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PREFACE

In December, 1983, the United States Congress directed the Federal Communications Commission (FCC) to establish a plan to ensure that the communications needs of state and local public safety authorities would be met for the future. The Commission issued a Notice of Inquiry on March 7, 1984, and evaluated over three hundred comments from the public safety community and other interested parties.

These comments formed the basis for a Staff Report issued by the Commission's Private Radio Bureau on August 1, 1985. This report suggested various methods of meeting the communications needs of public safety. One option included was the allocation of additional frequencies at 821-825 MHz and 866-870 MHz.

The Commission issued an allocation order on September 19, 1986. Six megahertz of spectrum were selected in the 821-824 MHz and 866-869 MHz bands, since they were adjacent to frequencies already being used for public safety purposes. However, while the Commission made this allocation, it also stipulated that the frequencies could not be used until a National Plan for spectrum utilization was adopted.

The Commission then established the National Public Safety Planning Advisory Committee (NPSPAC) in December, 1986. This committee had open membership and all interested parties were invited to participate in its meetings. The Commission charged NPSPAC with the following tasks: (1) identify communications requirements of public safety agencies; (2) develop a scheme for efficient use of the new frequencies;

(3) develop a scheme to increase the utility of existing public safety frequencies;
(4) recommend the manner in which new technologies can be applied to public safety frequencies; and (5) recommend guidelines to ensure compliance with the National Plan.

NPSPAC submitted its Initial Report to the Commission in March, 1987. On May 15, 1987, the Commission issued a Notice of Proposed Rule Making proposing policies and rules for the National Plan. NPSPAC then issued its Final Report in September, 1987. On December 18, 1987, the Commission released a Report and Order regarding the development and implementation of a Public Safety National Plan: General Docket N. 87-112.

In its introductory comments the Commission expresses its belief that “while certain technical concerns must be addressed at the national level, the great diversity of needs in different areas of the country demand that input also be obtained at the State and Local levels.” Thus, the United States was divided into Regions, primarily along State boundaries.

The Indiana 800 MHz Planning Region is composed of eighty-two (82) of the ninety-two counties that make up the State of Indiana. Ten (10) northwest Indiana counties have been added to, and now make up part of, the forty-three county Southern Lake Michigan 800 MHz Planning Region, centered on the Chicago metropolitan region.

This document constitutes the Public Safety Communications Plan for Region No. 14: The Indiana Planning Region.

The following Indiana 800 MHz Regional Plan addresses the unique spectrum allocation requirements of the public safety and governmental authorities throughout the eighty-two (82) county Indiana Planning Region. It is respectfully submitted to the Commission this twenty-first day of November, 1989, under the umbrella of the National Plan.

Donald W. Kottlowski

Chairman

THE REGION

ESTABLISHMENT OF REGIONAL BOUNDARIES

For Public Safety Communication purposes, the Indiana Region (the Region) is the geographic area of the State of Indiana except the ten (10) Indiana counties within the Southern Lake Michigan Region. The Indiana Region is comprised of eighty-two counties within the State of Indiana. Its four million three hundred thousand people represent approximately 1.8 percent of the Nation's population.

Protecting the lives and property of these persons is a function of hundreds of Public Safety and Special Emergency agencies which are operated or regulated by a multitude of various political jurisdictions. Personal mobility and the proximity of communities in today's heavily urbanized areas demand cooperation and coordination among these agencies. Whether the activity is search and rescue on Indiana lakes, or the pursuit of a criminal offender along Indiana's Interstate Highways, mobile and portable radios provide the means for the myriad agencies involved to communicate with each other.

Radio communications also provide the means for each agency to accomplish its own individual, day-to-day operations. These communications must be reliable, and free from interference from neighboring agencies. Therefore, frequencies must be assigned to agencies throughout a given area in a manner that make inter-agency communication possible, but prevents inter-agency interference.

Other issues to be considered when determining what area should comprise a Planning Region are: the continuing urbanization of outlying counties; the sophistication of radio technology; and most importantly, the amount of radio spectrum available to public safety agencies throughout the area.

Final boundaries for the Indiana 800 MHz Planning Region were adopted by the F.C.C. on March 30, 1988, after a petition for reconsideration by NPSPAC for re-alignment of boundaries was filed.

The eighty-two (82) counties which comprise the Indiana 800 MHz Planning Region are listed in Table 1, and shown in Figure 1.

Figure 1

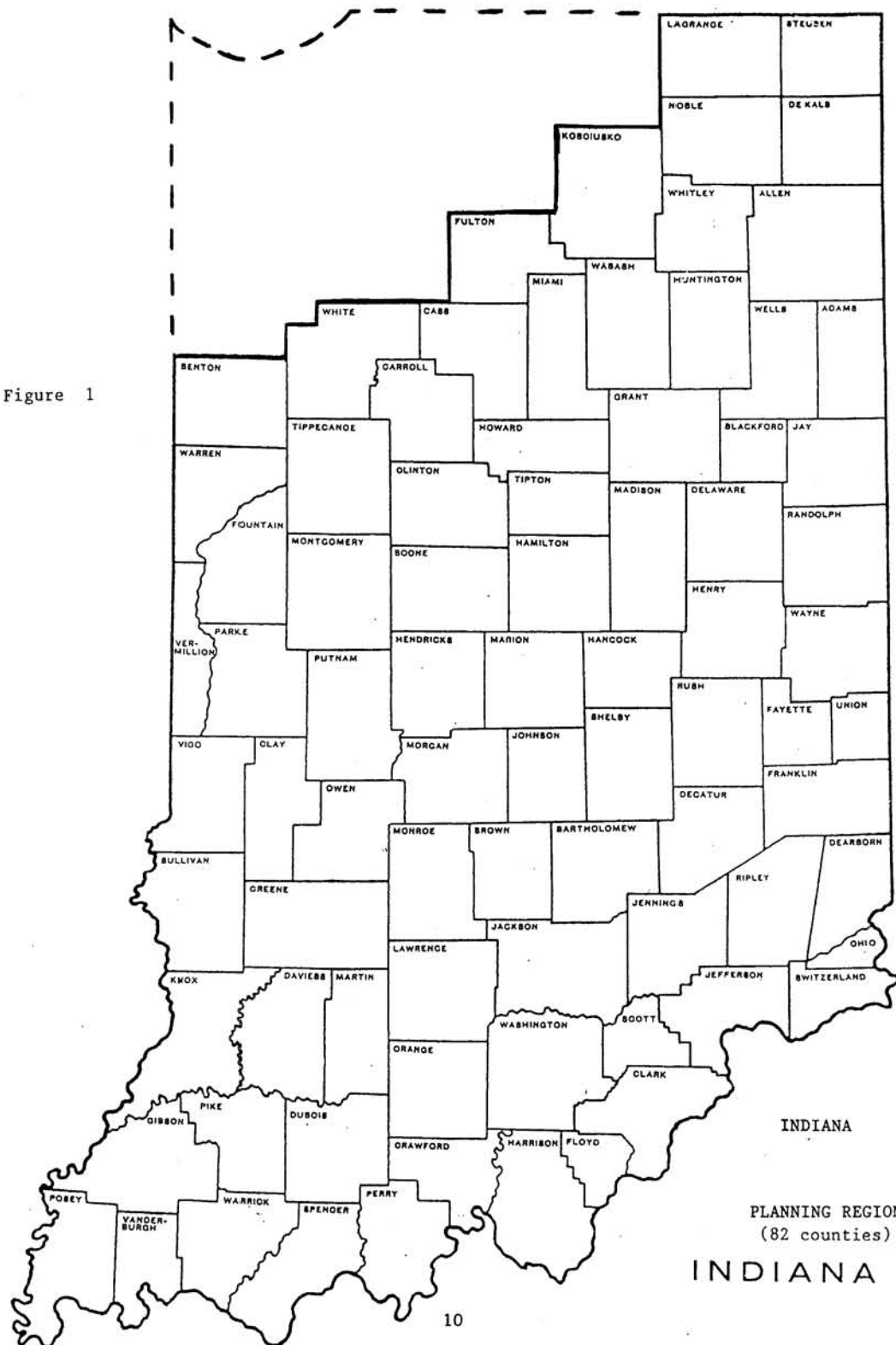


TABLE 1

INDIANA 800 MHz PLANNING REGION
COUNTY POPULATION ESTIMATES

COUNTIES (82)	<u>CURRENT</u> ¹	<u>1995</u> ²	<u>2005</u> ³
ADAMS	30900	32170	34070
ALLEN	302000	300250	304850
BARTHOLOMEW	65000	66090	66780
BENTON	9800	10120	9860
BLACKFORD	14600	15020	14590
BOONE	38600	41350	43970
BROWN	13100	13190	13280
CARROLL	19300	18500	17720
CASS	40200	38800	37440
CLARK	89500	91850	93160
CLAY	24800	24170	23510
CLINTON	31400	30850	30600
CRAWFORD	10300	10290	10330
DAVISS	28800	30490	31690
DEARBORN	37900	39700	41690
DECATUR	23900	23400	23270
DEKALB	34800	34440	35060
DELAWARE	120500	120620	122700
DUBOIS	36300	37760	39010
FAYETTE	27400	27660	27470
FLOYD	64000	65050	65870
FOUNTAIN	18400	18700	18210
FRANKLIN	20000	21490	22460
FULTON	18600	18270	17740
GIBSON	33200	33090	32580
GRANT	76600	75030	75230
GREENE	30700	29980	29400
HAMILTON	98100	108470	121170
HANCOCK	45000	46610	48050
HARRISON	28800	30810	32160
HENDRICKS	76100	80490	85340
HENRY	49600	45980	43130
HOWARD	84400	85520	85670
HUNTINGTON	35900	36240	36560
JACKSON	37300	38800	39740
JAY	21900	20560	19520
JEFFERSON	29400	29440	29760

¹ U.S. Census Bureau, Current Population Reports, 1987.

² Indiana State Board of Health, Indiana County Population Projections, 1985-2020 (1988).

³ Ibid.

JENNINGS	23000	23390	23620
JOHNSON	86100	93150	101080
KNOX	40900	42000	42510
KOSCIUSKO	64200	65590	67780
LAGRANGE	28900	31310	34460
LAWRENCE	42900	42500	42220
MADISON	132800	130680	128120
MARION	790100	809500	821040
MARTIN	11300	10990	10880
MIAMI	38400	38220	39090
MONROE	103600	105620	108890
MONTGOMERY	35800	36690	37450
MORGAN	54300	62160	65300
NOBLE	38300	39470	41280
OHIO	5400	6080	6340
ORANGE	19100	19210	19270
OWEN	17400	17870	18320
PARKE	15900	15860	15530
PERRY	18800	18610	18160
PIKE	12900	12950	12300
POSEY	25800	27310	27740
PUTNAM	30300	30870	31320
RANDOLPH	27800	27820	27040
RIPLEY	25300	26180	27110
RUSH	18400	18720	18350
SCOTT	21100	21390	21840
SHELBY	40500	41260	42470
SPENCER	19900	21300	21840
STEUBEN	27400	27130	27650
SULLIVAN	20300	19770	19080
SWITZERLAND	7500	7440	7540
TIPPECANOE	124800	131280	135450
TIPTON	16500	15730	15130
UNION	6900	7050	7030
VANDEBURGH	166700	169170	168450
VERMILLION	17500	17490	17200
VIGO	107600	106880	106540
WABASH	35500	36410	37630
WARREN	8300	7870	7300
WARRICK	46300	52920	58150
WASHINGTON	23100	23750	24520
WAYNE	72300	69790	67400
WELLS	26100	24130	24480
WHITE	23600	22880	22410
WHITLEY	<u>27600</u>	<u>28180</u>	<u>28990</u>
TOTAL (82 counties)	4,314,300	4,395,820	4,469,940

PRELIMINARY ORGANIZATION

Monthly meetings for the planning process began in early 1988. Deliberations on administrative and technical questions began at that time, using the Regional Planning Tasks published by NPSPAC as a functional basis for organizing small work groups.

In March, 1988, Donald W. Kottlowski was designated by the Associated Public-Safety Communications Officers, Inc. (APCO) as Convenor for the Indiana Region. As Convenor, Mr. Kottlowski prepared and published an announcement of the first official meeting for persons interested in participating in the planning process.

NOTIFICATION OF ELIGIBLES

In General Docket No. 87-112, the FCC declared that since the Public Safety Radio Service and the Special Emergency Radio Service both play important roles in public safety, it is necessary to make both services eligible to operate in the 821-824/866-869 bands. While recognizing that it may not be possible to grant requests for assignments to everyone, the Commission did conclude that membership on regional planning committees must be open to representatives from all potential user groups.

In accordance with the Report & Order, the Indiana 800 MHz Regional Planning Committee took the below listed steps to ensure that its membership was open to as broad a range of eligible participants as possible. (Referenced materials are all contained in Appendix A).

1. On April 12, 1988, the Announcement of the Initial Meeting was mailed to individual public safety agencies as well as professional organizations/associations of all eligible user groups, the National Communication System, and the Federal Management Agency.
2. In May, 1988, the FCC issued a Public Notice announcing the initial meeting.
3. The Announcement was posted throughout the Region from April through June, 1988.

FORMATION OF THE PLANNING COMMITTEE

On June 28, 1988, the first official meeting of the Indiana 800 MHz Regional Planning Committee (the Committee) was held in Ransburg Auditorium, University of Indianapolis, Indianapolis, Indiana. Mr. Donald W. Kottlowski was elected Chairman of the Committee.

The Summary of Proceedings of this meeting (and of all meetings preceding and succeeding it) are available at the offices of the Chairman and the Secretary.

Appendix B contains the names, affiliations, mailing addresses and phone numbers of the officers of the Region. Appendix C contains this information for all persons who have participated in the Indiana 800 MHz Regional Planning Committee.

INDIANA REGION CONFORMANCE REVIEW COMMITTEE (IRCRC)

The Committee realizes that its work does not end with the submission of this Plan. Future modifications to the Plan may be required; applications for radio systems proposed within the Region will need to be reviewed for compatibility with the Plan; implementation of these systems will require monitoring; coordination with the National Plan will continue. Obviously, there must be a mechanism by which future tasks can be accomplished.

To provide this mechanism, the Committee of the Whole has established the Indiana Region Conformance Review Committee (IRCRC) (See Appendix D). This committee will be composed of one representative from each of eight (8) Frequency Planning Areas (areas 1-A, 1-B, and 2 thru 7); one representative from State Agencies; the Frequency Advisory Committee Chairman; and the IRCRC Chairman. Six (6) members plus the IRCRC Chairman must be present to constitute a quorum. Each of the ten (10) members shall vote on issues. The IRCRC Chairman, in the case of a tie vote, may cast a vote. The IRCRC will convene upon the Commission's approval of this Plan.

COORDINATION WITH ADJACENT REGIONS

There are five planning regions which are adjacent to the Indiana 800 MHz Planning Region. They consist of the planning regions of the four states bordering Indiana (namely, Illinois, Kentucky, Ohio, Michigan) and the Southern Lake Michigan Planning Region.

Coordinating the Indiana 800 MHz Regional Plan with the surrounding planning entities has gone forward. One reason for this is that the Chairman and several members of the Indiana Region Planning Committee began early working with Michigan and Illinois membership of the Southern Lake Michigan Regional Plan Committee, and are, in fact, members of that Committee. Contacts are also in place with the Ohio, Kentucky, Michigan, and Illinois Regional Plan Committees. Implementation of each of the six plans have been coordinated through the mutual membership and cooperation of all adjoining regional planning committees.

CONFORMITY WITH THE NATIONAL PLAN

It is the express intent of the Committee to conform with the requirements of the National Plan as defined in paragraphs 11 – 40 of General Docket No. 87-112. This Plan is submitted to the Commission subject to the review process described in the Report and Order.

REVIEW PRIOR TO SUBMISSION

As work progressed on the Regional Planning Tasks, the original small groups were organized into three Subcommittees: Administrative, Technical, and Operational. They codified their suggestions, and wrote draft proposals on individual topics. After reaching a consensus, the subcommittees then presented their proposals to the Committee of the Whole for review and comment.

Upon acceptance of its content by the Committee, each draft was then forwarded to the Administrative subcommittee for collation. The complete final draft was then presented to the Committee of the Whole for page by page review.

AUTHORITY

The Indiana 800 MHz Regional Planning Committee derives its authority to carry out the activities required for composition and implementation of this Plan from the Federal Communications Commission's Report and Order, General Docket No. 87-112 released on December 18, 1987.

NEEDS ANALYSIS

The Report & Order specifies that regional plans explain how the requirements of all eligible entities were considered. This section of the Plan describes how this specification has been met.

QUESTIONNAIRE DEVELOPMENT

It was agreed that the best means of identifying the radio spectrum needs of the Region as a whole was to survey the potential users individually. With regard to the survey instrument, it was decided to employ the instrument developed by the Southern Lake Michigan Planning Region for two reasons: a) Indiana representatives had participated in its development and review; b) employing the same instrument would provide a uniform database for the ten (10) Indiana counties in the Southern Lake Michigan Planning Region and the eighty-two (82) counties in the Indiana Region proper. This survey instrument is provided in Appendix E.

Distribution to potential eligibles began in October, 1988. Over 2,800 copies of the questionnaire were mailed to both individual public safety agencies and professional organizations/associations. Appendix F contains a listing of the professional organizations contacted. Through acquiring mailing lists and labels from departments of State Government and professional associations, 1900 of these questionnaires were mailed directly to individual public safety agencies: sheriff departments, municipal police and fire, town marshals, volunteer fire departments, and emergency medical services responders as well as state police, highway, parks and civil defense departments. County

highway and municipal public works, street, parks and emergency management departments also received the questionnaire by mail either directly from the Regional Planning Committee or from the State Department of Civil Defense. Additional questionnaires were distributed by Data Coordinators in the eight Frequency Planning Areas (FPA's) into which the State of Indiana has been divided. (Figure 2, Appendix G). The Data Coordinators also conducted follow-up activities to help make sure that serious potential users, large and small, would return the information requested.

The questionnaire was designed to elicit useful information detailing current as well as future radio frequency needs. The years 1995 and 2005 were used for future projections. Information was requested in four topical sections:

- (I) "General Information" asked the respondents to provide agency identification information including the type of service supplied to the public.
- (II) "Demographic Information" asked specific questions regarding the agency's service area.
- (III) "Frequency Needs" asked questions regarding the agencies current use and future needs and plans for radio frequencies for voice and data transmissions.
- (IV) "Equipment" asked the respondents to project their agency's inventory of several radio equipment items.

QUESTIONNAIRE RESULTS

Section I.

Six hundred and thirty-three (633) questionnaires were returned, compiled, and analyzed for the eighty-two county Indiana Plan Region. Computerized database and spreadsheet programs were utilized. The rate of return from the larger public safety organizations in the region was excellent. Sixty-seven (67) or 82% of sheriffs departments and fifty-nine (59) or 79% of the largest city police departments in the region completed and returned questionnaires. Useful levels of response were achieved from all types of agencies engaged in the protection of life and/or property: Law Enforcement, Fire Fighting; Emergency Management; Emergency Medical; state, county and local highway, parks and environmental management; other state and local entities. The average rate of return was 35.4%.

Section II.

Ten agencies reported service areas that encompass the entire State of Indiana. Four hundred and sixty (460) of the agencies reported service areas that are urban, or both urban and rural. Strong continuing suburbanization trends are noted surrounding the largest cities in the region. Two hundred and forty-one (241) volunteer fire departments, many from suburban and rural areas, responded to the survey, underscoring the significance and interest of volunteer fire organizations in the public safety, emergency response and communication picture in Indiana.

Section III.

Thirty-two percent (32%) of the agencies reported that their existing radio systems are not adequate for their needs today. This percentage increases to over sixty percent for the year 1995. Thirty percent (30%) reported that their field units have to wait “often” for access to a voice channel.

Thirty-one (31) or 53% of the fifty-nine largest city police departments in the Indiana Region indicated plans or interest in moving to 800 MHz frequencies. Thirty (30) or 45% of responding sheriffs departments indicated similar interest or need of 800 MHz frequencies.

There is a strong interest among the larger types of public safety entities in mobile data transmission by 1995 (38%). In those counties with high sheriff interest in 800 MHz frequencies, the number of interested smaller towns and town marshals tends to increase. In rural areas, volunteer fire department interest in 800 MHz tends to be lower (15%). In expanding suburban areas, thirty-four (34%) of volunteer fire departments indicate interest in 800 MHz frequencies, an interest approaching that of large urban fire departments (45%).

Based on the survey, the total number of new 800 MHz frequencies reported to be needed in the Indiana Plan Region in the 1990-1995 period is five hundred and thirty-three (533). In the existing 806-821/851-866 MHz band, at this time, nine (9) applications for fifty-seven (57) 800 MHz frequencies have been approved. Another seven (7) applications for

an additional forty-two (42) 800 MHz frequencies have been approved through the APCO Coordinator, or are pending.

Section IV

Based on the returns, the amount of radio equipment in Indiana Region #14 was projected. Mobile and portable radios constitute the most numerous part of this equipment, with approximately 43,100 units owned by public safety related users in 1989. Over 60,000 units are projected to be owned by these users in 2005. By that period, current projections indicate approximately 48,100 radios will be part of trunking 800 MHz systems in Region 14.

High growth rate categories include mobile data terminals and voice encrypted radios. These categories are projected to increase from approximately 425 (MDT) units now to 10,500 in 2005; and from 384 voice encrypted units now to 4,800 in 2005. The need to include future data transmission loads when planning spectrum allocations becomes apparent considering these factors.

It is apparent from the questionnaire results and 800 MHz application activity in 1989 that interest in 800 MHz frequencies and improved 800 MHz radio technologies and peripherals will continue to increase.

It is important, therefore, to indicate that the present Indiana Region 800 MHz Plan provides that all the spectrum needs of all the Public Safety and Special Emergency applicants in the Region have been addressed and satisfied at the time of the filing of this Plan.

This section of the Plan has attempted to highlight for the Commission the primary radio frequency interests and needs of Region 14's potential eligible users. More detailed profiles and survey results are contained in Appendix G. The total information base collected through the 800 MHz questionnaire has been of fundamental importance in the development of this Plan. This Indiana Region frequency database, now fully automated, will be useful in future planning and coordinating activities within the region.

APPLICATIONS

This section of the Plan describes the procedures for applying for a license to operate a radio system in the new 800 Megahertz frequency spectrum, as well as the process by which the application and the supportive documentation will be evaluated. Applications shall be submitted during specific periods of time known as “filing windows”. Said filing windows will be designated by the Indiana Region Conformance Review Committee (IRCRC), be opened at least once annually, and be announced in advance. It is the intention of the IRCRC to announce the dates of the first filing window within thirty (30) days of the date of the Federal Communications Commission’s approval of this Plan.

APPLICATION REVIEW

Applications to be licensed in the 821-824/866-869 Megahertz frequency bands will be subject to review by the Indiana Region Conformance Review Committee (IRCRC) at the closing of each filing window. This review will be conducted prior to formal submission of the application to the national Associated Public-Safety Communications Officers (APCO) coordination office. Applications may be rejected at the Regional level for non-conformance with this Plan. Also, any application received outside of the designated “filing window” will be returned to the applicant for re-submission during the next filing window.

APPLICATION PROCEDURES

Applications will be submitted to the Indiana Frequency Advisory Committee Chairman. The Frequency Advisory Committee Chairman will study the application packet for completeness, and ascertain the eligibility of the applicant organization. Incomplete or erroneous applications, or applications from entities which are not considered by this Plan to be eligible for the limited 800 Megahertz spectrum, will be returned to the submitting applicant with the appropriate remarks. Copies of complete and accurate applications received from eligible Public Safety entities will be forwarded to the Indiana Region Conformance Review Committee (IRCRC) for evaluation.

INFORMATION REQUIRED

The current standardized Associated Public-Safety Communications Officers (APCO) Frequency Coordination Forms and the Federal Communications Commission (FCC) License Applications will be used. In addition, the applicant will be required to furnish supplemental information in specific categories. These categories are enumerated and briefly defined below. Each category has been assigned a numerical weight for application evaluation purposes. Category weights are contained in Appendix H. Where further comments about a category are made elsewhere in this Plan, the appropriate page numbers(s) are also specified.

1. Service -- What tasks or duties are the agency/applicant charged with accomplishing.

2. System Type -- In narrative form, a description of the radio system being proposed (trunked, conventional, voice, data, voice/data combined, etc.).
3. Intersystem Interoperability -- How agents of the applying organization will communicate with agents of different agencies, organizations or public safety entities (See below, pp. 39-44).
4. Channel Loading Factors -- Equipment inventory total that will be employed in the system, and the maximum number of mobile radios potentially in use at a given time. (See below, pp. 33-34 and 37).
5. Coverage Area -- Details of an engineering survey showing the radio coverage required for minimum coverage of jurisdictional boundaries, prepared by a qualified technical resource. (Page 32).
6. Vacated Frequencies Returned -- Which frequencies the agency will release for potential re-assignment. (Pages 34-35).
7. Implementation Schedule -- An explanation of any budgetary commitment and a proposed time frame for putting equipment into service.

The Indiana Region Conformance Review Committee may request additional information at the time of review to assist in evaluation.

APPLICATION EVALUATION

The Indiana Region Conformance Review Committee (IRCRC) will review each application for its conformity to this Plan. Evaluations will be based upon the seven factors mentioned above. A final point total will be determined by adding the points earned in each category as listed in Appendix H. The IRCRC will base their recommendation for approval or rejection of the application upon the final point total.

Once an application has been reviewed it will be returned to the applicant for filing, additional information, modification, or other appropriate action.

ELIGIBILITY

Agencies applying for frequencies in the 806-809 and 851-854 Megahertz frequency bands will be prioritized according to the degree that the service(s) they provide is fundamental to the protection of life and property. Only Public Safety and Special Emergency Radio Service Agencies are eligible to apply for a license in the 806-809/851-854 Megahertz frequency bands.

APPEAL PROCESS

Throughout the frequency allocation process, applicants are given opportunities to appeal decisions which have caused rejection of their application. The appeal process has two (2) levels: the Associated Public Safety Communications Officers (APCO) and the Federal Communications Commission (FCC). An applicant who decides to appeal a rejection should initiate that appeal immediately upon notification of the rejection. In the

event that an appeal reaches the second level, the FCC, the Commission's decision will be final and binding upon all parties.

SPECTRUM UTILIZATION FOR RADIO FREQUENCIES IN THE 806-809/851-854 MHz BANDS

This portion of the Plan provides a basis for proper spectrum utilization. Its purpose is to guide the committee in the task of planning and coordinating the allocation of 800 Megahertz frequencies within the Indiana region.

PRIMARY AND SECONDARY ZONES

The demand for frequencies varies depending on population of the area. Dense urban areas contain many individual public safety agencies, all making their own demands for frequencies. This problem is not as intense in more rural areas where the number of individual agencies is fewer. To differentiate between such areas of the Region, Primary and Secondary “zones” have been designated. A Primary zone contains jurisdictions which are severely impacted as a result of an excess demand for scarce spectrum. A Secondary zone contains jurisdictions which are impacted to a lesser degree. The requirement for system implementation in a Primary zone will be more restrictive than in a Secondary zone.

At this time the Primary zones are defined as the following Indiana counties: Marion, Allen, Vanderburgh, Clark, and Floyd. The remaining counties of the Region are all defined as Secondary zones.

TRUNKING

Applicants requesting licenses for five (5) or more channels will be required to trunk those channels. Exceptions to the rule will not be allowed unless an equally

spectrum efficient technology is proposed, or, the applicant can otherwise demonstrate that trunking will not meet the specific operational requirements of the agency.

Applicants requesting licenses for four (4) or less channels within the Secondary zone may be permitted conventional operation. In the Primary zone, conventional operations with four (4) or less channels will only be allowed when all efforts to share communication resources with other agencies are proven to be infeasible.

COVERAGE AREA

The desired coverage of a system is considered to be three (3) miles outside of the boundary of the applicant's service area. The maximum designed mean signal strength at this contour shall not exceed 40 dbu (+40 db above one microvolt per meter) measured with a receiving antenna mounted no less than five feet (5') above ground. Petitions to provide coverage exceeding these parameters will be examined on a case by case basis. Overlap or extended coverage must be minimized even where agencies are proposing to intermix systems for cooperative and/or mutual aid purposes.

ADJACENT CHANNEL ASSIGNMENTS

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

CO-CHANNEL ASSIGNMENTS

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

To achieve the most efficient use of the spectrum, distances between transmitters for co-channel reuse will not be held to a seventy (70) mile separation in this Plan. Separation of co-channel transmitters will be determined by the coverage needs of the applicant, natural barriers for separation, antenna patterning, and limited ERP's where possible.

CHANNEL LOADING CRITERIA

In this Plan, existing loading standards will be applied for Priority I level public safety agency's voice communications: minimum 70 mobiles per conventional channel, minimum 100 mobiles for trunked channel. (For Priority Levels, see Appendix H). For all data only systems and Priority level II (or lower) agency voice and/or data systems, the minimum loading criteria may be increased: 100 mobiles per conventional channel, and 150 mobiles per trunked channel. Petitions to deviate from these criteria will be considered by the Indiana Region Conformance Review Committee on an individual basis.

Agencies that support interoperability by permitting Federal use of their frequencies through S-160 (or equivalent) agreements, may augment their channel requirements by a maximum of 2% to account for the increased number of mobile units.

Written documentation detailing the expected number of Federal radios involved will be required at the time of application.

VACATED FREQUENCIES

It is anticipated that as public safety and special emergency radio service agencies implement 800 MHz radio systems, they will be able to vacate or relinquish the VHF and UHF frequencies on which they previously operated.

For each existing or applied for frequency to be relinquished, the application must include a date upon which relinquishment is planned. For each existing or applied for frequency proposed to be retained, include a detailed showing of justification as to why the frequency must be retained rather than relinquished for use by other organizations.

Mutual aid channels, intersystem channels, and other emergency channels, such as 155.370 MHz, 155.475 MHz, 155.025 MHz, 154.280 MHz, 155.340 MHz, emergency medical channels and others used by Public Safety and Special Emergency Radio Services as designated by Indiana State Government planning are exempt from this justification requirement.

The relinquished channels will be returned to their respective pools to be re-assigned by the FCC approved Frequency Coordinator, with recommendations by the Indiana Regional Conformance Review Committee, in order to provide the most beneficial use to public safety and special emergency service users.

INITIAL SPECTRUM ALLOCATION

The methodology used to determine the spectrum allocations at the time of filing this Plan is contained in FCC General Docket 87-112 and is presented in Appendix J. This methodology was employed by the CET, Inc. Frequency Sort program which supported the frequency allocations contained in Appendix K.

Channels labeled “Primary Pool” are unassigned channels that are available for use in limited areas of the Region. Secondary Pool channels may also be available where only one or two assignments per channel were made.

Channels labeled “Reserve” are blocked out primarily for Adjacent Region use except where they may be used within the Region and not harm Indiana State Government systems. Channels labeled “Indiana State Government” are primarily reserved for the Indiana State Government multi-agency statewide trunking systems for statewide use.

TECHNICAL DESIGN CONSIDERATIONS

This section of the Plan discusses topics which must be considered when engineering a new system.

CHANNELING PLAN

The 25 KHz offset channeling plan established by the National Plan will be required of all systems to be licensed in the 806-809/851-854 MHz bands.

INTEROPERABILITY WITH ADJACENT LOWER BANDS

There are several agencies in the Region currently operating on frequencies in the 806-815/851-860 MHz bands. While most of these agencies may continue operating in these frequencies for several years, many of them will be looking to expand their systems into the new spectrum. Any application submitted under the auspices of this Plan must demonstrate technical ability to provide communication between new and existing systems.

SYSTEM DESIGN

When designing a system, engineers will be required to minimize the distance between transmitter sites by using a combination of limited Effective Radiated Power (ERP), tower height, type of terrain, or any other factors which are technically feasible to minimize adjacent and co-channel interference. Information in this subject area, including methods of calculation, actual calculations, and a statement of the credentials of the technical resource person(s) who prepared the application, must be furnished with the application.

DATA TRANSMISSION

The use of radio frequencies for data transmission is an area of “growth” among agencies in the Region. As stated in the “Loading Criteria” section of this Plan, data only transmissions, whether for emergency or routine messages, may demand a higher loading standard.

CELLULAR RADIO TECHNOLOGY

Trunking technology is presently considered the most spectrum efficient use of radio transmissions for public safety. Cellular radio technology has so far proven useful only for telephone communications. However, it may, with future technological improvements, prove useful for public safety. Agencies are cautioned that any proposal of the use of cellular radio as an alternative to a trunked radio system must demonstrate that it can provide the same or greater degree of spectrum efficiency as trunking, and handle communications in an emergency situation.

MOBILE SATELLITE SERVICE (MSS)

During incidents of major proportions such as airline crashes, earthquakes, tornadoes, floods, forest fires or nuclear reactor calamities, public safety requirements might include the need for long-range communications in and out of a disaster area. The planned Mobile Satellite Service (MSS) may prove to be a viable alternative to land based systems in these situations, once technical innovations are developed which will provide uni-directed or corridor-driven communications over a lengthy distance. This service should be restricted to frequencies above 960 MHz, however, and licensing in the Public Safety spectrum shall be limited to public safety eligibles only.

AIRCRAFT TO GROUND COMMUNICATIONS

The use of any 800 MHz radio in an aircraft shall be restricted. Air to ground transmissions shall be limited to a maximum effective radiated power (ERP) of one (1) Watt.*

Since aircraft operation of trunked or conventional radios tends to disrupt adjoining systems because of height of the transmitting aircraft above ground level, aircraft use shall also be limited in height. No transmissions on limited area channels are allowed above 2,000 feet AGL, and no transmissions are allowed 3,000 feet AGL, even on wide area mutual aid channels.

Simplex (talk-around) operation of aircraft radios shall be utilized for on-scene communications. Co-channel and adjacent channel users are not required to provide protection to airborne users.

* Aircraft on the ground will be considered a mobile and can use additional power and the appropriate frequencies.

INTEROPERABILITY CONSIDERATIONS

This section of the Plan outlines the steps taken by the Committee to permit Federal, State and Local agencies to coordinate their activities during an emergency or disaster situation.

INTERSYSTEM INTEROPERABILITY

The intent of this Plan is to enhance interagency communication. Extensive mutual aid communication networks already exist throughout the Region. The National Plan has now set aside five (5) channels in the new spectrum for mutual aid. Agencies applying for licenses in the 806-809 and 851-854 MHz bands will be required to explain how they will implement the new Common Channels. They will also be required to explain how they will maintain intercommunication with their neighboring agencies who do not implement the Common Channels, but still are dependent upon the applying agency for assistance in an emergency.

COMMON CHANNELS

The Common Channels used in this Region comply with the National Plan, and consist of one (1) calling channel and four (4) tactical channels (Tac 1 through Tac 4). (See Table 2).

Communications on Common Channels use a two-tier structure: initial contact (calling), and working (tactical) channels. These channels are not to be used for daily operations, nor for inter-agency communications that do not involve an emergency

situation. The Common Channels shall cover the entire Regional area, with mobile relay stations normally operating in the “repeat disable” mode.

The Common Channels are restricted to required intercommunications among agencies that do not have access to other compatible communications channels. A “Primary Dispatch Center” will assign one or more tactical channels for the duration of a specific emergency or incident requiring multi-agency communications.

Because of the wide variance of voice codes among agencies (“ten” signals, alpha-numeric codes, etc.) agencies will use plain English on the Common Channels. The Primary Dispatch Center, with full support of the Regional Committee, will monitor radio traffic discipline, and resolve serious or chronic infractions.

TABLE 2 **INDIANA 800 MHz PLANNING REGION**

COMMON CHANNEL FREQUENCY DESIGNATIONS

<u>USAGE</u>	<u>FREQUENCY</u>
Calling Channel	806.0125 MHz (Mobile)
	851.0125 MHz (Base)
Tactical Channel 1	806.5125 MHz (Mobile)
	851.5125 MHz (Base)
Tactical Channel 2	807.0125 MHz (Mobile)
	852.0125 MHz (Base)
Tactical Channel 3	807.5125 MHz (Mobile)
	852.5125 MHz (Base)
Tactical Channel 4	808.0125 MHz (Mobile)
	853.0125 MHz (Base)

PRIMARY DISPATCH CENTER

The State of Indiana will be responsible for the implementation and operation of the National Calling Channel, Tactical Channels, and Primary Dispatch Centers in the eighty-two (82) county Indiana 800 MHz Planning Region. Indiana State Government will ensure that interoperable tactical channel mobile relays exist in specific areas of the

Region. The mobile relay stations will provide the required number of working channels within the Region necessary to assure interoperable communications between Federal, State and Local Government agencies involved in an emergency. Other services shall participate as required, to ensure the public safety.

Agencies involved in an incident will be subject to the Regional rules on inter-agency communications. Radio transmissions will be made in accordance with the directions of the Primary Dispatch Center or controlling agency.

CALLING CHANNEL

Calling Channel base stations will be configured as mobile relays, strategically located to assure complete regional coverage, and connected by a suitable network to Primary Dispatch Centers. Mobile “talk around” is permitted on the Calling Channel to establish initial contact between agencies, for the purpose of determining which Tactical Channel(s) to use for the duration of an incident.

Depending on geographical size and population density, several networks may be necessary to cover the outer areas of the Region. Primary Dispatch Centers, and agencies operating base/control stations in the area shall monitor the Calling channel to provide assistance and/or assign a Tactical Channel to requesting field units.

The Calling Channel shall be used only to make initial contact with other agencies in the Region, or with the Primary Dispatch Center in that section of the Region. After contact is established, a tactical or other mutual aid channel shall be expeditiously agreed

upon, or be assigned by the Primary Dispatch Center. The Calling channel shall not be used as a working channel for continued communications. It shall be vacated as soon as possible, to free it up for the next initial contact.

TACTICAL CHANNELS (TAC 1 THROUGH TAC 4)

Tactical Channels are reserved for agencies involved in multi-agency communications during emergencies or other occurrences requiring interoperable communications. Tactical Channels, like the Calling Channel, will be strategically located to provide maximum coverage throughout the Region. Design criteria will limit Tac Channel coverage to permit multiple re-use of the channels within the Region as required, in coordination with adjacent regions to prevent or minimize interference.

Tac Channel coverage design shall ensure that at least one channel is available for each section for the Region. Multi-agency communications events will be coordinated by the Primary Dispatch Center, or assigned to the controlling agency. The coordinating agency shall relinquish control of the channels when the incident is cleared.

CROSS SYSTEM PATCHES

Cross system patches to existing day-to-day systems, other mutual aid channels, or long-range communications systems must be manually controlled. Automatic patches are not permitted. Cross system patches are normally handled by the Primary Dispatch Center in the section of the Region involved.

IMPLEMENTATION

IMPLEMENTATION SCHEDULES

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

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

^{*} See FCC Rules and Regulations, § 90.155 (a) and § 90.631 (c).

^{**} See FCC Rules and Regulations, § 90.629, and § 90.631 or § 90.633.

APPENDIX

A

Associated Public-Safety Communications Officers, Inc.

INDIANA CHAPTER



ANNOUNCEMENT OF THE INITIAL
REGIONAL PUBLIC SAFETY PLANNING MEETING FOR
THE INDIANA REGION*

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

DATE/TIME: June 28, 1988
10:00 A.M. EST

CONVENOR: Donald W. Kottlowski
Indiana State Police
Communications Division
100 North Senate Avenue
Indianapolis, IN 46204
(317) 232-8257 or
(317) 899-8257 After 5-1-88

LOCATION: Ransburg Auditorium
University of Indianapolis
1400 East Hanna Avenue
Indianapolis, IN 46227

In the Federal Communications Commission's National Plan for Public Safety, Report and Order, Gen. Docket 87-112, 53 Fed. Reg. 1022 (January 15, 1988), the State of Indiana was declared a Planning Region.

All parties located in the Indiana Region* and interested in participating in the public safety planning process are encouraged to contact the convenor listed above for further information. Public Safety and Special Emergency entities who are now using or planning to use 800 MHz radio spectrum should participate in this regional planning. Participants include Local Government, Police, Fire, Highway, Forestry, EMS, School Buses, Veterinarians, and others who qualify for Public Safety and Special Emergency Radio Services.

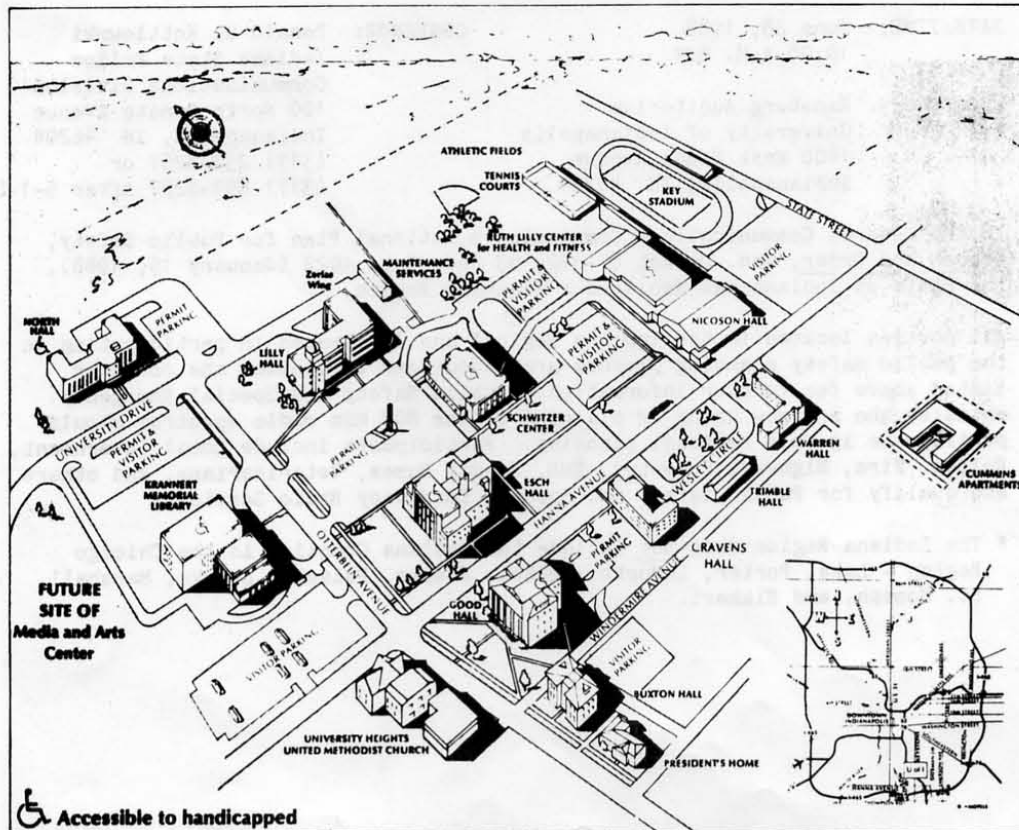
* The Indiana Region does not include the Indiana Counties in the Chicago Region - Lake, Porter, LaPorte, Newton, Jasper, Pulaski, Starke, Marshall, St. Joseph, and Elkhart.

University of Indianapolis

Our campus is easy to reach. Located on Indianapolis' far south side, U of I is just inside the I-465 interstate loop on Hanna Avenue. The campus may be reached by taking the U.S. 31 North exit from I-465 or the Keystone Avenue exit from I-65 (just north of I-465). Indianapolis International Airport is only 15 minutes away.

Parking will be permitted in any of the Visitor or Permit lots.

Ransburg Auditorium is located in Esch Hall.



APPENDIX

B

INDIANA 800 MHz REGIONAL PLANNING OFFICIALS

Chairman

Donald W. Kottlowski
Indiana State Police Communications
100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 899-8257

Secretary

Lieutenant Roger Shoemake
Radio Station
Indianapolis Police Department
50 N. Alabama Street
Indianapolis, Indiana 46204
(317) 633-7738

APPENDIX

C

INDIANA 800 MHz REGIONAL PLANNING COMMITTEE MEMBERS

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APPENDIX

D

FORMATION OF THE IRCRC

INDIANA 800 MHz REGIONAL PLANNING MEETING MINUTES

May 31, 1989

The meeting was called to order at 10:02 a.m., with self-introductions.

The minutes of the April 27, 1989, meeting were approved.

Chairman Donald W. Kottlowski reviewed the nationwide planning progress. The New York Metro Area Regional Plan was approved by the FCC on May 10, 1989. The New York Plan was written from the standpoint that all frequencies would be specifically assigned and used up within a short period of time. Our Indiana Plan will have to be written, from the standpoint, that there will be spectrum still available and general assignments would be made. The Northeast-Central Texas plan and Southern Lake Michigan plans will be watched very closely for planning concepts. The SLM Plan is on hold while the Frequency Sort is being done. CET (APCO's computer system) has the information and should be ready to run. The SLM did take the 10 Northwest Indiana Counties into consideration with 5 to 10 pairs to each county. Only after the sort will we know actually how many actually will work out.

The Administrative Sub-Committee Chairman, Marvin Steward (MECA), noted the plan draft update pages prepared by Dr. Howard Phillips (ISP-Planning Division). Dr. Phillips, who was called out of the meeting, gave the updated pages to Chairman Kottlowski who later went over the draft (#4) changes with the group. New updates will be handed out at the next meeting since page numbers have changed, making it hard to insert page numbers.

No reports from the Technical Sub-Committee Chairman Roger Shoemake (IPD), or the Operations Sub-Committee Chairman Tom DeBaun (Shelby County Sheriff).

Formation of the Indiana Regional Conformance Review Committee (IRCRC) was introduced by Chairman Kottlowski. Diagrams were passed out, which were prepared by the Administrative Committee, defining 8 planning areas of the State by geo-political boundaries. Area 8 is the 10 Indiana Counties assigned to the SLM Planning Region. Planning Area 1 is divided into sub-areas (1A and 1B) with Lafayette as 1A and Indianapolis as 1B. Areas 2 through 7 cover the rest of the State. Chairman Kottlowski suggested that one representative from each of the 7 Planning Areas (one additional for the Indianapolis sub-area), 1 from State Agencies, the Frequency Advisory Committee Chairman, and the eleventh would be the Regional Planning Chairman. Five members would have to be present to constitute a quorum. Each of the 10 members would vote on issues. The Regional Planning Chairman would be the tie-breaker vote.

Discussion followed on the issue of boundaries. Attempts were made by the Administrative Sub-Committee to answer the questions in the absence of Dr. Phillips, who had the real answers.

Roger Shoemake made the motion to accept the Frequency Planning Area concept of utilizing a representative from each of the seven planning areas with one additional from the Indianapolis area, a representative of State Government Agencies, the Frequency Advisory Chairman, and the Regional Planning Committee Chairman to form the eleven member Indiana Regional Conformance Review Committee. A quorum would consist of five members plus the Regional Planning Committee Chairman. The Regional Planning Chairman would be the tie-breaker vote.

Richard Finch (IDNR) seconded the motion.

With no discussion to follow, a vote was taken. The motion carried 14 to 0.

Chairman Kottlowski suggested that although one vote from each represented area was permitted, we should try to get three representatives, one from each different services such as police, fire, and EMS from each area. The Administrative Sub-Committee will assist in making recommendations to the IRCRC.

Chairman Kottlowski reviewed the page inserts to the last plan draft (#3) to form the newer draft (#4). Dr. Phillips was not present to make comments on the draft changes. Due to page number changes, it was suggested that a full copy of the draft be passed out at the next meeting.

After discussion, it was decided to leave the proposed Appendix L, dealing with technical computation of the 40 dbu criteria, out of the plan. This was done in the SLM draft also.

THE NEXT MEETING WILL BE HELD ON THURSDAY, JUNE 29, 1989, AT 10:00 A.M. EST AT THE NEW PENDLETON STATE POLICE POST. THE NEW POST IS LOCATED AT 9022 SOUTH SR 67, APPROXIMATELY 1¼ MILES SOUTH OF SR 9. FROM I-69, SR 38 OR SR 9 EXITS CAN BE USED.

The meeting adjourned at 11:43 a.m. EST.

APPENDIX

E

INDIANA 800 MHz REGIONAL PLANNING COMMITTEE

Donald W. Kottlowski
Chairman, Indiana 800 MHz Regional
Planning Committee
c/o Indiana State Police, Planning Division
100 North Senate Avenue
Indianapolis, IN 46204

Dear Sir:

The Federal Communications Commission is making new portions of the radio spectrum available to Public Safety and Special Emergency Radio services.

However, before the FCC will grant licenses in this new spectrum (821-824 & 866-869 MHz), a "Regional Plan" showing a coordinated approach to spectrum allocation among the various eligible users must be submitted.

Regardless of your agency's interest in acquiring the new 800 MHz radio systems and frequency use, your input on the enclosed questionnaire and its return to the above address is critical. What is at stake is the future availability of valuable radio frequencies, on all bands, used by all public safety, emergency and related agencies in Indiana, including your own.

You may be receiving another copy of the enclosed questionnaire from your state fire, police or similar professional association. Your completed questionnaire may be returned to your state association or to me at the above address, whichever you wish.

We welcome your agency's participation in the region planning process. Feel free to contact me at (317) 899-8257.

The questionnaire should be completed and returned to the above address no later than December 21, 1988.

Thank you,

Donald W. Kottlowski

Encl.

SEE REVERSE SIDE FOR INSTRUCTIONS

INDIANA 800 MHz REGIONAL PLANNING PROJECT

Sponsor: Federal Communications Commission

Radio Frequency User Questionnaire

INSTRUCTIONS:

Most items only require a choice or choices to be checked, and can be completed quickly.

For longer answers, please PRINT or type the information asked for.

IT IS MORE HELPFUL TO YOUR FUTURE NEEDS TO COMPLETE AS MANY QUESTIONS AS YOU CAN (AND REPORT THOSE) THAN NOT TO RESPOND AT ALL.

Any additional comments may be attached to the end of this survey.

Should you have any questions, call Donald Kottlowski (317) 899-8257 or Howard Phillips (317) 232-5906.

Remember, in order to have your future radio frequency and usage needs addressed and protected in the eventual FCC-approved Regional Plan, you must return this questionnaire by December 21, 1988, to:

INDIANA 800 MHz REGIONAL PLANNING COMMITTEE

Donald W. Kottlowski, Chairman
c/o Indiana State Police, Planning Division
100 North Senate Avenue
Indianapolis, IN 46204

Radio Frequency Use Plan Questionnaire

The Federal Communications Commission has mandated the Indiana 800 MHz Planning Committee (IMPC) to develop a radio frequency use plan for the Public Safety Radio Spectrum, including 800 MHz channels, and existing frequencies of public service agencies related to public safety or emergency response.

Please complete this planning questionnaire and return to the address listed by May 8, 1989.

RETURN TO:
Donald W. Kottowski, Chairman, IMPC
c/o Indiana State Police, Planning Division
100 North Senate Avenue
Indianapolis, IN 46204

(317) 899-8257

SECTION I GENERAL INFORMATION

1. Name of Agency: _____
2. Address: _____

3. Phone Number: _____
4. Contact Person: _____
5. Title: _____
6. Name of Person Completing Questionnaire: _____

7. Type of Organization:
(A) ☐ Governmental (B) ☐ Private
8. Type(s) of Service: (Check all that apply)
(A) ☐ Law Enforcement (G) ☐ Fire Fighting
(B) ☐ Emergency Medical (H) ☐ Highway Maintenance
(C) ☐ Forestry/Conservation (I) ☐ Civil Defense
(D) ☐ Beach Patrol (J) ☐ Disaster Relief
(E) ☐ Handicapped Assistance (K) ☐ School Bus
(F) ☐ Other (please specify): (L) ☐ Veterinarian
9. Does your agency utilize a multi-agency dispatch service?
(A) ☐ Yes (B) ☐ No
10. If your answer to question 9 was "yes", please list the name and address of the dispatch center:

SECTION II DEMOGRAPHIC INFORMATION

1. Please check the state(s) in which you operate:
(A) ☐ WI (B) ☐ IL (C) ☐ IN (D) ☐ MI
2. Do you service the entire state?
(A) ☐ Yes (B) ☐ No
If yes, go to question #8.
3. Does your service area encompass...
(A) ☐ One County (B) ☐ Multiple Counties
4. Please list the county name(s):

5. Does your service area encompass...
(A) ☐ One City/Town (B) ☐ Multiple Cities/Towns

6. Please list the city/town name(s):

7. Is your service area:
(A) ☐ Urban (B) ☐ Rural (C) ☐ Both
8. What is the size of your service area?
_____ Square Miles
9. What is the current population of your service area? _____
10. What is the population projected to be in the years...
1995: _____ 2005: _____

SECTION III FREQUENCY NEEDS

1. Is your present radio system adequate to meet your current needs?
(A) ☐ Yes (B) ☐ No
Your 1995 Needs?
(A) ☐ Yes (B) ☐ No
Your 2005 Needs?
(A) ☐ Yes (B) ☐ No
2. Do you have plans to alter your radio system in the future?
(A) ☐ Yes (B) ☐ No
3. If you do, please give a brief description of your plans:

4. Have you had to use any alternate methods of dispatch because of an inability to acquire sufficient radio spectrum for either financial reasons or spectrum unavailability?
(A) ☐ Yes (B) ☐ No
5. If yes, please explain: _____

6. Have you had to borrow, share or lease radio frequencies from other agencies in order to maintain your dispatch operation?
(A) ☐ Yes (B) ☐ No
7. If yes, please explain: _____

8. How often does your agency encounter "wait time" to access a radio channel for voice transmissions from the field?
(A) ☐ Never (B) ☐ Seldom (C) ☐ Sometimes (D) ☐ Often
Less than More than
once a week once a week more than once a shift

agency make per hour?

10. How many voice transmissions might occur during your busiest hour?
11. What is the average length of air time used per voice transmission?
12. Do you have any plans to expand your use of radio frequencies for Data transmissions?
(A) ☐ Yes (B) ☐ No
13. Do you have any plans to use voice encryption technology to provide private and secure radio transmissions?
(A) ☐ Yes (B) ☐ No
14. Do you have any plans to incorporate "telephone interconnects" with your mobile or portable radios?
(A) ☐ Yes (B) ☐ No
15. If you answered "yes" to question 14, please indicate the approximate number:
Mobiles _____ Portables _____
16. List the frequencies (channels) for which you now hold a valid FCC license: (List 800 MHz frequencies in #17)
17. Are you presently licensed on existing 800 MHz channels? If yes, list them:
18. If you do not hold a license for 800 MHz channels, do you have an application pending?
(A) ☐ Yes (B) ☐ No
19. Do you have a formal plan on file to construct a 800 MHz system?
(A) ☐ Yes (copy enclosed) (B) ☐ Plan incomplete. A copy will be forwarded by _____ (date) (C) ☐ No
20. Do you have the funding available to proceed with implementing the system?
(A) ☐ Yes (B) ☐ No (see next question)
21. If no, when do you anticipate funding will be available?
(A) ☐ 12 Months (B) ☐ 24 Months (C) ☐ 36 Months
(D) ☐ 48 Months (E) ☐ 60 Months or more
22. How many additional 800 MHz radio frequencies do you expect your agency will need ... (If none, please indicate zero)

- | Now | In 1995 | In 2005 |
|-----------|-----------|-----------|
| Frequency | Frequency | Frequency |
| | | |
| | | |
| | | |
23. If you acquire radio frequencies in the newly allocated spectrum, what frequencies that you now have would you no longer have use for? Be specific:
- | Frequency | Projected Use |
|-----------|---------------|
| | |
| | |
| | |
| | |
24. What existing frequencies would you attempt to retain? Be specific.
- | Frequency | Projected Use |
|-----------|---------------|
| | |
| | |
| | |
| | |

25. If you are awarded the additional frequencies you need in the 800 MHz spectrum, unless you are a current 800 MHz system user, you will have to purchase a new communications system. If you could obtain additional channels in the spectrum you currently use, it may be possible that a significant part of your current system could continue to be used. Given the option, which choice would you prefer?
(Select one):
(A) ☐ Additional channels in the 800 MHz spectrum
(B) ☐ Additional channels in my current spectrum ☐
26. If you selected "current spectrum," indicate the spectrum you are now using.
(A) ☐ 30-40 MHz (B) ☐ 40-50 MHz
(C) ☐ 150-160 MHz (D) ☐ UHF
27. Please list any other agencies/organizations with whom you would need radio communications in the event of a disaster or large scale emergency:

SECTION IV EQUIPMENT

1. For the following, please indicate the total number that your agency owns or operates now, and project for the years listed.

	Now	1995	2005
Mobile Radios			
*Voice Encryption Mobiles			
Portable (Handheld) Radios			
**Voice Encryption Portables			
Mobile Computer Terminals			
Automatic Vehicle Locators			
Radio Control Links			
Radio Alarm/Control Systems			
Vehicular Repeaters			
Transmitters/Repeaters (Base Station)			

2. For the following, please indicate the maximum number in use at any given time; at present, and project for the years listed.

	Now	1995	2005
Mobile Radios			
*Voice Encryption Mobiles			
Portable (Handheld) Radios			
**Voice Encryption Portables			
Mobile Computer Terminals			
Automatic Vehicle Locators			
Radio Control Links			
Radio Alarm/Control Systems			
Vehicular Repeaters			
Transmitters/Repeaters (Base Station)			

- *The sum of mobiles and voice encryption mobiles should equal the total number of mobiles in your system.
**Use same methodology noted above for mobiles.

APPENDIX

F

APPENDIX F

Professional Organizations/Associations Contacted

Indiana Sheriffs Association
1398 N. Shadeland Avenue
Indianapolis, IN 46219

Indiana Association of Chiefs of Police
509 E. National Avenue
Indianapolis, IN 46227

Indiana Department of Fire and Building
Services
Office of the State Fire Marshal
1099 N. Meridian Street, Suite 900
Indianapolis, IN 46204

Indiana Fire Chiefs Association
1430 N. Lynhurst Avenue
Speedway, IN 46224

Indiana Volunteer Fireman's
Association
403 West Jackson Street
Rensselaer IN 47978

Indiana Association of Cities and Towns
150 W. Market Street, Suite 600
Indianapolis, IN 46204

Indiana Association of County
Commissioners, Inc.
36 S. Senate Avenue
Indianapolis, IN 46204

Indiana Association of Counties, Inc.
120 Monument Circle, Suite 217

Indianapolis, IN 46204
Indiana State Emergency Medical
Services Commission
100 N. Senate Avenue
Indianapolis, IN 46204

Indiana Department of Natural Resources
100 N. Senate Avenue
Indianapolis, IN 46204

Indiana Department of Highways
100 N. Senate Avenue
Indianapolis, IN 46204

Indiana Department of Civil Defense
100 N. Senate Avenue
Indianapolis, IN 46204

Indiana Department of Education,
School Traffic Safety
251 East Ohio Street
Indianapolis, IN 46204

Indiana Veterinary Medical Association
4901 Seville Court
Indianapolis, IN 46208

Associated Public Safety
Communications Officers, Inc.
Indiana Chapter
c/o Carmel Police Department
31 1st Avenue N.W.
Carmel, IN 46032-1715

APPENDIX

G

APPENDIX G

RADIO USER QUESTIONNAIRE RESULTS

Documenting the needs and plans of Indiana public safety and emergency services agencies with regard to 800 MHz frequencies and trunking systems began with a four step process:

1. Establish and outline the total statistical frame (or statistical universe) establishing the total number of all eligible agencies in the Region, by type of agency and by geographical location.
2. Review the returned questionnaires for completeness and determine the quality of the total returns as a fair, representative sample of the region as a whole as well as each geographical sub-area.
3. Complete reliable projections of 800 MHz systems and frequency requirements for the years 1990, 1995, and 2005.
4. Organize, format, compile, store and report actual survey data as well as projected data in such manner that they effectively support frequency planning and application review in the Region.

QUESTIONNAIRE RESULTS

For the Indiana Region, the following charts outline the total eligible public safety/emergency services users of 806-824/851-869 MHz frequencies (termed **Total Eligible**) in 1989.

The charts also report the total number of agencies returning Questionnaires (termed **Total Returns**) and the total number of agencies indicating active interest in trunking 800 MHz (termed **Interested Respondents**).

The charts additionally display the number of user agencies which are **projected** to apply for 800 MHz frequencies by December, 1990. The number of agencies expected to be using and/or applying for 800 MHz frequencies by December, 1995, and by December, 2005, have also been forecast. These agencies are termed **Projected Users**. The charts include the numbers of mobile and portable radio units projected for each period, for purposes of loading and channel needs determination.

The above users are arranged by type and size of agency, and by geographical sub-area (termed Frequency Planning Area, or FPA's.) Figure 2, below, outlines the individual frequency planning areas which make up the Indiana Plan Region. (Ten of Indiana's counties in the northwest corner of the state are part of the Southern Lake Michigan Plan Region.)

The following "800 MHz Use Projection" Charts begin with the grand total for the 82-county Indiana 800 MHz Plan Region.

Charts profiling user interest and needs in each of the Region's eight Frequency Planning Areas (FPA's) follow.

Similar charts have been prepared for each county in the Plan Region and are available on request.

INDIANA 800 MHZ PLANNING REGION
(82 OF INDIANA'S 92 COUNTIES)

800 MHZ USE PROJECTION, PUBLIC SAFETY AND RELATED AGENCIES, INDIANA REGION, 1990-2005

TYPE OF AGENCY	TOTAL # OF ELIGIBLE AGENCIES	EST. # OF ELIGIBLE MOBILES	# OF RADIOS PORTABLES	TOTAL # OF RETURNS (AGENCIES)	# OF RADIOS FROM RETURNS MOBILES	# OF RADIOS PORTABLES	TOTAL # INTERESTED RESPONDANTS	# OF RADIOS MOBILES	# OF RADIOS PORTABLES	PROJECTED 1990 MOBILE USERS	PROJECTED 1990 PORTABLES	PROJECTED 1995 MOBILE USERS	PROJECTED 1995 PORTABLES	PROJECTED 2005 MOBILE USERS	PROJECTED 2005 PORTABLES
1. SHERIFFS	82	2,019	2,069	67	1,757	1,797	30	1,013	1,050	37	1,121	1,217	80	2,557	2,940
2. POLICE/LCPD	75	2,158	4,019	59	1,916	3,766	31	1,119	2,685	33	1,134	2,705	70	2,537	5,061
3. MARSHALLS/SCPD	306	954	1,360	88	304	535	38	136	274	88	280	452	253	881	1,245
4. CITY FIRE	75	1,336	1,353	33	629	660	16	432	442	26	607	621	67	1,386	1,423
5. VOL. FIRE	707	4,773	4,302	241	1,907	1,617	68	591	509	76	745	588	437	3,287	3,044
6. CIVIL DEFENSE	82	1,599	1,603	18	415	285	4	170	82	13	278	240	77	1,534	1,521
SUB-TOTAL	1,327	12,839	14,706	506	6,928	8,660	187	3,461	5,042	273	4,165	5,823	984	12,182	15,234
7. EMS	187	1,018	1,100	50	513	552	13	97	142	19	121	164	152	840	972
8. COUNTY HIGHWAY DEPTS.	82	2,425	288	40	1,513	75	2	480	2	4	490	5	77	2,574	412
9. CITY STREET	75	1,098	226	12	234	44	0	0	0	3	59	10	72	1,064	233
10. CITY PARK	75	731	197	9	267	57	1	9	2	4	41	26	72	733	212
11. CITY OTHER	31	399	286	3	260	165	0	0	0	3	37	12	29	395	282
SUB-TOTAL	450	5,671	2,097	114	2,787	893	16	586	146	33	748	217	402	5,606	2,111
12. STATE POLICE	1	1,560	1,027	1	1,560	1,027	1	1,560	1,027	1	1,560	1,027	1	1,730	1,135
13. STATE HIGHWAYS	1	1,773	100	1	1,773	100	1	1,773	100	1	1,773	100	1	2,334	402
14. STATE DNR	1	1,132	806	1	1,132	806	1	1,132	806	1	1,132	806	1	1,238	945
15. CORRECTIONS OF	1	201	773	1	201	773	1	201	773	1	204	774	1	253	882
16. OTHER STATE AGENCIES	6	146	131	6	146	131	6	146	131	6	167	151	6	196	168
SUB-TOTAL	10	4,812	2,837	10	4,812	2,837	10	4,812	2,837	10	4,836	2,858	10	5,751	3,532
17. ALL OTHER ¹ (Incl. Federal)	3	90	39	3	90	39	2	76	30	2	76	30	2	85	39
GRAND TOTAL	1,790	23,412	19,679	633	14,617	12,429	215	8,935	8,055	318	9,825	8,928	1,398	23,624	20,916

* LCPD = Larger city/town police departments; pop. > 5,000.

** SCPD = Smaller city/town police departments; pop. < 5,000.

800 MHz USE PROJECTION, PUBLIC SAFETY AND RELATED AGENCIES, INDIANA REGION, 1990-2005

LAFAYETTE AREA (8 COUNTIES)

TYPE OF AGENCY	TOTAL # OF RADIO ELIGIBLE AGENCIES			TOTAL # OF RETURNS (AGENCIES)			# OF RADIO FROM RETURNS			TOTAL # INTERESTED RESPONDENTS			# OF RADIO PROJECTED			# OF PROJECTED			# OF PROJECTED		
	MOBILES	PORTABLES	TOTAL	MOBILES	PORTABLES	TOTAL	MOBILES	PORTABLES	TOTAL	MOBILES	PORTABLES	TOTAL	MOBILES	PORTABLES	TOTAL	MOBILES	PORTABLES	TOTAL	MOBILES	PORTABLES	TOTAL
1. SHERIFFS	8	95	116	7	93	114	4	72	89	5	74	91	7	124	141	7	126	143			
2. POLICE/PCPD	5	100	143	5	100	143	3	79	106	4	84	116	5	116	156	5	119	159			
3. MARSHALLS/SCPD	37	65	129	7	13	25	5	9	21	10	17	38	24	44	80	35	82	146			
4. CITY FIRE	5	95	72	3	62	45	2	52	33	4	80	57	5	104	82	5	106	83			
5. VOL. FIRE	65	356	263	20	115	80	5	35	17	10	72	41	30	191	115	34	204	137			
6. CIVIL DEFENSE	8	154	170	4	100	62	1	25	12	4	65	87	6	78	115	8	161	184			
SUB-TOTAL	128	865	893	46	483	469	20	272	278	37	392	430	77	657	697	94	798	852			
7. ENS	18	63	76	4	19	27	1	3	0	3	11	11	11	35	39	11	35	39			
8. COUNTY HIGHWAY	8	228	20	4	133	7	1	40	2	1	40	2	6	190	17	6	192	17			
9. DEPTS.	5	92	16	1	35	4	0	0	0	2	35	6	5	97	20	5	99	20			
10. CITY STREET	5	39	8	1	5	0	0	0	0	2	20	10	5	43	18	5	44	18			
11. CITY PARK	5	43	14	1	25	5	0	0	0	2	35	10	4	48	14	4	49	14			
SUB-TOTAL	41	465	134	11	217	43	2	43	2	10	141	39	31	413	108	31	419	108			
12. STATE POLICE	1	94	84	1	94	84	1	94	84	1	94	84	1	107	99	1	126	107			
13. STATE HIGHWAYS	1	178	10	1	178	10	1	178	10	1	178	10	1	236	31	1	312	41			
14. STATE MNR	1	48	40	1	48	40	1	48	40	1	48	40	1	51	45	1	56	57			
15. CORRECTIONS DP	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0			
16. OTHER STATE AGENCIES	6	15	14	6	15	14	6	15	14	6	16	15	6	17	15	6	19	16			
SUB-TOTAL	10	335	148	10	335	148	10	335	148	10	336	149	10	411	190	10	513	221			
17. ALL OTHER (Incl. Federal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
GRAND TOTAL	179	1665	1175	67	1,035	660	32	650	428	57	869	618	118	1,481	995	134	1,730	1,181			

FREQUENCY PLANNING AREA (FPA) 1 - B
INDIANAPOLIS-ANDERSON METRO AREA (10 COUNTIES)
800 MHz USE PROJECTION, PUBLIC SAFETY AND RELATED AGENCIES, INDIANA REGION, 1990-2005

INDIANAPOLIS-ANDERSON METRO AREA (10 COUNTIES)															
TYPE OF AGENCY	TOTAL # OF ELIGIBLE AGENCIES	# OF RADIOS FROM RETURNS (AGENCIES)	TOTAL # OF RETURNS (AGENCIES)	TOTAL # INTERESTED RESPONDENTS (MOBILES PORTABLES)	# OF RADIOS PROJECTED (MOBILES PORTABLES)	1990 # PROJECTED USERS	1995 # PROJECTED MOBILES PORTABLES	# OF PROJECTED MOBILE PORTABLES	2005 # PROJECTED MOBILE PORTABLES						
1. SHERIFFS	10	837	794	2	440	460	3	454	490	10	1164	1419	10	1213	1470
2. POLICE/LCPD	19	370	1851	11	214	1652	11	214	1652	17	386	2510	17	405	2563
3. MARSHALLS/SCPD	53	219	294	14	89	138	14	70	139	42	225	310	48	253	347
4. CITY FIRE	19	397	398	5	169	206	6	180	215	16	441	442	16	457	458
5. VOL. FIRE	93	913	663	23	597	624	23	356	263	57	671	574	62	704	604
6. CIVIL DEFENSE	10	232	220	0	0	0	3	46	56	10	271	244	10	287	257
SUB-TOTAL	204	2968	4220	53	1148	2719	60	1320	2813	132	3158	5499	163	3319	5699
7. EMS	35	420	359	4	49	53	4	49	53	22	234	198	24	240	203
8. COUNTY HIGHWAY	10	690	28	1	440	0	1	440	0	10	896	138	10	919	141
9. DEPTS. CITY STREET	19	272	50	0	0	0	0	0	0	18	247	51	18	259	54
10. CITY PARK	19	250	68	0	0	0	0	0	0	18	244	62	18	251	64
11. CITY OTHER	10	316	226	0	0	0	0	0	0	10	303	228	10	310	232
SUB-TOTAL	93	1948	741	5	489	53	5	489	53	78	1,924	677	86	1979	694
12. STATE POLICE	1	787	327	1	787	327	1	787	327	1	821	324	1	1056	379
13. STATE HIGHWAYS	1	308	16	1	308	16	1	308	16	1	404	88	1	530	115
14. STATE DNR	1	198	138	1	198	138	1	198	138	1	218	159	1	239	184
15. CORRECTIONS DP	1	130	597	1	130	597	1	130	597	1	159	667	1	187	754
16. OTHER STATE AGENCIES	6	43	41	6	43	41	6	31	48	6	62	57	6	84	79
SUB-TOTAL	10	1466	1119	10	1466	1119	10	1474	1126	10	1664	1295	10	2096	1511
17. ALL OTHER (Incl. Federal)	1	1	6	1	1	6	1	1	6	1	10	15	1	15	20
GRAND TOTAL	308	6383	6086	151	4,897	5041	76	3,284	4,000	241	6,756	7,486	254	7409	7924

TERRE-Haute-BLOOMINGTON AREA (10 COUNTIES)

TYPE OF AGENCY	TOTAL # OF ELIGIBLE AGENCIES	TOTAL # OF RETURNS (AGENCIES)	# OF RATIO'S FROM RETURNS (AGENCIES)	TOTAL # INTERESTED RESPONDENTS	# OF RATIO'S OF RATIO'S INTERESTED	1990	1995	2005
						MOBILES PORTABLES	MOBILES PORTABLES	MOBILES PORTABLES
1. SHERIFFS	10	153	151	6	103	108	180	181
2. POLICE/CPD	5	146	220	3	136	205	150	225
3. MARSHALLS/SCPD	34	96	140	3	10	35	95	137
4. CITY FIRE	5	106	138	2	60	80	118	150
5. VOL. FIRE	98	579	541	25	174	158	247	251
6. CIVIL DEFENSE	10	138	176	1	0	0	124	143
SUB-TOTAL	162	1218	1366	48	334	451	914	1080
7. EMS	16	59	67	2	17	25	53	69
8. COUNTY HIGHWAY	10	224	29	6	148	13	202	28
9. DEPTS.	5	97	21	1	39	9	97	21
10. CITY STREET	5	108	20	1	80	20	118	40
11. CITY PARK	4	2	2	0	0	0	2	2
SUB-TOTAL	40	500	159	10	284	67	472	474
12. STATE POLICE	1	106	96	1	106	96	126	126
13. STATE HIGHWAYS	1	180	14	1	180	14	238	310
14. STATE DNR	1	287	166	1	287	166	314	359
15. CORRECTIONS DP	1	26	48	1	26	48	30	52
16. OTHER STATE AGENCIES	6	13	11	6	13	11	18	22
SUB-TOTAL	10	612	335	10	612	335	776	871
17. ALL OTHER (Incl. Federal)	0	0	0	0	0	0	0	0
GRAND TOTAL	212	2330	1850	68	1,443	1,057	2,112	2,332

800 MHz USE PROJECTION, PUBLIC SAFETY AND RELATED AGENCIES, INDIANA REGION, 1990-2005

FREQUENCY PLANNING AREA (FPA) 3
EVANSVILLE-VINCENNES-PTA AREA (13 COUNTIES)

TYPE OF AGENCY	TOTAL # OF ELIGIBLE AGENCIES	# OF RADIOS FROM RETURNS (AGENCIES)	TOTAL # OF RADIOS INTERESTED	# OF RADIOS PROJECTED		1990		1995		2005								
				MOBILES	PORTABLES	MOBILES	PORTABLES	MOBILES	PORTABLES	MOBILES	PORTABLES							
1. SHERIFFS	13	189	209	11	154	179	4	29	32	5	134	132	13	247	13	250	301	
2. POLICE	9	180	170	5	141	131	3	113	89	4	123	99	8	176	8	179	173	
3. MARSHALLS/CPD	42	126	134	7	23	58	4	14	43	12	47	69	38	120	42	138	196	
4. CITY FIRE	9	153	125	4	84	56	3	79	52	4	91	64	8	148	131	8	152	134
5. VOL. FIRE	103	555	684	34	227	224	6	38	18	5	56	13	57	353	406	66	396	450
6. CIVIL DEFENSE	13	271	281	2	52	62	0	0	0	1	18	18	12	249	257	13	267	275
SUB-TOTAL	189	1474	1653	63	881	710	20	293	234	31	439	395	136	1293	1432	150	1382	1529
7. EMS	23	88	114	8	36	57	1	8	2	2	13	9	22	95	128	22	97	130
8. COUNTY HIGHWAY	13	281	51	3	89	3	0	0	0	0	0	0	12	255	51	12	260	53
9. DEPTS. CITY STREET	9	131	23	1	13	3	0	0	0	0	0	0	8	115	23	8	117	23
10. CITY PARK	9	70	18	0	0	0	0	0	0	0	0	0	8	61	17	8	62	17
11. CITY OTHER	4	8	6	0	0	0	0	0	0	0	0	0	4	12	10	4	12	10
SUB-TOTAL	58	578	212	12	138	63	1	8	2	2	13	9	54	538	229	54	548	233
12. STATE POLICE	1	119	106	1	119	106	1	119	106	1	119	106	1	145	124	1	171	146
13. STATE HIGHWAYS	1	280	15	1	280	15	1	280	15	1	280	15	1	369	46	1	482	61
14. STATE DNR	1	144	116	1	144	116	1	144	116	1	144	116	1	157	139	1	177	150
15. CORRECTIONS DP	1	25	90	1	25	90	1	25	90	1	25	90	1	32	112	1	38	128
16. OTHER STATE AGENCIES	6	9	8	6	9	8	6	9	8	6	10	9	6	14	12	6	21	18
SUB-TOTAL	10	577	335	10	577	335	10	577	335	10	578	336	10	717	433	10	889	513
17. ALL OTHER (Incl. Federal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL	257	2629	2200	85	1,356	1108	31	878	571	43	1,030	740	200	2,548	2,094	214	2819	2275

NEW ALBANY-JEFFERSONVILLE-COLUMBUS AREA (3 COUNTIES)

TYPE OF AGENCY	TOTAL # OF EST. # OF RADIOS			TOTAL #			# OF RADIOS			1990			1995			2005		
	ELIGIBLE AGENCIES	MOBILES	PORTABLES	ELIGIBLE AGENCIES	MOBILES	PORTABLES	FROM RETURNS	MOBILES	PORTABLES	INTERESTED RESPONDENTS	MOBILES	PORTABLES	PROJECTED USERS	MOBILES	PORTABLES	PROJECTED USERS	MOBILES	PORTABLES
1. SHERIFFS	9	195	144	6	152	116		142	90	7	174	128	9	235	193	9	239	195
2. POLICE/LOPD	11	235	350	7	235	280		235	280	7	235	280	11	338	385	11	343	390
3. MARSHALLS/SCPD	20	57	57	6	14	13		11	8	12	30	32	19	54	60	20	59	66
4. CITY FIRE	11	117	150	3	49	92		34	42	5	79	112	9	132	167	9	134	169
5. VOL. FIRE	92	594	677	21	185	153		76	63	9	90	83	45	398	389	52	424	423
6. CIVIL DEFENSE	9	122	124	3	26	16		25	10	2	25	15	9	122	125	9	124	128
SUB-TOTAL	152	1470	1482	46	671	670		523	493	42	633	650	102	1279	1319	110	1323	1372
7. EMS	14	93	68	4	58	31		0	0	1	3	3	14	122	124	14	124	126
8. COUNTY HIGHWAY	9	197	64	3	61	7		0	0	1	6	1	9	237	73	9	241	74
9. DEPTS.	11	145	31	1	30	8		0	0	0	0	0	11	155	38	11	157	39
10. CITY STREET	11	65	20	1	8	2		0	0	0	0	0	11	69	23	11	70	23
11. CITY OTHER	1	4	2	0	0	0		0	0	0	0	0	1	4	2	1	4	2
SUB-TOTAL	46	504	185	9	137	48		0	0	2	9	4	46	587	260	46	596	264
12. STATE POLICE	1	111	102	1	111	102		111	102	1	111	102	1	129	112	1	147	130
13. STATE HIGHWAYS	1	220	9	1	220	9		220	9	1	220	9	1	289	48	1	377	63
14. STATE DNR	1	170	115	1	170	115		170	115	1	170	115	1	187	137	1	208	156
15. CORRECTIONS DP	1	5	14	1	5	14		5	14	1	7	14	1	10	20	1	14	25
16. OTHER	6	16	13	6	16	13		16	13	6	19	16	6	21	17	6	31	22
STATE AGENCIES	6	16	13	6	16	13		16	13	6	19	16	6	21	17	6	31	22
SUB-TOTAL	10	522	253	10	522	253		522	253	10	527	256	10	636	334	10	777	396
17. ALL OTHER (incl. Federal)	1	75	24	1	75	24		75	24	1	75	24	1	75	24	1	75	24
GRAND TOTAL	209	2571	1944	66	1,425	995		1,120	770	55	1,244	934	159	2,577	1,937	167	2771	2056

KOHOMO-PERU-WARSAN AREA (7 COUNTIES)																		
TYPE OF AGENCY	TOTAL # OF ELIGIBLE AGENCIES	EST. # OF RADIOS ELIGIBLE AGENCIES		TOTAL # OF RETURNS (AGENCIES)	# OF RADIOS FROM RETURNS		TOTAL # INTERESTED RESPONDANTS	# OF RADIOS		PROJECTED USERS	1990		PROJECTED USERS	1995		# OF PROJECTED USERS	2005	
		MOBILES	PORTABLES		MOBILES	PORTABLES		MOBILES	PORTABLES		MOBILES	PORTABLES		MOBILES	PORTABLES		MOBILES	PORTABLES
1. SHERIFFS	7	104	126	6	74	96	4	57	66	4	38	57	6	84	112	6	86	114
2. POLICE/LCPD	7	310	237	4	272	178	1	228	100	1	228	100	7	332	287	7	334	291
3. MARSHALLS/SCPD	26	90	112	6	17	26	2	6	11	11	32	50	17	59	76	18	62	80
4. CITY FIRE	7	118	89	3	33	27	1	14	9	2	59	39	7	119	95	7	121	96
5. VOL. FIRE	54	309	250	17	90	82	5	27	26	12	56	98	41	272	234	45	291	249
6. CIVIL DEFENSE	7	136	144	2	32	40	1	20	20	1	20	20	7	144	149	7	146	151
SUB-TOTAL	108	1067	958	38	518	449	14	352	232	31	433	364	85	1010	953	90	1040	981
7. EMS	20	70	178	4	9	68	1	0	25	1	0	25	17	65	138	18	66	141
8. COUNTY HIGHWAY	7	193	17	4	118	7	0	0	0	0	0	0	7	197	17	7	200	17
9. DEPTS. CITY STREET	7	86	12	2	19	1	0	0	0	1	24	4	7	86	12	7	87	12
10. CITY PARK	7	47	11	1	9	2	1	9	2	2	21	16	7	50	12	7	51	12
11. CITY OTHER	1	2	2	0	0	0	0	0	0	1	2	2	1	2	2	1	2	2
SUB-TOTAL	42	398	220	11	155	78	2	9	27	5	47	47	39	400	181	40	406	184
12. STATE POLICE	1	70	63	1	70	63	1	70	63	1	70	63	1	84	77	1	98	86
13. STATE HIGHWAYS	1	125	7	1	125	7	1	125	7	1	125	7	1	165	35	1	215	46
14. STATE DNR	1	92	69	1	92	69	1	92	69	1	92	69	1	101	82	1	111	94
15. CORRECTIONS DP	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0
16. OTHER STATE AGENCIES	6	12	10	6	12	10	6	12	10	6	14	12	6	16	12	6	23	17
SUB-TOTAL	10	299	149	10	299	149	10	299	149	10	301	151	10	366	206	10	447	243
17. ALL OTHER (incl. Federal)	1	14	9	1	14	9	0	0	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL	161	1778	1336	60	986	685	26	660	408	46	781	562	134	1,776	1,340	140	1893	1408

A Profile of Eligible Users and Interested Respondents

The numerous questions asked on the Radio User Questionnaire and the appreciable rate of return permits the preparation of useful profiles of public agency interest in 800 MHz frequencies and systems in the Indiana Plan Region.

The **TOTAL COUNTS** of answers to principal questions on the Radio User survey instrument by responding agencies are as follows:

SECTION I

1. Total (approximate) number of eligible user agencies in Indiana Region #14: 1,790
2. Total number of eligible agencies which returned questionnaires: 633
3. Number of Returns by Type of Service, as follows:

<u>TYPE OF SERVICE</u>	<u># OF ELIGIBLES</u>	<u># OF RETURNS</u>	<u>% OF RETURNS OF TOTAL ELIGIBLE</u>
<u>Law Enforcement:</u>	464	216	46.6%
Sheriffs Depts.:	82	67	81.7%
Large City Police Depts.:	75	59	78.7%
Small City Police			
Depts./Town Marshals:	306	88	28.8%
State Police	1	1	100.0%
<u>Fire Fighting:</u>	782	274	35.0%
Large Fire Depts.	75	33	44.0%
Vol. Fire Depts.	707	241	34.1%
<u>Emergency Services:</u>	272	71	26.1%
Local EMS Services	187	50	26.7%
State EMS Commission	1	1	100.0%
County Civil Defense	82	18	22.0%
State Civil Defense	1	1	100.0%
State Envir. Mgmt./HAZMAT	1	1	100.0%
<u>Roads and Parks:</u>	234	63	26.9%
State Highway Dept.	1	1	100.0%
County Highway Depts.	82	40	48.8%
City Street Depts.	75	12	16.0%
State Dept. Natural Resources	1	1	100.0%
City Park Depts.	75	9	12.0%
<u>Miscellaneous:</u>	38	9	23.7%
<u>TOTALS:</u>	1,790	633	35.4%

SECTION II

1. Number of Agencies that provide

service statewide:

10

2. Number of Responding Agencies by

Type of Service Area:

Urban: 204	Rural: 173	Both: 256
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3. Projected Population Figures,

by Frequency Planning Area:

See Table 3 below.

SECTION III

1. Number of Agencies indicating Present Radio System “Not Adequate”:

Today (1989):	203	(32.1%)
In 1995:	392	(61.9%)
In 2005	462	(73.0%)

2. Number of Agencies, by level of experience of “WAIT TIME” to access “voice” channel from the field:

Never:	176	(27.8%)
Seldom:	146	(23.1%)
Sometimes:	108	(17.0%)

Often:	191	(30.2%)
No Indication:	12	(1.9%)

3. Agencies currently licensed on 800 MHz channels: 9

Agency names are listed in Chart 1, below.

4. Agencies having application for 800 MHz channels approved through APCO Coordinator, or pending: 6

Agency names are listed in Chart 1, below:

5. Choice of Additional Channels:

In 800 MHz spectrum:	215
In current spectrum:	354
Did not indicate:	64

(Left question blank)

6. Number of Agencies anticipating funding for new system:

In 12 Months:	32	In 48 Months:	42
In 24 Months:	19	In 60 Months:	71
In 36 Months:	28		

Chart 1 follows.

CHART 1

CURRENT 800 MHz LICENSEES

AGENCY	CITY/TOWN
MARION COUNTY EMERGENCY COMMUNICATIONS AGENCY	INDIANAPOLIS
JOHNSON COUNTY SHERIFF DEPARTMENT	FRANKLIN
ALLEN COUNTY SHERIFF DEPARTMENT	FT. WAYNE
HOWARD COUNTY SHERIFF DEPARTMENT	KOKOMO
MISHAWAKA POLICE DEPARTMENT	MISHAWAKA
SPEEDWAY FIRE DEPARTMENT	SPEEDWAY
LOGANSPOUT POLICE DEPARTMENT	LOGANSPOUT
EAST CHICAGO POLICE DEPARTMENT	EAST CHICAGO
WAYNE TOWNSHIP FIRE DEPARTMENT	INDIANAPOLIS

LICENSES APPROVED THROUGH APCO COORDINATOR OR PENDING

TIPPECANOE COUNTY SHERIFF	LAFAYETTE
JEFFERSONVILLE POLICE DEPARTMENT	JEFFERSONVILLE
HAMILTON COUNTY SHERIFF DEPARTMENT	NOBLESVILLE
CITY OF EVANSVILLE/VANDERBURGH COUNTY GOVERNMENT	EVANSVILLE
CITY OF INDIANAPOLIS, DEPARTMENT OF TRANSPORTATION	INDIANAPOLIS
INDIANA STATE GOVERNMENT	LAFAYETTE AREA

PLANS INCOMPLETE/COPY TO BE FORWARDED

CITY OF CARMEL	CARMEL
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PREFER ADDITIONAL 800 MHz OVER CURRENT SPECTRUM

COUNTY

AGENCY

CITY

ALLEN	SOUTHWEST ALLEN CO. FIRE DEPT.	FT. WAYNE
ALLEN	EMERGENCY 45	NEW HAVEN
ALLEN	ALLEN CO. SHERIFF'S DEPT.	FORT WAYNE
BARTHOLOMEW	BARTHOLOMEW CO. SHERIFF'S DEPT.	COLUMBUS
BARTHOLOMEW	COLUMBUS POLICE DEPT.	COLUMBUS
BENTON	OTTERBEIN AREA VOL. FIRE DEPT.	OTTERBEIN
BENTON	BOSWELL-GRANT TWP. VOL. FIRE DEPT.	BOSWELL
BENTON	FOWLER POLICE DEPT	FOWLER
BLACKFORD	MONTPELIER POLICE DEPT.	MONTPELIER
BLACKFORD	BLACKFORD CO. SHERIFF'S DEPT.	HARTFORD CITY
BOONE	WORTH TWP. VOL. FIRE DEPT.	WHITESTOWN
BOONE	BOONE CO. EMER./WITHAM HOSPITAL	LEBANON
BOONE	LEBANON POLICE DEPT.	LEBANON
CARROLL	DELPHI CITY POLICE DEPT.	DELPHI
CARROLL	CARROLL CO. SHERIFF'S DEPT.	DELPHI
CASS	GALVESTON VOL. FIRE DEPT.	GALVESTON
CASS	GALVESTON POLICE DEPT.	GALVESTON
CASS	CASS CO. SHERIFF'S DEPT.	LOGANSPORT
CLARK	UNDERWOOD VOL. FIRE DEPT.	UNDERWOOD
CLARK	CLARK CO. SHERIFF'S DEPT.	JEFFERSONVILLE
CLARK	JEFFERSONVILLE POLICE DEPT.	JEFFERSONVILLE
CLARK	CHARLESTOWN CITY POLICE	CHARLESTOWN
CLAY	CLAY CO. SHERIFF'S DEPT.	BRAZIL
CLINTON	FRANKFORT-CLINTON CO. CD	FRANKFORT
DEARBORN	DILLSBORO POLICE DEPT.	DILLSBORO
DEARBORN	GREENDALE FIRE DEPT.	GREENDALE
DEARBORN	CITY OF LAWRENCEBURG	LAWRENCEBURG
DELAWARE	DALEVILLE POLICE DEPT.	DALEVILLE
DELAWARE	MUNCIE POLICE DEPT.	MUNCIE
DELAWARE	DELAWARE CO. AIRPORT FIRE DEPT.	MUNCIE
DUBOIS	ST. ANTHONY VOL. FIRE DEPT.	ST. ANTHONY
DUBOIS	HUNTINGBURG POLICE DEPT.	HUNTINGBURG
DUBOIS	FERDINAND FIRE DEPT.	FERDINAND
FAYETTE	GLENWOOD VOL. FIRE DEPT.	GLENWOOD
FAYETTE	FAYETTE COUNTY SHERIFF'S DEPT.	CONNERSVILLE
FLOYD	GEORGETOWN TWP. FIRE DEPT.	GEORGETOWN
FLOYD	GREENVILLE TWP. FIRE DEPT.	GREENVILLE
FLOYD	FLOYD CO. CIVIL DEFENSE	NEW ALBANY
FLOYD	NEW ALBANY POLICE	NEW ALBANY
FLOYD	NEW ALBANY FIRE DEPT.	NEW ALBANY
GIBSON	TOWN OF FRANCISCO	FRANCISCO

COUNTY

AGENCY

CITY

GIBSON	FT. BRANCH POLICE DEPT.	FT. BRANCH
GREENE	LEWIS TWP. FIRE DEPT.	COALMONT
HAMILTON	CICERO POLICE DEPARTMENT	CICERO
HAMILTON	WAYNE TWP. FIRE DEPT.	NOBLESVILLE
HAMILTON	SHERIDAN VOL. FIRE DEPT.	SHERIDAN
HAMILTON	FISHERS POLICE DEPT.	FISHERS
HAMILTON	WESTFIELD MARSHAL'S DEPT.	WESTFIELD
HAMILTON	FISHERS FIRE DEPT. & FALL CK. TWP. EMS	FISHERS
HAMILTON	WESTFIELD FIRE DEPT.	WESTFIELD
HAMILTON	CICERO FIRE DEPT.	CICERO
HANCOCK	WILKINSON VOL. FIRE DEPT.	WILKINSON
HANCOCK	FOUNTAIN TOWN COMM. VOL. FIRE DEPT.	FOUNTAIN TOWN
HANCOCK	BUCK CREEK TWP. FIRE DEPT.	GREENFIELD
HANCOCK	SUGAR CREEK TWP. FIRE DEPT. 2	GREENFIELD
HANCOCK	WILKINSON POLICE DEPT.	WILKINSON
HANCOCK	GREENFIELD POLICE DEPT.	GREENFIELD
HARRISON	CORYDON POLICE DEPT.	CORYDON
HARRISON	HARRISON CO. SHERIFF'S DEPT.	CORYDON
HENDRICKS	PLAINFIELD FIRE DEPT.	PLAINFIELD
HENRY	GREENSBORO VOL. FIRE DEPT.	GREENSBORO
HENRY	SPICELAND VOL. FIRE DEPT.	SPICELAND
HENRY	KNIGHTSTOWN VOL. FIRE DEPT.	KNIGHTSTOWN
HENRY	KNIGHTSTOWN POLICE DEPT.	KNIGHTSTOWN
HENRY	NEW CASTLE FIRE DEPT.	NEW CASTLE
HOWARD	GREENTOWN VOL. FIRE DEPT.	GREENTOWN
HOWARD	HOWARD CO. CIVIL DEFENSE	KOKOMO
HOWARD	KOKOMO POLICE DEPT.	KOKOMO
HUNTINGTON	MT. ETNA VOL. FIRE DEPT.	HUNTINGTON
HUNTINGTON	ANDREWS POLICE DEPT.	ANDREWS
HUNTINGTON	MARKLE POLICE DEPT.	MARKLE
JACKSON	BROWNSTOWN VOL. FIRE DEPT., INC.	BROWNSTOWN
JACKSON	CROTHERSVILLE POLICE DEPT.	CROTHERSVILLE
JACKSON	SEYMOUR POLICE DEPT.	SEYMOUR
JAY	PENNVILLE FIRE DEPT.	PENNVILLE
JAY	DUNKIRK FIRE DEPT.	DUNKIRK
JEFFERSON	US ARMY JEFFERSON PROVING GROUND	MADISON
JEFFERSON	MADISON POLICE DEPT.	MADISON
JENNINGS	GENEVA TWP. VOL. FIRE DEPT.	SCIPIO
JOHNSON	EDINBURGH POLICE DEPT.	EDINBURGH
JOHNSON	NEW WHITELAND POLICE DEPT.	NEW WHITELAND
JOHNSON	WHITELAND POLICE DEPT.	WHITELAND
JOHNSON	JOHNSON CO. SHERIFF'S DEPT.	FRANKLIN
JOHNSON	FRANKLIN POLICE DEPT.	FRANKLIN
KNOX	MCCLURE FUNERAL SERVICE, INC.	BICKNELL
KNOX	VINCENNES POLICE DEPT.	VINCENNES

COUNTY

AGENCY

CITY

KNOX	VINCENNES CITY FIRE DEPT.	VINCENNES
KOSCIUSKO	SILVER LAKE FIRE DEPT.	SILVER LAKE
KOSCIUSKO	MILFORD EMERGENCY SERVICES, INC.	MILFORD
KOSCIUSKO	WARSAW PARK AND RECREATION DEPT.	WARSAW
LAGRANGE	LAGRANGE CO. EMER. MEDICAL SERVICE	LAGRANGE
LAGRANGE	LAGRANGE CO. SHERIFF'S DEPT.	LAGRANGE
LAWRENCE	MITCHELL POLICE DEPT.	MITCHELL
LAWRENCE	LAWRENCE CO. SHERIFF'S DEPT.	BEDFORD
LAWRENCE	BEDFORD POLICE DEPT.	BEDFORD
MADISON	EAGLEWOOD VOL. FIRE DEPT.	ANDERSON
MADISON	MARKLEVILLE MARSHAL'S DEPT.	MARKLEVILLE
MADISON	ELWOOD POLICE DEPT.	ELWOOD
MADISON	ALEXANDRIA POLICE DEPT.	ALEXANDRIA
MADISON	ALEXANDRIA FIRE DEPT.	ALEXANDRIA
MARION	CLERMONT POLICE DEPT.	INDIANAPOLIS
MARION	SOUTHPORT POLICE DEPT.	SOUTHPORT
MARION	MERIDIAN HILLS POLICE DEPT.	INDIANAPOLIS
MARION	INDIANA UNIV. POLICE-INDPLS. DIVISION	INDIANAPOLIS
MARION	WILLIAMS CREEK POLICE DEPT.	INDIANAPOLIS
MARION	EMERGENCY MANAGEMENT DIVISION	INDIANAPOLIS
MARION	WISHARD HOSPITAL AMBULANCE SERVICE	INDIANAPOLIS
MARION	DEVINE AMBULANCE SERVICE, INC.	MARION
MARION	BEECH GROVE FIRE DEPT.	BEECH GROVE
MARION	CASTLETON POLICE DEPT./NORTHEAST SEC	CASTLETON
MARION	DECATUR TWP. VOL. FIRE DEPT.	WEST NEWTON
MARION	FRANKLIN TWP. VOL. FIRE DEPT. CO#2	ACTON
MARION	LAWRENCE TWP. FIRE DEPT.	INDIANAPOLIS
MARION	PERRY TWP. FIRE	INDIANAPOLIS
MARION	VOLUNTEER FIRE DEPT. PERRY TWP., INC.	INDIANAPOLIS
MARION	PIKE TWP. FIRE DEPT.	INDIANAPOLIS
MARION	WASHINGTON TWP. FIRE DEPT.	INDIANAPOLIS
MARION	TOWN OF WARSAW PARK POLICE DEPT.	INDIANAPOLIS
MARION	INDIANAPOLIS DEPT. OF TRANSPORTATION	INDIANAPOLIS
MARION	IUPUI FIRE PROTECTION SERVICES	INDIANAPOLIS
MARION	MARION CO. SHERIFF'S DEPT.	INDIANAPOLIS
MARION	INDIANAPOLIS POLICE DEPT.	INDIANAPOLIS
MARION	SPEEDWAY POLICE AND FIRE DEPT.	SPEEDWAY
MARION	INDIANAPOLIS FIRE DEPT.	INDIANAPOLIS
MARION	LAWRENCE FIRE DEPT.	LAWRENCE
MARION	LAWRENCE POLICE DEPT.	LAWRENCE
MARTIN	LOOGOOTEE VOL. FIRE DEPT.	LOOGOOTEE
MARTIN	LOOGOOTEE POLICE DEPT.	LOOGOOTEE
MIAMI	PIPE CREEK TWP. VOL. FIRE DEPT.	BUNKER HILL
MONROE	ELLETTSVILLE POLICE DEPT.	ELLETTSVILLE
MONROE	BLOOMINGTON HOSP. AMBULANCE SERV.	BLOOMINGTON

COUNTY

AGENCY

CITY

MONROE	MONROE CO. SHERIFF'S DEPT.	BLOOMINGTON
MONROE	BLOOMINGTON POLICE DEPT.	BLOOMINGTON
MONTGOMERY	DARLINGTON VOL. FIRE DEPT.	DARLINGTON
MONTGOMERY	DARLINGTON POLICE DEPT.	DARLINGTON
MONTGOMERY	MONTGOMERY COUNTY POLICE	CRAWFORDSVILLE
MONTGOMERY	CRAWFORDSVILLE POLICE DEPT.	CRAWFORDSVILLE
MONTGOMERY	CRAWFORDSVILLE FIRE DEPT.	CRAWFORDSVILLE
MORGAN	HARRISON TWP. FIRE DEPT.	MARTINSVILLE
MORGAN	MARTINSVILLE POLICE DEPT.	MARTINSVILLE
PARKE	MARSHALL VOL. FIRE DEPT.	MARSHALL
PERRY	PERRY COUNTY SHERIFF'S DEPT.	CANNELTON
PIKE	PETERSBURG POLICE DEPT.	PETERSBURG
PIKE	PIKE CO. SHERIFF'S DEPT.	PETERSBURG
POSEY	POSEYVILLE VOL. FIRE DEPT.	POSEYVILLE
POSEY	POSEY CO. SHERIFF'S DEPT.	MT. VERNON
PUTNAM	FILLMORE VOL. FIRE DEPT.	FILLMORE
PUTNAM	BAINBRIDGE POLICE DEPT.	BAINBRIDGE
RANDOLPH	PARKER CITY POLICE DEPT.	PARKER CITY
RIPLEY	BATESVILLE VOL. FIRE DEPT., INC.	BATESVILLE
RIPLEY	SOUTHERN RIPLEY CO. EMER. LIFE SQUAD	VERSAILLES
RIPLEY	RIPLEY COUNTY CIVIL DEFENSE	VERSAILLES
RIPLEY	SUNMAN RURAL FIRE DEPARMENT INC.	SUNMAN
RUSH	RUSHVILLE TWP. VOL. FIRE DEPT.	RUSHVILLE
SHELBY	SHELBYVILLE/SHELBY CO. EMER. AMBUL.	SHELBYVILLE
SHELBY	SHELBYVILLE POLICE DEPT.	SHELBYVILLE
SPENCER	SANTA CLAUS VOL. FIRE DEPT.	SANTA CLAUS
SPENCER	DALE VOL. FIRE DEPT., INC.	DALE
SPENCER	SPENCER CO. SHERIFF'S DEPT.	ROCKPORT
STEUBEN	STEUBEN CO. SHERIFF'S DEPT.	ANGOLA
SULLIVAN	SULLIVAN CO. SHERIFF'S DEPT.	SULLIVAN
TIPPECANOE	CLARKS HILL VOL. FIRE DEPT.	CLARKS HILL
TIPPECANOE	TIPPECANOE TWP. VOL. FIRE DEPT.	BATTLE GROUND
TIPPECANOE	BATTLE GROUND POLICE DEPT.	BATTLE GROUND
TIPPECANOE	TIPPECANOE EMER. AMBULANCE SERVICE	LAFAYETTE
TIPPECANOE	TIPPECANOE CO. SHERIFF'S DEPT.	TIPPECANOE
TIPPECANOE	LAFAYETTE POLICE DEPT.	LAFAYETTE
TIPPECANOE	WEST LAFAYETTE POLICE DEPT.	WEST LAFAYETTE
TIPPECANOE	LAFAYETTE FIRE DEPT.	LAFAYETTE
TIPPECANOE	MOTOR VEHICLE HWY. DEPT.	LAFAYETTE
TIPTON	WINDFALL POLICE DEPT.	WINDFALL
TIPTON	TIPTON CO. SHERIFF'S DEPT.	TIPTON
TIPTON	TIPTON FIRE DEPT.	TIPTON
VANDEBURGH	EVANSVILLE POLICE DEPT.	EVANSVILLE
VANDEBURGH	EVANSVILLE FIRE DEPT.	EVANSVILLE
VERMILLION	CAYUGA VOL. FIRE DEPT.	CAYUGA

COUNTY

AGENCY

CITY

VERMILLION	UNIVERSAL POLICE DEPT.	UNIVERSAL
VERMILLION	VERMILLION CO. SHERIFF'S DEPT.	NEWPORT
VIGO	SEELYVILLE VOL. FIRE DEPT.	SEELYVILLE
VIGO	RILEY FIRE DEPT.	RILEY
VIGO	VIGO CO. SHERIFF'S DEPT.	TERRE HAUTE
VIGO	TERRE HAUTE POLICE DEPT.	TERRE HAUTE
VIGO	TERRE HAUTE CITY FIRE DEPT.	TERRE HAUTE
WABASH	WABASH TWP. FIRE DEPT.	WEST LAFAYETTE
WARRICK	BOONVILLE FIRE DEPT.	BOONVILLE
WASHINGTON	SALEM POLICE DEPT.	SALEM
WAYNE	DUBLIN POLICE DEPT.	DUBLIN
WAYNE	MILTON-WASHINGTON TWP. VOL. FIRE DEPT.	MILTON
WAYNE	CENTERVILLE VOL. FIRE DEPT.	CENTERVILLE
WAYNE	HAGERSTOWN POLICE DEPT.	HAGERSTOWN
WAYNE	HOWARD AMBULANCE	CAMBRIDGE CITY
WAYNE	RICHMOND POLICE DEPT.	RICHMOND
WAYNE	RICHMOND FIRE DEPT.	RICHMOND
WHITE	WOLCOTT POLICE DEPT.	WOLCOTT
WHITLEY	LARWILL-RICHLAND TWP. VOL. FIRE DEPT.	LARWILL
WHITLEY	WHITLEY CO. EMERGENCY MEDICAL SERV.	COLUMBIA CITY
WHITLEY	WHITLEY CO. SHERIFF'S DEPT.	COLUMBIA CITY
WHITLEY	COLUMBIA CITY POLICE DEPT.	COLUMBIA CITY

TABLE 3 **INDIANA 800 MHz FREQUENCY PLANNING AREAS (FPA'S)**
COUNTY POPULATION ESTIMATES

COUNTIES:	CURRENT:	1995:	2005:
FPA 1-A (LAFAYETTE AREA)			
BENTON	9,800	10,120	9,860
CARROLL	19,300	18,500	17,720
CLINTON	31,400	30,850	30,600
FOUNTAIN	18,400	18,700	18,210
MONTGOMERY	35,800	36,690	37,450
TIPPECANOE	124,800	131,280	135,450
WARREN	8,300	7,870	7,300
WHITE	<u>23,600</u>	<u>22,880</u>	<u>22,410</u>
SUB-TOTAL FPA 1-A	271,400	276,890	279,000
FPA 1-B (INDIANAPOLIS AREA)			
BOONE	38,600	41,350	43,970
HAMILTON	98,100	108,470	121,170
HANCOCK	45,000	46,610	48,050
HENDRICKS	76,100	80,490	85,340
JOHNSON	86,100	93,150	101,080
MADISON	132,800	130,680	128,120
MARION	790,100	809,500	821,040
MORGAN	54,300	62,160	65,300
PUTNAM	30,300	30,870	31,320
SHELBY	<u>40,500</u>	<u>41,260</u>	<u>42,470</u>
SUB-TOTAL FPA 1-B	1,391,900	1,444,540	1,487,920
FPA 2 (VIGO-MONROE AREA)			
BROWN	13,100	13,190	13,280
CLAY	24,800	24,170	23,510
GREENE	30,700	29,980	29,400
LAWRENCE	42,900	42,500	42,220
MONROE	103,600	105,620	108,890
OWEN	17,400	17,870	18,320
PARKE	15,900	15,860	15,530
SULLIVAN	20,300	19,770	19,080
VERMILLION	17,500	17,490	17,200
VIGO	<u>107,600</u>	<u>106,880</u>	<u>106,540</u>
SUB-TOTAL FPA 2	393,800	393,330	393,970

Source: Indiana State Board of Health, Indiana County Population Projections, 1985-2020 (1988); U.S. Census Bureau, Current Population Reports, 1987.

TABLE 3 (CONTINUED)

FPA 3
(SOUTHWEST)

CRAWFORD	10,300	10,290	10,330
DAVISS	28,800	30,490	31,690
DUBOIS	36,300	37,760	39,010
GIBSON	33,200	33,090	32,580
KNOX	40,900	42,000	42,510
MARTIN	11,300	10,990	10,880
ORANGE	19,100	19,210	19,270
PERRY	18,800	18,610	18,160
PIKE	12,900	12,950	12,300
POSEY	25,800	27,310	27,740
SPENCER	19,900	21,300	21,840
WARRICK	46,300	52,920	58,150
VANDEBURGH	<u>166,700</u>	<u>169,170</u>	<u>168,450</u>
SUB-TOTAL FPA 3	470,300	486,090	492,910

FPA 4
(COLUMBUS-
NEW ALBANY)

BARTHOLOMEW	65,000	66,090	66,780
CLARK	89,500	91,850	93,160
FLOYD	64,000	65,050	65,870
HARRISON	28,800	30,810	32,160
JACKSON	37,300	38,800	39,740
JEFFERSON	29,400	29,440	29,760
JENNINGS	23,000	23,390	23,620
SCOTT	21,100	21,390	21,840
WASHINGTON	<u>23,100</u>	<u>23,750</u>	<u>24,520</u>
SUB-TOTAL FPA 4	381,200	390,570	397,450

FPA 5
(EAST CENTRAL)

BLACKFORD	14,600	15,020	14,590
DEARBORN	37,900	39,700	41,690
DECATUR	23,900	23,400	23,270
DELAWARE	120,500	120,620	122,700
FAYETTE	27,400	27,660	27,470
FRANKLIN	20,000	21,490	22,460
GRANT	76,600	75,030	75,230
HENRY	49,600	45,980	43,130
JAY	21,900	20,560	19,520
OHIO	5,400	6,080	6,340
RANDOLPH	27,800	27,820	27,040

TABLE 3 (CONTINUED)

RIPLEY	25,300	26,180	27,110
RUSH	18,400	18,720	18,350
SWITZERLAND	7,500	7,440	7,540
UNION	6,900	7,050	7,030
WAYNE	<u>72,300</u>	<u>69,790</u>	<u>67,400</u>
SUB-TOTAL FPA 5	556,000	552,540	550,870

FPA-6
(FT. WAYNE AREA)

ADAMS	30,900	32,170	34,070
ALLEN	302,000	300,250	304,850
DEKALB	34,800	34,440	35,060
HUNTINGTON	35,900	36,240	36,560
LAGRANGE	28,900	31,310	34,460
NOBLE	38,300	39,470	41,280
STEUBEN	27,400	27,130	27,650
WELLS	26,100	24,130	24,480
WHITLEY	<u>27,600</u>	<u>28,180</u>	<u>28,990</u>
SUB-TOTAL FPA 6	551,900	553,320	567,400

FPA-7
(KOKOMO-PERU AREA)

CASS	40,200	38,800	37,440
FULTON	18,600	18,270	17,740
HOWARD	84,400	85,520	85,670
KOSCIUSKO	64,200	65,590	67,780
MIAMI	38,400	38,220	39,090
TIPTON	16,500	15,730	15,130
WABASH	<u>35,500</u>	<u>36,410</u>	<u>37,630</u>
SUB-TOTAL FPA 7	297,800	298,540	300,480

SUB-TOTAL (FPA 1-A thru 7) (82 COUNTIES)	4,314,300	4,395,820	4,470,000
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TABLE 3 (CONTINUED)

FPA 8
(GARY-ELKHART AREA)

ELKHART	149,700	154,450	160,460
JASPER	26,200	27,420	27,800
LAKE	481,200	481,920	466,720
LAPORTE	140,600	101,970	97,610
MARSHALL	41,200	43,110	44,530
NEWTON	13,800	13,880	13,440
PORTER	123,100	131,210	135,840
PULASKI	13,300	14,410	14,980
ST. JOSEPH	242,400	240,930	243,760
STARKE	21,700	21,320	21,190
SUB-TOTAL FPA 8	1,217,200	1,230,620	1,226,330
STATE TOTAL	<u>5,531,500</u>	<u>5,626,440</u>	<u>5,696,330</u>
(INDIANA)			
(92 COUNTIES)			

APPENDIX

H

APPENDIX H

APPLICATION EVALUATION CRITERIA

CATEGORY WEIGHTS

1. SERVICE: 0 to 100 points

Eligible services have been grouped into the following three Priority Levels. Each Level has a pre-determined maximum number of points associated with it. In the case of a “multiple-service” system being proposed, the application must state the number of mobiles assigned to each service. The percentages resulting from these totals will determine the total number of points awarded.

PRIORITY LEVEL I: Maximum of 100 points

Public Safety Radio Service and Special Emergency Licensees providing protection of life and property.

PRIORITY LEVEL II: Maximum of 65 points

Public Safety Radio Service Licensees providing protection of property only.

PRIORITY LEVEL III: Maximum of 35 points

Special Emergency Radio Service Licensees.

2. SYSTEM TYPE: 0 to 50 points

From 0 to 50 points can be earned in this category, based on the degree of spectrum efficiency demonstrated for the system. The more spectrum efficient a proposed system is, the more points the application will earn. A higher standard will be used to evaluate applications from agencies located within a Primary Zone.

Information relating to the system’s technology such as trunked or conventional operation, and voice or data transmission (or voice/data combination) must be provided. The narrative should also discuss how utilization of these features will result in an efficient use of the spectrum. Furthermore, details regarding any other enhancements to the system must be provided. The application must also state whether the system is being proposed as a single agency-single service, multiple agency-single service, or multiple agency-multiple service operation.

3. INTERSYSTEM INTEROPERABILITY: 0 to 100 points

An application will be awarded from 0 to 50 points in this category based on its description of how the 800 MHz mobile radios will maintain, and/or increase, mutual aid capabilities. Since they are mandated by the National Plan, inclusion of the five Common Channels in mobile equipment is not rated. However, an applicant may earn up to 50 additional points (for the maximum of 100) in this category, on the initial and all subsequent applications, for providing fixed equipment necessary for the operation of common channels in a specific area(s) of the Region.

4. CHANNEL LOADING FACTORS: 10 to 50 points

Applications will receive between 10 to 50 points for proposing a number of mobile units that meet the Channel Loading requirements mandated by this Plan. Consideration will take into account the feasibility of operating the number of mobiles per channel being proposed.

5. COVERAGE AREA: 10 to 50 points

Scoring in this category will be based on two factors: (1) Compliance with the parameters described on pages 19, 20 and 24 of this Plan, as evidenced by the submission of a map of the service area depicting jurisdictional boundaries, proposed transmitter sites, and minimum coverage areas of those transmitter sites; and (2) Channel reuse potential.

6. VACATED FREQUENCIES RETURNED: 0 to 100 points

The application will earn from 0 to 100 points in this category depending on the number of vacated frequencies being proposed for return, in relation to the total number of frequencies used by the agency (including those being applied for); and, the availability of the returned frequencies for use by other agencies in the region.

7. IMPLEMENTATION SCHEDULE: 0 to 50 points

The degree of budgetary commitment to the system being proposed, and the specificity of implementation dates will be the basis for scoring an application in this category. The more explicit an application is with respect to these topics, the more points it will earn in this category.

APPENDIX

J

APPENDIX J

FREQUENCY ASSIGNMENT METHODOLOGY

INTRODUCTION

The purpose of the computer program which assigns frequencies to specific eligibles and to pools for future assignment is two-fold.

- 1) The assignments must be done in a manner which results in a high degree of spectrum efficiency, and
- 2) The assignments must be done in a manner which results in a low probability of co-channel and adjacent channel interference.

Since the desired output is a geographic sorting of frequencies, a method of defining geography, must be part of the input.

A list of the number of channels to be assigned in each geographic area is also required, along with the name of the eligible or pool.

Acceptable interference probabilities are determined for the region. Frequency assignments are then made using a computer program which satisfies the goals of spectrum efficiency and interference protection.

Where are Channels to be Allocated?

For the purpose of this frequency sort, a geographic area is to be defined as one or more circles of equal radius. To the degree practical, this circle or circles should include the entire area of the eligible's geopolitical boundary, but not exceed the boundary by more than three miles.

Therefore, the procedure is to gather maps of sufficient detail, outline the areas to be defined, determine the co-ordinates and radius of the circles which define each area, and tabulate the data.

Define the Environment

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

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

Blocked Channels

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

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

Consideration is given to channels known to be assigned in adjacent regions to ensure compatibility at the interface.

May or may not apply.

Transmitter Combining

The computer program is designed to provide a minimum frequency separation between any two channels assigned to the same eligible at the same site.

This separation is provided in order to enable more efficient combining of multiple transmitters to a single antenna.

These separated blocks of frequencies also have a maximum size. That is to say, if the eligible has more frequencies than the maximum size of the combining block, then a new compatible block is created.

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

* **Special Considerations**

There are existing licensees in the 806-821/851-866 MHz spectrum who plan to expand existing systems into the 821-824/866-869 MHz band.

Existing radio units are unable to operate on 12.5 KHz separated carrier frequencies.

The result is that these radios can only operate on “even” FCC numbered channels in the 821-824/866-869 MHz band. The computer program is able to take this into account when making assignments.

* **May or may not apply.**

Protection Ratios

There are two interference protection ratios built into the computer program.

One is for the co-channel case, and the other is for the adjacent channel case.

The ratios provide 35db Desired/Undesired signal ratio for co-channel assignments, and 15db Desired/Undesired ratio for the adjacent channel case. The ratios provide an acceptable probability of interference for Public Safety Services.

What the Program Does

1. Input data for the Region

Name

Co-ordinates

Range

Environment

Blocked/Protected Channels

Even/odd channel requirements

2. Select Parameters

Combiner spacing

Maximum spectrum to be used

Number of iterations allowed

Protection Ratios for co-channel and adjacent channels

3. Computer determines an ERP/Ant. Height combination which places the 40 dbu point at the range specified, in the environment specified for each system.
4. Computer calculates distances between all possible combinations of single site and multiple site systems.
5. The computer uses its input tables to determine compatible assignments such that the signal strength at a co-channel assignee's boundary is $< + 5$ dbu, and the signal strength at an adjacent channel assignee's boundary is $< + 25$ dbu.
6. If the maximum spectrum allowed is filled before all systems are assigned channels, then the list is re-ordered according to the difficulty of assignments, and another iteration is made.
7. If the maximum number of iterations is reached before all assignments are satisfied, the maximum spectrum allowed is increased and the process begins again. The maximum spectrum allowed is initially set at a value which will fail to find a solution. By incrementing its value on successive attempts, the first

successful run should be the most spectrum efficient solution this program will ever find, for this case.

APPENDIX

K

APPENDIX

L

GLOSSARY

(Definitions of terms, abbreviations, and acronyms as they are used in this document.)

ADJACENT CHANNELS	Channels which are separated by 12.5 KHz 821-824 band
AGL	Above Ground Level; altitude
APCO	Associated Public-Safety Communications Officers, Incorporated
AVL	Automatic Vehicle Locator; a data transmission device used to determine where a field unit is
CALLING CHANNEL	FCC Channel 601; use of this channel is restricted to establishing contact among individual agencies for mutual aid purposes
CHANNEL	An assigned band of frequencies of sufficient width to permit its use for radio communication
CHANNEL LOADING	The number of mobile transmitters authorized to operate on a particular channel within the same service area
CO-CHANNEL	Utilization of the same channel by two or more licensees
CONVENOR	The individual charged with organizing a Planning Region's initial meeting
THE COMMISSION	The Federal Communications Commission; also, the FCC
THE COMMITTEE	The Indiana 800 MHz Regional Planning Committee
COMMITTEE OF THE WHOLE	All members present at a monthly regional planning meeting
COMMON CHANNELS	The five (5) channels specified in the National Plan which are reserved for mutual inter-agency communication; a Calling Channel and four Tactical Channels

CONVENTIONAL OPERATION	A method of operation in which one or more radio frequency channels are assigned to mobile and base stations but are not employed as a trunked group
CROSS SYSTEM PATCH	A means of linking disparate radio systems
FREQUENCY ADVISORY COMMITTEE CHAIRMAN	An APCO designated (FCC approved) individual charged with managing spectrum usage within a State
INTEROPERABILITY	Communication between, or among, radio units of different agencies
MDT	Mobile Data Terminal; a field communications device used to transmit and receive data impulses over radio frequencies
MOBILE RELAY STATION	A base station in the mobile service authorized to retransmit automatically on a mobile service frequency communications which originate on the transmitting frequency of the mobile station
MUTUAL AID INCIDENT	A situation posing a threat to the public safety which requires the services of agencies from differing jurisdictions or services
NPSPAC	National Public Safety Planning Advisory Committee
THE PLAN	The Public Safety Communications plan for Region 14 the Indiana Planning Region (82 counties)
PRIMARY DISPATCH CENTER	A Public Safety Communications Center designated as a controller of the Common Channels
PRIMARY ZONE	Counties in the Region which have high population density and a large number of public safety entities
RCRC	The Regional Conformance Review Committee; a standing body of individuals charged with administering the Plan within the Region
THE REGION	The Indiana 800 MHz Planning Region, consisting of eighty-two counties. (The other ten Indiana counties are in the Southern Lake Michigan Planning Region.)

REPEAT DISABLE	The means of inhibiting Mobile Relay
SECONDARY ZONE	All counties of the Region not designated as a Primary Zone
TACTICAL CHANNELS	The four Common Channels on which inter-agency communications will be conducted during a mutual aid incident
TRUNKED OPERATION	A method of operation in which a number of radio frequency channel pairs are assigned to mobile and base stations in the system for use as a trunk group
VACATED FREQUENCIES	Those frequencies returned for re-allocation

INDIANA PLANNING REGION

SPECTRUM ALLOCATION

(INITIAL SORT)

CHANNEL NUMBER	FREQUENCIES MOBILE BASE	ASSIGNEE (COUNTY)
601	821.0125/866.0125	MUTUAL AID *
602	821.0375/866.0375	CLARK
602	821.0375/866.0375	GIBSON
602	821.0375/866.0375	MARION
603	821.0500/866.0500	DELAWARE
603	821.0500/866.0500	NOBLE
603	821.0500/866.0500	OHIO
603	821.0500/866.0500	TIPPECANOE
604	821.0625/866.0625	CRAWFORD
604	821.0625/866.0625	SHELBY
605	821.0750/866.0750	CLAY
605	821.0750/866.0750	DEARBORN
605	821.0750/866.0750	DEKALB
605	821.0750/866.0750	POSEY
605	821.0750/866.0750	TIPTON
606	821.0875/866.0875	FLOYD
606	821.0875/866.0875	WAYNE
606	821.0875/866.0875	WHITE
607	821.1000/866.1000	ALLEN
607	821.1000/866.1000	DAVISS
607	821.1000/866.1000	MARION
607	821.1000/866.1000	SWITZERLAND
608	821.1125/866.1125	CASS
608	821.1125/866.1125	FLOYD
608	821.1125/866.1125	RANDOLPH
608	821.1125/866.1125	VIGO
609	821.1250/866.1250	DUBOIS
609	821.1250/866.1250	MARION
610	821.1375/866.1375	FRANKLIN
610	821.1375/866.1375	GRANT
610	821.1375/866.1375	SULLIVAN
611	821.1500/866.1500	HARRISON
611	821.1500/866.1500	HENDRICKS
611	821.1500/866.1500	VANDEBURGH
612	821.1625/866.1625	BENTON
612	821.1625/866.1625	GREENE
612	821.1625/866.1625	HENRY
612	821.1625/866.1625	STEBEN

* Non-County.

INDIANA PLANNING REGION SPECTRUM ALLOCATION
(CONTINUED)

CHANNEL NUMBER	FREQUENCIES MOBILE BASE	ASSIGNEE (COUNTY)
613	821.1750/866.1750	FULTON
613	821.1750/866.1750	JEFFERSON
613	821.1750/866.1750	PARKE
613	821.1750/866.1750	SPENCER
614	821.1875/866.1875	ADAMS
614	821.1875/866.1875	MARION
615	821.2000/866.2000	FAYETTE
615	821.2000/866.2000	KNOX
615	821.2000/866.2000	HOWARD
616	821.2125/866.2125	MARION
616	821.2125/866.2125	WHITLEY
617	821.2250/866.2250	DELAWARE
617	821.2250/866.2250	JACKSON
617	821.2250/866.2250	VANDERBURGH
618	821.2375/866.2375	LAGRANGE
618	821.2375/866.2375	MONTGOMERY
618	821.2375/866.2375	PERRY
618	821.2375/866.2375	UNION
619	821.2500/866.2500	MONROE
619	821.2500/866.2500	WELLS
620	821.2625/866.2625	BOONE
620	821.2625/866.2625	PIKE
621	821.2750/866.2750	BARTHOLOMEW
621	821.2750/866.2750	MIAMI
622	821.2875/866.2875	FOUNTAIN
622	821.2875/866.2875	MARTIN
622	821.2875/866.2875	WAYNE
623	821.3000/866.3000	CLARK
623	821.3000/866.3000	MARION
623	821.3000/866.3000	NOBLE
624	821.3125/866.3125	DELAWARE
624	821.3125/866.3125	WARREN
624	821.3125/866.3125	WASHINGTON
625	821.3250/866.3250	ALLEN
625	821.3250/866.3250	DEARBORN
625	821.3250/866.3250	MORGAN
625	821.3250/866.3250	POSEY
626	821.3375/866.3375	FLOYD
626	821.3375/866.3375	HOWARD
626	821.3375/866.3375	VERMILLION

* Non-County.

INDIANA PLANNING REGION SPECTRUM ALLOCATION
(CONTINUED)

CHANNEL NUMBER	FREQUENCIES MOBILE BASE	ASSIGNEE (COUNTY)
627	821.3500/866.3500	ALLEN
627	821.3500/866.3500	MARION
627	821.3500/866.3500	WARRICK
628	821.3625/866.3625	RESERVE **
629	821.3750/866.3750	INDIANA STATE GOVERNMENT * #
630	821.3875/866.3875	RESERVE **
631	821.4000/866.4000	INDIANA STATE GOVERNMENT * #
632	821.4125/866.4125	RESERVE **
633	821.4250/866.4250	INDIANA STATE GOVERNMENT * #
634	821.4375/866.4375	RESERVE **
635	821.4500/866.4500	INDIANA STATE GOVERNMENT * #
636	821.4625/866.4625	RESERVE **
637	821.4750/866.4750	INDIANA STATE GOVERNMENT * #
638	821.4875/866.4875	RESERVE **
639	821.5125/866.5125	MUTUAL AID *
640	821.5375/866.5375	FLOYD
640	821.5375/866.5375	MARION
641	821.5500/866.5500	KNOX
641	821.5500/866.5500	WAYNE
641	821.5500/866.5500	MIAMI
642	821.5625/866.5625	ALLEN
642	821.5625/866.5625	MARION
643	821.5750/866.5750	CASS
643	821.5750/866.5750	CLARK
643	821.5750/866.5750	VIGO
644	821.5875/866.5875	ALLEN
644	821.5875/866.5875	MARION
644	821.5875/866.5875	SPENCER
645	821.6000/866.6000	DELAWARE
645	821.6000/866.6000	JENNINGS
645	821.6000/866.6000	VIGO
646	821.6125/866.6125	FLOYD
646	821.6125/866.6125	HENDRICKS
646	821.6125/866.6125	VANDEBURGH
647	821.6250/866.6250	BARTHOLOMEW
647	821.6250/866.6250	BLACKFORD
648	821.6375/866.6375	HARRISON
648	821.6375/866.6375	TIPTON
648	821.6375/866.6375	VANDEBURGH
649	821.6500/866.6500	JOHNSON
649	821.6500/866.6500	KOSCIUSKO

* Non-County. ** "RESERVE" channels are blocked out
primarily for adjacent Region use and protection to adjacent
statewide channels. # See note page K-11.

INDIANA PLANNING REGION SPECTRUM ALLOCATION
(CONTINUED)

CHANNEL NUMBER	FREQUENCIES MOBILE BASE	ASSIGNEE (COUNTY)
650	821.6625/866.6625	CLINTON
650	821.6625/866.6625	DEARBORN
650	821.6625/866.6625	WARRICK
651	821.6750/866.6750	FULTON
651	821.6750/866.6750	LAWRENCE
651	821.6750/866.6750	RANDOLPH
652	821.6875/866.6875	DEKALB
652	821.6875/866.6875	MARION
653	821.7000/866.7000	ORANGE
653	821.7000/866.7000	WABASH
654	821.7125/866.7125	LAGRANGE
654	821.7125/866.7125	MORGAN
654	821.7125/866.7125	WHITE
655	821.7250/866.7250	HENRY
655	821.7250/866.7250	WASHINGTON
656	821.7375/866.7375	ALLEN
656	821.7375/866.7375	BOONE
656	821.7375/866.7375	RIPLEY
657	821.7500/866.7500	BROWN
658	821.7625/866.7625	HAMILTON
659	821.7750/866.7750	SCOTT
659	821.7750/866.7750	WELLS
660	821.7875/866.7875	MARION
661	821.8000/866.8000	GRANT
661	821.8000/866.8000	KNOX
662	821.8125/866.8125	MARION
663	821.8250/866.8250	ALLEN
663	821.8250/866.8250	CARROLL
663	821.8250/866.8250	WAYNE
664	821.8375/866.8375	MARION
665	821.8500/866.8500	ADAMS
665	821.8500/866.8500	TIPPECANOE
666	821.8625/866.8625	RESERVE **
667	821.8750/866.8750	INDIANA STATE GOVERNMENT * #
668	821.8875/866.8875	RESERVE **
669	821.9000/866.9000	INDIANA STATE GOVERNMENT * #
670	821.9125/866.9125	RESERVE **
671	821.9250/866.9250	INDIANA STATE GOVERNMENT * #
672	821.9375/866.9375	RESERVE **
673	821.9500/866.9500	INDIANA STATE GOVERNMENT * #
674	821.9625/866.9625	RESERVE **

* Non-County. ** and #, see page K-11.

INDIANA PLANNING REGION SPECTRUM ALLOCATION
(CONTINUED)

CHANNEL NUMBER	FREQUENCIES MOBILE BASE	ASSIGNEE (COUNTY)
675	821.9750/866.9750	INDIANA STATE GOVERNMENT * #
676	821.9875/866.9875	RESERVE **
677	822.0125/867.0125	MUTUAL AID *
678	822.0375/867.0375	BLACKFORD
678	822.0375/867.0375	JOHNSON
678	822.0375/867.0375	VANDEBURGH
679	822.0500/867.0500	CLINTON
680	822.0625/867.0625	FULTON
680	822.0625/867.0625	SHELBY
681	822.0750/867.0750	ALLEN
681	822.0750/867.0750	VIGO
682	822.0875/867.0875	MARION
683	822.1000/867.1000	DELAWARE
684	822.1125/867.1125	ALLEN
684	822.1125/867.1125	MARION
685	822.1250/867.1250	RIPLEY
685	822.1250/867.1250	HOWARD
686	822.1375/867.1375	ALLEN
686	822.1375/867.1375	HENDRICKS
687	822.1500/867.1500	RUSH
688	822.1625/867.1625	BOONE
688	822.1625/867.1625	JAY
689	822.1750/867.1750	KOSCIUSKO
689	822.1750/867.1750	MONROE
690	822.1875/867.1875	HAMILTON
691	822.2000/867.2000	NOBLE
691	822.2000/867.2000	PUTNAM
692	822.2125/867.2125	MADISON
693	822.2250/867.2250	PRIMARY POOL
694	822.2375/867.2375	MARION
695	822.2500/867.2500	WAYNE
695	822.2500/867.2500	MIAMI
696	822.2625/867.2625	JOHNSON
697	822.2750/867.2750	GRANT
698	822.2875/867.2875	JOHNSON
699	822.3000/867.3000	RANDOLPH
699	822.3000/867.3000	TIPPECANOE
700	822.3125/867.3125	SHELBY
701	822.3250/867.3250	OWEN
701	822.3250/867.3250	HOWARD
702	822.3375/867.3375	ALLEN
702	822.3375/867.3375	BARTHOLOMEW

* Non-County. ** and #, see page K-11.

INDIANA PLANNING REGION SPECTRUM ALLOCATION
(CONTINUED)

CHANNEL NUMBER	FREQUENCIES MOBILE BASE	ASSIGNEE (COUNTY)
703	822.3500/867.3500	HAMILTON
704	822.3625/867.3625	RESERVE **
705	822.3750/867.3750	INDIANA STATE GOVERNMENT * #
706	822.3875/867.3875	RESERVE **
707	822.4000/867.4000	INDIANA STATE GOVERNMENT * #
708	822.4125/867.4125	RESERVE **
709	822.4250/867.4250	INDIANA STATE GOVERNMENT * #
710	822.4375/867.4375	RESERVE **
711	822.4500/867.4500	INDIANA STATE GOVERNMENT * #
712	822.4625/867.4625	RESERVE **
713	822.4750/867.4750	INDIANA STATE GOVERNMENT * #
714	822.4875/867.4875	RESERVE **
715	822.5125/867.5125	MUTUAL AID *
716	822.5375/867.5375	HENDRICKS
716	822.5375/867.5375	NOBLE
717	822.5500/867.5500	MADISON
718	822.5625/867.5625	JOHNSON
719	822.5750/867.5750	GRANT
720	822.5875/867.5875	HANCOCK
721	822.6000/867.6000	BROWN
721	822.6000/867.6000	HOWARD
722	822.6125/867.6125	HENRY
723	822.6250/867.6250	BOONE
724	822.6375/867.6375	DELAWARE
725	822.6500/867.6500	JOHNSON
725	822.6500/867.6500	KOSCIUSKO
726	822.6625/867.6625	TIPTON
727	822.6750/867.6750	BLACKFORD
727	822.6750/867.6750	MONROE
728	822.6875/867.6875	CASS
729	822.7000/867.7000	MARION
730	822.7125/867.7125	ALLEN
730	822.7125/867.7125	RIPLEY
730	822.7125/867.7125	TIPPECANOE
731	822.7250/867.7250	MARION
732	822.7375/867.7375	GRANT
733	822.7500/867.7500	MONTGOMERY
733	822.7500/867.7500	RUSH
734	822.7625/867.7625	ALLEN
734	822.7625/867.7625	SCOTT
735	822.7750/867.7750	HAMILTON

* Non-County. ** and #, see page K-11.

INDIANA PLANNING REGION SPECTRUM ALLOCATION
(CONTINUED)

CHANNEL NUMBER	FREQUENCIES MOBILE BASE	ASSIGNEE (COUNTY)
736	822.7875/867.7875	DECATUR
736	822.7875/867.7875	WABASH
736	822.7875/867.7875	WASHINGTON
737	822.8000/867.8000	HAMILTON
737	822.8000/867.8000	VIGO
738	822.8125/867.8125	HUNTINGTON
738	822.8125/867.8125	LAWRENCE
739	822.8250/867.8250	MARION
740	822.8375/867.8375	ALLEN
740	822.8375/867.8375	ORANGE
741	822.8500/867.8500	BARTHOLOMEW
741	822.8500/867.8500	VIGO
741	822.8500/867.8500	HOWARD
742	822.8625/867.8625	RESERVE **
743	822.8750/867.8750	INDIANA STATE GOVERNMENT * #
744	822.8875/867.8875	RESERVE **
745	822.9000/867.9000	INDIANA STATE GOVERNMENT * #
746	822.9125/867.9125	RESERVE **
747	822.9250/867.9250	INDIANA STATE GOVERNMENT * #
748	822.9375/867.9375	RESERVE **
749	822.9500/867.9500	INDIANA STATE GOVERNMENT * #
750	822.9625/867.9625	RESERVE **
751	822.9750/867.9750	INDIANA STATE GOVERNMENT * #
752	822.9875/867.9875	RESERVE **
753	823.0125/868.0125	MUTUAL AID *
754	823.0375/868.0375	ALLEN
754	823.0375/868.0375	JACKSON
754	823.0375/868.0375	MONTGOMERY
755	823.0500/868.0500	HANCOCK
756	823.0625/868.0625	JAY
756	823.0625/868.0625	PUTNAM
757	823.0750/868.0750	HAMILTON
758	823.0875/868.0875	HUNTINGTON
758	823.0875/868.0875	VIGO
759	823.1000/868.1000	MARION
760	823.1125/868.1125	STEUBEN
760	823.1125/868.1125	TIPPECANOE
760	823.1125/868.1125	WAYNE
761	823.1250/868.1250	GRANT
761	823.1250/868.1250	VIGO
762	823.1375/868.1375	MARION
762	823.1375/868.1375	SCOTT

* Non-County. ** and #/, see page K-11.

INDIANA PLANNING REGION SPECTRUM ALLOCATION
(CONTINUED)

CHANNEL NUMBER	FREQUENCIES MOBILE BASE	ASSIGNEE (COUNTY)
763	823.1500/868.1500	ALLEN
763	823.1500/868.1500	TIPPECANOE
764	823.1625/868.1625	LAWRENCE
764	823.1625/868.1625	MADISON
765	823.1750/868.1750	HENDRICKS
766	823.1875/868.1875	DECATUR
766	823.1875/868.1875	GRANT
767	823.2000/868.2000	MORGAN
768	823.2125/868.2125	RIPLEY
768	823.2125/868.2125	WASHINGTON
768	823.2125/868.2125	HOWARD
769	823.2250/868.2250	LAGRANGE
769	823.2250/868.2250	MARION
770	823.2375/868.2375	ORANGE
770	823.2375/868.2375	PARKE
770	823.2375/868.2375	WABASH
770	823.2375/868.2375	WAYNE
771	823.2500/868.2500	BARTHOLOMEW
771	823.2500/868.2500	CLINTON
771	823.2500/868.2500	DEKALB
772	823.2625/868.2625	DELAWARE
772	823.2625/868.2625	KNOX
773	823.2750/868.2750	ALLEN
773	823.2750/868.2750	MARION
774	823.2875/868.2875	JACKSON
774	823.2875/868.2875	HOWARD
775	823.3000/868.3000	ALLEN
775	823.3000/868.3000	HANCOCK
775	823.3000/868.3000	WARRICK
776	823.3125/868.3125	MONROE
777	823.3250/868.3250	HAMILTON
777	823.3250/868.3250	PIKE
777	823.3250/868.3250	WHITLEY
778	823.3375/868.3375	BLACKFORD
778	823.3375/868.3375	CLAY
778	823.3375/868.3375	JENNINGS
779	823.3500/868.3500	DUBOIS
779	823.3500/868.3500	MARION
780	823.3625/868.3625	RESERVE **
781	823.3750/868.3750	INDIANA STATE GOVERNMENT * #
782	823.3875/868.3875	RESERVE **
783	823.4000/868.4000	INDIANA STATE GOVERNMENT * #

* Non-County. ** and #, see page K-11.

INDIANA PLANNING REGION SPECTRUM ALLOCATION
(CONTINUED)

CHANNEL NUMBER	FREQUENCIES MOBILE BASE	ASSIGNEE (COUNTY)
784	823.4125/868.4125	RESERVE **
785	823.4250/868.4250	INDIANA STATE GOVERNMENT * #
786	823.4375/868.4375	RESERVE **
787	823.4500/868.4500	INDIANA STATE GOVERNMENT * #
788	823.4625/868.4625	RESERVE **
789	823.4750/868.4750	INDIANA STATE GOVERNMENT * #
790	823.4875/868.4875	RESERVE **
791	823.5000/868.5000	PRIMARY POOL
792	823.5125/868.5125	HUNTINGTON
792	823.5125/868.5125	JEFFERSON
792	823.5125/868.5125	MONTGOMERY
792	823.5125/868.5125	VANDERBURGH
793	823.5250/868.5250	HENRY
793	823.5250/868.5250	MARTIN
793	823.5250/868.5250	STEUBEN
794	823.5375/868.5375	BARTHOLOMEW
794	823.5375/868.5375	PARKE
794	823.5375/868.5375	WABASH
795	823.5500/868.5500	FLOYD
795	823.5500/868.5500	HAMILTON
795	823.5500/868.5500	LAGRANGE
795	823.5500/868.5500	VANDERBURGH
796	823.5625/868.5625	OWEN
796	823.5625/868.5625	WELLS
797	823.5750/868.5750	FLOYD
797	823.5750/868.5750	HANCOCK
798	823.5875/868.5875	ALLEN
798	823.5875/868.5875	DEARBORN
798	823.5875/868.5875	MONROE
798	823.5875/868.5875	TIPPECANOE
799	823.6000/868.6000	CLARK
799	823.6000/868.6000	GIBSON
799	823.6000/868.6000	MADISON
800	823.6125/868.6125	CARROLL
800	823.6125/868.6125	UNION
800	823.6125/868.6125	VIGO
801	823.6250/868.6250	JOHNSON
801	823.6250/868.6250	NOBLE
801	823.6250/868.6250	SPENCER
802	823.6375/868.6375	GRANT

* Non-County. ** and #, see page K-11.

INDIANA PLANNING REGION SPECTRUM ALLOCATION
(CONTINUED)

CHANNEL NUMBER	FREQUENCIES MOBILE BASE	ASSIGNEE (COUNTY)
803	823.6500/868.6500	DECATUR
803	823.6500/868.6500	DEKALB
803	823.6500/868.6500	KNOX
803	823.6500/868.6500	WHITE
804	823.6625/868.6625	HAMILTON
805	823.6750/868.6750	GREENE
805	823.6750/868.6750	KOSCIUSKO
805	823.6750/868.6750	RANDOLPH
805	823.6750/868.6750	SWITZERLAND
805	823.6750/868.6750	WARREN
806	823.6875/868.6875	MARION
806	823.6875/868.6875	PERRY
807	823.7000/868.7000	FOUNTAIN
807	823.7000/868.7000	FRANKLIN
807	823.7000/868.7000	GRANT
808	823.7125/868.7125	DUBOIS
808	823.7125/868.7125	JOHNSON
809	823.7250/868.7250	CLAY
809	823.7250/868.7250	FAYETTE
809	823.7250/868.7250	MIAMI
810	823.7375/868.7375	ADAMS
810	823.7375/868.7375	BOONE
810	823.7375/868.7375	HARRISON
810	823.7375/868.7375	OHIO
811	823.7500/868.7500	DAVISS
811	823.7500/868.7500	RUSH
812	823.7625/868.7625	ALLEN
812	823.7625/868.7625	JEFFERSON
812	823.7625/868.7625	MONTGOMERY
812	823.7625/868.7625	VANDEBURGH
813	823.7750/868.7750	CRAWFORD
813	823.7750/868.7750	DELAWARE
814	823.7875/868.7875	BARTHOLOMEW
814	823.7875/868.7875	BENTON
814	823.7875/868.7875	SULLIVAN
814	823.7875/868.7875	WHITLEY
815	823.8000/868.8000	FLOYD
815	823.8000/868.8000	HAMILTON
815	823.8000/868.8000	VANDEBURGH
816	823.8125/868.8125	FULTON
816	823.8125/868.8125	RIPLEY
816	823.8125/868.8125	WASHINGTON
816	823.8125/868.8125	VERMILLION

* Non-County.

INDIANA PLANNING REGION SPECTRUM ALLOCATION
(CONTINUED)

CHANNEL NUMBER	FREQUENCIES MOBILE BASE	ASSIGNEE (COUNTY)
817	823.8250/868.8250	FLOYD
817	823.8250/868.8250	HANCOCK
817	823.8250/868.8250	POSEY
818	823.8375/868.8375	ALLEN
818	823.8375/868.8375	DEARBORN
818	823.8375/868.8375	MONROE
818	823.8375/868.8375	TIPPECANOE
819	823.8500/868.8500	CLARK
819	823.8500/868.8500	GIBSON
819	823.8500/868.8500	MADISON
820	823.8625/868.8625	RESERVE **
821	823.8750/868.8750	INDIANA STATE GOVERNMENT * #
822	823.8875/868.8875	RESERVE **
823	823.9000/868.9000	INDIANA STATE GOVERNMENT * #
824	823.9125/868.9125	RESERVE **
825	823.9250/868.9250	INDIANA STATE GOVERNMENT * #
826	823.9375/868.9375	RESERVE **
827	823.9500/868.9500	INDIANA STATE GOVERNMENT * #
828	823.9625/868.9625	RESERVE **
829	823.9750/868.9750	INDIANA STATE GOVERNMENT * #
830	823.9875/868.9875	RESERVE **

NOTE: * Non-County frequency allocations.

** "RESERVE" channels are blocked out primarily for adjacent Region use and protection to adjacent statewide channels.

"INDIANA STATE GOVERNMENT" channels are reserved primarily for the Indiana State Government multi-agency statewide trunking systems for statewide use.

"PRIMARY POOL" channels are unassigned channels.

INDIANA REGION SPECTRUM ALLOCATION

Appendix K

Fcc Channel	Mobile MHz	Base MHz	R14 (County) Assignee
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1	806.0125	851.0125	MUTUAL AID *
2	806.0375	851.0375	CLARK
2	806.0375	851.0375	GIBSON
2	806.0375	851.0375	MARION
3	806.0500	851.0500	DELAWARE
3	806.0500	851.0500	NOBLE
3	806.0500	851.0500	OHIO
3	806.0500	851.0500	TIPPECANOE
4	806.0625	851.0625	CRAWFORD
4	806.0625	851.0625	SHELBY
5	806.0750	851.0750	CLAY
5	806.0750	851.0750	DEARBORN
5	806.0750	851.0750	DEKALB
5	806.0750	851.0750	POSEY
5	806.0750	851.0750	TIPTON
6	806.0875	851.0875	FLOYD
6	806.0875	851.0875	WAYNE
6	806.0875	851.0875	WHITE
7	806.1000	851.1000	ALLEN
7	806.1000	851.1000	DAVISS
7	806.1000	851.1000	MARION
7	806.1000	851.1000	SWITZERLAND
8	806.1125	851.1125	CASS
8	806.1125	851.1125	FLOYD
8	806.1125	851.1125	RANDOLPH
8	806.1125	851.1125	VIGO
9	806.1250	851.1250	DUBOIS
9	806.1250	851.1250	MARION
10	806.1375	851.1375	FRANKLIN
10	806.1375	851.1375	GRANT
10	806.1375	851.1375	SULLIVAN
11	806.1500	851.1500	HARRISON
11	806.1500	851.1500	HENDRICKS
11	806.1500	851.1500	VANDEBURGH
12	806.1625	851.1625	BENTON
12	806.1625	851.1625	GREENE
12	806.1625	851.1625	HENRY
12	806.1625	851.1625	STUBEN
13	806.1750	851.1750	FULTON
13	806.1750	851.1750	JEFFERSON
13	806.1750	851.1750	PARKE
13	806.1750	851.1750	SPENCER
14	806.1875	851.1875	ADAMS
14	806.1875	851.1875	MARION
15	806.2000	851.2000	FAYETTE
15	806.2000	851.2000	KNOX

INDIANA REGION SPECTRUM ALLOCATION

Appendix K

Fcc Chan	Mobile MHz	Base MHz	R14 (County) Assignee
15	806.2000	851.2000	HOWARD
16	806.2125	851.2125	MARION
16	806.2125	851.2125	WHITLEY
17	806.2250	851.2250	DELAWARE
17	806.2250	851.2250	JACKSON
17	806.2250	851.2250	VANDEBURGH
18	806.2375	851.2375	LAGRANGE
18	806.2375	851.2375	MONTGOMERY
18	806.2375	851.2375	PERRY
18	806.2375	851.2375	UNION
19	806.2500	851.2500	MONROE
19	806.2500	851.2500	WELLS
20	806.2625	851.2625	BOONE
20	806.2625	851.2625	PIKE
21	806.2750	851.2750	BARTHOLOMEW
21	806.2750	851.2750	MIAMI
22	806.2875	851.2875	FOUNTAIN
22	806.2875	851.2875	MARTIN
22	806.2875	851.2875	WAYNE
23	806.3000	851.3000	CLARK
23	806.3000	851.3000	MARION
23	806.3000	851.3000	NOBLE
24	806.3125	851.3125	DELAWARE
24	806.3125	851.3125	WARREN
24	806.3125	851.3125	WASHINGTON
25	806.3250	851.3250	ALLEN
25	806.3250	851.3250	DEARBORN
25	806.3250	851.3250	MORGAN
25	806.3250	851.3250	POSEY
26	806.3375	851.3375	FLOYD
26	806.3375	851.3375	HOWARD
26	806.3375	851.3375	VERMILLION
27	806.3500	851.3500	ALLEN
27	806.3500	851.3500	MARION
27	806.3500	851.3500	WARRICK
28	806.3625	851.3625	RESERVE **
29	806.3750	851.3750	IN STATE GOVT. * #
30	806.3875	851.3875	RESERVE **
31	806.4000	851.4000	IN STATE GOVT. * #
32	806.4125	851.4125	RESERVE **
33	806.4250	851.4250	IN STATE GOVT. * #
34	806.4375	851.4375	RESERVE **
35	806.4500	851.4500	IN STATE GOVT. * #
36	806.4625	851.4625	RESERVE **
37	806.4750	851.4750	IN STATE GOVT. * #
38	806.4875	851.4875	RESERVE **
39	806.5125	851.5125	MUTUAL AID *
40	806.5375	851.5375	FLOYD

INDIANA REGION SPECTRUM ALLOCATION

Appendix K

Fcc Chan	Mobile MHz	Base MHz	R14 (County) Assignee
40	806.5375	851.5375	MARION
41	806.5500	851.5500	KNOX
41	806.5500	851.5500	WAYNE
41	806.5500	851.5500	MIAMI
42	806.5625	851.5625	ALLEN
42	806.5625	851.5625	MARION
43	806.5750	851.5750	CASS
43	806.5750	851.5750	CLARK
43	806.5750	851.5750	VIGO
44	806.5875	851.5875	ALLEN
44	806.5875	851.5875	MARION
44	806.5875	851.5875	SPENCER
45	806.6000	851.6000	DELAWARE
45	806.6000	851.6000	JENNINGS
45	806.6000	851.6000	VIGO
46	806.6125	851.6125	FLOYD
46	806.6125	851.6125	HENDRICKS
46	806.6125	851.6125	VANDERBURGH
47	806.6250	851.6250	BARTHOLOMEW
47	806.6250	851.6250	BLACKFORD
48	806.6375	851.6375	HARRISON
48	806.6375	851.6375	TIPTON
48	806.6375	851.6375	VANDERBURGH
49	806.6500	851.6500	JOHNSON
49	806.6500	851.6500	KOSCIUSKO
50	806.6625	851.6625	CLINTON
50	806.6625	851.6625	DEARBORN
50	806.6625	851.6625	WARRICK
51	806.6750	851.6750	FULTON
51	806.6750	851.6750	LAWRENCE
51	806.6750	851.6750	RANDOLPH
52	806.6875	851.6875	DEKALB
52	806.6875	851.6875	MARION
53	806.7000	851.7000	ORANGE
53	806.7000	851.7000	WABASH
54	806.7125	851.7125	LAGRANGE
54	806.7125	851.7125	MORGAN
54	806.7125	851.7125	WHITE
55	806.7250	851.7250	HENRY
55	806.7250	851.7250	WASHINGTON
56	806.7375	851.7375	ALLEN
56	806.7375	851.7375	BOONE
56	806.7375	851.7375	RIPLEY
57	806.7500	851.7500	BROWN
58	806.7625	851.7625	HAMILTON
59	806.7750	851.7750	SCOTT
59	806.7750	851.7750	WELLS
60	806.7875	851.7875	MARION

INDIANA REGION SPECTRUM ALLOCATION

Appendix K

Fcc Chan	Mobile MHz	Base MHz	R14 (County) Assignee
61	806.8000	851.8000	GRANT
61	806.8000	851.8000	KNOX
62	806.8125	851.8125	MARION
63	806.8250	851.8250	ALLEN
63	806.8250	851.8250	CARROLL
63	806.8250	851.8250	WAYNE
64	806.8375	851.8375	MARION
65	806.8500	851.8500	ADAMS
65	806.8500	851.8500	TIPPECANOE
66	806.8625	851.8625	RESERVE **
67	806.8750	851.8750	IN STATE GOVT. * #
68	806.8875	851.8875	RESERVE **
69	806.9000	851.9000	IN STATE GOVT. * #
70	806.9125	851.9125	RESERVE **
71	806.9250	851.9250	IN STATE GOVT. * #
72	806.9375	851.9375	RESERVE **
73	806.9500	851.9500	IN STATE GOVT. * #
74	806.9625	851.9625	RESERVE **
75	806.9750	851.9750	IN STATE GOVT. * #
76	806.9875	851.9875	RESERVE **
77	807.0125	852.0125	MUTUAL AID *
78	807.0375	852.0375	BLACKFORD
78	807.0375	852.0375	JOHNSON
78	807.0375	852.0375	VANDERBURGH
79	807.0500	852.0500	CLINTON
80	807.0625	852.0625	FULTON
80	807.0625	852.0625	SHELBY
81	807.0750	852.0750	ALLEN
81	807.0750	852.0750	VIGO
82	807.0875	852.0875	MARION
83	807.1000	852.1000	DELAWARE
84	807.1125	852.1125	ALLEN
84	807.1125	852.1125	MARION
85	807.1250	852.1250	RIPLEY
85	807.1250	852.1250	HOWARD
86	807.1375	852.1375	ALLEN
86	807.1375	852.1375	HENDRICKS
87	807.1500	852.1500	RUSH
88	807.1625	852.1625	BOONE
88	807.1625	852.1625	JAY
89	807.1750	852.1750	KOSCIUSKO
89	807.1750	852.1750	MONROE
90	807.1875	852.1875	HAMILTON
91	807.2000	852.2000	NOBLE
91	807.2000	852.2000	PUTNAM
92	807.2125	852.2125	MADISON
93	807.2250	852.2250	PRIMARY POOL
94	807.2375	852.2375	MARION

INDIANA REGION SPECTRUM ALLOCATION

Appendix K

Fcc Chan	Mobile MHz	Base MHz	R14 (County) Assignee
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95	807.2500	852.2500	WAYNE
95	807.2500	852.2500	MIAMI
96	807.2625	852.2625	JOHNSON
97	807.2750	852.2750	GRANT
98	807.2875	852.2875	JOHNSON
99	807.3000	852.3000	RANDOLPH
99	807.3000	852.3000	TIPPECANOE
100	807.3125	852.3125	SHELBY
101	807.3250	852.3250	OWEN
101	807.3250	852.3250	HOWARD
102	807.3375	852.3375	ALLEN
102	807.3375	852.3375	BARTHOLOMEW
103	807.3500	852.3500	HAMILTON
104	807.3625	852.3625	RESERVE **
105	807.3750	852.3750	IN STATE GOVT. * #
106	807.3875	852.3875	RESERVE **
107	807.4000	852.4000	IN STATE GOVT. * #
108	807.4125	852.4125	RESERVE **
109	807.4250	852.4250	IN STATE GOVT. * #
110	807.4375	852.4375	RESERVE **
111	807.4500	852.4500	IN STATE GOVT. * #
112	807.4625	852.4625	RESERVE **
113	807.4750	852.4750	IN STATE GOVT. * #
114	807.4875	852.4875	RESERVE **
115	807.5125	852.5125	MUTUAL AID *
116	807.5375	852.5375	HENDRICKS
116	807.5375	852.5375	NOBLE
117	807.5500	852.5500	MADISON
118	807.5625	852.5625	JOHNSON
119	807.5750	852.5750	GRANT
120	807.5875	852.5875	HANCOCK
121	807.6000	852.6000	BROWN
121	807.6000	852.6000	HOWARD
122	807.6125	852.6125	HENRY
123	807.6250	852.6250	BOONE
124	807.6375	852.6375	DELAWARE
125	807.6500	852.6500	JOHNSON
125	807.6500	852.6500	KOSCIUSKO
126	807.6625	852.6625	TIPTON
127	807.6750	852.6750	BLACKFORD
127	807.6750	852.6750	MONROE
128	807.6875	852.6875	CASS
129	807.7000	852.7000	MARION
130	807.7125	852.7125	ALLEN
130	807.7125	852.7125	RIPLEY
130	807.7125	852.7125	TIPPECANOE
131	807.7250	852.7250	MARION
132	807.7375	852.7375	GRANT

INDIANA REGION SPECTRUM ALLOCATION

Appendix K

Fcc Chan	Mobile MHz	Base MHz	R14 (County) Assignee
133	807.7500	852.7500	MONTGOMERY
133	807.7500	852.7500	RUSH
134	807.7625	852.7625	ALLEN
134	807.7625	852.7625	SCOTT
135	807.7750	852.7750	HAMILTON
136	807.7875	852.7875	DECATUR
136	807.7875	852.7875	WABASH
136	807.7875	852.7875	WASHINGTON
137	807.8000	852.8000	HAMILTON
137	807.8000	852.8000	VIGO
138	807.8125	852.8125	HUNTINGTON
138	807.8125	852.8125	LAWRENCE
139	807.8250	852.8250	MARION
140	807.8375	852.8375	ALLEN
140	807.8375	852.8375	ORANGE
141	807.8500	852.8500	BARTHOLOMEW
141	807.8500	852.8500	VIGO
141	807.8500	852.8500	HOWARD
142	807.8625	852.8625	RESERVE **
143	807.8750	852.8750	IN STATE GOVT. * #
144	807.8875	852.8875	RESERVE **
145	807.9000	852.9000	IN STATE GOVT. * #
146	807.9125	852.9125	RESERVE **
147	807.9250	852.9250	IN STATE GOVT. * #
148	807.9375	852.9375	RESERVE **
149	807.9500	852.9500	IN STATE GOVT. * #
150	807.9625	852.9625	RESERVE **
151	807.9750	852.9750	IN STATE GOVT. * #
152	807.9875	852.9875	RESERVE **
153	808.0125	853.0125	MUTUAL AID *
154	808.0375	853.0375	ALLEN
154	808.0375	853.0375	JACKSON
154	808.0375	853.0375	MONTGOMERY
155	808.0500	853.0500	HANCOCK
156	808.0625	853.0625	JAY
156	808.0625	853.0625	PUTNAM
157	808.0750	853.0750	HAMILTON
158	808.0875	853.0875	HUNTINGTON
158	808.0875	853.0875	VIGO
159	808.1000	853.1000	MARION
160	808.1125	853.1125	STEUBEN
160	808.1125	853.1125	TIPPECANOE
160	808.1125	853.1125	WAYNE
161	808.1250	853.1250	GRANT
161	808.1250	853.1250	VIGO
162	808.1375	853.1375	MARION
162	808.1375	853.1375	SCOTT
163	808.1500	853.1500	ALLEN

INDIANA REGION SPECTRUM ALLOCATION

Appendix K

Fcc Chan	Mobile MHz	Base MHz	R14 (County) Assignee
163	808.1500	853.1500	TIPPECANOE
164	808.1625	853.1625	LAWRENCE
164	808.1625	853.1625	MADISON
165	808.1750	853.1750	HENDRICKS
166	808.1875	853.1875	DECATUR
166	808.1875	853.1875	GRANT
167	808.2000	853.2000	MORGAN
168	808.2125	853.2125	RIPLEY
168	808.2125	853.2125	WASHINGTON
168	808.2125	853.2125	HOWARD
169	808.2250	853.2250	LAGRANGE
169	808.2250	853.2250	MARION
170	808.2375	853.2375	ORANGE
170	808.2375	853.2375	PARKE
170	808.2375	853.2375	WABASH
170	808.2375	853.2375	WAYNE
171	808.2500	853.2500	BARTHOLOMEW
171	808.2500	853.2500	CLINTON
171	808.2500	853.2500	DEKALB
172	808.2626	853.2626	DELAWARE
172	808.2625	853.2625	KNOX
173	808.2750	853.2750	ALLEN
173	808.2750	853.2750	MARION
174	808.2875	853.2875	JACKSON
174	808.2875	853.2875	HOWARD
175	808.3000	853.3000	ALLEN
175	808.3000	853.3000	HANCOCK
175	808.3000	853.3000	WARRICK
176	808.3125	853.3125	MONROE
177	808.3250	853.3250	HAMILTON
177	808.3250	853.3250	PIKE
177	808.3250	853.3250	WHITLEY
178	808.3375	853.3375	BLACKFORD
178	808.3375	853.3375	CLAY
178	808.3376	853.3376	JENNINGS
179	808.3500	853.3500	DUBOIS
179	808.3500	853.3500	MARION
180	808.3625	853.3625	RESERVE **
181	808.3750	853.3750	IN STATE GOVT. * #
182	808.3875	853.3875	RESERVE **
183	808.4000	853.4000	IN STATE GOVT. * #
184	808.4125	853.4125	RESERVE **
185	808.4250	853.4250	IN STATE GOVT. * #
186	808.4375	853.4375	RESERVE **
187	808.4500	853.4500	IN STATE GOVT. * #
188	808.4625	853.4625	RESERVE **
189	808.4750	853.4750	IN STATE GOVT. * #
190	808.4875	853.4875	RESERVE **

INDIANA REGION SPECTRUM ALLOCATION

Appendix K

Fcc Chan	Mobile MHz	Base MHz	R14 (County) Assignee
191	808.5000	853.5000	PRIMARY POOL
192	808.5125	853.5125	HUNTINGTON
192	808.5125	853.5125	JEFFERSON
192	808.5125	853.5125	MONTGOMERY
192	808.5125	853.5125	VANDERBURGH
193	808.5250	853.5250	HENRY
193	808.5250	853.5250	MARTIN
193	808.5250	853.5250	STEUBEN
194	808.5375	853.5375	BARTHOLOMEW
194	808.5375	853.5375	PARKE
194	808.5375	853.5375	WABASH
195	808.5500	853.5500	FLOYD
195	808.5500	853.5500	HAMILTON
195	808.5500	853.5500	LAGRANGE
195	808.5500	853.5500	VANDERBURGH
196	808.5625	853.5625	OWEN
196	808.5625	853.5625	WELLS
197	808.5750	853.5750	FLOYD
197	808.5750	853.5750	HANCOCK
198	808.5875	853.5875	ALLEN
198	808.5875	853.5875	DEARBORN
198	808.5875	853.5875	MONROE
198	808.5875	853.5875	TIPPECANOE
199	808.6000	853.6000	CLARK
199	808.6000	853.6000	GIBSON
199	808.6000	853.6000	MADISON
200	808.6125	853.6125	CARROLL
200	808.6126	853.6126	UNION
200	808.6125	853.6125	VIGO
201	808.6250	853.6250	JOHNSON
201	808.6250	853.6250	NOBLE
201	808.6250	853.6250	SPENCER
202	808.6375	853.6375	GRANT
203	808.6500	853.6500	DECATUR
203	808.6500	853.6500	DEKALB
203	808.6500	853.6500	KNOX
203	808.6500	853.6500	WHITE
204	808.6625	853.6625	HAMILTON
205	808.6750	853.6750	GREENE
205	808.6750	853.6750	KOSCIUSKO
205	808.6750	853.6750	RANDOLPH
205	808.6750	853.6750	SWITZERLAND
205	808.6750	853.6750	WARREN
206	808.6875	853.6875	MARION
206	808.6875	853.6875	PERRY
207	808.7000	853.7000	FOUNTAIN
207	808.7000	853.7000	FRANKLIN
207	808.7000	853.7000	GRANT

INDIANA REGION SPECTRUM ALLOCATION

Appendix K

Fcc Chan	Mobile MHz	Base MHz	R14 (County) Assignee
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208	808.7125	853.7125	DUBOIS
208	808.7125	853.7125	JOHNSON
209	808.7250	853.7250	CLAY
209	808.7250	853.7250	FAYETTE
209	808.7250	853.7250	MIAMI
210	808.7375	853.7375	ADAMS
210	808.7375	853.7375	BOONE
210	808.7375	853.7375	HARRISON
210	808.7375	853.7375	OHIO
211	808.7500	853.7500	DAVISS
211	808.7500	853.7500	RUSH
212	808.7625	853.7625	ALLEN
212	808.7625	853.7625	JEFFERSON
212	808.7625	853.7625	MONTGOMERY
212	808.7625	853.7625	VANDERBURGH
213	808.7750	853.7750	CRAWFORD
213	808.7750	853.7750	DELAWARE
214	808.7875	853.7875	BARTHOLOMEW
214	808.7875	853.7875	BENTON
214	808.7875	853.7875	SULLIVAN
214	808.7875	853.7875	WHITLEY
215	808.8000	853.8000	FLOYD
215	808.8000	853.8000	HAMILTON
215	808.8000	853.8000	VANDERBURGH
216	808.8125	853.8125	FULTON
216	808.8125	853.8125	RIPLEY
216	808.8125	853.8125	WASHINGTON
216	808.8125	853.8125	VERMILLION
217	808.8250	853.8250	FLOYD
217	808.8250	853.8250	HANCOCK
217	808.8250	853.8250	POSEY
218	808.8376	853.8376	ALLEN
218	808.8375	853.8375	DEARBORN
218	808.8375	853.8375	MONROE
218	808.8375	853.8375	TIPPECANOE
219	808.8500	853.8500	CLARK
219	808.8500	853.8500	GIBSON
219	808.8500	853.8500	MADISON
220	808.8625	853.8625	RESERVE **
221	808.8750	853.8750	IN STATE GOVT. * #
222	808.8875	853.8875	RESERVE **
223	808.9000	853.9000	IN STATE GOVT. * #
224	808.9125	853.9125	RESERVE **
225	808.9250	853.9250	IN STATE GOVT. * #
226	808.9375	853.9375	RESERVE **
227	808.9500	853.9500	IN STATE GOVT. * #
228	808.9625	853.9625	RESERVE **
229	808.9750	853.9750	IN STATE GOVT. * #

INDIANA REGION SPECTRUM ALLOCATION

Appendix K

Fcc Chan	Mobile MHz	Base MHz	R14 (County) Assignee
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230

808.9875

853.9875

RESERVE **

NOTE:

* International Mutual Aid Channels & Non-County frequency allocations.

* # Indiana State Government multi-agency statewide trunking systems for statewide use.

** “RESERVE” channels are blocked out primarily for adjacent Region use and protection to Adjacent State Government

Primary Pool channels are unassigned channels that can only be used in limited areas.