 230 High Point, NC 27261	910/883-3404
Carolyn H. Carter	Asst City Mgr/Operations City of Raleigh	222 West Hargett Street P.O. Box 590 Raleigh, NC 27602	919/890-3070 919/890-3080
Mike Carter	Personnel/Training Sgt Hickory Police Dept.	35 First St NE Hickory, NC 28601	704/324-2060 704/328-6748
Martin L. Chriscoe	Director of Emerg Serv Wake Co Public Safety	PO Box 550 Raleigh, NC 27602	919/856-6484 919/856-7046 mchriscoe@co.wake.nc.us
Eric Combs	Technical System Mgr. City of Greensboro/	Dept of General Services PO Box 3136 Greensboro, NC 27408-3136	910/373-2526 910/373-2554
Russ Eaker	Telecommunications Mgr Town of Cary	316 N. Academy Street PO Box 8005 Cary, NC 27526	919/469-4014 919/319-4597 reaker@ci.cary.nc.us
Dwayne Emerson	District Sales Manager Ericsson Inc	PO Box 13969 RTP, NC 27709	919/472-7754 919/472-6513 dwayne-emerson@ena-east.ericsson.se
Dick Fay	Network System Planner Duke University OIT	Box 90221 Durham, NC 27708-0221	910/684-8505 919/684-8484 fay000001@mc.duke.edu
Gene Gilleland	State Manager Motorola	222 S Church St Suite 420 Charlotte, NC 28202	704/373-4751 704/370-6562
Glenn Griffin	NC Highway Patrol	1300 Blue Ridge Rd Raleigh, NC 27607	919/733-7956 919/733-7486 hp7131@aoc.state.nc.us
Ed Harr	Senior Systems Engineer Motorola	4925 Allanbrooke Lane Fuquay-Varina, NC 27526	919/557-1365 919/557-1366 harr-cesv02@email.mot.com
James Hicks	Senior Tech Duke University OIT	Box 90221 Durham, NC 27708-0221	919/684-3444 919/684-6034 hicks026@mc.duke.edu
Jimmie B. Holland	Wake County	PO Box 550 Raleigh, NC 27602	919/856-5560 919/856-7046
Max Hopper	Motorola	Box 6500 Union Rd Station Gastonia, NC 28056-6000	704/867-4306 704/864-4410 csal03@email.mot.com
Dyke Hostettler	Information Mgmt Unit NCSHP	3318 Garner Road Raleigh, NC 27610	919/662-4440 919/662-4444 dhostettler@nchsp.org
Jimmy G. Hunt	Director City of Raleigh	PO Box 590 Raleigh, NC 27602	919/890-3530 919/890-3541

NAME	WORKING TITLE/ AGENCY COMPANY	MAILING ADDRESS	PHONE # FAX # E-MAIL
Tracy Jackson	Director of ES Brunswick County	PO Box 249 Bolivia, NC 28422	910/253-5383 910/253-7498
Peter Jeffries	Duke Police	502 Oregon Street Durham, NC 27708	919/684-2068 919/681-7656 jeffriesp@mail01.adm.duke.edu
John C. LeMay, Jr.	Director Communications Sys. Durham County-City	1840 Camden Avenue Durham, NC 27704	919/560-4175 919/560-4400
Cliff Link	Radio Engineer Communications & Info.	600 E 4th St Charlotte, NC 28202	704/336-3946 704/336-5174 msccl@email.charmeck.nc.us
Al Linker	Telecommunications Mgr City of Salisbury	PO Box 479 Salisbury, NC 28144	704/638-5399 704/638-8448 alink@ci.salisbury.nc.us
Chris Linker	Communications City of Concord	PO Box 308 Concord, NC 28026-0308	704/789-2517 704/782-6139 linkercm@concordnc.com
Mark Lojek	Engineering Manager Motorola	222 S. Church St., Suite 420 Charlotte, NC 28202	704/372-4750 704/370-6562 cses44@email.mot.com
Harold Meacombs	Communications Eng. NCSHP	1300 Blue Ridge Road Raleigh, NC 27607	919/733-7956 919/733-7486 hp7222@aoc.state.nc.us
Rick Mitchell	Service Manager Radio Communications	PO Box 68 Cary, NC 27513	919/467-2421 919/467-6548
Jim Neese, Jr.	Director/Radio Services Mecklenburg County	700 E Stonewall St Suite 200 Charlotte, NC 28202	704/336-3226 704/336-5125 neeseje@email.charmeck.nc.us
Phillip Penny	Assistant Director City of Raleigh	PO Box 590 Raleigh, NC 27602	919/890-3537 919/890-3541
Edward Rankin	Communications Eng. Dept. of ES	18 Jordan Drive Pittsboro, NC 27312	919/542-3556  w4zus@mindspring.com
Bob Sileo	Account Executive Motorola Inc	10401 Nine Iron Court Charlotte, NC 28277	704/841-0952 704/841-0953 cnac09@email.mot.com
Lloyd Taylor	Telecom Engineer SIPS	3700 Wake Forest Road Raleigh, NC 27609-6860	919/981-5214 919/981-5027 ltaylor@sips.osc.state.nc.us
Carl C. Van Cott	Communications Spec NCOEMS	PO Box 29530 Raleigh, NC 27626	919/733-2285 919/733-7021 cvancott@dhr.state.nc.us
Holt Watts	Motorola	105 Severn Court Cary, NC 27511	919/303-5785 919/362-5908 csls55@email.mot.com
Samuel Wickline	Duke OIT	Box 90221 Durham, NC 27708-0221	919/684-5989 919/684-6034 wickline@acpub.duke.edu
Ron Wiley	Systems Sales Mgr. Ericsson, Inc	PO Box 13969 RTP, NC 27709	919/472-7810 919/472-6513 Ron_Wiley@ena-east.ericson.se

**79 REFERENCED DOCUMENTS**

- 79.1 Federal Communications Commission Report and Order GEN. Docket No. 87-112  
Adopted: November 24, 1987; Released: December 18, 1987 with Erratum  
Released: January 6, 1988.
  
- 79.2 National Public Safety Planning Advisory Committee Final Report to the Federal  
Communications Commission, September 9, 1987.