PUBLIC SAFETY

800 MHz

COMMUNICATION PLAN

FOR

REGION #41

ENCOMPASSING THE

STATE OF UTAH

AND

IT'S POLITICAL SUBDIVISIONS

STATE OF UTAH
DEPARTMENT OF PUBLIC SAFETY
TELECOMMUNICATIONS DIVISION

Norman H. Bangerter, Governor
D. Douglas Bodrero, Commissioner
Brant L. Johnson, Deputy Commissioner

Steven H. Proctor, Director
4501 South 2700 West
Salt Lake City, Utah 84119-5998
801 965-4085

June 24, 1991

FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

Dear Commissioners,

Enclosed is the Region 41 800 MHz Plan. We have appreciated the opportunity to work with you and the adjacent regions to accomplish what we feel will be a great opportunity for the users of this spectrum in Public Safety/Emergency Services.

We are confident that this plan addresses all of the criterion that was set forth by your agency. We have been working on the plan now for the last three years and have enjoyed the process and the help received by all involved, and particularly by the staff of the Federal Communications Commission.

Rather than be redundant in this letter, we refer you to the plan itself and, in particular, to the Executive Summary.

Thanks again for the opportunity to be part of the solution to a vexing problem.

Respectfully,

Steven H. Proctor
Chairman, 800 MHz Planning Committee

/sac

TABLE OF CONTENTS

EXHIBITS

DEPARTMENT OF PUBLIC SAFETY
TELECOMMUNICATIONS DIVISION

Norman H. Bangerter, Governor
D. Douglas Bodrero, Commissioner
Brant L. Johnson, Deputy Commissioner

Steven H. Proctor, Director
4501 South 2700 West
Salt Lake City, Utah 84119-5998
801-965-4086

STEVEN H. PROCTOR

CHAIRMAN - 800 MHz PLANNING COMMITTEE

REGION 41

4501 SOUTH 2700 WEST
SALT LAKE CITY, UTAH 84119
TELEPHONE: 801-965-4086
FAX: 801-965-4866

STEVEN H. PROCTOR WAS ELECTED CHAIRMAN OF THE 800 MHz PLANNING COMMITTEE FOR REGION 41 AT THE CONVENER MEETING.

MR. PROCTOR IS THE DIRECTOR OF THE TELECOMMUNICATIONS DIVISION OF THE UTAH DEPARTMENT OF PUBLIC SAFETY.

I, Steven H. Proctor, Chairman of the 800 MHz Planning Committee, submit this plan to the Federal Communication Commission on June 24, 1991. This plan represents many hours of careful planning and is recommended for your review and acceptance.

Steven H. Proctor, Chairman

ACKNOWLEDGEMENTS

We, in Region 41, acknowledge the Federal Communications Commission for the opportunity to participate in the planning effort for a National Public Safety/Emergency Services Telecommunications Plan.

Utah APCO Chapter has provided mailing and other support during the development of the plan.

The process of developing this plan for Region 41 has been accomplished through the support of the Utah Department of Public Safety. The Commissioner of Public Safety, D. Douglas Bodrero, has provided suggestions and allowed the staff of the DPS Telecommunications Division time to complete this plan.

We also appreciate the time and effort of all those in Public Safety and Emergency Services who served as a committee-of-the-whole and contributed their time and expertise in the development of this plan. We particularly appreciate the time and effort of all the local county and city Public Safety and Emergency Services people who served as a committee-of-the-whole and contributed their time and expertise in the development of this plan.

We also acknowledge the final review committee who spent the time necessary to read and evaluate the final draft of this plan.

EXECUTIVE SUMMARY

The major elements of the Region 41 Plan are reflective of the efforts of the Region to involve all Public Safety and Emergency Services entities in the planning process. An evaluation of existing systems, the political subdivisions in Utah, and the communications systems and jurisdictions that are in place now comprise the foundation of the plan.

The plan is to provide a regionwide system. This system will have various sub-parts made up of all users. Users will have the ability to interface to all segments of the network. This "trunked cellular" approach will provide a cost-effective, flexible system that will allow growth and development regionwide. The State of Utah has an extensive microwave system in place that can provide an effective method of system interconnection. The system is currently being upgraded from analog to digital technology.

Wherever possible, Region 41 will use existing telecommunications sites, which will provide a cost savings over the leasing/developing of new sites. In the planning effort we have reviewed sites owned and operated by all entities. For the most part, these sites will provide for basic radio coverage.

The State of Utah and its' political subdivisions have used cooperative agreements to allow small users access to the existing communications systems. A similar process will allow effective utilization of the new 800 MHz spectrum.

A review committee will meet annually, or as often as needed, to process the necessary programs and procedures and serve as arbitrators of the system and frequency assignment.

The "committee-of-the-whole" method, used to inform and involve everyone eligible in the planning process, allowed all entities to become part of the system planning process. We envision few, if any, conflicts that would come about from a lack of information or access to the proposed system.

Region 41 and adjacent regions (states) currently have interstate agreements for use of frequencies and sites. A part of this plan will insure that the needs of adjacent regions to Region 41 will be able to communication effectively with our region. Indeed, the effective use of interstate microwave systems will guarantee that this interconnection process occurs in an economical and effective way.

Several Federal entities in Region 41 are already interconnected through microwave and dispatch centers. This process has been included in the plan and becomes an effective tool for interagency communications.

This regional plan has attempted to meet the National Plan Criterion and will provide an effective foundation for many years in this region.

PROCESS AND DEVELOPMENT OF THE PLAN

The plan for Region 41 encompasses the State of Utah and its' political subdivisions. It is submitted in response to the Report and Order 87-112 of the Federal Communications Commission (FCC). This Report and Order established a national plan for the use of the proposed Public Safety and Special Emergency Services frequencies (821-824 and 866-869) in the 800 MHz frequency band. This plan is designed to serve the future needs of those authorized to provide these services. The establishment of the national plan is based on acceptance by the FCC of regional plans, including Region 41.

The opportunity and responsibility to have input into the projected future needs in Public Safety/Emergency Services is unique. A commitment of time, effort, and financial resources on the part of Public Safety/Special Emergency and other governmental entities was required in the planning process.

The APCO Convener, Robert Marz, placed legal notice in the major newspapers to establish the first meeting of the planning process (copy attached). An effort was made to bring all interested parties to a single location to discuss the FCC Docket and the 800 MHz process. In that meeting, Steven H. Proctor was elected the Chairman of the Region 41 planning committee.

In the second meeting, it was recommended and agreed upon that it would be advantageous to have a draft plan to which all agencies could respond to in future meetings.

To establish the draft plan, the following actions were taken:

1. A survey questionnaire was designed to help define the various aspects of current and projected radio needs for the next 15 years, or until 2005. The questionnaire is included as **Exhibit I.**

2. That questionnaire was mailed to all known eligible users of Public Safety/Emergency Services radio throughout the region. The mailing list consisted of those who attended the first two meetings and all of the Public Safety/Emergency Services licensees in Region 41. The corrected mailing list is included as **Exhibit II.** A total of 296 questionnaires were mailed and 183 or 62% of the questionnaires were returned. In that number of respondents, 26 indicated that mobile radios were not utilized. One was returned without the identification page and, therefore, some data was not used. Some major telecommunications users did not respond to the survey, consequently, a meeting was held with key people who attended the original convener meeting to provide additional information. Several telephone calls were

made to garner the information relating to these users.

3. A statistical analysis was developed to summarize the data from the survey. The data collected from the questionnaires is the primary source for the development of this plan. The basic concepts are:

   a. That any future system must be based on the current number of radios in use, as well as projected growth to the year 2005.

   b. That the population centers represent a primary parameter for planning.

   c. That current dispatch jurisdictions are a major part of the plan. In the Report and Order, it was noted that smaller dispatch centers may have to be combined to provide for efficiency. Many dispatch centers in Utah are already multiple agency, consolidated centers and future consolidation is a recommendation of this plan.

   d. That all eligible services should be represented by the plan. This should include police, fire, local government forestry, EMS, school buses, and smaller political subdivisions providing services to the taxpaying public. This resulted in a regionwide system concept.

   e. That existing communications sites shall be utilized, wherever possible, to reduce site development cost.

   f. That areas in Region 41 expecting rapid growth must have special consideration. These include areas of energy development, possible Olympic game venues, retirement communities, and major growth centers along the Wasatch Front.

The questionnaire also addressed the current viability of the existing "systems" throughout the state, and provided opportunity for suggestions for future use from the respondents.

We have also utilized the APCO circlelization data to evaluate the loading factors as much as possible. This is provided as **Exhibit III.**

In cooperation with a major vendor, we have completed a propagation study to determine the current telecommunication sites coverage. As the plan is further developed, this will provide valuable assistance in its' implementation. This is provided in **Exhibit IV.**

AUTHORITY

The authority to develop this plan was provided through the F.C.C. Report and Order, Docket No. 87-112.

The APCO convener for this region is Robert Marz. Mr. Marz, through legal notices in major newspaper in Utah, called for the convening of the planning process as noted in **Exhibit V.**

In that meeting, Steven Proctor was elected Chairman of the planning process, and all attenders of this meeting and planned future meetings became a committee-of-the-whole to complete the planning process.

All subsequent meetings throughout the region have comprised members of the committee, that is licensees and interested participants. These meetings were under the direction of the chairman.

The plan was reviewed by the review committee and is submitted to the F.C.C. as the Region 41 Plan. The review committee authorization is included as **Exhibit VI.**

REGIONAL/NATIONAL PLAN

In Region 41 we have made every effort to insure that Utah's plan will fit into the overall National Plan. We have made contact with adjacent regions (Wyoming, Nevada, Colorado, Idaho, Arizona, and New Mexico) to review their plan and planning process, if any, to insure compatibility in operation along the borders. Copies of this plan have been sent to the chairman of each adjacent region to coordinate channel usage and allocations. Copies of sign-off by adjacent chairmen are shown in **Exhibit VII.**

INTER-OPERABILITY

Inter-operability within systems encompassing Region 41 in its' entirety is critical if the system is to be operationally successful and cost effective. Region 41 feels it is imperative that the FCC establish a standard to insure competitive operability of all vendors, equipment, and systems. By providing this, the FCC will provide Region 41 and all other regions with the ability to procure the most current state-of-the-art equipment at a cost-effective price. Region 41's Plan is predicated on a standard prior to implementation.

REGION DEFINITION GEOGRAPHIC/DEMOGRAPHICAL

Utah, as many other Western States, has wide deviations in population density and an extremely large geographic area to serve. This large area is divided by mountain ranges running both North and South, and East and West. Because much of Utah is desert, the population centers are nestled against the base of these mountains. 1,335,817 people or 77.5% of the population of Utah live along what is called the "Wasatch Front". A map and list showing population by counties is included as **Exhibit VIII.** The Wasatch Front is comprised of the area from the city of Ogden on the north, through Salt Lake City, the Capitol of Utah, to Provo on the south. There is an extension of other communities on this front which comprises the western slope of the Wasatch mountains. The rest of the populace of Utah is spread throughout the state and runs the gauntlet of communities with a few families to communities up to 50,000 people.

The total state population shown by the 1990 census is 1,722,850. The projected population for the year 2005 is 2,106,800. The geographic area of Utah is 82,076 square miles. The number of mobile and handheld radios currently in use throughout the state in this service is estimated at 18,000 units. This is estimated because of those who did not respond to the regionwide questionnaire.

MEETING PLANS

There was a lack of understanding of what the 800 MHz trunked systems could do for Utah and the multiple entities within Public Safety communities. This was true both as to utilization of the system in a frequency-saving way, and in the ability to provide excellent day-to-day operational service, security, and the interconnectability of agencies who find it necessary to communicate within their entity and with each other.

To address these developmental problems, the following program was provided:

1. The users in the first meeting voted to form a "committee-of-the-whole" of all interested entities in the Public Safety/Special Services users in the region. They recommended that a draft planning document be provided to assist in the planning process.

2. A draft plan document was provided to allow all committee members in the region to discuss the process in future meetings.

3. Ten (10) meetings were scheduled throughout Utah. By direct invitation, all Public Safety/Special Services entities in the region were invited to attend a planning

meeting. A draft planning document was included for comment. This is included in **Exhibit IX.**

4. In the planning meetings, the agenda was as follows:

   a. A historical overview was presented to show the growth and development of mobile radio services in the region. This included 150, 450, and 800 MHz service.

   b. An 800 MHz tutorial was presented, showing the capabilities of trunking, the possible efficiency of spectrum use, and the purpose of the planning process.

   c. A review of the draft planning document was then conducted. Discussion centered on use of the spectrum, channel assignments, system requirements, and agency intercommunication and control. This process included the efforts by the FCC to develop a national plan through utilization of regional plans.

   d. An opportunity to ask questions, provide input to the planning process, and to discuss Region 41 needs was provided in each meeting.

5. The Chairman and the panel members also presented the program to two executive groups. The first presentation was to the Executive Development Institute of the Sheriff and Chief of Police Associations. This presentation was conducted at the invitation of the institute. The second presentation was made to the Utah State Telecommunications Cooperative. This group is made up of representatives of major telecommunication users from both state and local government and the educational institutions within Region 41. Future presentations will be scheduled with the Utah Association of Counties and the League of Cities and Towns, to insure all entities of Region 41 will be aware of the planning process.

6. The planning meetings were held in September and October, 1990. The input from those meeting, the questionnaires, and other sources were assembled and the plan was compiled in the months of November and December, 1990.

7. The plan is submitted to the FCC on June 24, 1991.

PLANNING COMMITTEE AND COMMITTEE MEETINGS

To encourage participation in the planning process, Region 41 elected to make the planning committee a committee-of-the-whole. Therefore, all participants in any planning meetings and other interested Public Safety people were considered as members of the committee. As noted previously, there were two general meetings held in Salt Lake City and ten sub-regional meetings held throughout Utah. The committee members, meeting locations, and dates are listed in **Exhibit X.**

FINAL REVIEW COMMITTEE

The final review committee for Region 41's 800 MHz Plan is the Information Technology Review Committee. This Committee has been set up to review such documents and agreements. The membership of this Committee has reviewed the plan to assure that it includes the following:

1. Insuring compliance with FCC Docket 87-112.
2. That it is representative of all potential user agencies.
3. That it meets Region 41's projected needs.
4. That it allows for future expansion capabilities.

See list of the Cooperative members and the Chairman's approval signature in **Exhibit VI.**

REQUIREMENTS OF ELIGIBLE ENTITIES

Our effort to hold ten sub-regional planning meetings to inform users about the capabilities of 800 MHz systems, and the development of the questionnaire to determine current and future needs, have provided an effective way to assure that this plan will meet the needs of each user. This required active participation of interested users. The questionnaire was developed as the first effort. It provided a means of addressing current and future needs.

An invitation to attend sub-regional planning meetings of user choice was extended to all licensees. That invitation and the draft document are shown in **Exhibit IX.**

In the meetings, shown in **Exhibit III,** time was left for all attenders to present issues and to modify the draft plan that had been provided before the meeting. Every effort was made to include each suggestion and to respond to each concern.

The final review committee had the opportunity to evaluate the information contained in the plan and have approved of the process in the plan.

USER ELIGIBILITY

This plan envisions the availability of the system to all users throughout the region. The process of user agreements and access to the proposed system already have precedence in existing state and local government agreements. The user access is, therefore, guaranteed by license and/or user agreement for access to the system. The Review Committee will meet annually, or as needed, to assure that the system access is provided to all eligible users.

REGION 41 CHANNEL ALLOCATION PLAN

The final process is to enumerate the channels required and the frequencies of those channels per area. Some statewide mutual aid channels are proposed to accommodate the intra-state need and will be proposed by area for inclusion in each area system. The areas that border other regions must have mutual inter-regional capabilities, and additional channels as needed are proposed in these instances. Because of Utah's diverse geography and diversely populated areas of the state, we have been able, with the spectrum provided, to provide a good frequency allocation. This will provide for future expansion.

The frequency allocation plan is shown in Exhibit III. The plan tries to include in each area the availability of the NPSPAC calling and at least one other tactical channel that is designed to meet interagency use.

Adjacent regional plans were consulted to insure appropriate separation and interconnectability where available and where required. Copies of the plan have been sent to Regions 3 (Arizona), 7 (Colorado), 12 (Idaho), 27 (Nevada), 29 (New Mexico), and 46 (Wyoming) for their review and concurrence.

SPECTRUM UTILIZATION

The spectrum utilization in Region 41 represented a most challenging opportunity. Not only is the region diverse in its' terrain features, varying in elevation from 2,000 ft. to over 12,000 ft. AMSL. but the many communities of the area, for the most part, are adjacent to mountains and deep canyons. The site development process that has gone on in Utah for the past 25 years provides this region with the ability to provide system coverage from those sites to meet the specialized geography of Region 41. The fact that the region is divided with mountain ranges also provide terrain shielding for sites serving different areas. The geographical separation has allowed development of sites that will give offset channel selection and provide the option of reuse of channels throughout the Region as indicated in the frequency allocation proposal. With major population centers being so close together, the effective use of frequencies in these locations allows the reuse in the widely separated rural areas of Utah on a

non-interfering basis. We propose to utilize trunking in every population center, with stand-alone repeaters at discreet locations where specialized coverage needs exist.

This will provide for effective combining of entities where the geographical features will allow. This will also provide the means of communications or mutual aid channels between entities in an effective way.

The major advantage of having a regionwide system is that the best possible utilization of the system can be realized through the sharing of sites and dispatch centers. Even the smallest user can enjoy the autonomy of the trunked system, but have access to others through this system concept.

Good engineering practice has provided for effective theoretical coverage patterns. Existing knowledge, site profiles, and actual radio surveys will provide the best possible antenna patterns and ERP combinations for the necessary coverage in this most difficult terrain. Salt Lake City, Utah, was one of four test cities for APCO Project 16 in 1976. Many hours were spent testing the feasibility and use of 800 MHz in Utah's mountainous terrain. This existing knowledge and expertise was utilized in this plan design.

OPERATIONAL ISSUES

A. DAY-TO-DAY OPERATIONS

The day-to-day operational standards will be accomplished by the design of the trunked system. In some areas, where two or more systems are required to provide coverage of the jurisdictional area, it is the intent that the design of the trunked system provide wide area coverage. Wide area coverage will provide the automatic interconnectability of systems to provide total jurisdictional coverage for the using entities.

B. NPSPAC MUTUAL AID CHANNEL USE

Inter-communications on the mutual aid channels will be monitored by dispatching agencies. All such agencies will have monitoring capabilities on the appropriate mutual aid channels. If the NPSPAC calling channel is activated, the dispatcher will notify all appropriate parties and assign the tactical channel for that event. The current Public Safety protocols of Region 41 shall provide the means to determine the lead agency for that event and they shall exercise appropriate control of the channel(s) needed for that event.

C. REGIONAL MUTUAL AID USE

In the event that the mutual aid channel is a Regional Mutual Aid Channel, the same protocol exists and the process followed, as

described by current processes, will govern the control of the channel(s) by controlling agency during the event and until its' conclusion. Each of these channels should provide an alert mechanism to the dispatcher or monitoring entity.

This plan calls for daily checks to be made to insure that the mutual aid channels are, in fact, operational and are being appropriately monitored. These tests shall be initiated by the system manager of the dispatch agencies for that portion of the system.

This plan calls for restoration of failed equipment in the system with a one-hour response time and repair within a 24-hour period, barring any major equipment problems. In the event that this cannot occur, all user entities are to be notified and made aware of the time that the system will be fully operational.

The system management reports will be provided as requested by the various using entities. Each report shall become part of the Review Committee's annual evaluation.

INTER-REGIONAL COORDINATION

A complete Region 41 Plan was sent to each chairman with a request that a signature page be returned in one week. We have carefully evaluated all regional drafts and/or plans submitted to us and/or the FCC. We have coordinated our frequency allocation plan to accommodate the best possible avoidance of interference, as well as the need, in many cases, to provide inter-regional communications. Adjacent regional notification and signatures, where returned, are provided as **Exhibit VII.**

FUNDING MECHANISM

One of the basic premises of this plan comes from a suggestion made in a sub-regional meeting. The suggestion is that the major system components be purchased through legislative funding, and that the individual entities be responsible for the purchase of their mobiles, handhelds, and control equipment to interact with the network. Because this system should provide interconnectability, which would complement its' overall design, we are suggesting that the existing statewide microwave system be used to provide this interconnection capability, and the suggestion to provide for a total system concept is put in this plan. Although this will need legislative approval for funding, it appears that it will be the necessary process to provide for such regionwide service, given the overall cost and ongoing operational needs of all Public Safety/Emergency Services users.

SLOW GROWTH PROPOSED

The Federal Communications Commission recommended that the system be implemented within a three-year period after acceptance of the plan by the commission. This will not provide enough time because of the funding process Region 41 must go through to implement such a system. Because of the wide geographic area, multiple political entities, and the recommended funding process, it is made part of this plan that the Utah region will have a "slow growth" plan.

This slow growth process will allow the involved entities to plan for replacement over a five-year plus period and result in a careful and well-planned implementation process to bring new 800 MHz radios into use. It will also allow the entities to evaluate and fit their needs into the plan in such a way as to appropriately utilize their current equipment to maximize the use of taxpayer dollars.

FREQUENCY RELINQUISHMENT

The requirement of the plan envisions that current non-800 MHz frequencies being used should be relinquished for use by others. This is felt appropriate, and the recommendation made that once the system is completed and a one-year debugging period is over, the frequencies currently being held be relinquished and the licenses released to the Federal Communications Commission. This will be seen as appropriate as we see the fail-safe and fall-back modes of the 800 MHz trunking system in use and meeting our needs.

CELLULAR, SATELLITE, AND SHORT WAVE CONSIDERATIONS

The use of satellite and cellular telecommunications devices become primarily an administrative tool with reference to this plan. Cellular telephone was not designed with Public Safety use in mind but does, in metropolitan areas, provide a secondary resource for administrative uses and backup in the event of total system failure. Satellite networks use can be utilized for emergency disaster communications. The investment in ancillary equipment and wide area coverage for Public Safety needs predicts that this technology will require specialized use and will need to be carefully planned and implemented. (It is only considered as part of this plan to include the future possibility and as part of a comprehensive overview). Region 41 recommends that telephone interconnect be accomplished primarily through cellular telephone systems and SMRS to avoid 800 MHz system congestion on special emergency and Public Safety trunked systems.

Other long-range communications devices, such as short wave, currently exist in Utah under the Office of Comprehensive Emergency Management, in conjunction with FEMA. These programs will be used to facilitate national disaster situations and can be interfaced to

the 800 MHz system, if required, through dispatch centers, command posts, and other emergency response devices.

UTAH MICROWAVE SYSTEM

As noted earlier, the State of Utah has developed an extensive microwave system which covers Region 41. This microwave system will greatly enhance the development of the 800 MHz plan for Utah. Included as **Exhibit XII** is a map showing the microwave network. This map also shows the basic population and geographical features of Utah, as well.

PROPOSED SYSTEM UTILIZATION AGREEMENT

With the regionwide system concept and our attempt to include everyone in the planning process, it is necessary to have an agreement which will provide a mechanism to protect the system and the multiple users. This proposed agreement is shown in **Exhibit XIII.**

EXHIBIT I

Questionnaire, Including Cover Letter

UTAH CHAPTER

ASSOCIATED PUBLIC - SAFETY COMMUNICATIONS OFFICERS, Inc.

January 5, 1990

Dear Communications Administrator:

Because of requirements placed on us by the Federal Communications Commission, the State of Utah and its political subdivisions are required to develop a regional plan for the implementation of the 800 MHz radio frequency spectrum. As you may be aware, all states and/or regions in the country are involved in the same endeavor.

The opportunity to develop a plan to meet the needs of our region is quite unique and one that should be developed to its full potential. To help us in this endeavor, would you please complete the questionnaire attached and return it in the enclosed envelope by February 15, 1990 which will allow the time necessary to assemble ideas and provide a draft of a plan for the next planning meeting tentatively scheduled in the spring.

Your input is essential in developing a comprehensive plan for the Utah region. Without a regional plan, the Federal Communications Commission will release these frequencies to other users - so please do your part.

Thank you for your contribution and desire to define a viable plan for our region.

Sincerely,

Steven H. Proctor
Chairman
Utah 800 MHz Planning Committee

Attachment
0633

800 MHz PLANNING QUESTIONNAIRE

SECTION I

1. Agency or User

   A. Name _____

   B. Address _____

   _____

   _____

   C. Telephone _____

2. Contact Person

   A. Name _____

   B. Title _____

   C. Address _____

   _____

   D. Telephone _____

3. Type of Organization

   A. Government ___
   B. Private ___

4. Type of Service

   A. Federal ___
   B. State ___
   C. Local ___
   D. Private ___
   E. Police ___
   F. Fire ___
   G. Highway ___
   H. Military ___
   I. Other ___ (Please list) _____

5. Dispatch Service

   A. Currently Use ___
   B. Future Use ___
   C. Not Required ___

6. Dispatch Center Used

   A. If you presently use dispatching service or will in the future, list the dispatch center(s):

   _____

   _____

B. Agency managing dispatch center

_____

C. If you have a dispatch center, list agencies utilizing it and indicate full- or part-time use.

_____

_____

_____

SECTION II

Attached is a MAP with proposed areas of the state region. Please use this MAP in responding to Section II.

1. Check the area(s) of the state you are required to serve. If statewide, see Question 2.

___ 1 ___ 2 ___ 3 ___ 4 ___ 5 ___ 6

2. Do you serve the entire state? ___Yes ___No

3. Do you have need to serve additional areas? ___Yes ___No

4. What is the population served? _____

A. Do you expect the population served to change? ___Yes ___No

B. By Year 1995: ___ Up ___ Down
By Year 2000: ___ Up ___ Down

C. What is the size of your service area? _____ sq. miles

D. Number of radio sites used to cover this operating area? _____

E. Is your coverage adequate for mobile operation? ___Yes ___No
Portable operation? ___Yes ___No

F. If answer to E is "No" give details of coverage problems and areas of concern: _____

_____

_____

_____

5. List major events which impact telecommunications use on a regular basis (i.e., Utah Summer Games, Special Olympics). Describe impact.

_____

_____

_____

SECTION III

What does your current telecommunications system consist of.

1. Radio System (number of)
   - A. Base Stations _____
   - B. Repeaters _____
   - C. Mobile Radios _____
   - D. Trunked System _____ (number of channels)
   - E. Cellular Phones _____
   - F. Transmitter Sites _____

   NOTE: Please include separate sheet listing transmitter sites and locations (giving frequencies, coordinates and elevations).

2. Number of Frequencies _____
   - A. Lowband _____
   - B. Highband _____
   - C. UHF _____
   - D. 800 MHz _____
   - E. Other (list) _____

   NOTE: Include separate sheet listing frequencies. If possible, provide copy of licenses, call signs, station location.

3. Do you currently need more capacity to meet existing needs?
   - A. Channels ____
   - B. Frequencies ____
   - C. Dispatch Service ____
   - D. Portables ____
   - E. Mobiles ____
   - F. Other ____

4. Frequency band preference? _____

5. Are you willing to change to other frequency bands? ___Yes ___No
   Which bands? _____

6. Do you share frequencies/channels with other entities? ___Yes ___No
   - A. If so, how many others? _____
     Please list: _____
     _____
   - B. What frequencies? _____
     _____

7. Do you have to wait to access your radio channels?

   A. Never ____
   B. Once or twice a shift ____
   C. More than twice a shift ____

8. Average number of radio calls per day of your agency to and from dispatch? _____

   Peak hours of radio traffic?

	Time of Call	Number of Calls
Weekdays	_____	_____
Saturday	_____	_____
Sunday	_____	_____

9. Maximum number of radio calls per day of your agency to and from dispatch? _____

   Peak hours of radio traffic?

	Time of Call	Number of Calls
Weekdays	_____	_____
Saturday	_____	_____
Sunday	_____	_____

10. Average time lapse of radio call? _____

11. Do you use data transmissions over your current system?

    A. Mobile Data Terminals ____Yes ____No
    B. EKGs Telemetry, Life Packs ____Yes ____No
    C. Others (please define): _____

12. Do you have a plan for future data use in conjunction with your radio system? ____Yes ____No

    (Describe) _____

    _____

13. Do you use scrambling or encryption? ____Yes ____No

14. Do you foresee a need for protected (encryption) radio transmissions?

    ____Yes ____No

15. Do you use telephone patch? ____Yes ____No

A. Automatic ____Yes ____No

B. Manual ____Yes ____No

16. Do your future plans include telephone patch? ____Yes ____No

17. Do you use cellular telephones? ____Yes ____No How many? ____

18. Future cellular needs? _____

19. If an 800 MHz system for multiple agency use was installed:

A. Would your agency participate? ____Yes ____No ____Maybe

B. Which frequencies licensed to you could you release? _____

C. List concerns you may have regarding such a system: _____

20. List the agencies with which you have radio communications:

A. On a daily basis
B. Occasionally
C. Emergency or Major Disaster

SECTION IV

1. For the following, indicate the total pieces of equipment your agency owns or operates, and project for the years listed.

	NOW	1995	2005
Mobile Radios			
Portable (Handheld) Radios			
Mobile Computer Terminals			
Automatic Vehicle Locators			
Radio Control Links			
Radio Alarm/Control Systems			
Vehicular Repeaters			
Transmitters/Repeaters			
Base Stations			
Microwave Equipment			
Cellular Telephone			

2. For the following, indicate the maximum units of equipment in use at any given time, and project for the years listed.

	NOW	1995	2005
Mobile Radios			
Portable (Handheld) Radios			
Mobile Computer Terminals			
Automatic Vehicle Locators			
Radio Control Links			
Radio Alarm/Control Systems			
Vehicular Repeaters			
Transmitters/Repeaters			
Base Stations			
Microwave Equipment			
Cellular Telephone			

3. Does your department budget for system replacement or expansion? ____Yes ____No

4. If an agreed upon 800 MHz system is proposed, would you support funding necessary for implementation? ____Yes ____No

Comments or Questions

EXHIBIT II

Corrected Mailing List

1ST CIRCUIT COURT
c/o SHERYL MORRIS
140 NORTH 100 WEST
LOGAN, UT 84321

2ND CIRCUIT COURT
c/o GEORGE BERKLEY
2549 WASHINGTON BLVD.
OGDEN, UT 84401

3RD CIRCUIT COURT
c/o SANDI JOHNSON
2470 SOUTH REDWOOD ROAD
SALT LAKE CITY, UT 84119

4TH CIRCUIT COURT
c/o SANDY CARTER
97 EAST CENTER
OREM, UT 84057

4TH PRECINCT CONSTABLE'S OFFICE
c/o SUE STOWERS
3425 SOUTH 3000 WEST
WEST VALLEY, UT 84119

6TH CIRCUIT COURT
c/o LORAINE GREGORSON
250 NORTH MAIN
RICHFIELD, UT 84701

7TH CIRCUIT COURT
c/o MIKE SHANE
149 EAST 100 SOUTH, #2
PRICE, UT 84501

8TH CIRCUIT COURT
c/o CHERYL WEEKS
147 EAST MAIN
VERNAL, UT 84078

ACE AMBULANCE SERVICE
c/o COMMUNICATIONS OFFICER
P. O. BOX 9904
OGDEN, UT 84408

AIRPORT AUTHORITY
c/o KEN IMBER
AMF BOX 22084
SALT LAKE CITY, UT 84122

ALCOHOL COUNCELING & EDUCATION
c/o LOUIS MONROE
231 EAST 4TH SOUTH, 2ND FLOOR
SALT LAKE CITY, UT 84111

ALLEN MEMORIAL HOSPITAL
c/o COMMUNICATIONS OFFICER
719 WEST 400 NORTH
MOAB, UT 84532

ALPINE CITY
c/o BRENT LESEBERG
20 NORTH MAIN
ALPINE, UT 84003

ALTA SKI PATROL
c/o COMMUNICATIONS OFFICER
ALTA SKI LIFTS
ALTA, UT 84092

ALTA VIEW HOSPITAL
c/o COMMUNICATIONS OFFICER
9660 SOUTH 1300 EAST
SANDY, UT 84070

ALTAMONT CITY
c/o COMMUNICATIONS OFFICER
FIRE DEPARTMENT
ALTAMONT, UT 84001

AMERICAN FORK CITY
c/o JOHN DURRANT
93 NORTH CENTER
AMERICAN FORK, UT 84003

AMERICAN FORK HOSPITAL
c/o COMMUNICATIONS OFFICER
170 NORTH 100 EAST
AMERICAN FORK, UT 84003

ASHLEY VALLEY MEDICAL CENTER
c/o COMMUNICATIONS CENTER
151 WEST 200 NORTH
VERNAL, UT 84078

ATTORNEY GENERAL'S OFFICE
c/o VICKIE WALKER
STATE CAPITOL BLDG, ROOM 236
SALT LAKE CITY, UT 84114

BEAR RIVER VALLEY HOSPITAL
c/o COMMUNICATIONS OFFICER
440 WEST 600 NORTH
TREMONTON, UT 84337

BEAVER CITY
c/o COMMUNICATIONS OFFICER
P. O. BOX 271
BEAVER, UT 84713

BEAVER CO. SHERIFF'S OFFICE
c/o KENNETH YARDLEY
40 SOUTH 100 EAST
BEAVER, UT 84713

BEAVER EMERGENCY SERVICES
c/o COMMUNICATIONS OFFICER
40 SOUTH 100 EAST
BEAVER, UT 84712

BEAVER MTN. SKI AREA
c/o COMMUNICATIONS OFFICER
P. O. BOX 3455
LOGAN, UT 84321

BEAVER VALLEY HOSPITAL
c/o COMMUNICATIONS OFFICER
85 NORTH 400 EAST
BEAVER, UT 84713

BLANDING POLICE DEPT.
c/o TOM AUSTIN
50 WEST 100 SOUTH
BLANDING, UT 84511

BLUFFDALE POLICE DEPT.
13850 SOUTH 2200 WEST
BLUFFDALE, UT 84065

BOARD OF PARDONS
c/o LORI GUSTIN
6100 SOUTH 300 EAST
SALT LAKE CITY, UT 84107

BOUNTIFUL CITY
c/o LARRY D. HIGGINS
745 SOUTH MAIN
BOUNTIFUL, UT 84010

BOUNTIFUL POLICE DEPARTMENT
c/o DON TAYLOR
745 SOUTH MAIN
BOUNTIFUL, UT 84010

BOX ELDER CO. SHERIFF'S OFFICE
c/o ROBERT E. LIMB
21 SOUTH MAIN
BRIGHAM CITY, UT 84302

BRIAN HEAD CITY
c/o COMMUNICATIONS OFFICER
P. O. BOX 68
BRIAN HEAD, UT 84719

BRIGHAM CITY POLICE DEPT.
c/o CHARLES G. EARL
20 NORTH MAIN
BRIGHAM CITY, UT 84302

BRIGHAM YOUNG UNIVERSITY
c/o JIM EDVALSON
200 FB
PROVO, UT 84602

BRIGHAM YOUNG UNIVERSITY
c/o ROBERT KELSHAW
B-66 SMOOT BLDG.
PROVO, UT 84602

BUREAU OF ALCOHOL, TOBACCO
& FIREARMS
c/o TOMMY WHITMAN
125 SOUTH STATE, ROOM 3239
SALT LAKE CITY, UT 84138

BUREAU OF INDIAN AFFAIRS
c/o EUGENE LITTLEWHITEMAN
P. O. BOX 280
FT. DUCHESNE, UT 84026

BUREAU OF LAND MANAGEMENT
c/o DON HOOK
324 SOUTH STATE STREET
SALT LAKE CITY, UT 84111

CACHE CO. SHERIFF'S OFFICE
c/o SIDNEY GROLL
50 WEST 200 NORTH
LOGAN, UT 84321

CARBON CO. SHERIFF'S OFFICE
COUNTY COURTHOUSE
PRICE, UT 84501

CASTLEVIEW HOSPITAL
c/o COMMUNICATIONS OFFICER
RFD 2 BOX 46
PRICE, UT 84501

CEDAR CITY POLICE DEPT.
c/o PETE HANSEN
110 NORTH MAIN
CEDAR CITY, UT 84720

CENTERVILLE POLICE DEPT.
c/o JAMES OSWALD
521 NORTH 400 WEST
CENTERVILLE, UT 84014

CENTRAL VALLEY MEDICAL CENTER
c/o COMMUNICATIONS OFFICER
549 NORTH 400 EAST
NEPHI, UT 84648

CHRISTIE McNAIR
F.B.I.
125 SOUTH STATE, ROOM 3202
SALT LAKE CITY, UT 84138

CLARK CLINIC
c/o COMMUNICATIONS OFFICER
1075 ELM AVENUE
PROVO, UT 84604

CLEARFIELD POLICE DEPT.
c/o DAREN GREEN
140 EAST CENTER
CLEARFIELD, UT 84015

CLINTON POLICE DEPT.
c/o LEROY WEBB
1906 WEST 1800 NORTH
CLINTON, UT 84015

COLLEGE OF EASTERN UTAH
c/o COMMUNICATIONS OFFICER
451 EAST 400 NORTH
PRICE, UT 84501

COMMUNITY OPERATIONS
DEPT. OF HUMAN SERVICES
c/o JODY TALBOT
129 NORTH 200 WEST, 3RD FLOOR
SALT LAKE CITY, UT 84103

COTTONWOOD HOSPITAL
c/o COMMUNICATIONS OFFICER
5770 SOUTH 500 EAST
MURRAY, UT 84107

COUNTY ATTORNEY-INVESTIGATIONS
c/o LINDA MORGAN
231 EAST 400 SOUTH, 4TH FLOOR
SALT LAKE CITY, UT 84111

COURT ADMINISTRATOR'S OFFICE
c/o CAROL STEARNS
451 SOUTH 200 EAST
SALT LAKE CITY, UT 84111

D. L. ROPER
c/o COMMUNICATIONS OFFICER
RT. 1 BOX 19B
AMERICAN FORK, UT 84003

DAGGETT CO. SHERIFF'S OFFICE
c/o GAYLEN JARVIE
P. O. BOX 218
MANILA, UT 84046

DAVIS CO. SHERIFF'S OFFICE
P. O. BOX 618
FARMINGTON, UT 84025

DAVIS COUNTY
c/o COMMUNICATIONS OFFICER
BLDG. F3 FREEPORT CENTER
CLEARFIELD, UT 84015

DAVIS COUNTY SCHOOL DISTRICT
c/o COMMUNICATIONS OFFICER
P. O. BOX 1209
CLEARFIELD, UT 84016

DELTA POLICE DEPT.
c/o ROGER YOUNG
76 NORTH 200 WEST
DELTA, UT 84624

DEPARTMENT OF CORRECTIONS
ADMINISTRATION
c/o SHEILA FRY
6100 SOUTH 300 EAST
SALT LAKE CITY, UT 84107

DEPT. OF BUSINESS REGULATIONS
c/o DIANE KIMMERLE
160 EAST 300 SOUTH
SALT LAKE CITY, UT 84145

DEPT. OF NATURAL RESOURCES
1636 WEST NORTH TEMPLE
SALT LAKE CITY, UT 84116

DEPT. OF PUBLIC SAFETY
DIVISION OF INVESTIGATIONS
c/o BOB WHITE
195 EAST 6100 SOUTH, SUITE 9
SALT LAKE CITY, UT 84107

DEPT. OF PUBLIC WORKS
SALT LAKE COUNTY
c/o COMMUNICATIONS OFFICER
7125 SOUTH 600 WEST
MIDVALE, UT 84047

DEPT. OF SOCIAL SERVICES
c/o YOUTH CORRECTIONS
120 NORTH 200 WEST
SALT LAKE CITY, UT 84145

DIV. OF PARKS & RECREATION
DEPT. OF NATURAL RESOURCES
c/o CHERYL OSTLAND
1636 WEST NORTH TEMPLE
SALT LAKE CITY, UT 84116

DIV. OF STATE LANDS/FORESTRY
DEPT. OF NATURAL RESOURCES
c/o JACK BRIGANCE
3 TRIAD CENTER, SUITE 400
SALT LAKE CITY, UT 84185

DIVISION OF MOTOR VEHICLES
IMPOUND
c/o BETSY KLVESNER
1095 MOTOR AVENUE
SALT LAKE CITY, UT 84116

DIXIE COLLEGE
c/o COMMUNICATIONS OFFICER
PHYSICAL PLANT
ST. GEORGE, UT 84770

DIXIE MEDICAL CENTER
c/o JEFF DIAL
544 SOUTH 400 EAST
ST. GEORGE, UT 84770

DRAPER POLICE DEPT.
c/o WAYNE RILEY
12441 SOUTH 900 EAST
DRAPER, UT 84020

DRIVERS LICENSE DIVISION
DEPT. OF PUBLIC SAFETY
c/o SHERRI ERTEL
4501 SOUTH 2700 WEST
SALT LAKE CITY, UT 84119

DRUG ENFORCEMENT
JUSTICE DEPARTMENT
c/o STEVE LOUGH
125 SOUTH STATE, SUITE 8416
SALT LAKE CITY, UT 84138

DUCHESNE CITY
c/o COMMUNICATIONS OFFICER
DRAWER M
DUCHESNE, UT 84021

DUCHESNE CO. SHERIFF'S OFFICE
c/o CLAIR M. POULSON
DRAWER "M"
DUCHESNE, UT 84021

DUGWAY PROVING GROUNDS
c/o ED LLOYD
P. O. BOX 454
DUGWAY, UT 84022

EAST CARBON POLICE DEPT.
c/o KEN NIELSON
202 PARK PLACE
EAST CARBON, UT 84520

EMERGENCY MEDICAL SERVICES
DEPT. OF HEALTH
c/o RICHARD WARBURTON
P. O. BOX 16660
SALT LAKE CITY, UT 84116

EMERY CO. SHERIFF'S OFFICE
c/o LAMAR E. GUYMON
P. O. BOX 817
CASTLE DALE, UT 84513

EMERY MEDICAL CENTER
c/o COMMUNICATIONS OFFICER
P. O. BOX 398
CASTLE DALE, UT 84513

ENID BOUGEIOUS
UTAH STATE PRISON
P. O. BOX 250
DRAPER, UT 84020

ENTERPRISE CITY
c/o COMMUNICATIONS OFFICER
15 SOUTH 100 EAST
ENTERPRISE, UT 84725

EPHRAIM POLICE DEPT.
c/o DEMONT THOMPSON
5 SOUTH MAIN
EPHRAIM, UT 84627

EUREKA POLICE DEPT.
c/o JOSEPH A. BERNINI
P. O. BOX 156
EUREKA, UT 84628

EXECUTIVE PROTECTION
c/o DANNY CATLIN
210 STATE CAPITOL BUILDING
SALT LAKE CITY, UT 84114

F.B.I.
c/o RON GERICKE
125 SOUTH STATE STREET
SALT LAKE CITY, UT 84138

FAIRVIEW POLICE DEPT.
c/o JAMES CHENEY
P. O. BOX 305
FAIRVIEW, UT 84629

FARMINGTON POLICE DEPT.
c/o VAL J. MORTON
286 SOUTH 200 EAST
FARMINGTON, UT 84025

FEDERAL AVIATION ADMIN.
SECURITY
c/o WALLY ALLEN
P. O. BOX 22094-AMF
SALT LAKE CITY, UT 84122

FHP OF UTAH, INC.
c/o DEE BREWER
35 WEST BROADWAY
SALT LAKE CITY, UT 84101

FIELD OPERATIONS
DEPT. OF CORRECTIONS
c/o CLAUDIA BROWN
6100 SOUTH 300 EAST
SALT LAKE CITY, UT 84107

FILLMORE L.D.S. HOSPITAL
c/o COMMUNICATIONS OFFICER
25 SOUTH 100 WEST
FILLMORE, UT 84631

FISH AND WILDLIFE DEPT.
c/o DOUG MCKENNAN
P. O. BOX 27048
SALT LAKE CITY, UT 84127

FRUIT HEIGHTS CITY
c/o COMMUNICATIONS OFFICER
281 SOUTH MOINTAIN RD.
FRUIT HEIGHTS, UT 84037

GARFIELD CO. SHERIFF'S OFFICE
c/o ROBERT JUDD
P. O. BOX 370
PANGUITCH, UT 84759

GARFIELD MEMORIAL HOSPITAL
c/o COMMUNICATIONS OFFICER
200 NORTH 400 EAST
PANGUITCH, UT 84759

GARLAND POLICE DEPARTMENT
c/o BRUCE M. JOHNSON
86 WEST FACTORY
GARLAND, UT 84312

GENERAL SERVICES ADMIN.
TELECOMMUNICATIONS
125 SOUTH STATE, ROOM 4215
SALT LAKE CITY, UT 84138

GENOLA POLICE DEPT.
c/o A. HALE ROBINSON
372 EAST 400 SOUTH
GENOLA, UT 84655

GOLD CROSS SERVICES
c/o COMMUNICATIONS OFFICER
754 WEST 1700 SOUTH
SALT LAKE CITY, UT 84104

GRAND CO. SHERIFF'S OFFICE
c/o JAMES D. NYLAND
125 EAST CENTER
MOAB, UT 84532

GRAND COUNTY HOSPITAL
c/o COMMUNICATIONS OFFICER
P. O. BOX 998
MOAB, UT 84532

GRAND VALLEY FIRE
c/o COMMUNICATIONS OFFICER
BOX 745
MOAB, UT 84532

GRANGER-HUNTER IMPROV DISTRICT
c/o COMMUNICATIONS OFFICER
3146 WEST 3500 SOUTH
SALT LAKE CITY, UT 84119

GRANITE CITY
c/o COMMUNICATIONS OFFICER
380 WEST GREGSON AVE.
SALT LAKE CITY, UT 84115

GRANITE SCHOOL DISTRICT
POLICE DEPARTMENT
c/o SGT. TODD RASMUSSEN
380 EAST GREGSON AVENUE
SALT LAKE CITY, UT 84115

GRANTSVILLE POLICE DEPT.
c/o RONALD SKINNER
7 PARK STREET
GRANTSVILLE, UT 84029

GREEN RIVER CLINIC
c/o COMMUNICATIONS OFFICER
P. O. BOX 406
GREEN RIVER, UT 84525

GREEN RIVER JEEP POSSE
c/o COMMUNICATIONS OFFICER
P. O. BOX 472
GREEN RIVER, UT 84524

GUNNISON POLICE DEPT.
c/o JOE CHRISTENSEN
P. O. BOX 35
GUNNISON, UT 84634

GUNNISON VALLEY HOSPITAL
c/o COMMUNICATIONS OFFICER
64 EAST 1ST NORTH
GUNNISON, UT 84633

HARRISVILLE POLICE DEPT.
c/o RICH DEAN
1350 NORTH HWY 89-91
HARRISVILLE, UT 84404

HEBER CITY POLICE DEPT.
c/o JIMMY MATTHEWS
37 EAST 100 NORTH
HEBER CITY, UT 84032

HELPER POLICE DEPT.
c/o KARL STAVOR
P. O. BOX 533
HELPER, UT 84526

HILL AIR FORCE BASE
c/o LT. COL.JOHN SHACKELFORD
1881 CS/CC
HILL AIR FORCE, UT 84056

HINCKLEY TOWN
FIRE DEPARTMENT
c/o COMMUNICATIONS OFFICER
P. O. BOX 127
HINCKLEY, UT 84635

HOLY CROSS HOSPITAL
c/o COMMUNICATIONS OFFICER
1045 EAST 1ST SOUTH
SALT LAKE CITY, UT 84102

HOLY CROSS HOSPITAL / WEST
c/o COMMUNICATIONS OFFICER
3580 WEST 9000 SOUTH
WEST JORDAN, UT 84084

HOUSING AUTHORITY OF UTAH
c/o COMMUNICATIONS OFFICER
1800 SOUTH WEST TEMPLE, #304
SALT LAKE CITY, UT 84115

HUMANA HOSPITAL-DAVIS NORTH
c/o COMMUNICATIONS OFFICER
P. O. BOX 427
LAYTON, UT 84041

HURRICANE POLICE DEPT.
c/o LYNN EXELL
58 NORTH 200 EAST
HURRICANE, UT 84737

HYDE PARK
113 EAST CENTER
HYDE PARK, UT 84318

HYRUM CITY
c/o COMMUNICATIONS OFFICER
83 WEST MAIN
HYRUM, UT 84319

INTERMOUNTAIN HEALTH
c/o COMMUNICATIONS OFFICER
1034 NORTH 5TH WEST
PROVO, UT 84601

IRON CO. SHERIFF'S OFFICE
c/o IRA SCHOPPMANN
2132 NORTH MAIN
CEDAR CITY, UT 84720

IRON COUNTY
c/o COMMUNICATIONS OFFICER
P. O. BOX 307
CEDAR CITY, UT 84720

JUAB CO. SHERIFF'S OFFICE
c/o DAVID CARTER
25 SOUTH 100 WEST
NEPHI, UT 84648

JUVENILE COURT DIVISION
c/o ELMA ASHLEY
230 SOUTH 500 EAST, SUITE 300
SALT LAKE CITY, UT 84102

KAMAS POLICE DEPT.
c/o MIKE VERNON
P. O. BOX 7
KAMAS, UT 84036

KANAB POLICE DEPT.
c/o WILLIAM H. BLASDELL
60 WEST MAIN
KANAB, UT 84741

KANE CO. SHERIFF'S OFFICE
c/o JOE GONZALES
70 WEST MAIN
KANAB, UT 84741

KAYSCREEK VETERINARY CLINIC
c/o COMMUNICATIONS OFFICER
699 NORTH ANGEL
KAYSVILLE, UT 84037

KAYSVILLE POLICE DEPT.
c/o LYLE LARKINS
90 EAST 100 NORTH
KAYSVILLE, UT 84037

L.D.S. HOSPITAL
c/o COMMUNICATIONS OFFICER
8TH AVENUE & C STREET
SALT LAKE CITY, UT 84103

LA VERKIN CITY
c/o COMMUNICATIONS OFFICER
P. O. BOX 265
LA VERKIN, UT 84744

LAKEVIEW HOSPITAL
c/o COMMUNICATIONS OFFICER
630 EAST MEDICAL DRIVE
BOUNTIFUL, UT 84010

LAYTON POLICE DEPT.
c/o DOYLE TALBOT
437 WASATCH DRIVE
LAYTON, UT 84041

LEHI POLICE DEPT.
c/o BILL GIBBS
51 NORTH CENTER
LEHI, UT 84043

LINDON POLICE DEPT.
87 EAST 100 SOUTH
LINDON, UT 84042

LOGAN CITY
c/o COMMUNICATIONS OFFICER
255 NORTH MAIN
LOGAN, UT 84320

LOGAN POLICE DEPT.
c/o ALAN NELSON
P. O. BOX 527
LOGAN, UT 84321

LOGAN REGIONAL HOSPITAL
c/o COMMUNICATIONS OFFICER
1400 NORTH 500 EAST
LOGAN, UT 84321

MANTI POLICE DEPT.
c/o JOHN COX
55 WEST 300 NORTH
MANTI, UT 84642

MAPLETON POLICE DEPT.
c/o BRET C. BARNEY
35 EAST MAPLE
MAPLETON, UT 84663

MARGIE HARGETT
UTAH STATE PRISON
P. O. BOX 250
DRAPER, UT 84020

MCKAY DEE HOSPITAL
c/o COMMUNICATIONS OFFICER
3939 HARRISON BLVD.
OGDEN, UT 84409

MEDICALL
c/o COMMUNICATIONS OFFICER
4500 SOUTH 360 EAST, SUITE #4
SALT LAKE CITY, UT 84107

MIDVALE POLICE DEPT.
c/o JOHN PATIENCE
80 EAST CENTER
MIDVALE, UT 84047

MIDWAY
140 WEST MAIN
MIDWAY, UT 84049

MILFORD MEMORIAL HOSPITAL
c/o COMMUNICATIONS OFFICER
P. O. BOX 797
MILFORD, UT 84751

MILFORD POLICE DEPT.
c/o BUREL SCOTT
CITY OFFICES
MILFORD, UT 84751

MILLARD CO. SHERIFF'S OFFICE
c/o ED PHILLIPS
STAR RT. BOX 50
FILLMORE, UT 84631

MOAB CITY
c/o COMMUNICATIONS OFFICER
121 EAST CENTER STREET
MOAB, UT 84532

MOAB FIRE PROTECTION
c/o COMMUNICATIONS OFFICER
BOX 745
MOAB, UT 84532

MONROE POLICE DEPT.
c/o DWIGHT JENKINS
10 NORTH MAIN
MONROE, UT 84754

MONTEZUMA MEDICAL CLINIC
c/o COMMUNICATIONS OFFICER
COUNTY COURTHOUSE
MONTICELLO, UT 84535

MONTICELLO POLICE DEPT.
c/o KENT ADAIR
P. O. BOX 1058
MONTICELLO, UT 84535

MORGAN CO. SHERIFF'S OFFICE
c/o BURT HOLBROOK
48 WEST YOUNG STREET
MORGAN, UT 84050

MORONI CITY
c/o COMMUNICATIONS OFFICER
P. O. BOX 448
MORONI, UT 84646

MOTOR VEHICLE ENFORCEMENT DIV.
INVESTIGATIONS
c/o KRISTY AVERETT
1095 MOTOR AVENUE
SALT LAKE CITY, UT 84116

MOUNTAIN GREEN FIRE DEPT.
c/o COMMUNICATIONS OFFICER
4249 WEST BLUE JAY CIRCLE
MOUNTAIN GREEN, UT 84050

MOUNTAIN VIEW HOSPITAL
c/o COMMUNICATIONS OFFICER
1000 EAST HWY. 91
PAYSON, UT 84651

MOUNTAINWEST AMBULANCE
c/o COMMUNICATIONS OFFICER
855 25TH STREET
OGDEN, UT 84400

MT. PLEASANT POLICE DEPT.
c/o JOHN CHRISTENSEN
115 WEST MAIN STREET
MT. PLEASANT, UT 84647

MTN. VIEW VETERINARY CLINIC
c/o COMMUNICATIONS OFFICER
1702 NORTH 8TH EAST
LOGAN, UT 84321

MURRAY POLICE DEPT.
c/o KEN KILLIAN
5025 SOUTH STATE
MURRAY, UT 84107

NAPLES POLICE DEPT.
c/o EVERETT JOHNSON
1420 E. WEATHERBY DRIVE
NAPLES, UT 84078

NEBO SCHOOL DISTRICT
c/o COMMUNICATIONS OFFICER
350 SOUTH MAIN
SPANISH FORK, UT 84660

NEPHI POLICE DEPT.
c/o B. WAYNE HOLDRIDGE
21 EAST 100 NORTH
NEPHI, UT 84648

NEWCASTLE VOLUNTEER
c/o COMMUNICATIONS OFFICER
FIRE HOUSE MAIN STREET
NEWCASTLE, UT 84756

NO. CACHE VETERINARY SERVICE
c/o COMMUNICATIONS OFFICER
BOX 88
RICHMOND, UT 84333

NORM LEONHARDT
15 SOUTH MAIN
PROVIDENCE, UT 84332

NORTH LOGAN POLICE DEPT.
c/o PAUL LAMONT
2076 NORTH 1200 EAST
NORTH LOGAN, UT 84321

NORTH OGDEN POLICE DEPT.
c/o POLO AFUVAI
505 EAST 2600 NORTH
NORTH OGDEN, UT 84404

NORTH SALT LAKE POLICE DEPT.
c/o VAL WILSON
P. O. BOX 155
NORTH SALT LAKE, UT 84054

OFFICE OF RECOVERY SERVICES
c/o ALISON HOLLEY
P. O. BOX 45011
SALT LAKE CITY, UT 84145

OGDEN CITY SCHOOL DISTRICT
c/o COMMUNICATIONS OFFICER
2444 ADAMS AVENUE
OGDEN, UT 84400

OGDEN POLICE DEPT.
c/o JOE H. RITCHIE
2549 WASHINGTON BLVD.
OGDEN, UT 84401

ORANGEVILLE CITY
c/o COMMUNICATIONS OFFICER
P. O. BOX 677
ORANGEVILLE, UT 84536

OREM COMMUNITY HOSPITAL
c/o COMMUNICATIONS OFFICER
331 NORTH 400 WEST
OREM, UT 84057

OREM FIRE DEPT.
c/o COMMUNICATIONS OFFICER
56 NORTH STATE STREET
OREM, UT 84056

OREM POLICE DEPT.
c/o TED PEACOCK
56 NORTH STATE
OREM, UT 84057

P.O.S.T.
c/o BILL FLINK
4525 SOUTH 2700 WEST
SALT LAKE CITY, UT 84119

PANGUITCH POLICE DEPT.
c/o MARTIN NAY
P. O. BOX 370
PANGUITCH, UT 84759

PARGONAH CITY
c/o COMMUNICATIONS OFFICER
P. O. BOX 82
PARGONAH, UT 84760

PARK CITY POLICE DEPT.
c/o FRANK BELL
427 MAIN STREET
PARK CITY, UT 84060

PARK CITY SCHOOL DISTRICT
c/o COMMUNICATIONS OFFICER
2400 EAST HWY. 248
PARK CITY, UT 84060

PARK CITY SKI CORPORATION
c/o COMMUNICATIONS OFFICER
P. O. BOX 39
PARK CITY, UT 84060

PAROWAN POLICE DEPT.
c/o WAYNE TOWNSEND
P. O. BOX 388
PAROWAN, UT 84761

PAYSON POLICE DEPT.
c/o JAMES E. BOX
88 EAST 100 NORTH
PAYSON, UT 84651

PIONEER VALLEY HOSPITAL
c/o COMMUNICATIONS OFFICER
3460 SOUTH 4155 WEST
SALT LAKE CITY, UT 84120

PIUTE CO. SHERIFF'S OFFICE
c/o BRENT O. GOTTFREDSON
P. O. BOX 116
JUNCTION, UT 84740

PLAIN CITY POLICE DEPT.
c/o RICHARD STATLER
4375 WEST 2575 NORTH
PLAIN CITY, UT 84404

PLEASANT GROVE POLICE DEPT.
c/o MICHAEL FERRE
87 EAST 100 SOUTH
PLEASANT GROVE, UT 84062

PLEASANT VIEW POLICE DEPT.
c/o REX CRAGUN
500 WEST PLEASANT VIEW DRIVE
PLEASANT VIEW, UT 84404

PORT OF ENTRY
DEPARTMENT OF TRANSPORTATION
DRAWER 929
KANAB, UT 84741

POSTAL INSPECTOR IN CHARGE
c/o INSPECTOR PRESTON
P. O. BOX 400
SEATTLE, WA 98111

PRICE COMMUNICATIONS CENTER
c/o NANCY HANSEN
940 SOUTH CARBON AVENUE
PRICE, UT 84501

PRICE POLICE DEPT.
c/o ALEX SHILAOS
81 NORTH 200 EAST
PRICE, UT 84501

PRIMARY CHILDRENS HOSPITAL
c/o COMMUNICATIONS OFFICER
320 12TH AVENUE
SALT LAKE CITY, UT 84105

PROVIDENCE CITY
c/o COMMUNICATIONS OFFICER
15 SOUTH MAIN
PROVIDENCE, UT 84332

PROVO CITY POLICE DEPT.
c/o SWEN NIELSON
48 SOUTH 300 WEST
PROVO, UT 84603

RAWSEL FOX
c/o COMMUNICATIONS OFFICER
1765 LINCOLN LANE, #16
SALT LAKE CITY, UT 84124

REGION CENTERS
DEPT. OF CORRECTIONS
c/o MARILEE HOWELL
1141 SOUTH 2250 WEST
SALT LAKE CITY, UT 84104

REGULATORY LICENSING
DEPT. OF PUBLIC SAFETY
4501 SOUTH 2700 WEST
SALT LAKE CITY, UT 84119

RICH CO. SHERIFF'S OFFICE
c/o DAN COCKAYNE
P. O. BOX 38
RANDOLPH, UT 84064

RICHFIELD POLICE DEPT.
c/o MAYO JACOBSEN
P. O. BOX 371
RICHFIELD, UT 84701

RIVERDALE POLICE DEPT.
c/o GLEN CLARY
4459 SOUTH 700 WEST
RIVERDALE, UT 84405

RIVERTON CITY
c/o COMMUNICATIONS OFFICER
P. O. BOX 429
RIVERTON, UT 84064

ROOSEVELT POLICE DEPT.
c/o CECIL GURR
P. O. BOX 248
ROOSEVELT, UT 84066

ROY CITY POLICE DEPT.
c/o JUNIOR HAMMON
5051 SOUTH 1900 WEST
ROY, UT 84067

SALEM POLICE DEPT.
c/o DEAN WOLF
30 WEST 100 SOUTH
SALEM, UT 84653

SALINA POLICE DEPT.
c/o GORDON KIESEL
90 WEST MAIN
SALINA, UT 84654

SALT LAKE CITY POLICE DEPT.
c/o MIKE CHABRIES
450 SOUTH 3RD EAST
SALT LAKE CITY, UT 84111

SALT LAKE CO. FIRE DEPT.
c/o BOB TIMMERMAN
2001 SOUTH STATE STREET
SALT LAKE CITY, UT 84190

SALT LAKE CO. SHERIFF'S OFFICE
c/o PETE HAYWARD
437 SOUTH 2ND EAST
SALT LAKE CITY, UT 84111

SALT LAKE COMMUNITY COLLEGE
c/o BRENT GOODFELLOW
P. O. BOX 30808
SALT LAKE CITY, UT 84130

SALT LAKE HEADSTART
c/o COMMUNICATIONS OFFICER
1240 AMERICAN BEAUTY DR.
SALT LAKE CITY, UT 84116

SALT LAKE PUBLIC UTILITIES
c/o LE TRAN
1530 JEFFERSON STREET
SALT LAKE CITY, UT 84115

SALT LAKE SURGICAL CENTER
c/o COMMUNICATIONS OFFICER
617 EAST 3900 SOUTH
SALT LAKE CITY, UT 84107

SALT PALACE CENTER
c/o COMMUNICATIONS OFFICER
100 SOUTH WEST TEMPLE
SALT LAKE CITY, UT 84101

SAN JUAN CO. SHERIFF'S OFFICE
c/o CLAUDE LACY
P. O. BOX 788
MONTICELLO, UT 84535

SANDY POLICE DEPT.
c/o LARRY LUNNEN
598 EAST 9400 SOUTH
SANDY, UT 84070

SANPETE CO. SHERIFF'S OFFICE
c/o CHARLES RAMSEY
COUNTY COURTHOUSE
MANTI, UT 84642

SANPETE VALLEY HOSPITAL
c/o COMMUNICATIONS OFFICER
1100 SOUTH MEDICAL DRIVE
MT. PLEASANT, UT 84647

SANTA CLARA CITY
c/o COMMUNICATIONS OFFICER
2721 SANTA CLARA DRIVE
SANTA CLARA, UT 84765

SANTAQUIN POLICE DEPT.
c/o RALPH COOMS
68 EAST MAIN
SANTAQUIN, UT 84655

SCOFIELD
c/o MICHAEL BRANAGAN
BOX 38
SCOFIELD, UT 84538

SEN. ORRIN HATCH'S OFFICE
c/o DAVE PORTER
3438 WALLACE BENNETT BLDG.
SALT LAKE CITY, UT 84138

SEVIER CO. SHERIFF'S OFFICE
c/o JOHN L. MEACHAM
250 NORTH MAIN
RICHFIELD, UT 84701

SEVIER VALLEY HOSPITAL
c/o COMMUNICATIONS OFFICER
1100 NORTH MAIN
RICHFIELD, UT 84701

SGT. CRAIG BUTTS
c/o HILL AIR FORCE BASE
2849TH SPS/SPAI
HILL AIR FORCE, UT 84056

SNYDERVILLE BASIN
c/o COMMUNICATIONS OFFICER
3060 WEST RASMUSSEN ROAD
PARK CITY, UT 84060

SO. SALT LAKE POLICE DEPT.
c/o VAL BESS
44 EAST OAKLAND
SOUTH SALT LAKE, UT 84115

SOUTH DAVIS CITY
c/o COMMUNICATIONS OFFICER
P. O. BOX 39
BOUNTIFUL, UT 84087

SOUTH DAVIS COUNTY
c/o COMMUNICATIONS OFFICER
407 WEST 3100 SOUTH
BOUNTIFUL, UT 84010

SOUTH JORDAN POLICE DEPT.
c/o DUANE SUTHERLAND
11175 SOUTH REDWOOD ROAD
SOUTH JORDAN, UT 84065

SOUTH OGDEN POLICE DEPT.
c/o ALMA RICHINS
560 SOUTH 39TH STREET
SOUTH OGDEN, UT 84403

SOUTH SALT LAKE CITY
c/o COMMUNICATIONS OFFICER
2500 SOUTH STATE STREET
SALT LAKE CITY, UT 84115

SOUTHERN UTAH STATE COLLEGE
c/o BRENT CHANDLER
557 WEST CENTER
CEDAR CITY, UT 84720

SPANISH FORK POLICE DEPT.
c/o DEE ROSENBAUM
40 SOUTH MAIN
SPANISH FORK, UT 84660

SPRINGVILLE POLICE DEPT.
c/o LELAND BOWERS
45 SOUTH MAIN
SPRINGVILLE, UT 84663

ST. BENEDICTS HOSPITAL
c/o COMMUNICATIONS OFFICER
5475 SOUTH 500 EAST
OGDEN, UT 84403

ST. GEORGE FIRE DEPT.
c/o COMMUNICATIONS OFFICER
175 EAST 200 NORTH
ST. GEORGE, UT 84769

ST. GEORGE POLICE DEPT.
c/o JON R. POLLEI
175 EAST 200 NORTH
ST. GEORGE, UT 84770

ST. MARKS HOSPITAL
c/o COMMUNICATIONS OFFICER
1200 EAST 3900 SOUTH
SALT LAKE CITY, UT 84124

SUMMIT CO. SHERIFF'S OFFICE
c/o FRED ELEY
P. O. BOX 328
COALVILLE, UT 84017

SUNSET POLICE DEPT.
c/o BRUCE GUNDERSON
85 WEST 1800 NORTH
SUNSET, UT 84015

SYRACUSE POLICE DEPT.
c/o JOHN GARDINER
1751 SOUTH 2000 WEST
SYRACUSE, UT 84041

TIMPANOGOS ANIMAL HOSPITAL
c/o COMMUNICATIONS OFFICER
1299 WEST STATE RD.
PLEASANT GROVE, UT 84062

TOOELE ARMY DEPOT
RESOURCE MGT. & PLANNING DIV.
c/o MR. DEWAR
ARMY DEPOT
TOOELE, UT 84074

TOOELE CITY
c/o COMMUNICATIONS OFFICER
90 NORTH MAIN STREET
TOOELE, UT 84073

TOOELE CO. SHERIFF'S OFFICE
c/o DONALD K. PROCTOR
47 SOUTH MAIN
TOOELE, UT 84074

TOOELE POLICE DEPT.
c/o JESSE PETERSON
90 NORTH MAIN
TOOELE, UT 84074

TOWN OF ALTA
c/o COMMUNICATIONS OFFICER
671 EAST 9620 SOUTH
SANDY, UT 84070

TOWN OF ESCALANTE
c/o COMMUNICATIONS OFFICER
P. O. BOX 375
ESCALANTE, UT 84726

TOWN OF GENOLA
c/o COMMUNICATIONS OFFICER
RFD BOX 40E
GENOLA, UT 84655

TOWN OF HINCKLEY
c/o COMMUNICATIONS OFFICER
P. O. BOX 127
HINCKLEY, UT 84635

TOWN OF UINTAH
c/o COMMUNICATIONS OFFICER
2216 EAST 6550 SOUTH
UINTAH, UT 84404

TREMONTON POLICE DEPT.
c/o RONALD OGBORN
102 SOUTH TREMONT
TREMONTON, UT 84337

U.S. FOREST SERVICE
c/o JOHN ALBERT
324 25TH STREET
OGDEN, UT 84401

U.S. MARSHAL'S OFFICE
c/o MARSHAL DAN DOTSON
P. O. BOX 1234
SALT LAKE CITY, UT 84110

U.S. SECRET SERVICE
DEPT. OF THE TREASURY
c/o DIAN REKWARD
350 SOUTH MAIN, ROOM 421
SALT LAKE CITY, UT 84101

UINTAH CO. SHERIFF'S OFFICE
c/o DREW C. CHRISTIANSEN
152 EAST 100 NORTH
VERNAL, UT 84078

UNIVERSITY OF UTAH
c/o WAYNE SHEPHERD
BUILDING 622
SALT LAKE CITY, UT 84112

UTAH CO. SHERIFF'S OFFICE
c/o DAVID BATEMAN
1775 SOUTH DAKOTA LANE
PROVO, UT 84603

UTAH SEARCH AND RESCUE
c/o COMMUNICATIONS OFFICER
P. O. BOX 60
TOOELE, UT 84074

UTAH STATE UNIVERSITY
c/o LARRY ARAVE
UMC 5800
LOGAN, UT 84322

UTAH VALLEY COMMUNITY COLLEGE
c/o KATHY MARSHALL
936 SOUTH 400 WEST
OREM, UT 84058

UTAH WING CIVIL AIR PATROL
c/o COMMUNICATIONS OFFICER
640 NORTH 2360 WEST
SALT LAKE CITY, UT 84116

UTE INDIAN TRIBE
c/o COMMUNICATIONS OFFICER
P. O. BOX 90
FT. DUCHESNE, UT 84025

VALLEY VIEW MEDICAL CENTER
c/o COMMUNICATIONS OFFICER
595 SOUTH 75 EAST
CEDAR CITY, UT 84720

VERNAL POLICE DEPT.
c/o ROBERT DOWNARD
437 EAST MAIN
VERNAL, UT 84078

WASATCH CO. SHERIFF'S OFFICE
c/o EDWIN THACKER
25 NORTH MAIN
HEBER CITY, UT 84032

WASATCH COMMUNICATIONS CENTER
c/o SCOTT PEPPERDINE
14737 SOUTH MINUTEMAN ROAD
DRAPER, UT 84020

WASATCH COUNTY HOSPITAL
c/o COMMUNICATIONS OFFICER
55 SOUTH 5TH EAST
HEBER CITY, UT 84032

WASHINGTON CITY
c/o COMMUNICATIONS OFFICER
P. O. BOX A
WASHINGTON, UT 84780

WASHINGTON CO. SHERIFF'S OFFICE
c/o GLEN HUMPHRIES
205 NORTH 200 EAST
ST. GEORGE, UT 84770

WASHINGTON TERRACE POLICE DEPT.
c/o GARY TRACY
4425 SOUTH 275 EAST
OGDEN, UT 84405

WAYNE CO. SHERIFF'S OFFICE
c/o KERRY B. EKKER
COUNTY COURTHOUSE
LOA, UT 84747

WEBER CO. SHERIFF'S OFFICE
c/o GEORGE FISHER
2551 GRANT STREET
OGDEN, UT 84401

WEBER COUNTY ATTORNEY
c/o KIM STYBE
2549 WASHINGTON BLVD.
OGDEN, UT 84401

WEBER COUNTY HOSPITAL
c/o COMMUNICATIONS OFFICER
2700 WEST 5600 SOUTH
ROY, UT 84067

WEBER STATE COLLEGE
c/o LEE CASSITY
4040 TYLER AVENUE
OGDEN, UT 84408

WELLINGTON TOWN
c/o TOM OWINGS
P. O. BOX 556
WELLINGTON, UT 84542

WELLSVILLE CITY
75 SOUTH 100 EAST
WELLSVILLE, UT 84339

WENDOVER POLICE DEPT.
P. O. BOX 845
WENDOVER, UT 84083

WEST BOUNTIFUL POLICE DEPT.
c/o WAYNE JEPPSON
550 NORTH 800 WEST
WEST BOUNTIFUL, UT 84087

WEST JORDAN POLICE DEPT.
c/o CAL FARR
7839 SOUTH 2700 WEST
WEST JORDAN, UT 84084

WEST MILLARD HOSPITAL
c/o COMMUNICATIONS OFFICER
275 WEST 100 SOUTH
DELTA, UT 84624

WEST POINT CITY
c/o COMMUNICATIONS OFFICER
3016 WEST 300 NORTH
WEST POINT, UT 84015

WEST VALLEY POLICE DEPT.
c/o DENNIS NORDFELT
3600 CONSTITUTION BLVD.
WEST VALLEY, UT 84119

WOODS CROSS POLICE DEPT.
c/o NILES STAHLE
1555 SOUTH 800 WEST
WOODS CROSS, UT 84087

EXHIBIT III

Circlelization Plan

Sites and Assigned Channels

PIUTE	602	825	622	805	642					
BEAVER	823	604	803	624	783					
CARBON	602	825	622	805	642	823				
WAYNE	605	822	625	802	645	820				
WEBER	606	825	626	805	646	818	610	798	630	778
	612	816	632	796	652					
DAVIS	823	603	803	623	783	614	821	634	801	654
	814	616	794	636						
WASHINGTON	825	605	805	625	785	607	821	627		
DUCHESNE	817	613	797	633						
MORGAN	812	618	792							
SALT LAKE	605	819	625	799	645	810	607	790	627	770
	609	808	629	788	649	806	611	786	631	766
	620	781	641	761	661	779	638	759	658	
SANPETE	821	606	801	626						
IRON	819	609	799	629	779	611	817	632	796	
SEVIER	608	818	628	798	648	816	610	795		
CACHE	615	809	644	789	664	807				
GRAND	608	818	628	798						
UTAH	615	815	647	795	667	784	651	764	671	744
	653	777	673	757	693	775	655	755	675	735
UINTAH	616	814	644	794	664	812				
DAGGETT	610	825	630							
RICH	802	621	782	648						
EMERY	810	612	789	632	768					
WASATCH	663	773	683	752	783					
SAN JUAN	815	617	793	647	771	619	813	653		
GARFIELD	808	614	787	634	765	649	791			
KANE	621	801	657	777	678	775	623	755	659	735

Sites and Assigned Channels

MILLARD	613	814	633	793	654	812	
SUMMIT	669	768	689	748	709		
TOOELE	772	643	751	665	731	678	749
JUAB	683	824	623	804	657		
BOX ELDER	763	656	743	676	723	681	
STATEWIDE	729	685					

+ Border situation requiring odd channel numbers
* Old equipment requiring even channel numbers

Sites and Assigned Channels

PIUTE	602	622	642	805	825					
BEAVER	604	624	783	803	823					
CARBON	602	622	642	805	823	825				
WAYNE	605	625	645	802	820	822				
WEBER	606 798	610 805	612 816	626 818	630 825	632	646	652	778	796
DAVIS	603 803	614 814	616 821	623 823	634	636	654	783	794	801
WASHINGTON	605	607	625	627	785	805	821	825		
DUCHESNE	613	633	797	817						
MORGAN	618	792	812							
SALT LAKE	605 641 781	607 645 786	609 649 788	611 658 790	620 661 799	625 759 806	627 761 808	629 766 810	631 770 819	638 779
SANPETE	606	626	801	821						
IRON	609	611	629	632	779	796	799	817	819	
SEVIER	608	610	628	648	795	798	816	818		
CACHE	615	644	664	789	807	809				
GRAND	608	628	798	818						
UTAH	615 735	647 744	651 755	653 757	655 764	667 775	671 777	673 784	675 795	693 815
UINTAH	616	644	664	794	812	814				
DAGGETT	610	630	825							
RICH	621	648	782	802						
EMERY	612	632	768	789	810					
WASATCH	663	683	703	752	773					
SAN JUAN	617	619	647	653	771	793	813	815		
GARFIELD	614	634	649	765	787	791	808			
KANE	621	623	657	659	678	735	755	775	777	801

Sites and Assigned Channels

MILLARD	613	633	654	793	812	814	
SUMMIT	669	689	709	748	768		
TOOELE	643	665	678	731	749	751	772
JUAB	603	623	657	804	824		
BOX ELDER	656	676	681	723	743	763	
STATEWIDE	685	729					

+ Border situation requiring odd channel numbers
* Old equipment requiring even channel numbers

F.C.C. Channel Assignments

hannel Number	601 Mobile Frequency 821.0125 Mz	Base Frequency 866.0125 Mz	Mutual aid
hannel Number	602 Mobile Frequency 821.0375 Mz	Base Frequency 866.0375 Mz	PIUTE
hannel Number	602 Mobile Frequency 821.0375 Mz	Base Frequency 866.0375 Mz	CARBON
hannel Number	603 Mobile Frequency 821.0500 Mz	Base Frequency 866.0500 Mz	DAVIS
hannel Number	603 Mobile Frequency 821.0500 Mz	Base Frequency 866.0500 Mz	JUAB
hannel Number	604 Mobile Frequency 821.0625 Mz	Base Frequency 866.0625 Mz	BEAVER
Channel Number	605 Mobile Frequency 821.0750 Mz	Base Frequency 866.0750 Mz	WAYNE
Channel Number	605 Mobile Frequency 821.0750 Mz	Base Frequency 866.0750 Mz	WASHINGTON
Channel Number	605 Mobile Frequency 821.0750 Mz	Base Frequency 866.0750 Mz	SALT LAKE
Channel Number	606 Mobile Frequency 821.0875 Mz	Base Frequency 866.0875 Mz	WEBER
Channel Number	606 Mobile Frequency 821.0875 Mz	Base Frequency 866.0875 Mz	SANPETE
Channel Number	607 Mobile Frequency 821.1000 Mz	Base Frequency 866.1000 Mz	WASHINGTON
Channel Number	607 Mobile Frequency 821.1000 Mz	Base Frequency 866.1000 Mz	SALT LAKE
Channel Number	608 Mobile Frequency 821.1125 Mz	Base Frequency 866.1125 Mz	SEVIER
Channel Number	608 Mobile Frequency 821.1125 Mz	Base Frequency 866.1125 Mz	GRAND
Channel Number	609 Mobile Frequency 821.1250 Mz	Base Frequency 866.1250 Mz	SALT LAKE
Channel Number	609 Mobile Frequency 821.1250 Mz	Base Frequency 866.1250 Mz	IRON
Channel Number	610 Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	WEBER
Channel Number	610 Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	SEVIER
Channel Number	610 Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	DAGGETT
Channel Number	611 Mobile Frequency 821.1500 Mz	Base Frequency 866.1500 Mz	SALT LAKE
Channel Number	611 Mobile Frequency 821.1500 Mz	Base Frequency 866.1500 Mz	IRON
Channel Number	612 Mobile Frequency 821.1625 Mz	Base Frequency 866.1625 Mz	WEBER
Channel Number	612 Mobile Frequency 821.1625 Mz	Base Frequency 866.1625 Mz	EMERY
Channel Number	613 Mobile Frequency 821.1750 Mz	Base Frequency 866.1750 Mz	DUCHESNE
Channel Number	613 Mobile Frequency 821.1750 Mz	Base Frequency 866.1750 Mz	MILLARD
Channel Number	614 Mobile Frequency 821.1875 Mz	Base Frequency 866.1875 Mz	DAVIS
Channel Number	614 Mobile Frequency 821.1875 Mz	Base Frequency 866.1875 Mz	GARFIELD
Channel Number	615 Mobile Frequency 821.2000 Mz	Base Frequency 866.2000 Mz	CACHE
Channel Number	615 Mobile Frequency 821.2000 Mz	Base Frequency 866.2000 Mz	UTAH
Channel Number	616 Mobile Frequency 821.2125 Mz	Base Frequency 866.2125 Mz	DAVIS
Channel Number	616 Mobile Frequency 821.2125 Mz	Base Frequency 866.2125 Mz	UINTAH
Channel Number	617 Mobile Frequency 821.2250 Mz	Base Frequency 866.2250 Mz	SAN JUAN
Channel Number	618 Mobile Frequency 821.2375 Mz	Base Frequency 866.2375 Mz	MORGAN

Channel Number	619 Mobile Frequency 821.2500 Mz	Base Frequency 866.2500 Mz	SAN JUAN
Channel Number	620 Mobile Frequency 821.2625 Mz	Base Frequency 866.2625 Mz	SALT LAKE
Channel Number	621 Mobile Frequency 821.2750 Mz	Base Frequency 866.2750 Mz	RICH
Channel Number	621 Mobile Frequency 821.2750 Mz	Base Frequency 866.2750 Mz	KANE
Channel Number	622 Mobile Frequency 821.2875 Mz	Base Frequency 866.2875 Mz	PIUTE
Channel Number	622 Mobile Frequency 821.2875 Mz	Base Frequency 866.2875 Mz	CARBON
Channel Number	623 Mobile Frequency 821.3000 Mz	Base Frequency 866.3000 Mz	DAVIS
Channel Number	623 Mobile Frequency 821.3000 Mz	Base Frequency 866.3000 Mz	KANE
Channel Number	623 Mobile Frequency 821.3000 Mz	Base Frequency 866.3000 Mz	JUAB
Channel Number	624 Mobile Frequency 821.3125 Mz	Base Frequency 866.3125 Mz	BEAVER
Channel Number	625 Mobile Frequency 821.3250 Mz	Base Frequency 866.3250 Mz	WAYNE
Channel Number	625 Mobile Frequency 821.3250 Mz	Base Frequency 866.3250 Mz	WASHINGTON
Channel Number	625 Mobile Frequency 821.3250 Mz	Base Frequency 866.3250 Mz	SALT LAKE
Channel Number	626 Mobile Frequency 821.3375 Mz	Base Frequency 866.3375 Mz	WEBER
Channel Number	626 Mobile Frequency 821.3375 Mz	Base Frequency 866.3375 Mz	SANPETE
Channel Number	627 Mobile Frequency 821.3500 Mz	Base Frequency 866.3500 Mz	WASHINGTON
Channel Number	627 Mobile Frequency 821.3500 Mz	Base Frequency 866.3500 Mz	SALT LAKE
Channel Number	628 Mobile Frequency 821.3625 Mz	Base Frequency 866.3625 Mz	SEVIER
Channel Number	628 Mobile Frequency 821.3625 Mz	Base Frequency 866.3625 Mz	GRAND
Channel Number	629 Mobile Frequency 821.3750 Mz	Base Frequency 866.3750 Mz	SALT LAKE
Channel Number	629 Mobile Frequency 821.3750 Mz	Base Frequency 866.3750 Mz	IRON
Channel Number	630 Mobile Frequency 821.3875 Mz	Base Frequency 866.3875 Mz	WEBER
Channel Number	630 Mobile Frequency 821.3875 Mz	Base Frequency 866.3875 Mz	DAGGETT
Channel Number	631 Mobile Frequency 821.4000 Mz	Base Frequency 866.4000 Mz	SALT LAKE
Channel Number	632 Mobile Frequency 821.4125 Mz	Base Frequency 866.4125 Mz	WEBER
Channel Number	632 Mobile Frequency 821.4125 Mz	Base Frequency 866.4125 Mz	IRON
Channel Number	632 Mobile Frequency 821.4125 Mz	Base Frequency 866.4125 Mz	EMERY
Channel Number	633 Mobile Frequency 821.4250 Mz	Base Frequency 866.4250 Mz	DUCHESNE
Channel Number	633 Mobile Frequency 821.4250 Mz	Base Frequency 866.4250 Mz	MILLARD
Channel Number	634 Mobile Frequency 821.4375 Mz	Base Frequency 866.4375 Mz	DAVIS
Channel Number	634 Mobile Frequency 821.4375 Mz	Base Frequency 866.4375 Mz	GARFIELD
Channel Number	635 Mobile Frequency 821.4500 Mz	Base Frequency 866.4500 Mz	Unassigned
Channel Number	636 Mobile Frequency 821.4625 Mz	Base Frequency 866.4625 Mz	DAVIS
Channel Number	637 Mobile Frequency 821.4750 Mz	Base Frequency 866.4750 Mz	Unassigned
Channel Number	638 Mobile Frequency 821.4875 Mz	Base Frequency 866.4875 Mz	SALT LAKE

Channel Number	639 Mobile Frequency 821.5125 Mz	Base Frequency 866.5125 Mz	Mutual aid
Channel Number	640 Mobile Frequency 821.5375 Mz	Base Frequency 866.5375 Mz	Unassigned
Channel Number	641 Mobile Frequency 821.5500 Mz	Base Frequency 866.5500 Mz	SALT LAKE
Channel Number	642 Mobile Frequency 821.5625 Mz	Base Frequency 866.5625 Mz	PIUTE
Channel Number	642 Mobile Frequency 821.5625 Mz	Base Frequency 866.5625 Mz	CARBON
Channel Number	643 Mobile Frequency 821.5750 Mz	Base Frequency 866.5750 Mz	TOOELE
Channel Number	644 Mobile Frequency 821.5875 Mz	Base Frequency 866.5875 Mz	CACHE
Channel Number	644 Mobile Frequency 821.5875 Mz	Base Frequency 866.5875 Mz	UINTAH
Channel Number	645 Mobile Frequency 821.6000 Mz	Base Frequency 866.6000 Mz	WAYNE
Channel Number	645 Mobile Frequency 821.6000 Mz	Base Frequency 866.6000 Mz	SALT LAKE
Channel Number	646 Mobile Frequency 821.6125 Mz	Base Frequency 866.6125 Mz	WEBER
Channel Number	647 Mobile Frequency 821.6250 Mz	Base Frequency 866.6250 Mz	UTAH
Channel Number	647 Mobile Frequency 821.6250 Mz	Base Frequency 866.6250 Mz	SAN JUAN
Channel Number	648 Mobile Frequency 821.6375 Mz	Base Frequency 866.6375 Mz	SEVIER
Channel Number	648 Mobile Frequency 821.6375 Mz	Base Frequency 866.6375 Mz	RICH
Channel Number	649 Mobile Frequency 821.6500 Mz	Base Frequency 866.6500 Mz	SALT LAKE
Channel Number	649 Mobile Frequency 821.6500 Mz	Base Frequency 866.6500 Mz	GARFIELD
Channel Number	650 Mobile Frequency 821.6625 Mz	Base Frequency 866.6625 Mz	Unassigned
Channel Number	651 Mobile Frequency 821.6750 Mz	Base Frequency 866.6750 Mz	UTAH
Channel Number	652 Mobile Frequency 821.6875 Mz	Base Frequency 866.6875 Mz	WEBER
Channel Number	653 Mobile Frequency 821.7000 Mz	Base Frequency 866.7000 Mz	UTAH
Channel Number	653 Mobile Frequency 821.7000 Mz	Base Frequency 866.7000 Mz	SAN JUAN
Channel Number	654 Mobile Frequency 821.7125 Mz	Base Frequency 866.7125 Mz	DAVIS
Channel Number	654 Mobile Frequency 821.7125 Mz	Base Frequency 866.7125 Mz	MILLARD
Channel Number	655 Mobile Frequency 821.7250 Mz	Base Frequency 866.7250 Mz	UTAH
Channel Number	656 Mobile Frequency 821.7375 Mz	Base Frequency 866.7375 Mz	BOX ELDER
Channel Number	657 Mobile Frequency 821.7500 Mz	Base Frequency 866.7500 Mz	KANE
Channel Number	657 Mobile Frequency 821.7500 Mz	Base Frequency 866.7500 Mz	JUAB
Channel Number	658 Mobile Frequency 821.7625 Mz	Base Frequency 866.7625 Mz	SALT LAKE
Channel Number	659 Mobile Frequency 821.7750 Mz	Base Frequency 866.7750 Mz	KANE
Channel Number	660 Mobile Frequency 821.7875 Mz	Base Frequency 866.7875 Mz	Unassigned
Channel Number	661 Mobile Frequency 821.8000 Mz	Base Frequency 866.8000 Mz	SALT LAKE
Channel Number	662 Mobile Frequency 821.8125 Mz	Base Frequency 866.8125 Mz	Unassigned

Channel Number 663	Mobile Frequency 821.8250 Mz	Base Frequency 866.8250 Mz	WASATCH
Channel Number 664	Mobile Frequency 821.8375 Mz	Base Frequency 866.8375 Mz	CACHE
nnel Number 664	Mobile Frequency 821.8375 Mz	Base Frequency 866.8375 Mz	UINTAH
Channel Number 665	Mobile Frequency 821.8500 Mz	Base Frequency 866.8500 Mz	TOOELE
Channel Number 666	Mobile Frequency 821.8625 Mz	Base Frequency 866.8625 Mz	Unassigned
Channel Number 667	Mobile Frequency 821.8750 Mz	Base Frequency 866.8750 Mz	UTAH
Channel Number 668	Mobile Frequency 821.8875 Mz	Base Frequency 866.8875 Mz	Unassigned
Channel Number 669	Mobile Frequency 821.9000 Mz	Base Frequency 866.9000 Mz	SUMMIT
Channel Number 670	Mobile Frequency 821.9125 Mz	Base Frequency 866.9125 Mz	Unassigned
Channel Number 671	Mobile Frequency 821.9250 Mz	Base Frequency 866.9250 Mz	UTAH
Channel Number 672	Mobile Frequency 821.9375 Mz	Base Frequency 866.9375 Mz	Unassigned
Channel Number 673	Mobile Frequency 821.9500 Mz	Base Frequency 866.9500 Mz	UTAH
Channel Number 674	Mobile Frequency 821.9625 Mz	Base Frequency 866.9625 Mz	Unassigned
Channel Number 675	Mobile Frequency 821.9750 Mz	Base Frequency 866.9750 Mz	UTAH
Channel Number 676	Mobile Frequency 821.9875 Mz	Base Frequency 866.9875 Mz	BOX ELDER

annel Number 677	Mobile Frequency 822.0125 Mz	Base Frequency 867.0125 Mz	Mutual aid
annel Number 678	Mobile Frequency 822.0375 Mz	Base Frequency 867.0375 Mz	KANE
annel Number 678	Mobile Frequency 822.0375 Mz	Base Frequency 867.0375 Mz	TOOELE
annel Number 679	Mobile Frequency 822.0500 Mz	Base Frequency 867.0500 Mz	Unassigned
annel Number 680	Mobile Frequency 822.0625 Mz	Base Frequency 867.0625 Mz	Unassigned
annel Number 681	Mobile Frequency 822.0750 Mz	Base Frequency 867.0750 Mz	BOX ELDER
annel Number 682	Mobile Frequency 822.0875 Mz	Base Frequency 867.0875 Mz	Unassigned
hannel Number 683	Mobile Frequency 822.1000 Mz	Base Frequency 867.1000 Mz	WASATCH
hannel Number 684	Mobile Frequency 822.1125 Mz	Base Frequency 867.1125 Mz	Unassigned
Channel Number 685	Mobile Frequency 822.1250 Mz	Base Frequency 867.1250 Mz	STATEWIDE
Channel Number 686	Mobile Frequency 822.1375 Mz	Base Frequency 867.1375 Mz	Unassigned
Channel Number 687	Mobile Frequency 822.1500 Mz	Base Frequency 867.1500 Mz	Unassigned
Channel Number 688	Mobile Frequency 822.1625 Mz	Base Frequency 867.1625 Mz	Unassigned
Channel Number 689	Mobile Frequency 822.1750 Mz	Base Frequency 867.1750 Mz	SUMMIT
Channel Number 690	Mobile Frequency 822.1875 Mz	Base Frequency 867.1875 Mz	Unassigned
Channel Number 691	Mobile Frequency 822.2000 Mz	Base Frequency 867.2000 Mz	Unassigned
Channel Number 692	Mobile Frequency 822.2125 Mz	Base Frequency 867.2125 Mz	Unassigned
Channel Number 693	Mobile Frequency 822.2250 Mz	Base Frequency 867.2250 Mz	UTAH
Channel Number 694	Mobile Frequency 822.2375 Mz	Base Frequency 867.2375 Mz	Unassigned
Channel Number 695	Mobile Frequency 822.2500 Mz	Base Frequency 867.2500 Mz	Unassigned
Channel Number 696	Mobile Frequency 822.2625 Mz	Base Frequency 867.2625 Mz	Unassigned
Channel Number 697	Mobile Frequency 822.2750 Mz	Base Frequency 867.2750 Mz	Unassigned
Channel Number 698	Mobile Frequency 822.2875 Mz	Base Frequency 867.2875 Mz	Unassigned
Channel Number 699	Mobile Frequency 822.3000 Mz	Base Frequency 867.3000 Mz	Unassigned
Channel Number 700	Mobile Frequency 822.3125 Mz	Base Frequency 867.3125 Mz	Unassigned
Channel Number 701	Mobile Frequency 822.3250 Mz	Base Frequency 867.3250 Mz	Unassigned
Channel Number 702	Mobile Frequency 822.3375 Mz	Base Frequency 867.3375 Mz	Unassigned
Channel Number 703	Mobile Frequency 822.3500 Mz	Base Frequency 867.3500 Mz	WASATCH
Channel Number 704	Mobile Frequency 822.3625 Mz	Base Frequency 867.3625 Mz	Unassigned

Channel Number 705	Mobile Frequency 822.3750 Mz	Base Frequency 867.3750 Mz	Unassigned
Channel Number 706	Mobile Frequency 822.3875 Mz	Base Frequency 867.3875 Mz	Unassigned
Channel Number 707	Mobile Frequency 822.4000 Mz	Base Frequency 867.4000 Mz	Unassigned
Channel Number 708	Mobile Frequency 822.4125 Mz	Base Frequency 867.4125 Mz	Unassigned
Channel Number 709	Mobile Frequency 822.4250 Mz	Base Frequency 867.4250 Mz	SUMMIT
Channel Number 710	Mobile Frequency 822.4375 Mz	Base Frequency 867.4375 Mz	Unassigned
Channel Number 711	Mobile Frequency 822.4500 Mz	Base Frequency 867.4500 Mz	Unassigned
Channel Number 712	Mobile Frequency 822.4625 Mz	Base Frequency 867.4625 Mz	Unassigned
Channel Number 713	Mobile Frequency 822.4750 Mz	Base Frequency 867.4750 Mz	Unassigned
Channel Number 714	Mobile Frequency 822.4875 Mz	Base Frequency 867.4875 Mz	Unassigned

Channel Number 715	Mobile Frequency 822.5125 Mz	Base Frequency 867.5125 Mz	Mutual aid
Channel Number 716	Mobile Frequency 822.5375 Mz	Base Frequency 867.5375 Mz	Unassigned
Channel Number 717	Mobile Frequency 822.5500 Mz	Base Frequency 867.5500 Mz	Unassigned
Channel Number 718	Mobile Frequency 822.5625 Mz	Base Frequency 867.5625 Mz	Unassigned
Channel Number 719	Mobile Frequency 822.5750 Mz	Base Frequency 867.5750 Mz	Unassigned
Channel Number 720	Mobile Frequency 822.5875 Mz	Base Frequency 867.5875 Mz	Unassigned
Channel Number 721	Mobile Frequency 822.6000 Mz	Base Frequency 867.6000 Mz	Unassigned
Channel Number 722	Mobile Frequency 822.6125 Mz	Base Frequency 867.6125 Mz	Unassigned
Channel Number 723	Mobile Frequency 822.6250 Mz	Base Frequency 867.6250 Mz	BOX ELDER
Channel Number 724	Mobile Frequency 822.6375 Mz	Base Frequency 867.6375 Mz	Unassigned
Channel Number 725	Mobile Frequency 822.6500 Mz	Base Frequency 867.6500 Mz	Unassigned
Channel Number 726	Mobile Frequency 822.6625 Mz	Base Frequency 867.6625 Mz	Unassigned
Channel Number 727	Mobile Frequency 822.6750 Mz	Base Frequency 867.6750 Mz	Unassigned
Channel Number 728	Mobile Frequency 822.6875 Mz	Base Frequency 867.6875 Mz	Unassigned
Channel Number 729	Mobile Frequency 822.7000 Mz	Base Frequency 867.7000 Mz	STATEWIDE
Channel Number 730	Mobile Frequency 822.7125 Mz	Base Frequency 867.7125 Mz	Unassigned
Channel Number 731	Mobile Frequency 822.7250 Mz	Base Frequency 867.7250 Mz	TOOELE
Channel Number 732	Mobile Frequency 822.7375 Mz	Base Frequency 867.7375 Mz	Unassigned
Channel Number 733	Mobile Frequency 822.7500 Mz	Base Frequency 867.7500 Mz	Unassigned
Channel Number 734	Mobile Frequency 822.7625 Mz	Base Frequency 867.7625 Mz	Unassigned
Channel Number 735	Mobile Frequency 822.7750 Mz	Base Frequency 867.7750 Mz	UTAH
Channel Number 735	Mobile Frequency 822.7750 Mz	Base Frequency 867.7750 Mz	KANE
Channel Number 736	Mobile Frequency 822.7875 Mz	Base Frequency 867.7875 Mz	Unassigned
Channel Number 737	Mobile Frequency 822.8000 Mz	Base Frequency 867.8000 Mz	Unassigned
Channel Number 738	Mobile Frequency 822.8125 Mz	Base Frequency 867.8125 Mz	Unassigned
Channel Number 739	Mobile Frequency 822.8250 Mz	Base Frequency 867.8250 Mz	Unassigned
Channel Number 740	Mobile Frequency 822.8375 Mz	Base Frequency 867.8375 Mz	Unassigned
Channel Number 741	Mobile Frequency 822.8500 Mz	Base Frequency 867.8500 Mz	Unassigned
Channel Number 742	Mobile Frequency 822.8625 Mz	Base Frequency 867.8625 Mz	Unassigned

Channel Number 743	Mobile Frequency 822.8750 Mz	Base Frequency 867.8750 Mz	BOX ELDER
[illegible]nnel Number 744	Mobile Frequency 822.8875 Mz	Base Frequency 867.8875 Mz	UTAH
[illegible]nel Number 745	Mobile Frequency 822.9000 Mz	Base Frequency 867.9000 Mz	Unassigned
Channel Number 746	Mobile Frequency 822.9125 Mz	Base Frequency 867.9125 Mz	Unassigned
Channel Number 747	Mobile Frequency 822.9250 Mz	Base Frequency 867.9250 Mz	Unassigned
Channel Number 748	Mobile Frequency 822.9375 Mz	Base Frequency 867.9375 Mz	SUMMIT
Channel Number 749	Mobile Frequency 822.9500 Mz	Base Frequency 867.9500 Mz	TOOELE
Channel Number 750	Mobile Frequency 822.9625 Mz	Base Frequency 867.9625 Mz	Unassigned
Channel Number 751	Mobile Frequency 822.9750 Mz	Base Frequency 867.9750 Mz	TOOELE
Channel Number 752	Mobile Frequency 822.9875 Mz	Base Frequency 867.9875 Mz	WASATCH

Channel Number 753	Mobile Frequency 823.0125 Mz	Base Frequency 868.0125 Mz	Mutual aid
Channel Number 754	Mobile Frequency 823.0375 Mz	Base Frequency 868.0375 Mz	Unassigned
Channel Number 755	Mobile Frequency 823.0500 Mz	Base Frequency 868.0500 Mz	UTAH
Channel Number 755	Mobile Frequency 823.0500 Mz	Base Frequency 868.0500 Mz	KANE
Channel Number 756	Mobile Frequency 823.0625 Mz	Base Frequency 868.0625 Mz	Unassigned
Channel Number 757	Mobile Frequency 823.0750 Mz	Base Frequency 868.0750 Mz	UTAH
Channel Number 758	Mobile Frequency 823.0875 Mz	Base Frequency 868.0875 Mz	Unassigned
Channel Number 759	Mobile Frequency 823.1000 Mz	Base Frequency 868.1000 Mz	SALT LAKE
Channel Number 760	Mobile Frequency 823.1125 Mz	Base Frequency 868.1125 Mz	Unassigned
Channel Number 761	Mobile Frequency 823.1250 Mz	Base Frequency 868.1250 Mz	SALT LAKE
Channel Number 762	Mobile Frequency 823.1375 Mz	Base Frequency 868.1375 Mz	Unassigned
Channel Number 763	Mobile Frequency 823.1500 Mz	Base Frequency 868.1500 Mz	BOX ELDER
Channel Number 764	Mobile Frequency 823.1625 Mz	Base Frequency 868.1625 Mz	UTAH
Channel Number 765	Mobile Frequency 823.1750 Mz	Base Frequency 868.1750 Mz	GARFIELD
Channel Number 766	Mobile Frequency 823.1875 Mz	Base Frequency 868.1875 Mz	SALT LAKE
Channel Number 767	Mobile Frequency 823.2000 Mz	Base Frequency 868.2000 Mz	Unassigned
Channel Number 768	Mobile Frequency 823.2125 Mz	Base Frequency 868.2125 Mz	EMERY
Channel Number 768	Mobile Frequency 823.2125 Mz	Base Frequency 868.2125 Mz	SUMMIT
Channel Number 769	Mobile Frequency 823.2250 Mz	Base Frequency 868.2250 Mz	Unassigned
Channel Number 770	Mobile Frequency 823.2375 Mz	Base Frequency 868.2375 Mz	SALT LAKE
Channel Number 771	Mobile Frequency 823.2500 Mz	Base Frequency 868.2500 Mz	SAN JUAN
Channel Number 772	Mobile Frequency 823.2625 Mz	Base Frequency 868.2625 Mz	TOOELE
Channel Number 773	Mobile Frequency 823.2750 Mz	Base Frequency 868.2750 Mz	WASATCH
Channel Number 774	Mobile Frequency 823.2875 Mz	Base Frequency 868.2875 Mz	Unassigned
Channel Number 775	Mobile Frequency 823.3000 Mz	Base Frequency 868.3000 Mz	UTAH
Channel Number 775	Mobile Frequency 823.3000 Mz	Base Frequency 868.3000 Mz	KANE
Channel Number 776	Mobile Frequency 823.3125 Mz	Base Frequency 868.3125 Mz	Unassigned
Channel Number 777	Mobile Frequency 823.3250 Mz	Base Frequency 868.3250 Mz	UTAH
Channel Number 777	Mobile Frequency 823.3250 Mz	Base Frequency 868.3250 Mz	KANE
Channel Number 778	Mobile Frequency 823.3375 Mz	Base Frequency 868.3375 Mz	WEBER
Channel Number 779	Mobile Frequency 823.3500 Mz	Base Frequency 868.3500 Mz	SALT LAKE
Channel Number 779	Mobile Frequency 823.3500 Mz	Base Frequency 868.3500 Mz	IRON

Channel Number 780	Mobile Frequency 823.3625 Mz	Base Frequency 868.3625 Mz	Unassigned
Channel Number 781	Mobile Frequency 823.3750 Mz	Base Frequency 868.3750 Mz	SALT LAKE
Channel Number 782	Mobile Frequency 823.3875 Mz	Base Frequency 868.3875 Mz	RICH
Channel Number 783	Mobile Frequency 823.4000 Mz	Base Frequency 868.4000 Mz	BEAVER
Channel Number 783	Mobile Frequency 823.4000 Mz	Base Frequency 868.4000 Mz	DAVIS
Channel Number 784	Mobile Frequency 823.4125 Mz	Base Frequency 868.4125 Mz	UTAH
Channel Number 785	Mobile Frequency 823.4250 Mz	Base Frequency 868.4250 Mz	WASHINGTON
Channel Number 786	Mobile Frequency 823.4375 Mz	Base Frequency 868.4375 Mz	SALT LAKE
Channel Number 787	Mobile Frequency 823.4500 Mz	Base Frequency 868.4500 Mz	GARFIELD
Channel Number 788	Mobile Frequency 823.4625 Mz	Base Frequency 868.4625 Mz	SALT LAKE
Channel Number 789	Mobile Frequency 823.4750 Mz	Base Frequency 868.4750 Mz	CACHE
Channel Number 789	Mobile Frequency 823.4750 Mz	Base Frequency 868.4750 Mz	EMERY
Channel Number 790	Mobile Frequency 823.4875 Mz	Base Frequency 868.4875 Mz	SALT LAKE

Channel Number	791 Mobile Frequency 823.5000 Mz	Base Frequency 868.5000 Mz	GARFIELD
Channel Number	792 Mobile Frequency 823.5125 Mz	Base Frequency 868.5125 Mz	MORGAN
Channel Number	793 Mobile Frequency 823.5250 Mz	Base Frequency 868.5250 Mz	SAN JUAN
Channel Number	793 Mobile Frequency 823.5250 Mz	Base Frequency 868.5250 Mz	MILLARD
Channel Number	794 Mobile Frequency 823.5375 Mz	Base Frequency 868.5375 Mz	DAVIS
Channel Number	794 Mobile Frequency 823.5375 Mz	Base Frequency 868.5375 Mz	UINTAH
Channel Number	795 Mobile Frequency 823.5500 Mz	Base Frequency 868.5500 Mz	SEVIER
Channel Number	795 Mobile Frequency 823.5500 Mz	Base Frequency 868.5500 Mz	UTAH
Channel Number	796 Mobile Frequency 823.5625 Mz	Base Frequency 868.5625 Mz	WEBER
Channel Number	796 Mobile Frequency 823.5625 Mz	Base Frequency 868.5625 Mz	IRON
Channel Number	797 Mobile Frequency 823.5750 Mz	Base Frequency 868.5750 Mz	DUCHESNE
Channel Number	798 Mobile Frequency 823.5875 Mz	Base Frequency 868.5875 Mz	WEBER
Channel Number	798 Mobile Frequency 823.5875 Mz	Base Frequency 868.5875 Mz	SEVIER
Channel Number	798 Mobile Frequency 823.5875 Mz	Base Frequency 868.5875 Mz	GRAND
Channel Number	799 Mobile Frequency 823.6000 Mz	Base Frequency 868.6000 Mz	SALT LAKE
Channel Number	799 Mobile Frequency 823.6000 Mz	Base Frequency 868.6000 Mz	IRON
Channel Number	800 Mobile Frequency 823.6125 Mz	Base Frequency 868.6125 Mz	Unassigned
Channel Number	801 Mobile Frequency 823.6250 Mz	Base Frequency 868.6250 Mz	DAVIS
Channel Number	801 Mobile Frequency 823.6250 Mz	Base Frequency 868.6250 Mz	SANPETE
Channel Number	801 Mobile Frequency 823.6250 Mz	Base Frequency 868.6250 Mz	KANE
Channel Number	802 Mobile Frequency 823.6375 Mz	Base Frequency 868.6375 Mz	WAYNE
Channel Number	802 Mobile Frequency 823.6375 Mz	Base Frequency 868.6375 Mz	RICH
Channel Number	803 Mobile Frequency 823.6500 Mz	Base Frequency 868.6500 Mz	BEAVER
Channel Number	803 Mobile Frequency 823.6500 Mz	Base Frequency 868.6500 Mz	DAVIS
Channel Number	804 Mobile Frequency 823.6625 Mz	Base Frequency 868.6625 Mz	JUAB
Channel Number	805 Mobile Frequency 823.6750 Mz	Base Frequency 868.6750 Mz	PIUTE
Channel Number	805 Mobile Frequency 823.6750 Mz	Base Frequency 868.6750 Mz	CARBON
Channel Number	805 Mobile Frequency 823.6750 Mz	Base Frequency 868.6750 Mz	WEBER
Channel Number	805 Mobile Frequency 823.6750 Mz	Base Frequency 868.6750 Mz	WASHINGTON
Channel Number	806 Mobile Frequency 823.6875 Mz	Base Frequency 868.6875 Mz	SALT LAKE
Channel Number	807 Mobile Frequency 823.7000 Mz	Base Frequency 868.7000 Mz	CACHE
Channel Number	808 Mobile Frequency 823.7125 Mz	Base Frequency 868.7125 Mz	SALT LAKE
Channel Number	808 Mobile Frequency 823.7125 Mz	Base Frequency 868.7125 Mz	GARFIELD
Channel Number	809 Mobile Frequency 823.7250 Mz	Base Frequency 868.7250 Mz	CACHE
Channel Number	810 Mobile Frequency 823.7375 Mz	Base Frequency 868.7375 Mz	SALT LAKE
Channel Number	810 Mobile Frequency 823.7375 Mz	Base Frequency 868.7375 Mz	EMERY
Channel Number	811 Mobile Frequency 823.7500 Mz	Base Frequency 868.7500 Mz	Unassigned

Channel Number	812 Mobile Frequency 823.7625 Mz	Base Frequency 868.7625 Mz	MORGAN
Channel Number	812 Mobile Frequency 823.7625 Mz	Base Frequency 868.7625 Mz	UINTAH
Channel Number	812 Mobile Frequency 823.7625 Mz	Base Frequency 868.7625 Mz	MILLARD
annel Number	813 Mobile Frequency 823.7750 Mz	Base Frequency 868.7750 Mz	SAN JUAN
Channel Number	814 Mobile Frequency 823.7875 Mz	Base Frequency 868.7875 Mz	DAVIS
Channel Number	814 Mobile Frequency 823.7875 Mz	Base Frequency 868.7875 Mz	UINTAH
Channel Number	814 Mobile Frequency 823.7875 Mz	Base Frequency 868.7875 Mz	MILLARD
Channel Number	815 Mobile Frequency 823.8000 Mz	Base Frequency 868.8000 Mz	UTAH
Channel Number	815 Mobile Frequency 823.8000 Mz	Base Frequency 868.8000 Mz	SAN JUAN
Channel Number	816 Mobile Frequency 823.8125 Mz	Base Frequency 868.8125 Mz	WEBER
Channel Number	816 Mobile Frequency 823.8125 Mz	Base Frequency 868.8125 Mz	SEVIER
Channel Number	817 Mobile Frequency 823.8250 Mz	Base Frequency 868.8250 Mz	DUCHESNE
Channel Number	817 Mobile Frequency 823.8250 Mz	Base Frequency 868.8250 Mz	IRON
Channel Number	818 Mobile Frequency 823.8375 Mz	Base Frequency 868.8375 Mz	WEBER
Channel Number	818 Mobile Frequency 823.8375 Mz	Base Frequency 868.8375 Mz	SEVIER
Channel Number	818 Mobile Frequency 823.8375 Mz	Base Frequency 868.8375 Mz	GRAND
Channel Number	819 Mobile Frequency 823.8500 Mz	Base Frequency 868.8500 Mz	SALT LAKE
Channel Number	819 Mobile Frequency 823.8500 Mz	Base Frequency 868.8500 Mz	IRON
Channel Number	820 Mobile Frequency 823.8625 Mz	Base Frequency 868.8625 Mz	WAYNE
annel Number	821 Mobile Frequency 823.8750 Mz	Base Frequency 868.8750 Mz	DAVIS
nnel Number	821 Mobile Frequency 823.8750 Mz	Base Frequency 868.8750 Mz	WASHINGTON
annel Number	821 Mobile Frequency 823.8750 Mz	Base Frequency 868.8750 Mz	SANPETE
Channel Number	822 Mobile Frequency 823.8875 Mz	Base Frequency 868.8875 Mz	WAYNE
Channel Number	823 Mobile Frequency 823.9000 Mz	Base Frequency 868.9000 Mz	BEAVER
Channel Number	823 Mobile Frequency 823.9000 Mz	Base Frequency 868.9000 Mz	CARBON
Channel Number	823 Mobile Frequency 823.9000 Mz	Base Frequency 868.9000 Mz	DAVIS
Channel Number	824 Mobile Frequency 823.9125 Mz	Base Frequency 868.9125 Mz	JUAB
Channel Number	825 Mobile Frequency 823.9250 Mz	Base Frequency 868.9250 Mz	PIUTE
Channel Number	825 Mobile Frequency 823.9250 Mz	Base Frequency 868.9250 Mz	CARBON
Channel Number	825 Mobile Frequency 823.9250 Mz	Base Frequency 868.9250 Mz	WEBER
Channel Number	825 Mobile Frequency 823.9250 Mz	Base Frequency 868.9250 Mz	WASHINGTON
Channel Number	825 Mobile Frequency 823.9250 Mz	Base Frequency 868.9250 Mz	DAGGETT
Channel Number	826 Mobile Frequency 823.9375 Mz	Base Frequency 868.9375 Mz	Unassigned
Channel Number	827 Mobile Frequency 823.9500 Mz	Base Frequency 868.9500 Mz	Unassigned
Channel Number	828 Mobile Frequency 823.9625 Mz	Base Frequency 868.9625 Mz	Unassigned
Channel Number	829 Mobile Frequency 823.9750 Mz	Base Frequency 868.9750 Mz	Unassigned
annel Number	830 Mobile Frequency 823.9875 Mz	Base Frequency 868.9875 Mz	Unassigned

Maximum field strength for co-channel operation is 5.00 Dbu

Maximum field strength for adj.-channel operation is 25.00 Dbu

Iterations required for solution = 1

Number of channels used for solution = 224

Total number of channels assigned = 225

Total number of unassigned channels = 84

Total number of reserved channels = 0

Total number of co-channels assigned = 84

Probability of interference with the nearest :

* Co-channel user is between 0 % and 1 % .
* Adj.-channel user is between 0 % and 1 % .

* Estimated assuming a 40 Dbu signal at the boundary.

Sites and Excluded Channels

PIUTE	none
BEAVER	733 734 735 774 775 776 809 810 811
CARBON	606 636 638 674 676 712 714 750 752 769 777 788 790 828 830
WAYNE	610 636 638 674 676 712 714 748 750 752 766 768 773 788 790 828 830
WEBER	602 603 604 605 607 608 609 611 627 628 629 631 640 641 642 643 651 678 679 680 681 701 702 703 714 716 717 718 719 721 722 723 738 741 742 743 754 755 756 757 819 820 821 822 823
DAVIS	602 604 608 628 640 642 678 680 702 716 718 722 742 754 756 820 822
WASHINGTON	602 603 604 612 613 614 615 616 618 619 620 630 631 632 634 635 636 637 638 640 641 642 643 644 650 651 652 654 655 656 668 669 670 674 675 676 680 681 682 688 689 690 706 707 708 712 713 714 718 719 720 726 727 728 733 734 735 744 745 746 749 750 751 752 765 766 767 772 773 774 775 776 781 782 783 788 789 790 796 797 798 809 810 811 812 813 814 822 823 824 828 829 830
DUCHESNE	602 603 604 605 606 607 608 609 611 625 626 627 628 629 631 636 638 640 641 642

Sites and Excluded Channels

643 645 646 647 651 674 675 676 678 679

680 681 696 697 698 701 702 703 712 714

716 717 718 719 721 722 723 730 731 732

738 741 742 743 750 752 754 755 756 757

769 777 788 790 819 820 821 822 823 828

830

MORGAN

602 603 604 605 607 608 609 611 627 628

629 631 640 641 642 643 651 678 679 680

681 701 702 703 714 716 717 718 719 721

722 723 738 741 742 743 754 755 756 757

819 820 821 822 823

SALT LAKE

602 604 608 628 640 642 678 680 702 716

718 722 742 754 756 820 822

SANPETE

none

IRON

603 613 615 619 631 635 637 640 643 651

655 669 675 681 689 707 713 719 727 733

734 735 745 750 751 766 773 774 775 776

782 789 797 809 810 811 813 823 829

SEVIER

none

CACHE

602 603 604 605 607 608 609 610 611 612

627 628 629 630 631 632 640 641 642 643

650 651 652 678 679 680 681 701 702 703

713 714 716 717 718 719 721 722 723 737

738 739 741 742 743 754 755 756 757 819

820 821 822 823

Sites and Excluded Channels

GRAND	604 605 606 607 609 610 611 635 636 637
	638 673 674 675 676 711 712 713 714 747
	748 749 750 751 752 766 767 768 769 770
	772 773 774 775 777 787 788 789 790 791
	827 828 829 830
UTAH	602 604 608 628 640 642 678 680 702 716
	718 722 742 754 756 820 822
UINTAH	602 603 604 605 606 607 608 609 610 611
	625 626 627 628 629 635 636 637 638 640
	641 642 643 645 646 647 673 674 675 676
	678 679 680 681 696 697 698 701 702 703
	711 712 713 714 716 717 718 719 721 722
	723 730 731 732 741 742 743 747 748 749
	750 751 752 754 755 756 757 768 769 770
	772 773 774 776 777 778 787 788 789 790
	791 819 820 821 822 823 827 828 829 830
DAGGETT	602 603 604 605 606 607 608 609 611 625
	626 627 628 629 631 635 636 637 638 640
	641 642 643 645 646 647 651 673 674 675
	676 678 679 680 681 696 697 698 701 702
	703 711 712 713 714 716 717 718 719 721
	722 723 730 731 732 738 741 742 743 749
	750 751 752 754 755 756 757 769 776 777
	778 787 788 789 790 791 819 820 821 822

Sites and Excluded Channels

	823 827 828 829 830
RICH	602 603 604 605 606 607 608 609 610 611
	612 626 627 628 629 630 631 632 640 641
	642 643 646 649 650 651 652 676 678 679
	680 681 697 701 702 703 713 714 716 717
	718 719 720 721 722 723 731 737 738 739
	740 741 742 743 754 755 756 757 819 820
	821 822 823
EMERY	610 636 638 674 676 712 714 748 750 752
	769 773 788 790 828 830
WASATCH	602 604 608 628 640 642 678 680 702 716
	718 722 742 754 756 820 822
SAN JUAN	602 603 604 605 606 607 608 609 610 611
	612 613 614 615 616 627 628 629 630 631
	632 634 635 636 637 638 640 641 642 643
	644 649 650 651 652 668 669 670 673 674
	675 676 680 681 682 688 689 690 706 707
	708 711 712 713 714 718 719 720 726 727
	728 744 745 746 747 748 749 750 751 752
	765 766 767 768 769 772 773 774 775 780
	781 782 783 787 788 789 790 791 796 797
	798 799 800 801 802 810 811 812 818 819
	820 821 822 823 824 827 828 829 830
GARFIELD	603 610 613 615 619 630 631 635 636 637
	638 640 643 650 651 655 669 674 675 676

Sites and Excluded Channels

	681 689 707 712 713 714 719 727 745 750
	751 752 766 768 773 782 788 789 790 797
	799 811 813 819 823 828 829 830
KANE	602 603 604 609 610 611 612 613 614 615
	616 618 619 620 629 630 631 632 634 635
	636 637 638 640 641 642 643 644 649 650
	651 652 654 655 656 668 669 670 674 675
	676 680 681 682 688 689 690 706 707 708
	712 713 714 718 719 720 726 727 728 744
	745 746 749 750 751 752 765 766 767 772
	773 774 781 782 783 788 789 790 796 797
	798 799 800 810 811 812 813 814 818 819
	820 822 823 824 828 829 830
MILLARD	733 734 735 774 775 776 809 810 811
SUMMIT	602 603 604 605 606 607 608 609 611 625
	626 627 628 629 631 636 638 640 641 642
	643 645 646 647 651 674 675 676 678 679
	680 681 696 697 698 701 702 703 712 714
	716 717 718 719 721 722 723 730 731 732
	738 741 742 743 750 752 754 755 756 757
	777 788 790 819 820 821 822 823 828 830
TOOELE	733 734 735 774 775 776 809 810 811
TUAB	733 734 735 774 775 776 809 810 811
BOX ELDER	602 604 608 611 628 631 640 642 651 678

Sites and Excluded Channels

	680 702 714 716 718 722 733 734 735 738
	742 754 756 774 775 776 809 810 811 820
	822
STATEWIDE	602 603 604 605 606 607 608 609 610 611
	612 613 614 615 616 618 619 620 625 626
	627 628 629 630 631 632 634 635 636 637
	638 640 641 642 643 644 645 646 647 649
	650 651 652 654 655 656 668 669 670 673
	674 675 676 678 679 680 681 682 688 689
	690 696 697 698 701 702 703 706 707 708
	711 712 713 714 716 717 718 719 720 721
	722 723 726 727 728 730 731 732 733 734
	735 737 738 739 740 741 742 743 744 745
	746 747 748 749 750 751 752 754 755 756
	757 765 766 767 768 769 770 772 773 774
	775 776 777 778 780 781 782 783 787 788
	789 790 791 796 797 798 799 800 801 802
	809 810 811 812 813 814 818 819 820 821
	822 823 824 827 828 829 830

++++++++++++ Multiple Site Systems ++++++++++++++

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* PIUTE	A 38 19 33	111 57 27	5	15.00	-13.20	100.00	4
* PIUTE	B 38 19 33	112 18 36	5	15.00	-13.20	100.00	4
* BEAVER	A 38 21 22	112 37 2	5	18.00	-9.60	100.00	4
* BEAVER	B 38 21 22	113 0 50	5	18.00	-9.60	100.00	4
* BEAVER	C 38 21 22	113 48 27	5	18.00	-9.60	100.00	4
EAVER	D 38 21 22	113 24 39	5	18.00	-9.60	100.00	4
* CARBON	A 39 38 17	110 0 23	6	14.00	-14.60	100.00	4
* CARBON	B 39 40 14	111 0 31	6	14.00	-14.60	100.00	4
* CARBON	C 39 38 17	110 42 23	6	14.00	-14.60	100.00	4
* CARBON	D 39 38 17	110 24 15	6	14.00	-14.60	100.00	4
* WAYNE	A 38 19 5	110 8 2	6	15.00	-13.20	100.00	4
* WAYNE	B 38 19 5	110 32 10	6	15.00	-13.20	100.00	4
* WAYNE	C 38 19 5	110 55 8	6	15.00	-13.20	100.00	4

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
WAYNE	D 38 19 5	111 41 6	6	15.00	-13.20	100.00	4
WAYNE	E 38 19 5	111 18 7	6	15.00	-13.20	100.00	4
WEBER	A 41 19 37	111 35 16	15	8.00	-23.60	100.00	4
WEBER	B 41 17 40	111 44 20	15	8.00	-23.60	100.00	4
WEBER	C 41 18 15	111 53 24	15	8.00	-23.60	100.00	4
WEBER	D 41 14 21	111 55 40	15	8.00	-23.60	100.00	4
WEBER	E 41 14 21	112 11 32	15	8.00	-23.60	100.00	4
DAVIS	A 40 54 11	111 52 3	14	8.00	-23.60	100.00	4
DAVIS	B 41 6 22	112 2 43	14	8.00	-23.60	100.00	4
DAVIS	C 41 1 46	111 57 23	14	8.00	-23.60	100.00	4
DAVIS	D 40 57 11	112 8 3	14	8.00	-23.60	100.00	4
DAVIS	E 41 1 46	112 8 3	14	8.00	-23.60	100.00	4
WASHINGTON	A 37 10 29	113 8 9	8	15.00	-13.20	100.00	4
WASHINGTON	B 37 10 29	113 47 49	8	15.00	-13.20	100.00	4
WASHINGTON	C 37 10 29	113 26 39	8	15.00	-13.20	100.00	4

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* WASHINGTON	D 37 26 26	113 47 49	8	15.00	-13.20	100.00	4
* WASHINGTON	E 37 24 9	113 29 18	8	15.00	-13.20	100.00	4
* WASHINGTON	F 37 17 19	113 5 30	6	15.00	-13.20	100.00	4
* DUCHESNE	A 39 59 3	110 12 14	4	15.00	-13.20	100.00	4
* DUCHESNE	B 39 59 3	110 38 41	4	15.00	-13.20	100.00	4
* DUCHESNE	C 40 33 15	110 38 41	4	15.00	-13.20	100.00	4
* DUCHESNE	D 40 15 1	110 38 41	4	15.00	-13.20	100.00	4
ICHESNE	E 40 37 48	110 12 14	4	15.00	-13.20	100.00	4
* DUCHESNE	F 40 17 18	110 12 14	4	15.00	-13.20	100.00	4
* MORGAN	A 41 17 16	111 21 40	3	8.00	-23.60	100.00	4
* MORGAN	B 41 13 22	111 21 40	3	8.00	-23.60	100.00	4
* MORGAN	C 41 7 54	111 33 0	3	8.00	-23.60	100.00	4
* MORGAN	D 41 5 57	111 44 20	3	8.00	-23.60	100.00	4
* MORGAN	E 40 56 10	111 39 40	3	8.00	-23.60	100.00	4
* MORGAN	F 40 52 16	111 35 16	3	8.00	-23.60	100.00	4

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* SALT LAKE	A 40 38 6	111 42 51	29	8.00	-23.60	100.00	4
* SALT LAKE	B 40 31 13	112 4 11	29	8.00	-23.60	100.00	4
* SALT LAKE	C 40 35 49	111 50 51	29	8.00	-23.60	100.00	4
* SALT LAKE	D 40 42 42	112 4 11	29	8.00	-23.60	100.00	4
* SALT LAKE	E 40 49 36	112 1 31	29	8.00	-23.60	100.00	4
* SALT LAKE	F 40 45 0	111 45 31	29	8.00	-23.60	100.00	4
* SANPETE	A 39 41 36	111 25 20	4	12.00	-17.40	100.00	4
* SANPETE	B 39 36 24	111 25 20	4	12.00	-17.40	100.00	4
* SANPETE	C 39 36 24	111 31 23	4	12.00	-17.40	100.00	4
* SANPETE	D 39 20 46	111 31 23	4	12.00	-17.40	100.00	4
* SANPETE	E 39 10 20	111 31 23	4	12.00	-17.40	100.00	4
* SANPETE	F 39 10 20	111 52 32	4	12.00	-17.40	100.00	4
* SANPETE	G 39 15 33	111 49 31	4	12.00	-17.40	100.00	4
* IRON	A 37 58 21	112 41 42	9	15.00	-13.20	100.00	4
* IRON	B 37 58 21	113 5 30	9	15.00	-13.20	100.00	4
* IRON	C 37 58 21	113 47 49	9	15.00	-13.20	100.00	4

	Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
-	IRON	D 37 58 21	113 26 39	9	15.00	-13.20	100.00	4
*	IRON	E 37 46 57	113 47 49	9	15.00	-13.20	100.00	4
*	IRON	F 37 46 57	113 29 18	9	15.00	-13.20	100.00	4
*	IRON	G 37 42 23	113 13 26	9	15.00	-13.20	100.00	4
*	IRON	H 37 42 23	112 54 55	9	15.00	-13.20	100.00	4
*	SEVIER	A 38 35 10	112 19 44	8	11.00	-18.00	100.00	4
*	SEVIER	B 38 37 47	111 28 22	8	11.00	-18.00	100.00	4
	EVIER	C 38 37 47	112 4 38	8	11.00	-18.00	100.00	4
*	SEVIER	D 38 37 47	111 46 30	8	11.00	-18.00	100.00	4
*	SEVIER	E 38 48 12	112 1 36	8	11.00	-18.00	100.00	4
*	SEVIER	F 38 53 24	111 52 32	8	11.00	-18.00	100.00	4
*	SEVIER	G 38 53 24	111 28 22	8	11.00	-18.00	100.00	4
*	SEVIER	H 38 53 24	111 40 27	8	11.00	-18.00	100.00	4
*	CACHE	A 41 31 20	111 35 16	6	9.00	-21.00	100.00	4
-	CACHE	B 41 41 7	111 35 16	6	9.00	-21.00	100.00	4
-	CACHE	C 41 54 47	111 37 32	6	9.00	-21.00	100.00	4

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
CACHE	D 41 54 47	112 0 12	6	9.00	-21.00	100.00	4
CACHE	E 41 52 50	111 48 52	6	9.00	-21.00	100.00	4
CACHE	F 41 43 4	111 53 24	6	9.00	-21.00	100.00	4
CACHE	G 41 39 9	111 53 24	6	9.00	-21.00	100.00	4
CACHE	H 41 29 23	111 46 36	6	9.00	-21.00	100.00	4
GRAND	A 39 16 47	109 16 15	4	15.00	-13.20	100.00	4
GRAND	B 39 16 47	109 50 15	4	15.00	-13.20	100.00	4
GRAND	C 39 16 47	109 32 7	4	15.00	-13.20	100.00	4
GRAND	D 38 55 18	109 54 47	4	15.00	-13.20	100.00	4
GRAND	E 38 55 18	109 16 15	4	15.00	-13.20	100.00	4
GRAND	F 38 55 18	109 36 39	4	15.00	-13.20	100.00	4
GRAND	G 38 41 37	109 16 15	4	15.00	-13.20	100.00	4
GRAND	H 38 41 37	109 52 31	4	15.00	-13.20	100.00	4
GRAND	I 38 41 37	109 34 23	4	15.00	-13.20	100.00	4
UTAH	A 39 54 38	111 58 35	20	12.00	-17.40	100.00	4
UTAH	B 40 20 41	112 1 36	20	12.00	-17.40	100.00	4

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
UTAH	C 40 7 39	111 58 35	20	12.00	-17.40	100.00	4
* UTAH	D 40 25 53	111 40 27	20	12.00	-17.40	100.00	4
* UTAH	E 39 52 1	111 4 11	20	12.00	-17.40	100.00	4
* UTAH	F 39 57 14	111 22 19	20	12.00	-17.40	100.00	4
* UTAH	G 39 57 14	111 40 27	20	12.00	-17.40	100.00	4
* UTAH	H 40 10 16	111 28 22	20	12.00	-17.40	100.00	4
* UTAH	I 40 10 16	111 43 28	20	12.00	-17.40	100.00	4
JTAH	A 39 36 2	109 47 33	6	15.00	-13.20	100.00	4
* UINTAH	B 39 38 19	109 16 42	6	15.00	-13.20	100.00	4
* UINTAH	C 40 30 58	109 16 42	6	15.00	-13.20	100.00	4
* UINTAH	D 40 12 44	109 16 42	6	15.00	-13.20	100.00	4
* UINTAH	E 39 56 47	109 16 42	6	15.00	-13.20	100.00	4
* UINTAH	F 40 42 22	109 24 39	6	15.00	-13.20	100.00	4
* UINTAH	G 40 37 48	109 45 48	6	15.00	-13.20	100.00	4
* UINTAH	H 40 19 34	109 45 48	6	15.00	-13.20	100.00	4
* UINTAH	I 39 59 3	109 45 48	6	15.00	-13.20	100.00	4

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* DAGGETT	A 40 46 42	109 6 41	3	7.00	-25.50	100.00	4
* DAGGETT	B 40 55 49	109 6 41	3	7.00	-25.50	100.00	4
* DAGGETT	C 40 55 49	109 54 17	3	7.00	-25.50	100.00	4
* DAGGETT	D 40 51 15	109 54 17	3	7.00	-25.50	100.00	4
* DAGGETT	E 40 53 32	109 41 4	3	7.00	-25.50	100.00	4
* DAGGETT	F 40 48 59	109 27 51	3	7.00	-25.50	100.00	4
* DAGGETT	G 40 55 49	109 19 55	3	7.00	-25.50	100.00	4
* DAGGETT	H 40 55 49	109 33 8	3	7.00	-25.50	100.00	4
* DAGGETT	I 40 55 49	109 43 43	3	7.00	-25.50	100.00	4
* RICH	A 41 15 19	111 10 20	4	9.00	-21.00	100.00	4
* RICH	B 41 27 3	111 21 40	4	9.00	-21.00	100.00	4
* RICH	C 41 38 46	111 17 8	4	9.00	-21.00	100.00	4
* RICH	D 41 48 32	111 17 8	4	9.00	-21.00	100.00	4
* RICH	E 41 54 24	111 21 40	4	9.00	-21.00	100.00	4
* RICH	F 41 54 24	111 12 36	4	9.00	-21.00	100.00	4
* RICH	G 41 44 38	111 12 36	4	9.00	-21.00	100.00	4
* RICH	H 41 34 51	111 12 36	4	9.00	-21.00	100.00	4

	Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
-	RICH	I 41 25 5	111 12 36	4	9.00	-21.00	100.00	4
*	EMERY	A 38 39 40	110 17 27	5	15.00	-13.20	100.00	4
*	EMERY	B 38 41 37	111 5 3	5	15.00	-13.20	100.00	4
*	EMERY	C 38 41 37	110 40 7	5	15.00	-13.20	100.00	4
*	EMERY	D 39 26 34	111 7 19	5	15.00	-13.20	100.00	4
*	EMERY	E 39 8 59	111 5 3	5	15.00	-13.20	100.00	4
*	EMERY	F 38 55 18	111 5 3	5	15.00	-13.20	100.00	4
	ERY	G 38 59 12	110 21 59	5	15.00	-13.20	100.00	4
*	EMERY	H 39 18 45	110 17 27	5	15.00	-13.20	100.00	4
*	EMERY	I 39 18 45	110 42 23	5	15.00	-13.20	100.00	4
*	EMERY	J 38 59 12	110 42 23	5	15.00	-13.20	100.00	4
*	WASATCH	A 40 1 20	110 59 51	5	9.00	-21.00	100.00	4
*	WASATCH	B 40 30 58	110 59 51	5	9.00	-21.00	100.00	4
*	WASATCH	C 40 19 34	110 59 51	5	9.00	-21.00	100.00	4
*	WASATCH	D 40 10 27	110 59 51	5	9.00	-21.00	100.00	4
-	WASATCH	E 40 5 54	111 7 47	5	9.00	-21.00	100.00	4

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
WASATCH	F 40 17 18	111 7 47	5	9.00	-21.00	100.00	4
WASATCH	G 40 24 8	111 21 0	5	9.00	-21.00	100.00	4
WASATCH	H 40 28 41	111 26 17	5	9.00	-21.00	100.00	4
WASATCH	I 40 33 15	111 23 38	5	9.00	-21.00	100.00	4
WASATCH	J 40 28 28	111 13 38	5	9.00	-21.00	100.00	4
SAN JUAN	A 37 14 54	109 20 24	8	20.00	-7.10	100.00	4
SAN JUAN	B 37 6 7	110 52 18	8	20.00	-7.10	100.00	4
SAN JUAN	C 37 14 54	110 29 19	8	20.00	-7.10	100.00	4
SAN JUAN	D 37 14 54	109 56 8	8	20.00	-7.10	100.00	4
SAN JUAN	E 37 30 17	110 14 0	8	20.00	-7.10	100.00	4
SAN JUAN	F 37 41 17	110 3 48	8	20.00	-7.10	100.00	4
SAN JUAN	G 37 54 28	109 43 22	8	20.00	-7.10	100.00	4
SAN JUAN	H 38 10 38	109 40 49	8	20.00	-7.10	100.00	4
SAN JUAN	I 38 14 15	109 20 24	8	20.00	-7.10	100.00	4
SAN JUAN	J 37 52 16	109 20 24	8	20.00	-7.10	100.00	4
SAN JUAN	K 37 34 41	109 20 24	8	20.00	-7.10	100.00	4

	Site Name		Site Latitude				Site Longitude			Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
.	GARFIELD	A	38	3	55		110	14	42	7	15.00	-13.20	100.00	4
*	GARFIELD	B	37	58	42		110	38	52	7	15.00	-13.20	100.00	4
*	GARFIELD	C	37	58	42		111	3	3	7	15.00	-13.20	100.00	4
*	GARFIELD	D	37	58	42		111	27	14	7	15.00	-13.20	100.00	4
*	GARFIELD	E	37	58	42		111	51	24	7	15.00	-13.20	100.00	4
*	GARFIELD	F	37	58	42		112	15	35	7	15.00	-13.20	100.00	4
*	GARFIELD	G	37	40	28		112	30	41	7	15.00	-13.20	100.00	4
*	GARFIELD	H	37	43	4		112	6	31	7	15.00	-13.20	100.00	4
	RFIELD	I	37	43	4		111	42	20	7	15.00	-13.20	100.00	4
*	GARFIELD	J	37	43	4		110	44	55	7	15.00	-13.20	100.00	4
*	GARFIELD	K	37	43	4		111	15	8	7	15.00	-13.20	100.00	4
*	KANE	A	37	24	50		110	53	59	10	15.00	-13.20	100.00	4
*	KANE	B	37	22	14		111	18	10	10	15.00	-13.20	100.00	4
*	KANE	C	37	22	14		111	42	20	10	15.00	-13.20	100.00	4
*	KANE	D	37	22	14		112	6	31	10	15.00	-13.20	100.00	4
*	KANE	E	37	22	14		112	39	45	10	15.00	-13.20	100.00	4
.	KANE	F	37	22	14		112	21	37	10	15.00	-13.20	100.00	4

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* KANE	G 37 9 12	112 42 47	10	15.00	-13.20	100.00	4
* KANE	H 37 9 12	112 18 36	10	15.00	-13.20	100.00	4
* KANE	I 37 9 12	111 51 24	10	15.00	-13.20	100.00	4
* KANE	J 37 9 12	111 27 14	10	15.00	-13.20	100.00	4
* KANE	K 37 17 1	111 6 4	10	15.00	-13.20	100.00	4
* MILLARD	A 39 20 46	113 47 23	6	18.00	-9.60	100.00	4
* MILLARD	B 39 20 46	112 28 48	6	18.00	-9.60	100.00	4
* MILLARD	C 39 10 20	112 19 44	6	18.00	-9.60	100.00	4
* MILLARD	D 38 54 43	112 31 49	6	18.00	-9.60	100.00	4
* MILLARD	E 38 46 54	112 43 55	6	18.00	-9.60	100.00	4
* MILLARD	F 38 46 54	113 47 23	6	18.00	-9.60	100.00	4
* MILLARD	G 38 46 54	113 14 8	6	18.00	-9.60	100.00	4
* MILLARD	H 39 2 31	113 47 23	6	18.00	-9.60	100.00	4
* MILLARD	I 39 20 46	113 20 11	6	18.00	-9.60	100.00	4
* MILLARD	J 39 20 46	112 56 0	6	18.00	-9.60	100.00	4
* MILLARD	K 39 2 31	113 2 3	6	18.00	-9.60	100.00	4
* MILLARD	L 39 2 31	113 26 14	6	18.00	-9.60	100.00	4

EXHIBIT IV

Propagation Study

State of Utah

860 MHz Trunked System

10 December 1990

Propagation Analysis

Ericsson - GE Mobile Communications analyzed the single site radio coverage for Utah area radio sites for 860 MHz mobile service. The enclosed figures show the predicted radio coverage. The front of each plot shows the site details and equipment specifications used for the predictions.

The coverage predictions were based on the Longley-Rice propagation loss program. The radio path profiles were derived from USGS digital terrain elevation data at 3 second intervals. The radio signal levels were computed along radials at 300 foot intervals and with one degree spacing between radials. The cutoff point on the radials was computed for levels of -113 dBm (.5 microvolts) with a contour reliability of 95% (area reliability of 97%). A contour was drawn on a 1:500,000 scale map showing the predicted coverage for a signal level of -113 dBm.

Propagation Prediction Assumptions

Radio coverage was predicted for mobile service. Talkout range and talkback range was approximately equal. Radio coverage (range) was calculated as the maximum distance for which the received signal at a base station receiver, or a mobile receiver, would be -113 dBm (.5 microvolts) or higher. The gain and loss assumptions used are shown in the following table.

UTAH

10 December 30

1. Base Station

Antenna gain:	10 dB
Duplexor loss:	not used
Combiner loss:	7 dB
Coax loss:	1 dB
Miscellaneous and filter loss:	1 dB
Net receive gain with tower top preamp:	9 dB
Transmitter rated power:	50 dBm (100 W)
Transmitter ERP:	51 dBm
Frequency:	860 MHz
Minimum received signal	-113 dBm

2. Mobile radio

Antenna gain:	3 dB
Net antenna gain:	2.5 dB
Mobile rated power:	44 dBm (25 W)
Mobile ERP:	46.5 dBm
Minimum received signal:	-113 dBm
Frequency:	860 mHz

3. Excess Transmission Loss

50% (median) to 95% loss variation:	15 dB
Urban building, scatter loss:	4 dB
Sparse tree density loss:	6 dB

UTAH

4. Allowable Transmission Loss Examples:

Allowable Loss = ERP + Recv. Gain - Min. Signal - Excess Loss

Base to mobile, allowable loss = 51 + 2.5 + 113 - 25

= 141.5 dB

Mobile to base, allowable loss = 46.5 + 9 + 113 - 25

= 143.5 dB

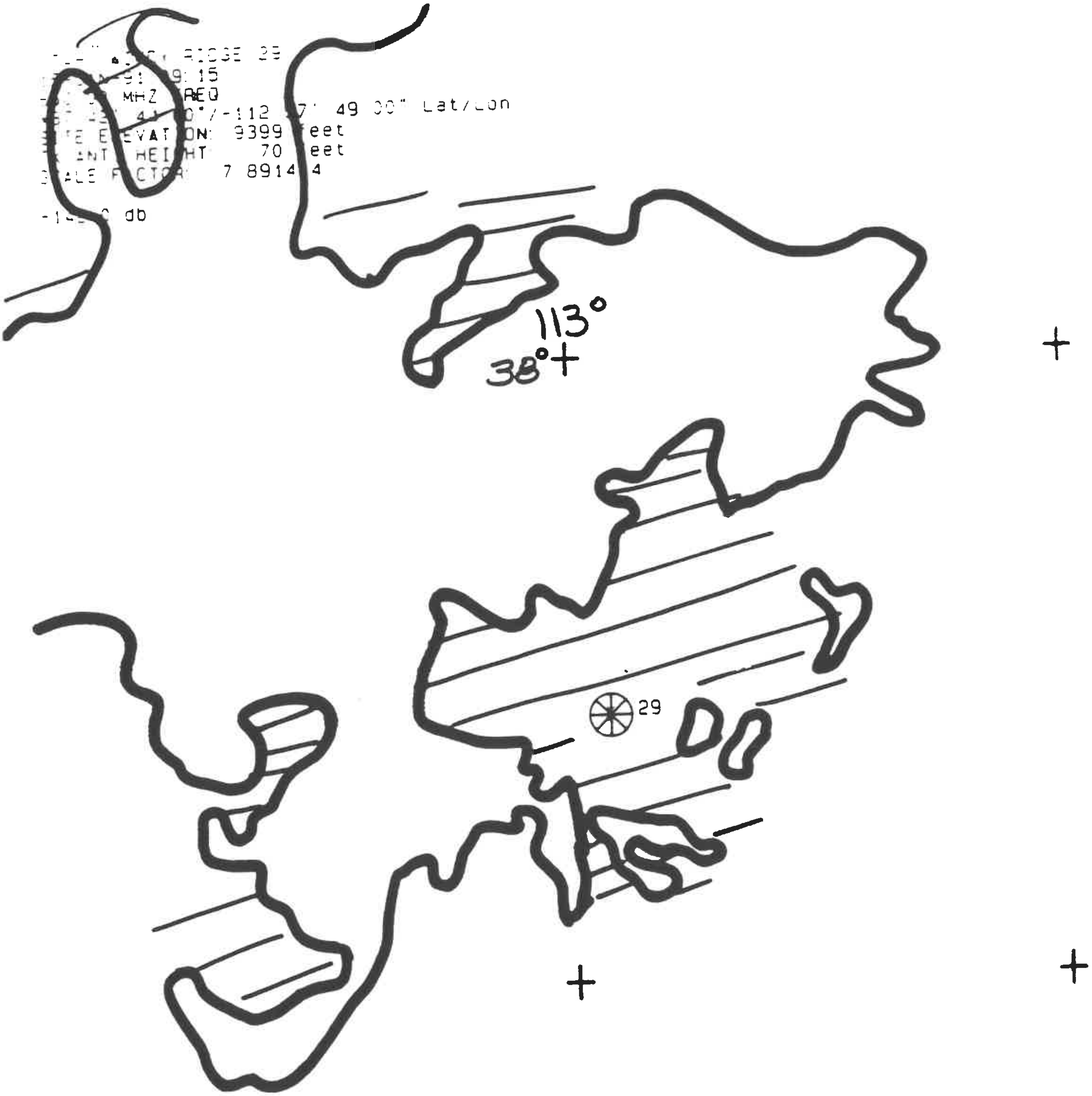
SITE AND TERRAIN DATA

The radio coverage was calculated on the basis of a physical model of the terrain and the transmission loss over the terrain from each base station to a mobile in a 40 mile radius. The transmission loss and radio coverage depends on the specific location of the base station; the ground elevation in a 40 mile radius around the base station, and the antenna heights.

The site data and site locations used for this radio coverage, is shown on the individual, 8 1/2 X 11 inch, coverage plots for each site. The coordinates (N, W) of each site was used as the starting point to derive all other data. The elevation of the site was derived from the USGS digital elevation model, for the given coordinates (elevation was not taken from the 7.5 minute maps). Therefore, the validity and accuracy of this study is based on the coordinates of each site shown on the enclosed map sheets. If any site location is shown incorrectly, please advise us and we will recalculate coverage for that site.

Coverage Prediction

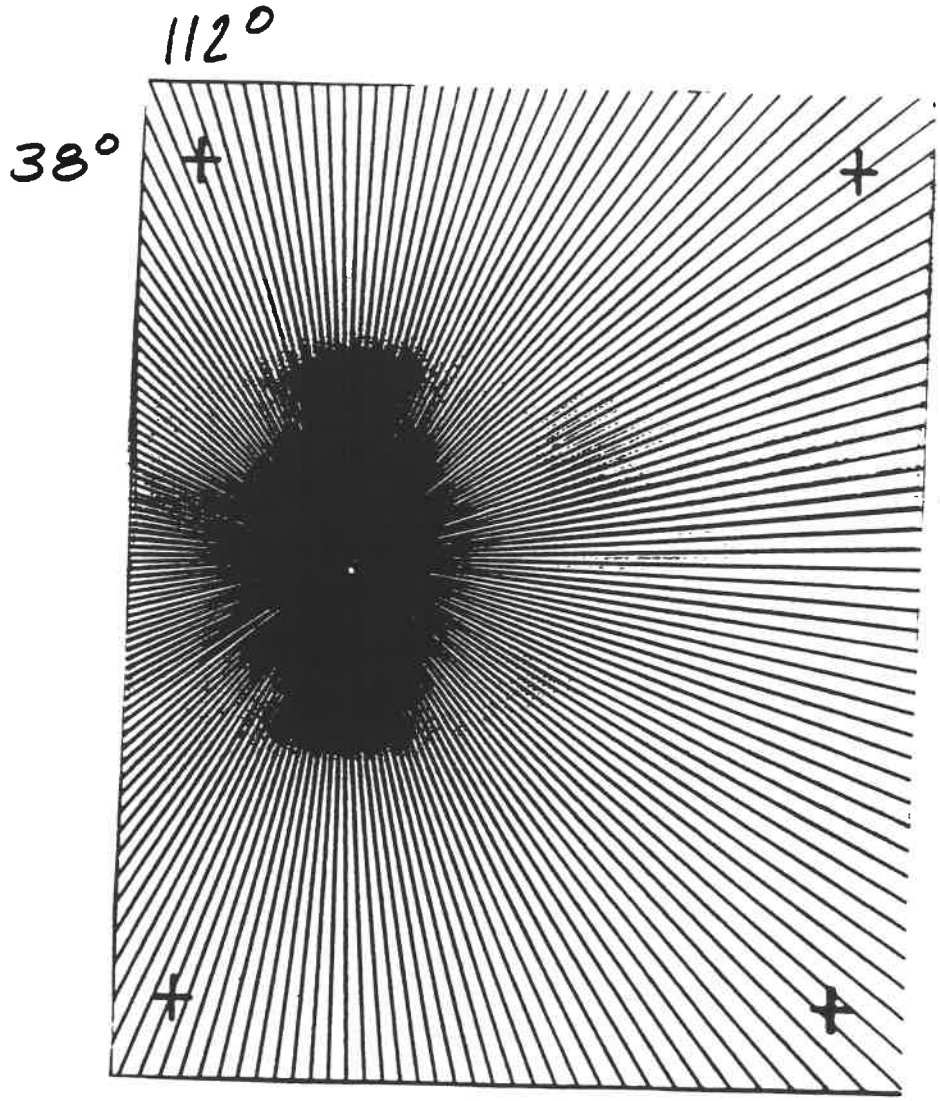
The coverage contours show the limits of a usable radio signal around each site. The contour is drawn for a .5 microvolt (-113 dBm) level with a reliability of 95%. Inside the contour the level should be .5 microvolts or higher, with a reliability of 95% or more. Outside the contour, the signal is .5 microvolts or less.



MHZ
Lat/Lon
9399 feet
70 feet
db
113°
38°
29

UTAH, BARNEY TOP 18
14-JAN-91 12:04
860.00 MHZ FREQ
+37 45' 46.00"/-111 52' 56.00" Lat/Lon
SITE ELEVATION: 10165 feet
TX ANT. HEIGHT: 115 feet
SCALE FACTOR: 7.891414

-142.0 db



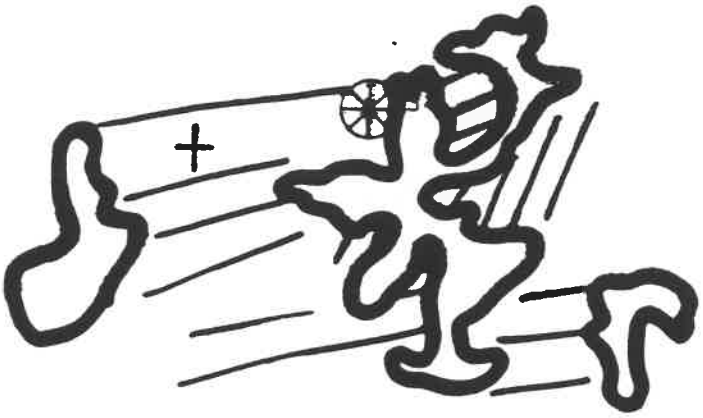
UTAH MOAB 24
14-JAN-91 12:13
960.00 MHZ FREQ
+38 34' 26.00"/-109 33' 10.00" Lat/Lom
SITE ELEVATION: 4007 feet
TX ANT. HEIGHT: 40 feet
SCALE FACTOR: 7.891414
-142.0 db

+39°

110°

UTAH TEAK PEAK 34
15-JAN-91 09:27
850.00 MHZ FREQ
+40 01' 28.00"/-111 21' 58.00" Lat/Lon
SITE ELEVATION: 8114 feet
TX ANT. HEIGHT: 80 feet
SCALE FACTOR: 7.891414

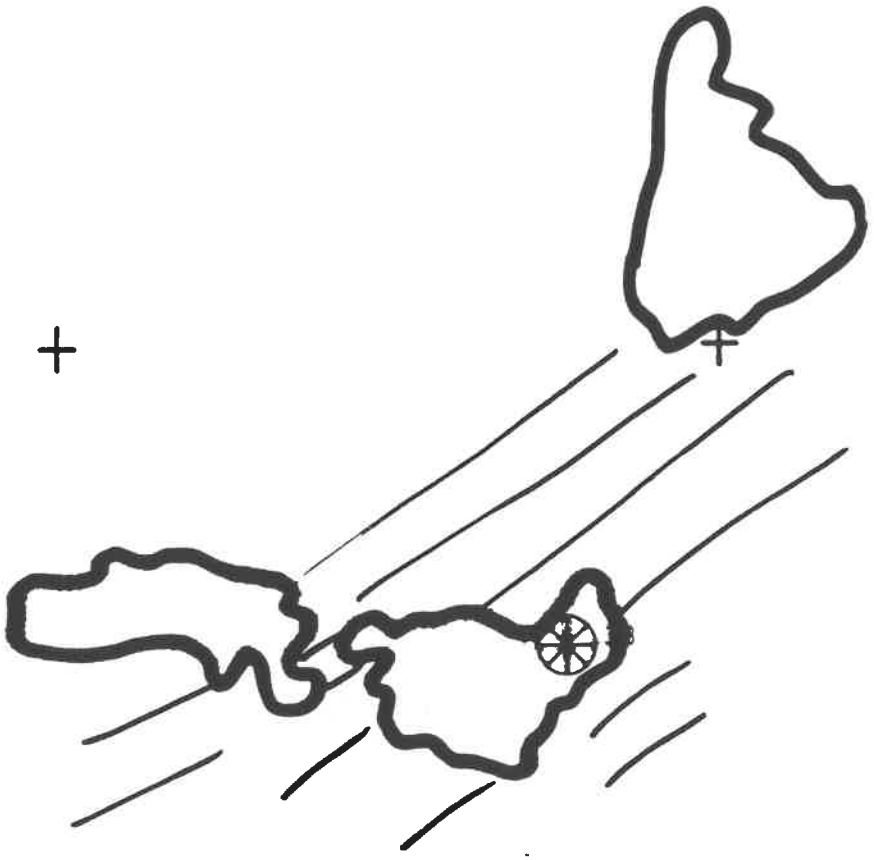
-142.0 db



+ 40°
111°

UTAH SILINA CANYON 33
15-JAN-91 09:26
860.00 MHZ FREQ
+39 19' 17.00"/-110 37' 09.00" Lat/Lon
SITE ELEVATION: 5801 feet
TX ANT. HEIGHT: 70 feet
SCALE FACTOR: 7.891414

-142.0 db

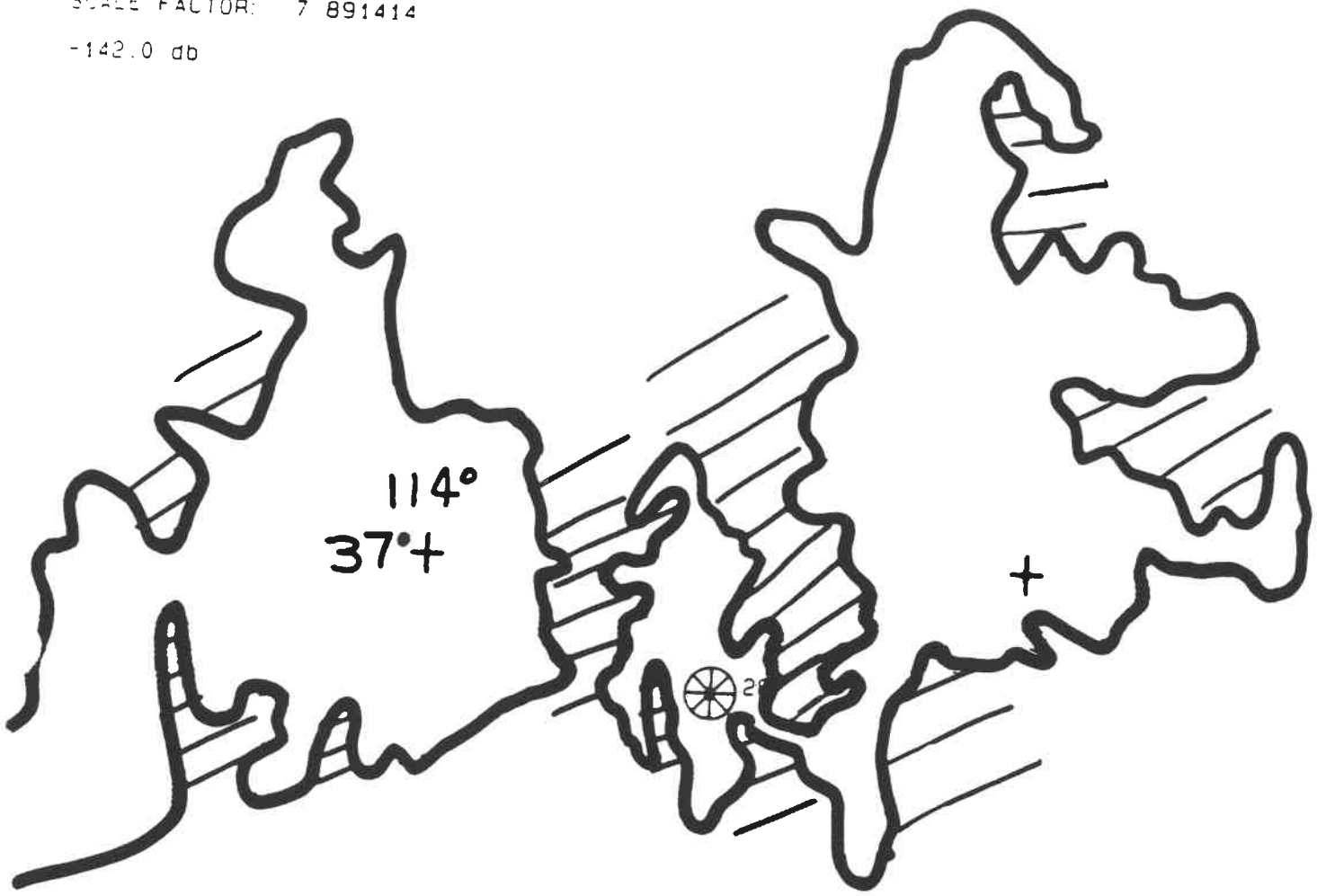


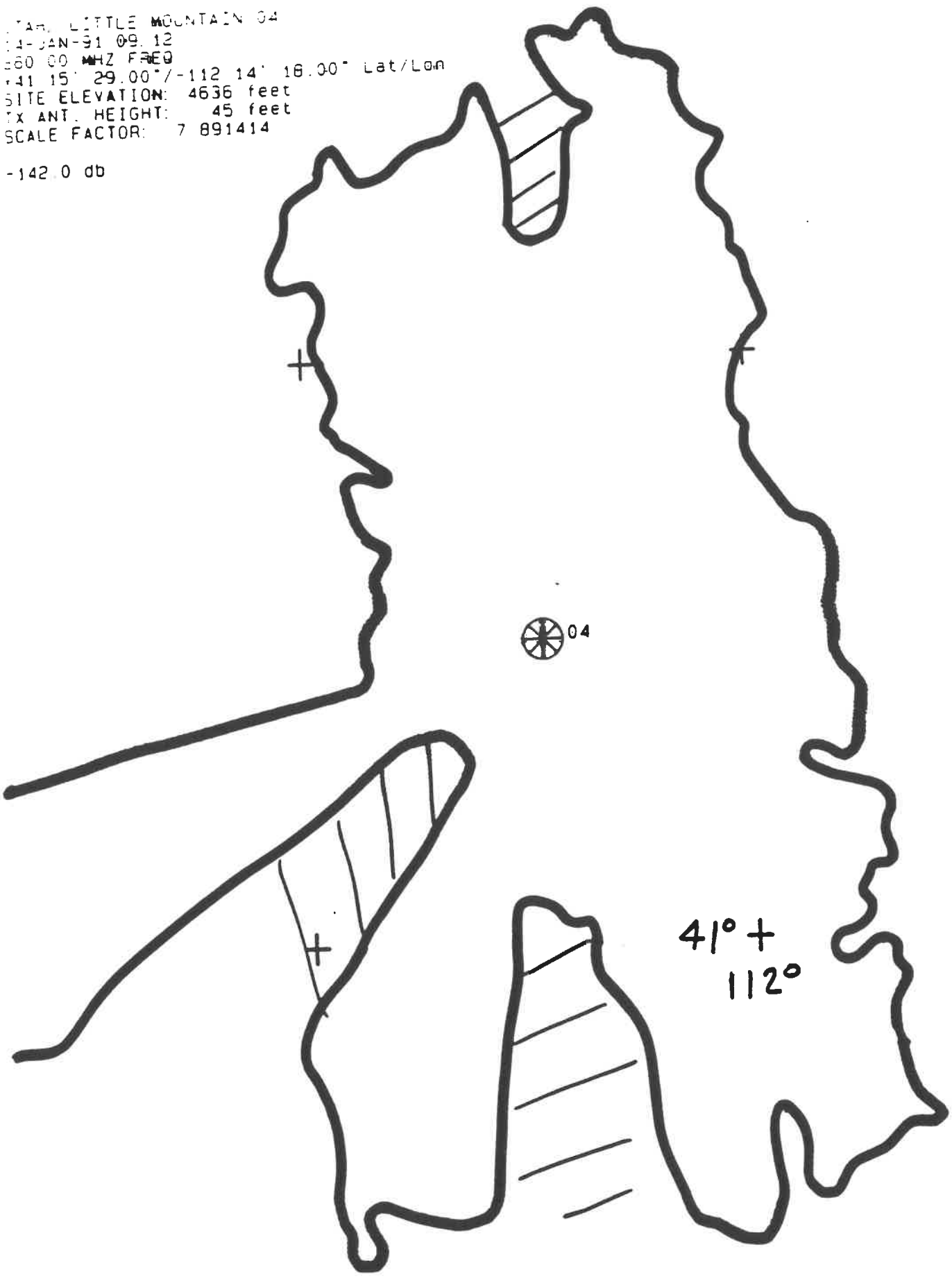
39° +
111°

+

VIRGIN RIVER GORGE 28
JOHAN-91 09 14
900.00 MHZ FREQ
36 54' 45.00"/-113 45' 40.00" Lat/Lon
SITE ELEVATION: 5358 feet
TX ANT HEIGHT 70 feet
SCALE FACTOR: 7 891414

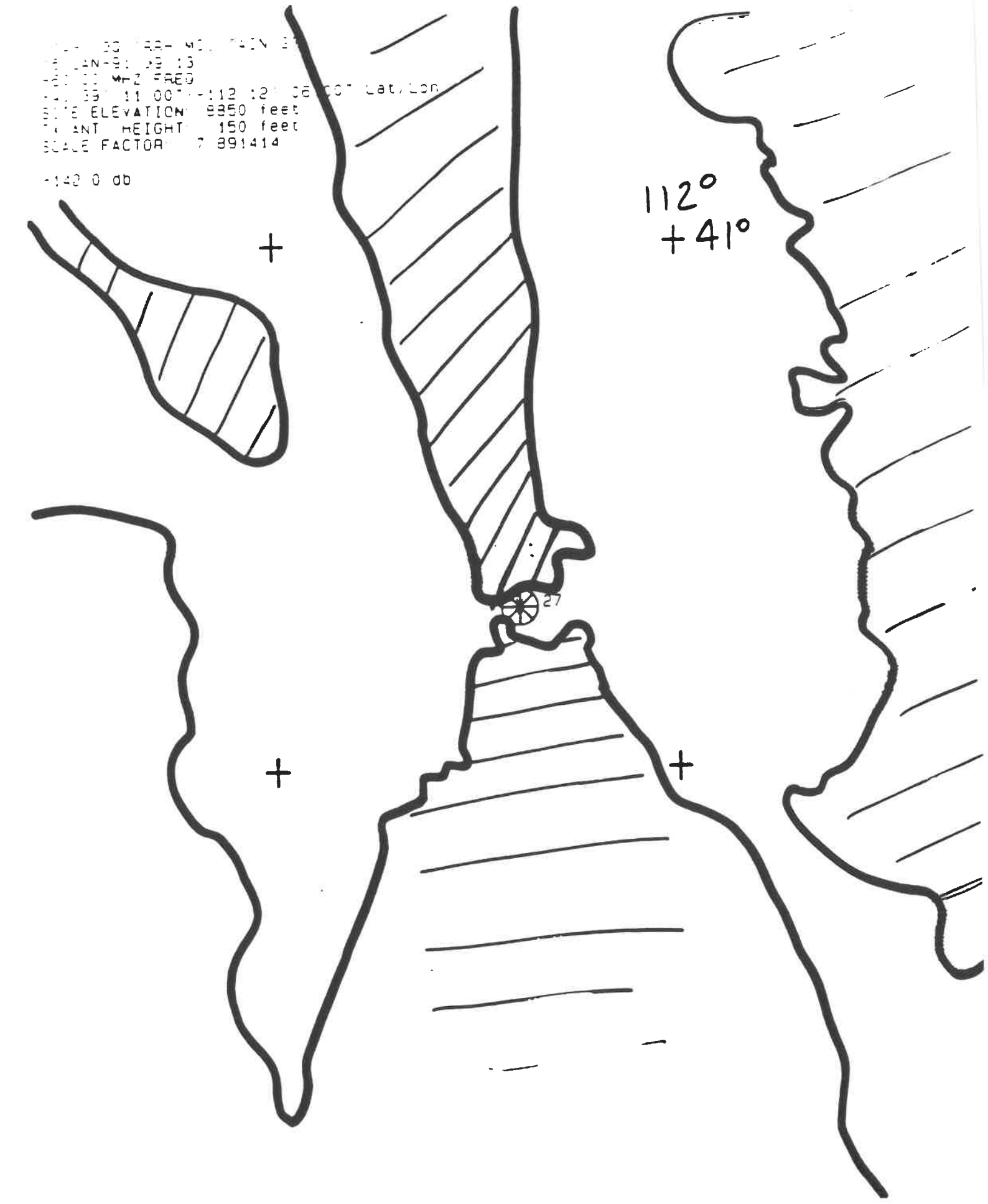
-142.0 db




LITTLE MOUNTAIN 04
14-JAN-91 09:12
260.00 MHZ FREQ
41 15' 29.00"/-112 14' 18.00" Lat/Lon
SITE ELEVATION: 4636 feet
TX ANT. HEIGHT: 45 feet
SCALE FACTOR: 7 891414
-142.0 db
04
41° +
112°

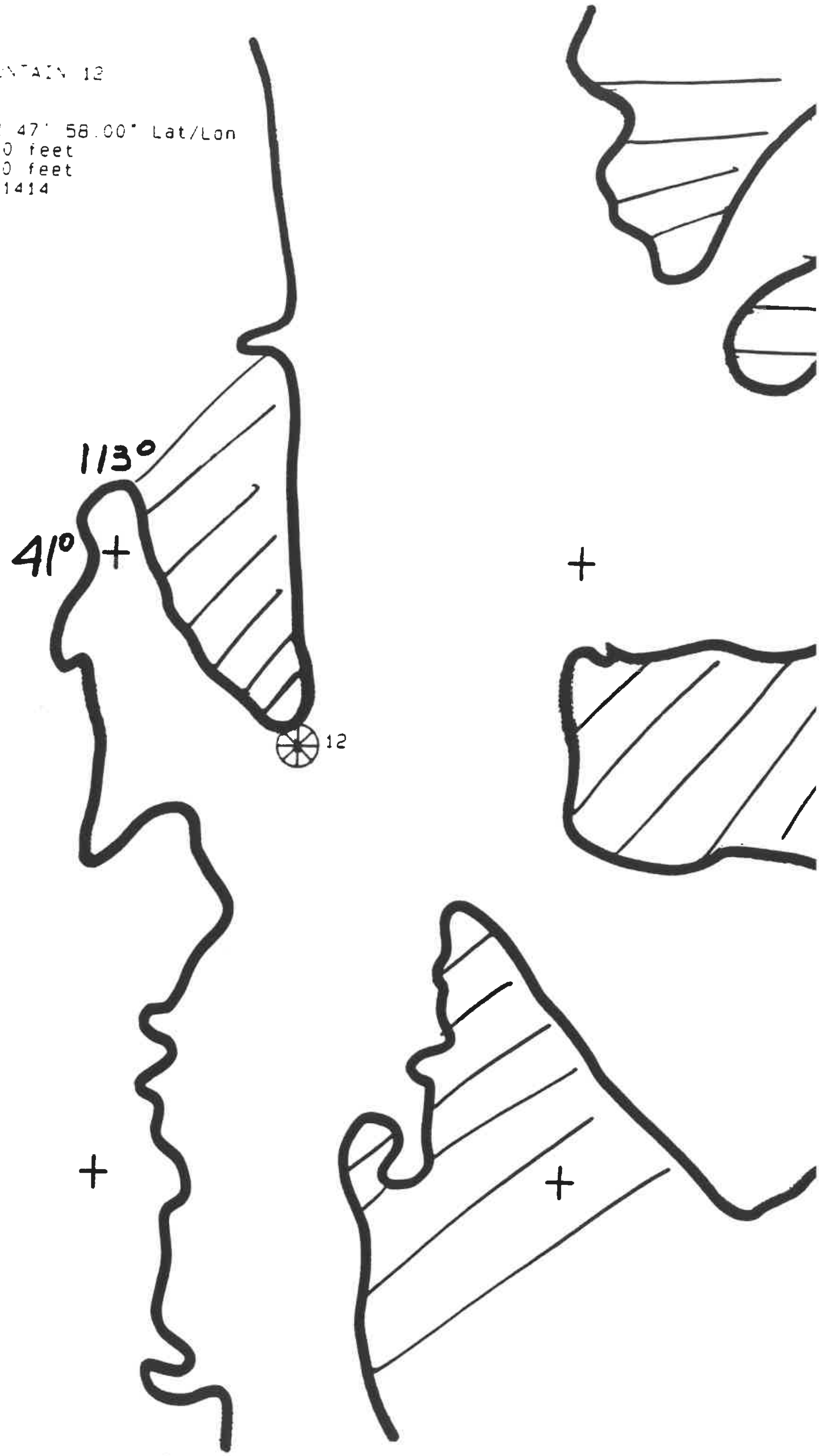
UTAH LEWIS PEAK 22
14-JAN-91 12 12
860 00 MHZ FREQ
+40 51' 19.00"/-111 28' 47.00" Lat/Lon
SITE ELEVATION: 9310 feet
TX ANT. HEIGHT: 55 feet
SCALE FACTOR: 7.891414

-142 0 db


SITE ELEVATION 8850 feet
ANT HEIGHT 150 feet
SCALE FACTOR 7 891414
-140 0 db
112°
+41°

UTAH DELLE BLK MOUNTAIN 12
04-JAN-91 11:26
[illegible] 00 MHZ FREQ
40 50' 49.00", -112 47' 58.00" Lat/Lon
SITE ELEVATION: 6440 feet
TX ANT HEIGHT: 60 feet
SCALE FACTOR: 7.891414

-142.0 db



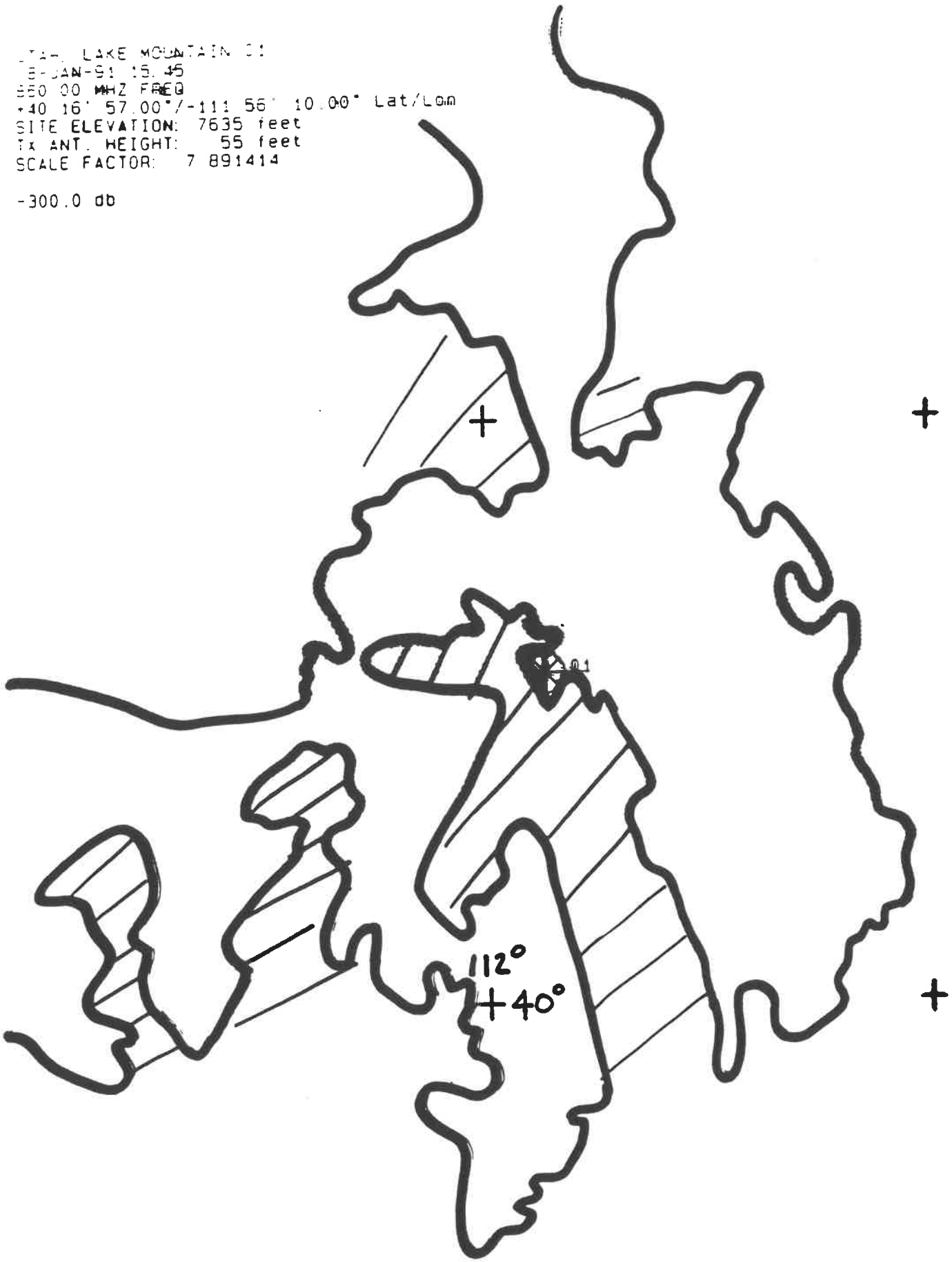
[illegible]TAH RED SPUR 37
[illegible]5-JAN-91 09:29
550 00 MHZ FREQ
+41 38' 07.00"/-111 24' 47 00" Lat/Lon
SITE ELEVATION: 8707 feet
TX ANT. HEIGHT: 80 feet
SCALE FACTOR: 7 891414

-142 0 db

...TA-. BALD MESA 10
14-JAN-91 11:24
360.00 MHZ FREQ
+38 31' 44.00"/-109 19' 25.00" Lat/Lon
SITE ELEVATION: 8400 feet
TX ANT. HEIGHT: 85 feet
SCALE FACTOR: 7.891414

-142.0 db

109°
+ 39°


LAKE MOUNTAIN
15-JAN-91 15:45
880.00 MHZ FREQ
+40 16' 57.00"/-111 56' 10.00" Lat/Lon
SITE ELEVATION: 7635 feet
Tx ANT. HEIGHT: 55 feet
SCALE FACTOR: 7.891414
-300.0 db
112°
+40°

UTAH DUTCH JOHN GAP 36
15-JAN-91 15:11
960.00 MHZ FREQ
+40 57' 32.00"/-109 25' 00.00" Lat/Lom
SITE ELEVATION: 6999 feet
TX ANT. HEIGHT: 70 feet
SCALE FACTOR: 7.891414

-142.0 db

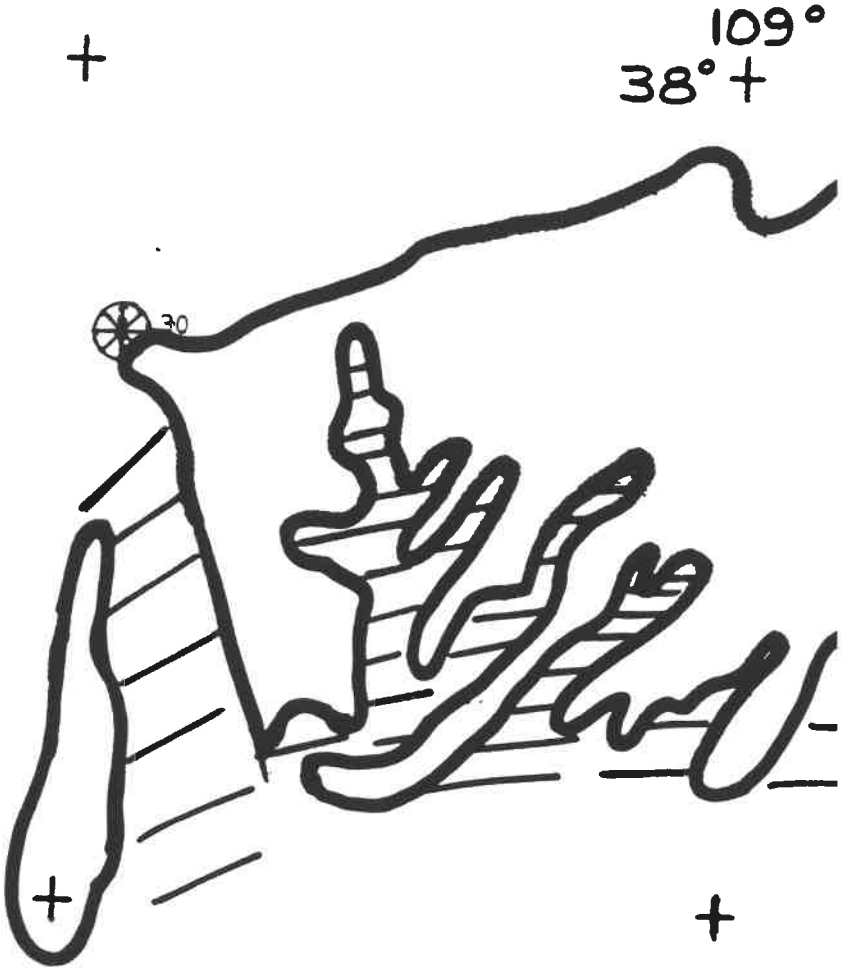
109°
+ 41°

UTAH MONROE PEAK 06
14-JAN-91 09:15
860.00 MHZ FREQ
+38 32' 32.00"/-112 04' 19.00" Lat.Lon
SITE ELEVATION: 11175 feet
TX ANT. HEIGHT: 80 feet
SCALE FACTOR: 7.891414

-142.0 db

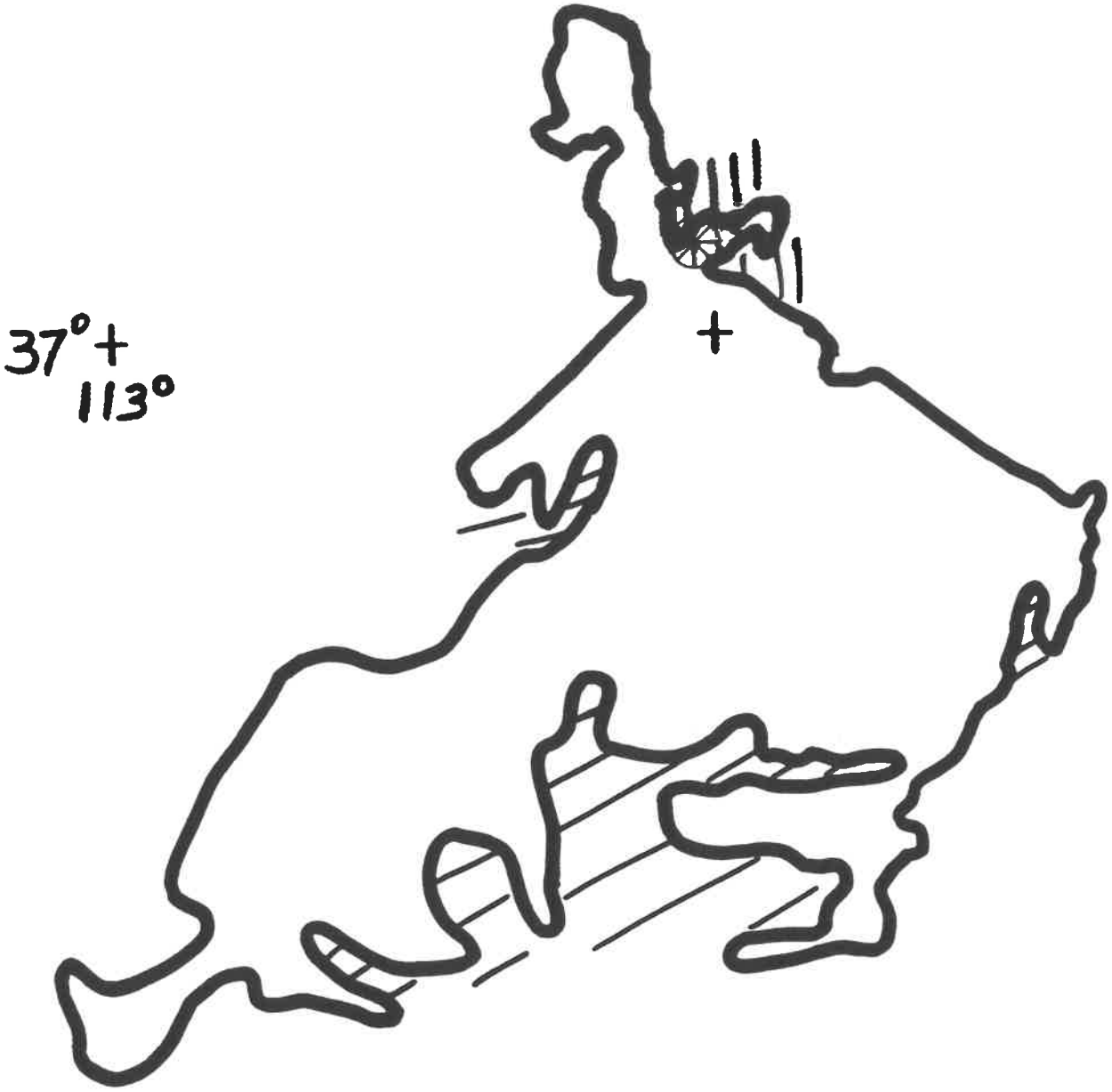
[illegible] ABAJO PEAK 30
[illegible]-JAN-91 09:16
[illegible]60.00 MHZ FREQ
[illegible]37 50' 15.00"/-109 27' 55.00" Lat/Lon
SITE ELEVATION: 11009 feet
TX ANT HEIGHT: 80 feet
SCALE FACTOR: 7.891414

-142.0 db



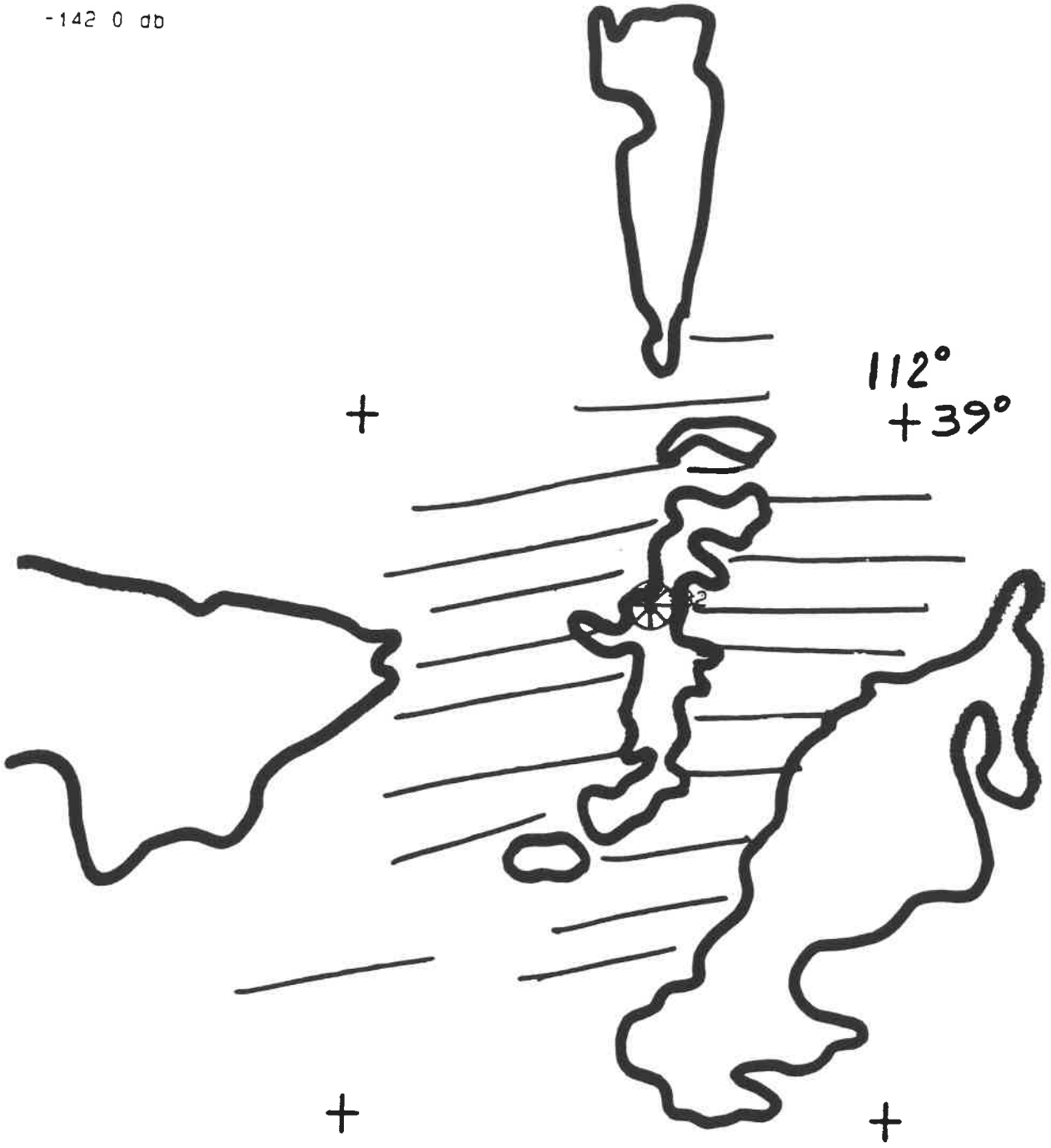
TAR VERMILLIAN CLIFF 31
15-JAN-91 09:21
860.00 MHZ FREQ
+37 03' 37.00"/-112 31' 04.00" Lat/Lon
SITE ELEVATION: 5604 feet
TX ANT. HEIGHT: 70 feet
SCALE FACTOR: 7.891414

-142.0 dB



[illegible] WHITE PINE 33
15-JAN-91 09:25
860.00 MHZ FREQ
+38 51' 55.00"/-112 13' 52.00" Lat/Lon
SITE ELEVATION: 10111 feet
TX ANT. HEIGHT 70 feet
SCALE FACTOR: 7.891414

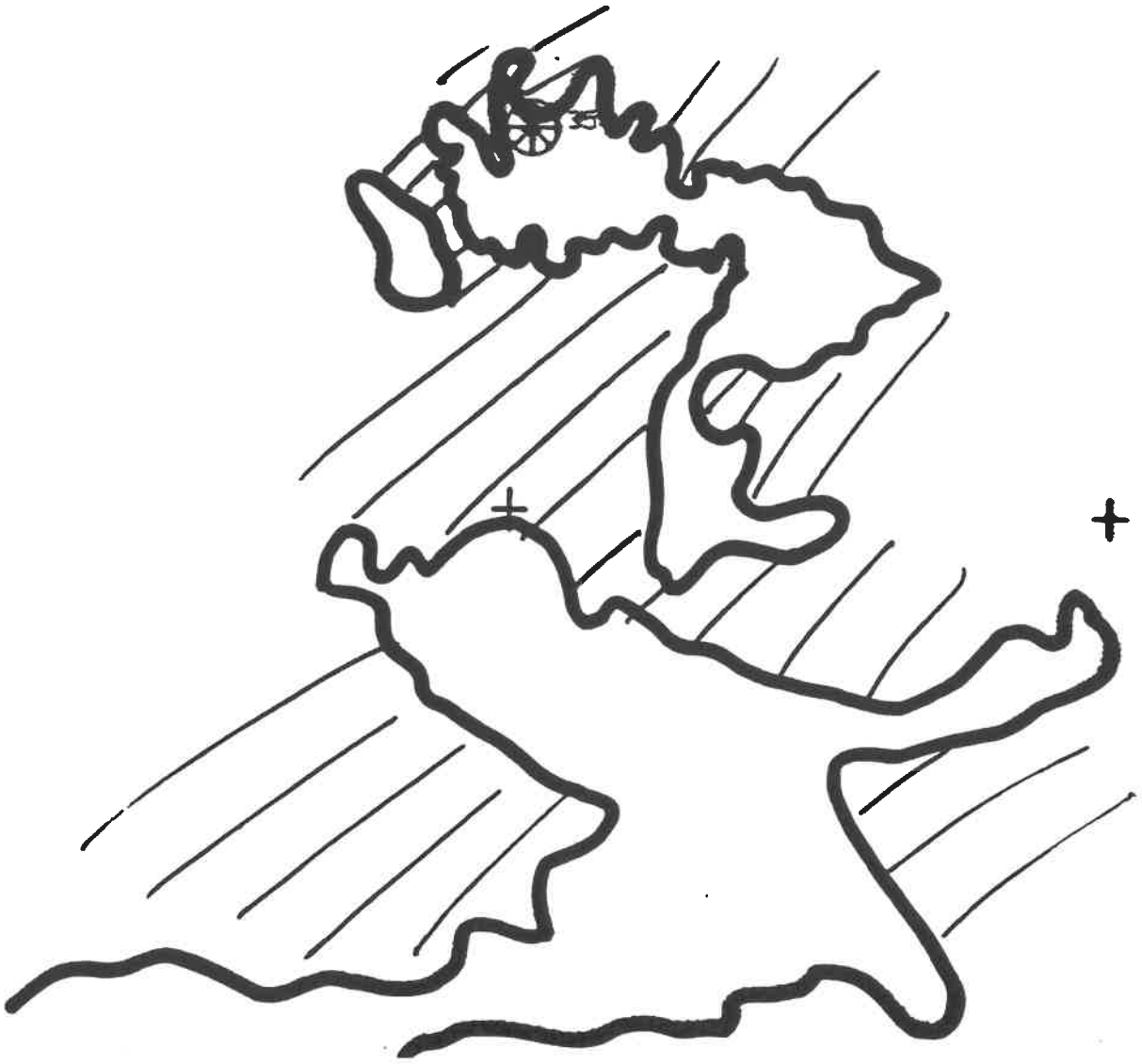
-142.0 db



UTAH GRIZZLY RIDGE 35
15-JAN-91 15:11
860.00 MHZ FREQ
+40 44' 22.00"/-109 29' 20.00" Lat/Lon
SITE ELEVATION: 9301 feet
TX ANT. HEIGHT: 75 feet
SCALE FACTOR: 7.891414

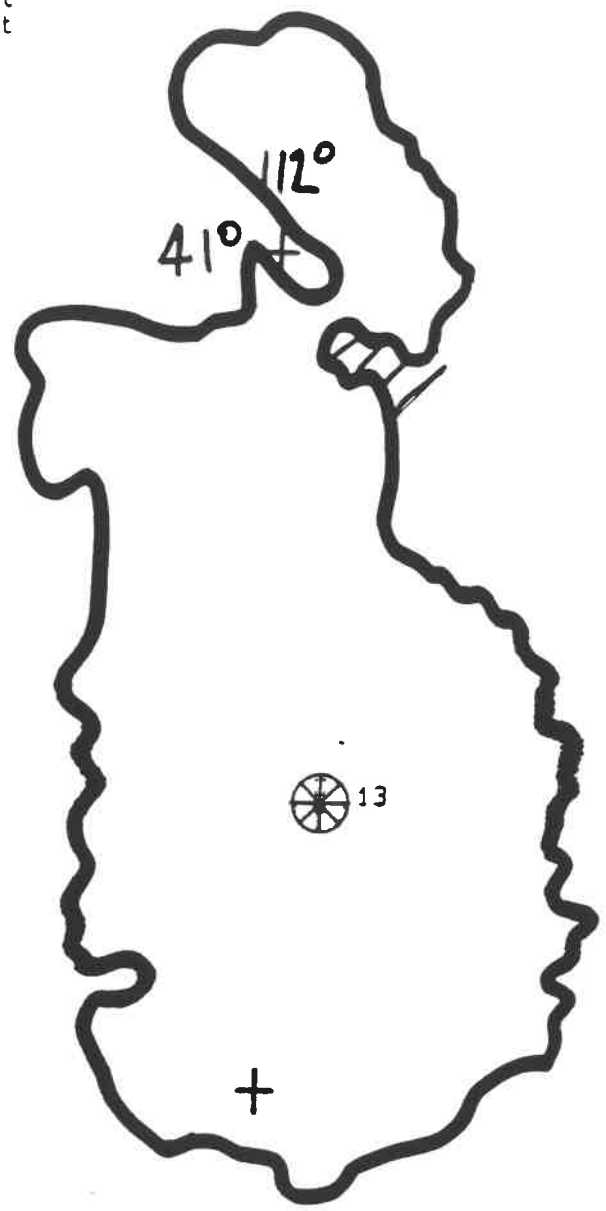
-142.0 db

109°
+41



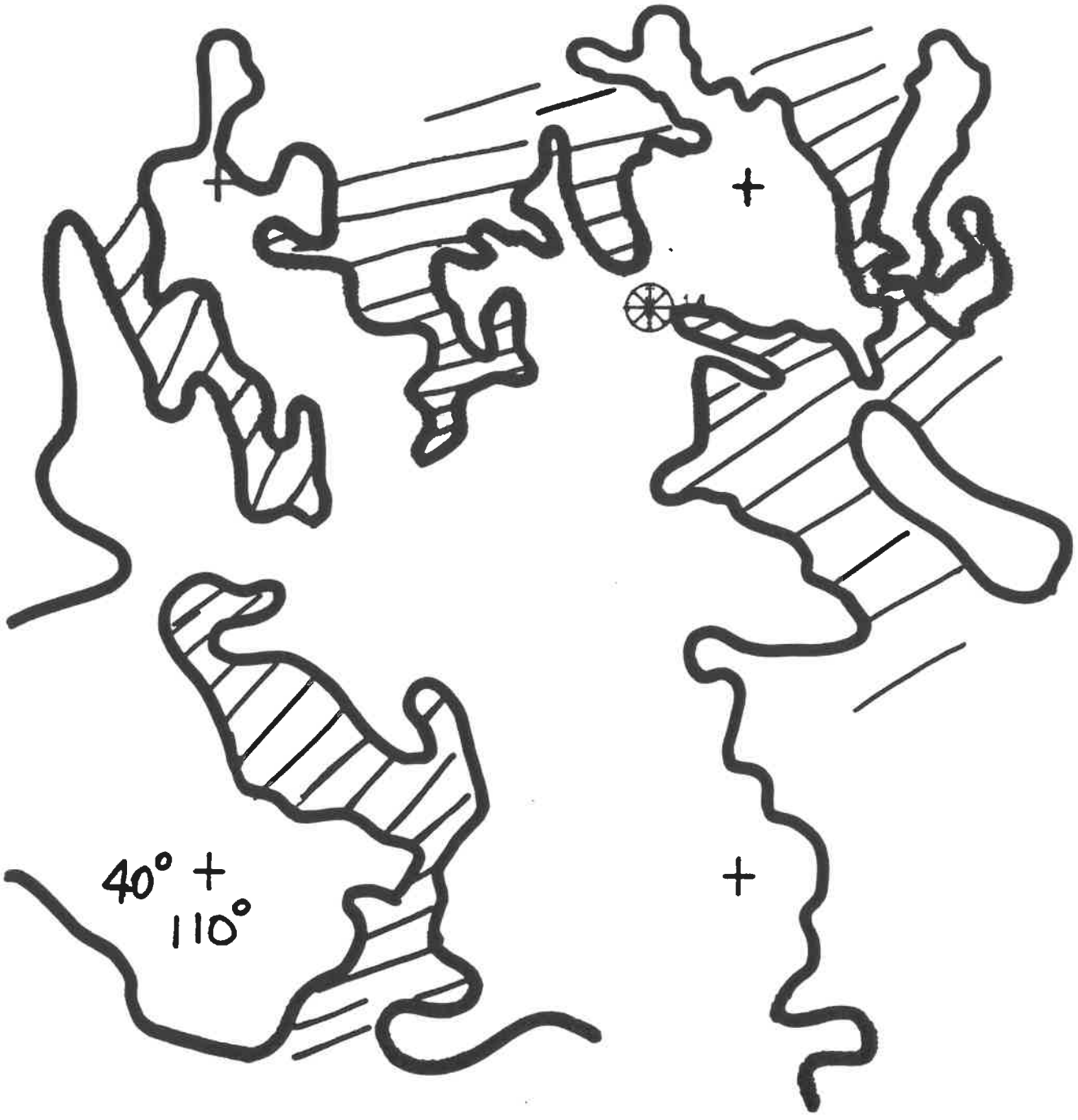
[illegible] DOT COMPLEX 13
14-JAN-91 11:29
850.00 MHZ FREQ
+40 40' 17.00"/-111 57' 24.00" Lat/Lon
SITE ELEVATION: 4310 feet
TX ANT. HEIGHT: 95 feet
SCALE FACTOR: 7.891414

-142.0 db



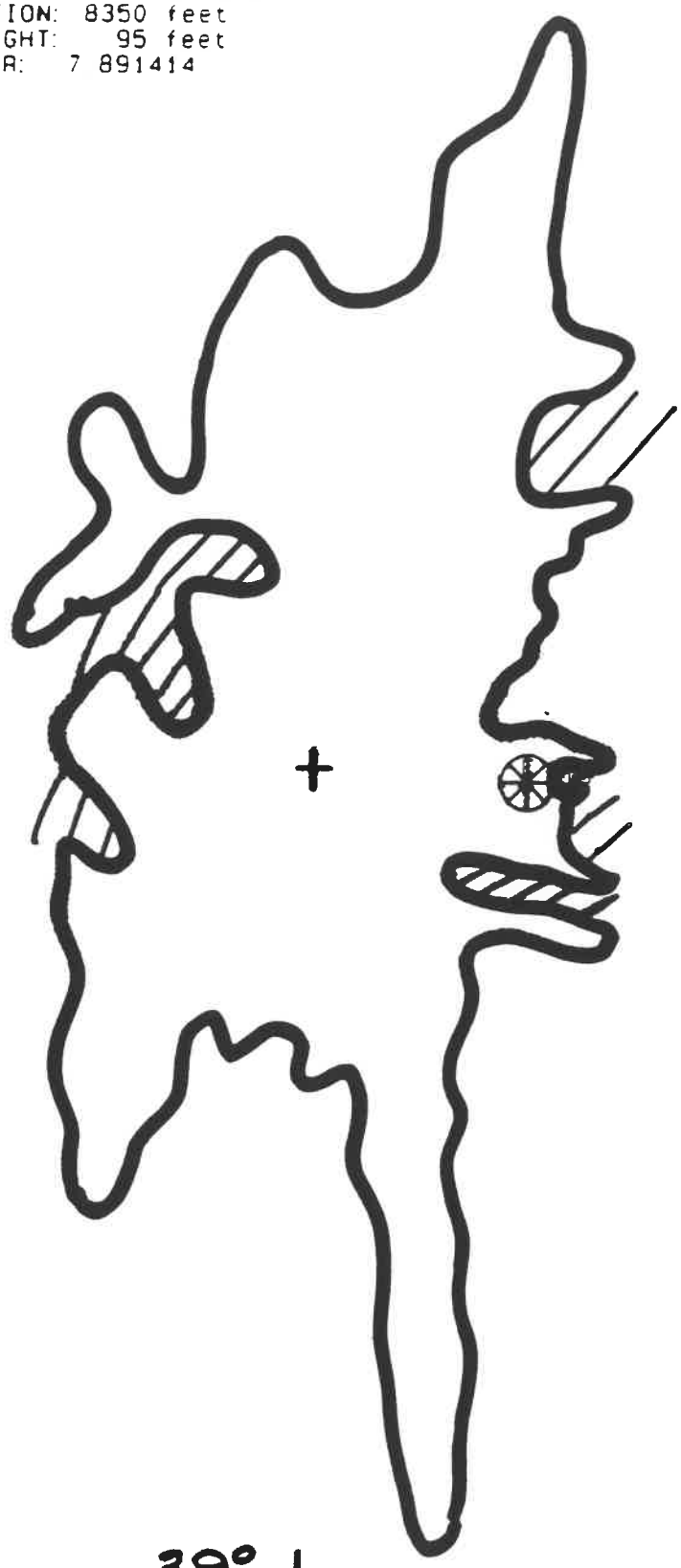
UTAH ASPHALT RIDGE 14
14-JAN-91 11:30
660.00 MHZ FREQ
+40 24' 40.00"/-109 35' 33.00" Lat/Lon
SITE ELEVATION: 5940 feet
TX ANT. HEIGHT: 75 feet
SCALE FACTOR: 7.891414

-142.0 db



UTAH, LEVAN PEAK 15
14-JAN-91 11 31
360 00 MHZ FREQ
+39 29' 31.00"/-111 49' 40 00" Lat/Lon
SITE ELEVATION: 8350 feet
TX ANT. HEIGHT: 95 feet
SCALE FACTOR: 7 891414

-142.0 db

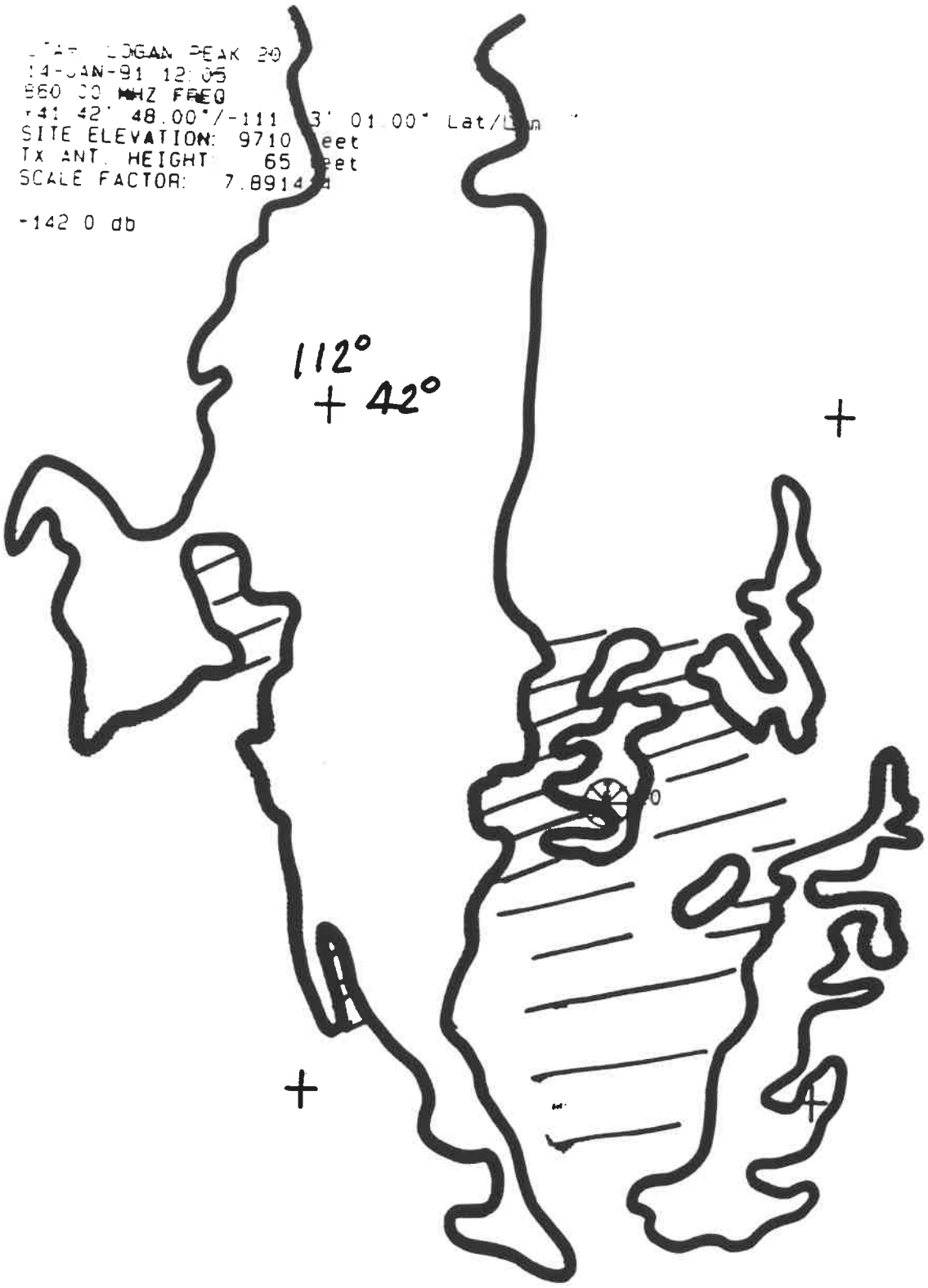


39° +
112°

UTAH, TEASDALE PEAK 15
14-JAN-91 11:35
860.00 MHZ FREQ
+38 17' 00.00"/-111 30' 37.00" Lat/Lon
SITE ELEVATION: 8462 feet
TX ANT. HEIGHT: 40 feet
SCALE FACTOR: 7 891414

-142.0 db

38° +
112°


LOGAN PEAK 20
14-JAN-91 12:05
880.00 MHZ FREQ
41 42' 48.00"/-111 3' 01.00" Lat/Lon
SITE ELEVATION: 9710 feet
TX ANT. HEIGHT 65 feet
SCALE FACTOR: 7.89143
-142.0 db
112°
42°

UTAH, TABBY MOUNTAIN 03
10-JAN-91 09:19
860.00 MHZ FREQ
+40 20' 53.00"/-110 47' 32.00" Lat/Lon
SITE ELEVATION: 9980 feet
TX ANT. HEIGHT: 55 feet
SCALE FACTOR: 7 891414

-142.0 db

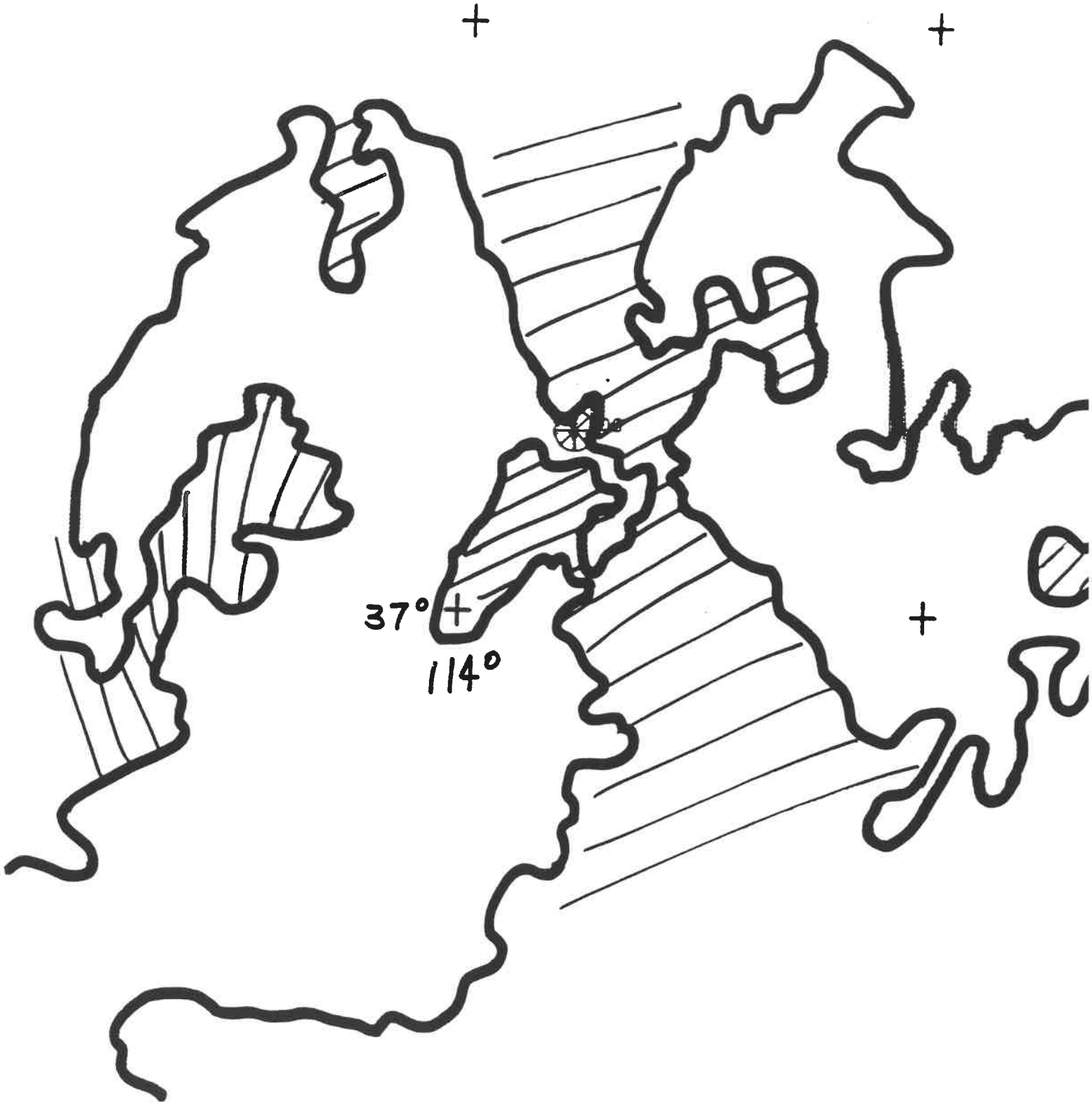
UTAH, FORD RIDGE 32
9-JAN-91 17:00
50.00 MHZ FREQ
+39 45' 23.00"/-110 59' 24.00" Lat/Lon
SITE ELEVATION: 9785 feet
TX ANT. HEIGHT: 80 feet
SCALE FACTOR: 7.891414

-142.0 db

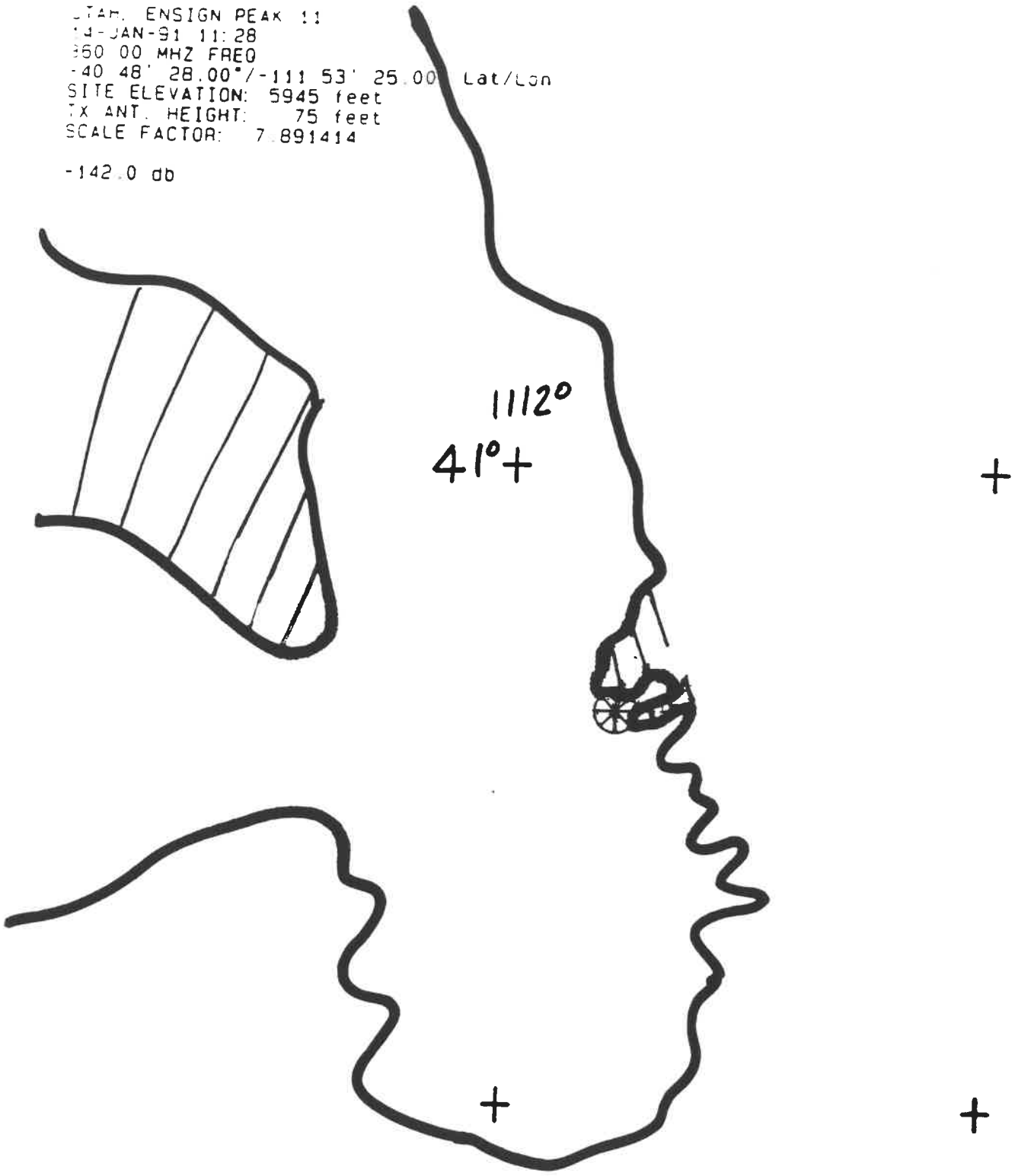

113°
39°
07

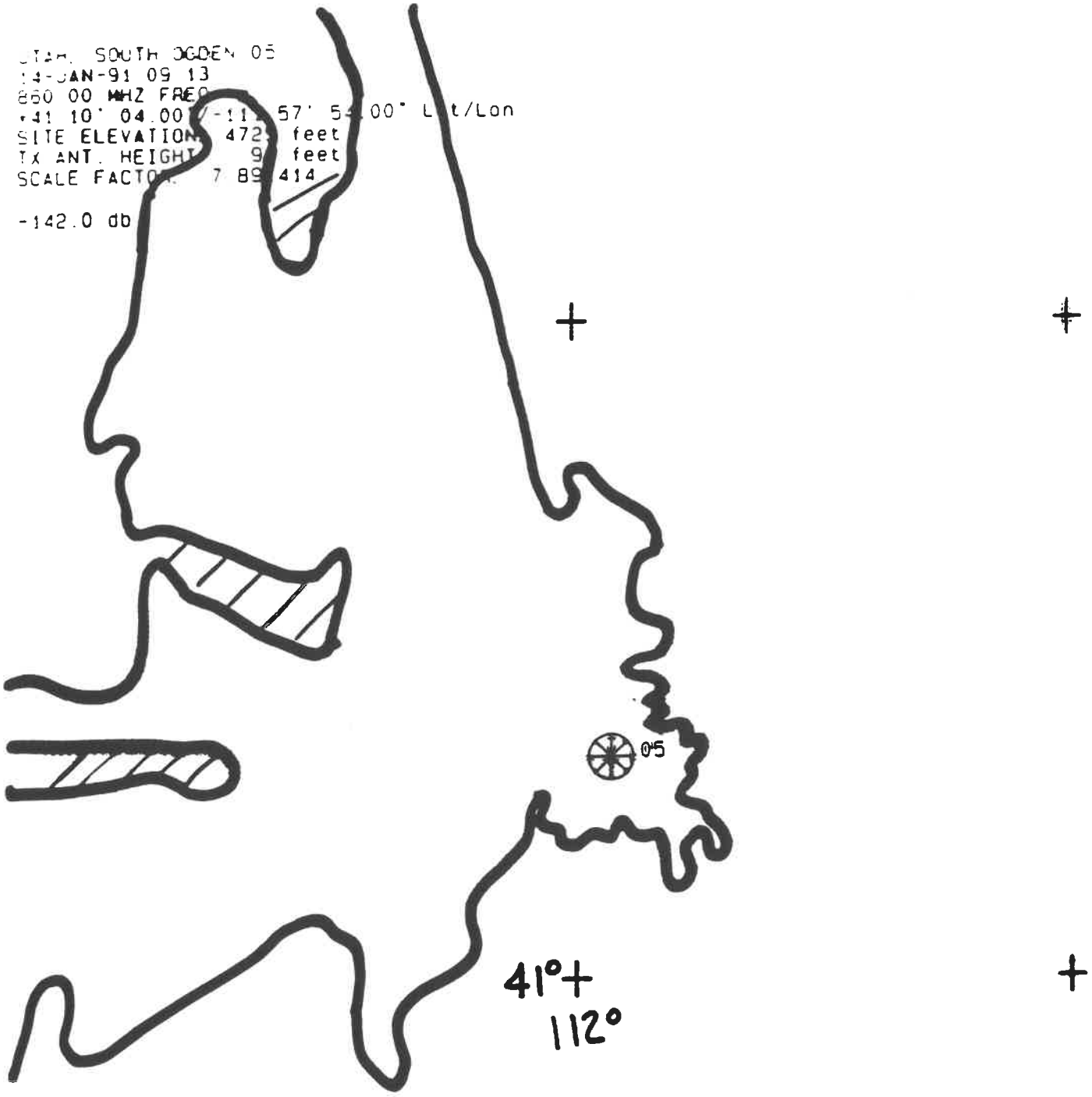
UTAH, UTAH HILL 08
14-JAN-91 11:23
[illegible]0.00 MHZ FREQ
37 09' 12.00"/-113 52' 50.00" Lat/Lon
SITE ELEVATION: 7520 feet
TX ANT. HEIGHT: 80 feet
SCALE FACTOR: 7.891414

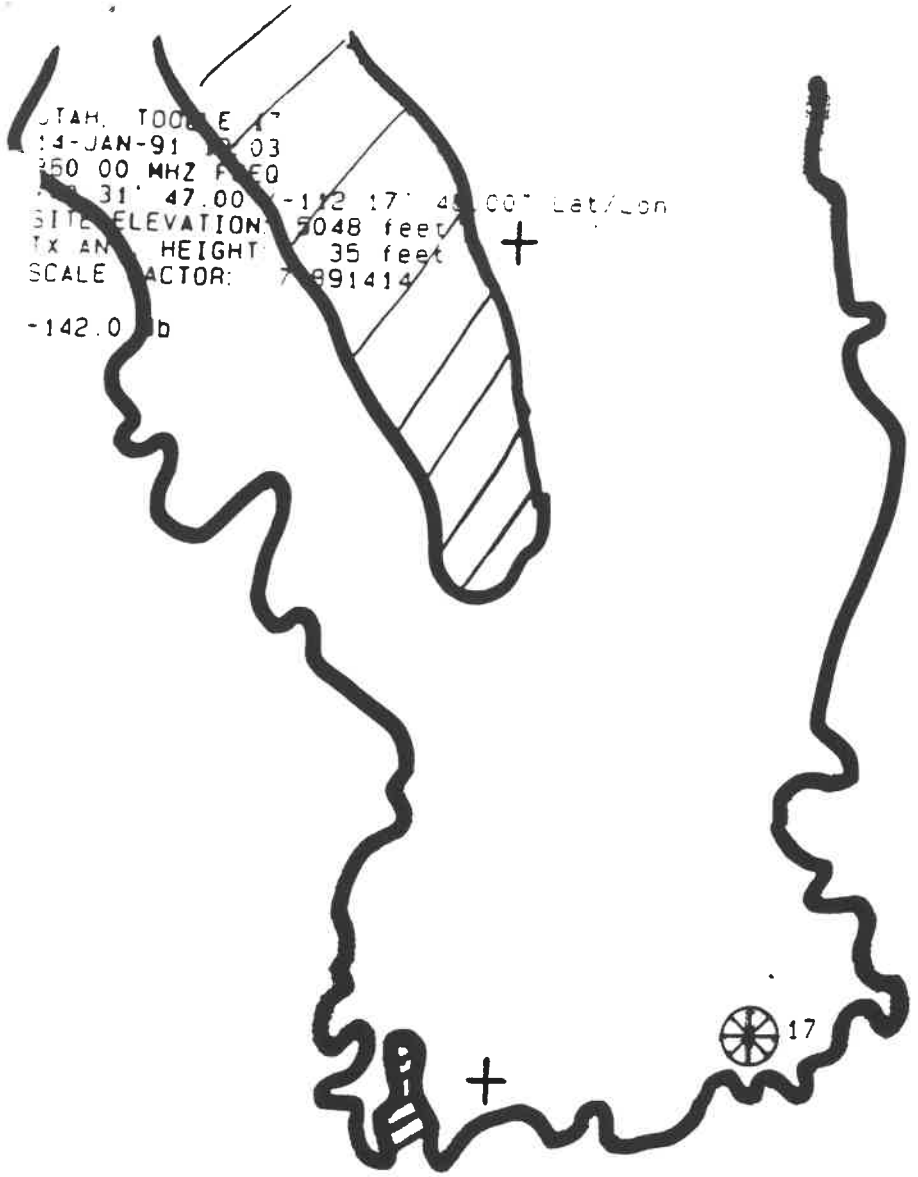
-142.0 db




TA- CEDAR MOUNTAIN DS
4-JAN-91 11:24
660.00 MHZ FREQ
+39 10' 17.00"/-110 37' 12.00" Lat/Lon
SITE ELEVATION: 7650 feet
TX ANT. HEIGHT: 95 feet
SCALE FACTOR: 7.891414
-142.0 db
+39°
111°


UTAH, ENSIGN PEAK 11
14-JAN-91 11:28
950 00 MHZ FREQ
40 48' 28.00"/-111 53' 25.00" Lat/Lon
SITE ELEVATION: 5945 feet
TX ANT. HEIGHT: 75 feet
SCALE FACTOR: 7.891414
-142.0 db
1112°
41°+

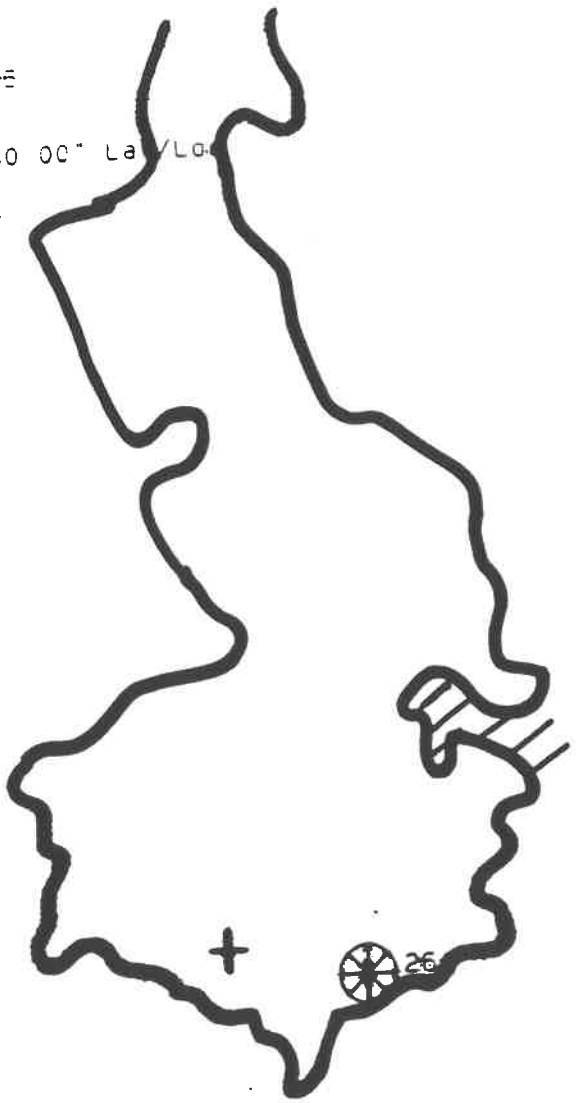

UTAH, SOUTH OGDEN 05
14-JAN-91 09 13
860 00 MHZ FREQ
41 10' 04.00"/-11 57' 54.00" Lat/Lon
SITE ELEVATION: 472 feet
TX ANT. HEIGHT: 9 feet
SCALE FACTOR: 7 89 414
-142.0 db
05
41°+
112°


UTAH, TOOELE
14-JAN-91
250 00 MHZ FREQ
31' 47.00" -112 17' 45.00" Lat/Lon
SITE ELEVATION: 5048 feet
Tx ANT HEIGHT: 35 feet
SCALE FACTOR: 1.001414
-142.0 db
17

112°
+ 410°

UTAH POINT OF MOUNTAIN 2E
16-JAN-91 09:03
860 00 MHZ FREQ
+40 29' 00.00"/-111 53' 40 00" Lat/Lon
SITE ELEVATION: 4740 feet
TX ANT. HEIGHT: 65 feet
SCALE FACTOR: 7 891414

-142.0 db



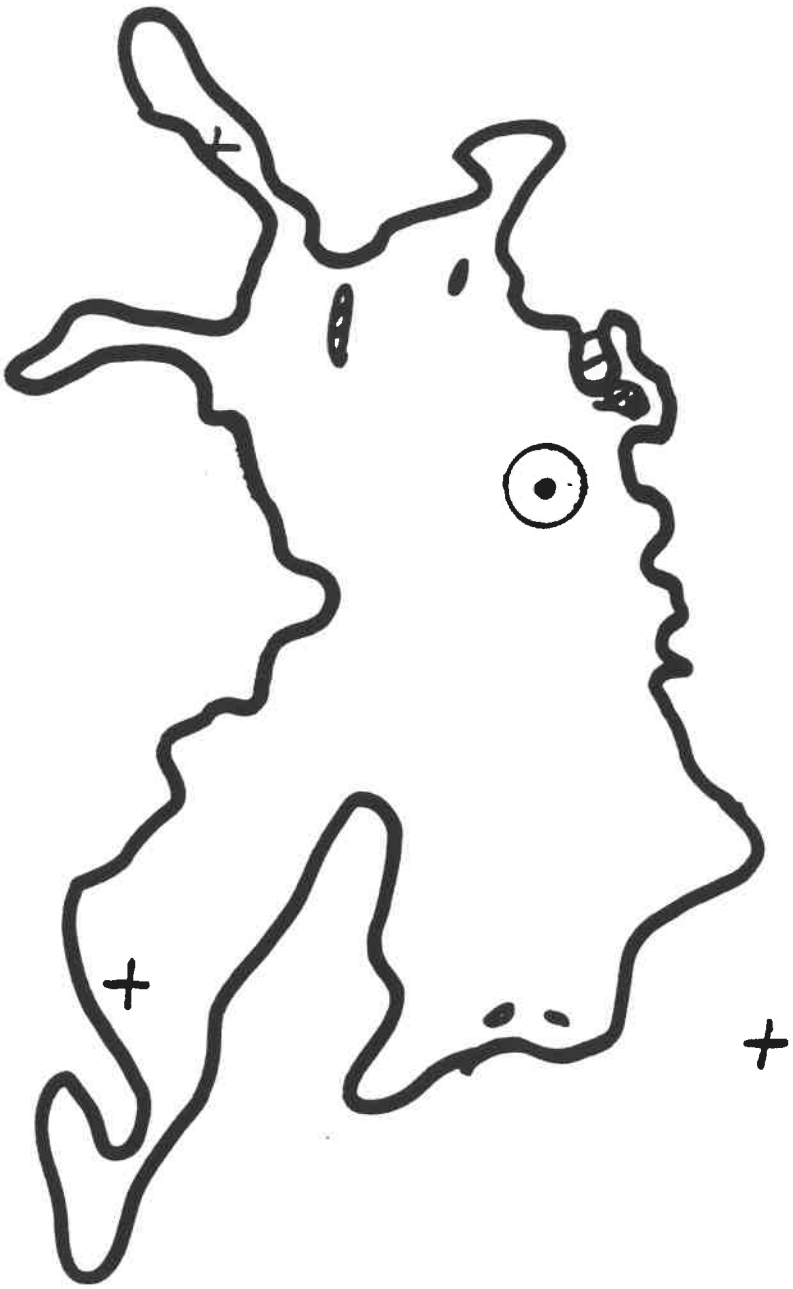
40° +
112°

UTAH, COALVILLE 23
14-JAN-91 12:13
860.00 MHZ FREQ
+40 55' 05.00"/-111 23' 50.00" Lat/Lon
SITE ELEVATION: 5610 feet
TX ANT. HEIGHT: 75 feet
SCALE FACTOR: 7 891414

-142.0 db

111°
+ 41°

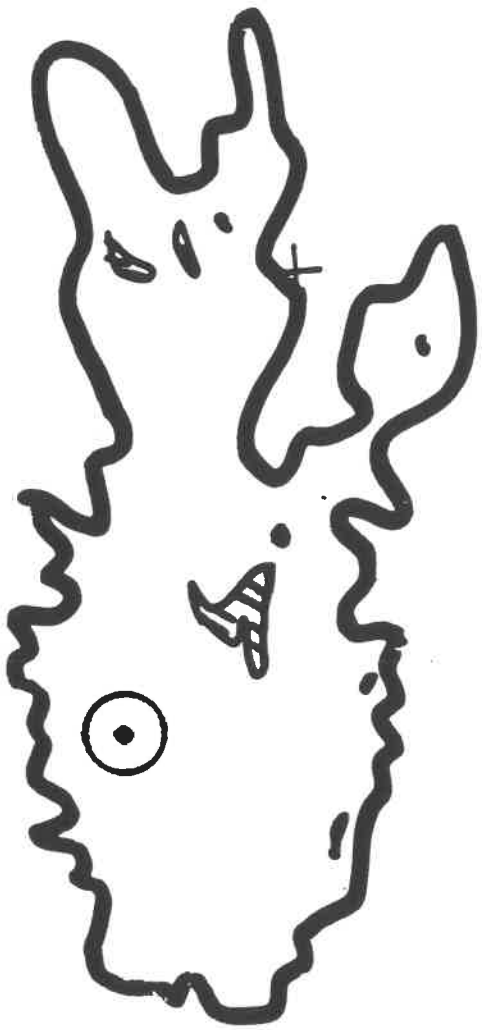
STATE OFFICE BLDG



OREM

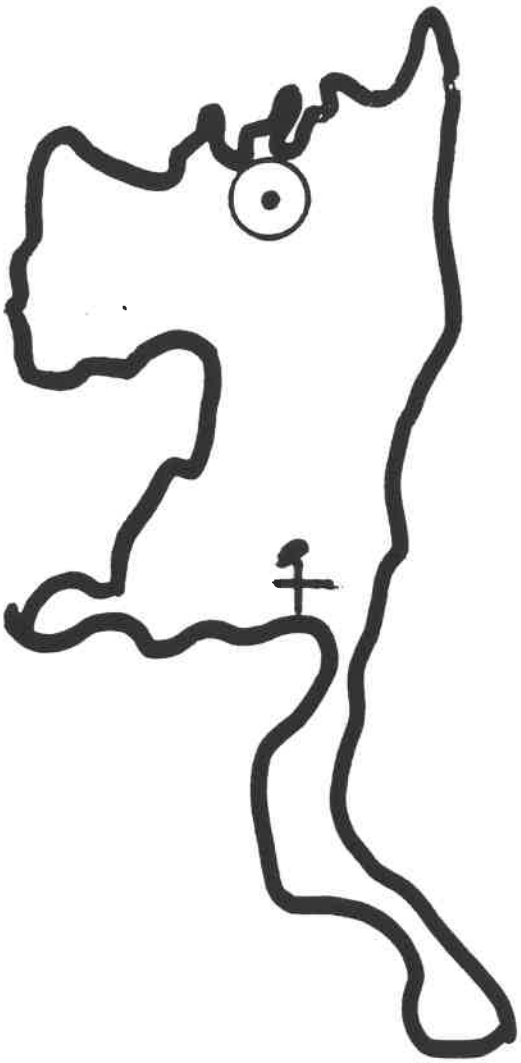
TAM, LOGAN, 21
14-JAN-91 12:07
550.00 MHZ FREQ
+41 44' 05.00"/-111 50' 06.00" Lat/Lon
SITE ELEVATION: 4535 feet
TX ANT. HEIGHT: 50 feet
SCALE FACTOR: 7.891414

-142.0 db



UTAH, WENDOVER PEAK 35
14-JAN-91 12:14
860.00 MHZ FREQ
+40 45' 16.00"/-114 01' 10.00" Lat Lon
SITE ELEVATION: 5057 feet
TX ANT. HEIGHT: 60 feet
SCALE FACTOR: 7 891414

-142.0 db



WENDOVER

UTAH VERNAL 19
14-JAN-91 12:05
860.00 MHZ FREQ
+40 27' 25.00"/-109 31' 32.00" Lat/Lom
SITE ELEVATION: 5321 feet
TX ANT. HEIGHT 55 feet
SCALE FACTOR: 7.891414

-142.0 db

VERNAL

EXHIBIT V

Public Notice and Mailed Invitation for Convener Meeting

THE SALT LAKE TRIBUNE

THURSDAY, MAY 19, 1988

Legal Notices

PUBLIC NOTICE

Having been duly certified to the Federal Communications Commission (FCC) by the Associated Public Safety Communications Officers, Inc. (APCO) as the Convenor of an initial meeting of representatives of parties eligible for radio licensing in the FCC's Public Safety and Special Emergency Radio Services to establish a Regional Planning Committee in the State of Utah as Region 41, I hereby given Public Notice that such an initial meeting will be held on July 13, 1988 at the Calvin L. Rampton Complex 4501 S. 2700 W., Salt Lake City, UT beginning at 10:00 A.M. This Region is one of 48 established by the FCC, throughout the United States.

The responsibility of the Regional Planning Committee will be to develop a Plan for use of frequencies in the 821-824 and 866-869 megahertz bands allocated by the FCC for use by such licensees. Parties interested in participating in the regional planning process should contact me.

This Public Notice is in accordance with the FCC's Report and Order in Gen. Docket No. 87-112, adopted by the FCC on November 24, 1987 and released on 12-18-87.

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

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

Robert T. Marz, Convenor
Utah Region
569 43rd Street
South Ogden, UT 84403
801-479-4101
K-48

UTAH CHAPTER

ASSOCIATED PUBLIC - SAFETY COMMUNICATIONS OFFICERS, Inc.

June 24, 1988

Dear Communications Administrator:

The Federal Communications Commission has opened up new 800 MHz radio frequencies for use by police, forestry and fire, highway maintenance, and local government agencies. As part of this release of frequencies, Congress required the FCC to put into place a national plan for public safety's future use of all radio frequencies. In development of this plan, the FCC has established 48 regions to develop the character of the plan on a local basis. Utah has been defined as a region.

The Utah Advisory Committee will be holding its first "formal" meeting on **July 13, 1988.** Public notice and legal notice publications of this meeting were made prior to May 13, 1988, and this letter is a follow-up to interested agencies. The Planning (Advisory) Committee is open to all agencies that operate on public safety radio channels, including federal, state, county, city and private organizations, such as hospitals, ambulance services, etc.

There are a number of items mandated by the FCC that must be included within the Utah plan prior to its acceptance by the FCC, and their release of this additional spectrum. This is your opportunity to become part of the plan which will govern the use of this new spectrum, as well as how the "turn back" frequencies will be utilized.

The meeting will be held at **10:00 AM** at the Calvin L. Rampton Complex (POST Classroom 10-N and 10-S) located at 4501 South 2700 West, Salt Lake City, Utah. During this meeting, the chairman to represent the Utah Region will be formally elected.

If further information concerning this meeting is desired, please call me at (801) 965-4878 or if you are unable to attend, but would like to receive information on future meetings, please notify me in writing (at 569 - 43rd Street, South Ogden, Utah, 84403).

Sincerely,

UTAH CHAPTER APCO

Robert T. Marz

Robert T. Marz
APCO Convenor

EXHIBIT VI

Review Committee Member Authorization

FINAL REVIEW COMMITTEE

I, Harold Carpenter, Chairman of the Information Technology Review Committee, do hereby indicate by my signature that this committee, acting as a Final Review Committee, has, on the 13th of June, 1991, completed its review and accepted the Region 41 800 MHz Plan.

Signed: Harold D. Carpenter
Chairman

6/13/91
Date

INFORMATION TECHNOLOGY REVIEW COMMITTEE (ITRC)

(May 8, 1991)

Harold Carpenter, Chairman
Office of Planning and Budget
116 State Capitol
BUILDING MAIL 538-1037

Floyd Astin, Administrator
Employment Security
174 Social Hall Avenue
BUILDING MAIL 533-2202

Scott Bean, Deputy Superintendent
Education Support Services
Office of Education
BUILDING MAIL 538-7513

Dennis Carver, Financial Manager
Natural Resources
1636 West North Temple
BUILDING MAIL 538-7307

Gordon Crabtree, Director
Department of Finance
State Office Building
BUILDING MAIL 538-3020

Sheldon Elman, Deputy Director
Department of Health
Cannon Health Building
BUILDING MAIL 538-6930

Eugene Findlay, Executive Director
Utah Department of Transportation
4501 South 2700 West
BUILDING MAIL 965-4113

Barclay Gardner
Chief Administrative Officer
Community & Economic Development
BUILDING MAIL 538-8710

Steve Grimshaw, Director
Information Technology Services (DAS)
State Office Building
BUILDING MAIL 538-3003

Dale Hatch, Director
Office of Planning and Budget
116 State Capitol
BUILDING MAIL 538-1562

Craig Jorgensen, Assistant Director
ITS - Telecommunications
State Office Building
BUILDING MAIL 538-3332

Charles Larsen, Deputy Director
Department of Human Services
120 North 200 West
BUILDING MAIL 538-3998

Nick Morgan
Inspector General
Department of Corrections
BUILDING MAIL 265-5596

Clyde Nichols, Executive Director
State Tax Commission
Heber M. Wells Building
BUILDING MAIL 530-6466

Alice Shearer, Executive Director
Administrative Services
State Office Building
BUILDING MAIL 538-3010

Ted Stewart, Commission Chairman
Public Service Commission
Heber M. Wells Building
BUILDING MAIL 530-6716

Roland Squire, Director, MIS
Department of Public Safety
4501 South 2700 West
BUILDING MAIL 965-4790

Kevin Van Ausdal, Deputy Director
Department of Commerce
Heber M. Wells Building
BUILDING MAIL 530-6702

EXHIBIT VII

Adjacent Region Coordination

ARIZONA PUBLIC-SAFETY COMMUNICATIONS OFFICERS ASSOCIATION

February 25, 1991

Mr. Steven H. Proctor
State of Utah
Department of Public Safety
Telecommunications Division
4501 South 2700 West
Salt Lake City, Utah 84119-5998

Dear Steve:

I have carefully reviewed the final draft of Utah Region 41 800 MHz Plan. Congratulations on an excellent plan! You and your committee are to be commended.

Since your region has just given Region 3 approval of the our final draft of the plan, I can state that we are in complete concurrence.

We shall make certain that co-channel coordination will take place on a channel-by-channel basis when they are assigned as indicated in your letter of concurrence.

I wish to thank you on giving me the opportunity to review Utah's plan and would wish to receive an FCC approved copy. I will also make available to you a copy of Region 3's FCC approved plan.

Sincerely,

Anthony J. Tricoci
Chairman
Region 3

cc.plnfile

State of Utah
DEPARTMENT OF PUBLIC SAFETY
TELECOMMUNICATIONS DIVISION

Norman H. Bangerter
Governor
D. Douglas Bodrero
Commissioner
Brant L. Johnson
Deputy Commissioner

Steven H. Proctor
Director
4801 South 2700 West
Salt Lake City, Utah 84119-5998
801 965-4085

February 7, 1991

Anthony Tricoci
City of Mesa
Communications Division
P.O. Box 1466
Mesa, Arizona 85211-1466

Dear Mr. Chairman,

Enclosed is the final draft of the Utah Region 41 800 MHz Plan. This plan has been developed through a series of regional meetings of Public Safety/Emergency Services users, and will be approved by the final review committee for this region after any comments you may make on the plan.

There is currently a backlog at APCO on the circlelization loading program. Therefore, while this plan will have that in its final form, it is not included in this draft. Also not included in this draft is the propagation findings. This is because of corrections that are now ongoing.

While these two exhibits are important, they do not constitute criterion that would make your review more difficult. If, in the future, you would like to have us send you copies of these two exhibits, we would be happy to do so. We do not feel that the lack of the exhibits, as noted, will create problems for your region.

As part of this plan, you will see the frequency allocation for this region. In cases where we had received your region's plan, we have attempted to avoid conflict with frequency in the bordering areas of our regions. In some instances there may need to be joint use of frequencies between regions on a regular basis.

Please review this plan. If your region has no conflicts with this plan or frequency allocation, please indicate your concurrence by signing below and returning this concurrence letter to Steven Proctor, Chairman of Region 41, by the first of March 1991. If there are matters of discussion, you can contact me at the Utah Department of Public Safety, 801-965-4086. If we have not heard from you by then, we will accept this notification as coordination with your region.

We will be submitting our plan to the Federal Communications Commission during the first week of March.

With appreciation for your review,

Steven H. Proctor
Chairman 800 MHz Committee
Region 41

Region 3 has reviewed Utah's Region 41 800 MHz Plan. This concurrence and review constitutes the coordination in conjunction with Region 41.

Anthony Tricoci
Chairman for Region 3

2/25/91
Date

State of Utah
DEPARTMENT OF PUBLIC SAFETY
TELECOMMUNICATIONS DIVISION

Norman H. Bangerter
Governor
D. Douglas Bodrero
Commissioner
Brant L. Johnson
Deputy Commissioner

Steven H. Proctor
Director
4501 South 2700 West
Salt Lake City, Utah 84119-5998
801 965-4085

February 7, 1991

Douglas Noe
Regional Plan Update Committee
Supt. of Radio Engineers
9th and Columbine
Denver, Colorado 80206

Dear Mr. Chairman,

Enclosed is the final draft of the Utah Region 41 800 MHz Plan. This plan has been developed through a series of regional meetings of Public Safety/Emergency Services users, and will be approved by the final review committee for this region after any comments you may make on the plan.

There is currently a backlog at APCO on the circlelization loading program. Therefore, while this plan will have that in its final form, it is not included in this draft. Also not included in this draft is the propagation findings. This is because of corrections that are now ongoing.

While these two exhibits are important, they do not constitute criterion that would make your review more difficult. If, in the future, you would like to have us send you copies of these two exhibits, we would be happy to do so. We do not feel that the lack of the exhibits, as noted, will create problems for your region.

As part of this plan, you will see the frequency allocation for this region. In cases where we had received your region's plan, we have attempted to avoid conflict with frequency in the bordering areas of our regions. In some instances there may need to be joint use of frequencies between regions on a regular basis.

Please review this plan. If your region has no conflicts with this plan or frequency allocation, please indicate your concurrence by signing below and returning this concurrence letter to Steven Proctor, Chairman of Region 41, by the first of March 1991. If there are matters of discussion, you can contact me at the Utah Department of Public Safety, 801-965-4086. If we have not heard from you by then, we will accept this notification as coordination with your region.

We will be submitting our plan to the Federal Communications Commission during the first week of March.

With appreciation for your review,

Steven H. Proctor
Chairman 800 MHz Committee
Region 41

Region 7 has reviewed Utah's Region 41 800 MHz Plan. This concurrence and review constitutes the coordination in conjunction with Region 41.

Douglas Noe
Chairman for Region 7

3-7-91
Date

State of Utah
DEPARTMENT OF PUBLIC SAFETY
TELECOMMUNICATIONS DIVISION

Norman H. Bangerter
Governor
D. Douglas Bodrero
Commissioner
Brant L. Johnson
Deputy Commissioner

Steven H. Proctor
Director
4501 South 2700 West
Salt Lake City, Utah 84119-5998
801 965-4085

February 7, 1991

Tom Thompson
Idaho State Police
3311 West State Street
Boise, Idaho 83720

Dear Mr. Chairman,

Enclosed is the final draft of the Utah Region 41 800 MHz Plan. This plan has been developed through a series of regional meetings of Public Safety/Emergency Services users, and will be approved by the final review committee for this region after any comments you may make on the plan.

There is currently a backlog at APCO on the circlelization loading program. Therefore, while this plan will have that in its final form, it is not included in this draft. Also not included in this draft is the propagation findings. This is because of corrections that are now ongoing.

While these two exhibits are important, they do not constitute criterion that would make your review more difficult. If, in the future, you would like to have us send you copies of these two exhibits, we would be happy to do so. We do not feel that the lack of the exhibits, as noted, will create problems for your region.

As part of this plan, you will see the frequency allocation for this region. In cases where we had received your region's plan, we have attempted to avoid conflict with frequency in the bordering areas of our regions. In some instances there may need to be joint use of frequencies between regions on a regular basis.

Please review this plan. If your region has no conflicts with this plan or frequency allocation, please indicate your concurrence by signing below and returning this concurrence letter to Steven Proctor, Chairman of Region 41, by the first of March 1991. If there are matters of discussion, you can contact me at the Utah Department of Public Safety, 801-965-4086. If we have not heard from you by then, we will accept this notification as coordination with your region.

We will be submitting our plan to the Federal Communications Commission during the first week of March.

With appreciation for your review,

Steven H. Proctor
Chairman 800 MHz Committee
Region 41

Region 12 has reviewed Utah's Region 41 800 MHz Plan. This concurrence and review constitutes the coordination in conjunction with Region 41.

Tom Thompson
Chairman for Region 12

9 mar 91
Date

State of Utah
DEPARTMENT OF PUBLIC SAFETY
TELECOMMUNICATIONS DIVISION

Norman H. Bangerter
Governor
D. Douglas Bodrero
Executive Director
Brent T. Johnson
Deputy Commissioner

Steven H. Proctor
Director
4501 South 2700 West
Salt Lake City, Utah 84119-5998
(801) 965-4085

February 7, 1991

Richard Sheldrew
Nevada Emergency Management Div.
2525 So. Carson Street
Carson City, Nevada 89710

Dear Mr. Chairman,

Enclosed is the final draft of the Utah Region 41 800 MHz Plan. This plan has been developed through a series of regional meetings of Public Safety/Emergency Services users, and will be approved by the final review committee for this region after any comments you may make on the plan.

There is currently a backlog at APCO on the circlelization loading program. Therefore, while this plan will have that in its final form, it is not included in this draft. Also not included in this draft is the propagation findings. This is because of corrections that are now ongoing.

While these two exhibits are important, they do not constitute criterion that would make your review more difficult. If, in the future, you would like to have us send you copies of these two exhibits, we would be happy to do so. We do not feel that the lack of the exhibits, as noted, will create problems for your region.

As part of this plan, you will see the frequency allocation for this region. In cases where we had received your region's plan, we have attempted to avoid conflict with frequency in the bordering areas of our regions. In some instances there may need to be joint use of frequencies between regions on a regular basis.

Please review this plan. If your region has no conflicts with this plan or frequency allocation, please indicate your concurrence by signing below and returning this concurrence letter to Steven Proctor, Chairman of Region 41, by the first of March 1991. If there are matters of discussion, you can contact me at the Utah Department of Public Safety, 801-965-4086. If we have not heard from you by then, we will accept this notification as coordination with your region.

We will be submitting our plan to the Federal Communications Commission during the first week of March.

With appreciation for your review,

Steven H. Proctor
Chairman 800 MHz Committee
Region 41

Region 27 has reviewed Utah's Region 41 800 MHz Plan. This concurrence and review constitutes the coordination in conjunction with Region 41.

Richard Sheldrew
Chairman for Region 27

2/7/91
Date

State of Utah
DEPARTMENT OF PUBLIC SAFETY
TELECOMMUNICATIONS DIVISION

Norman H. Bangerter, Governor
D. Douglas Bodrero, Commissioner
Brant L. Johnson, Deputy Commissioner

Steven H. Proctor
Director

4501 South 2700 West
Salt Lake City, Utah 84119-5998
801 965-4085

February 7, 1991

Irving Skinner
State of New Mexico
P.O. Box 5393
Santa Fe, New Mexico 87502-5393

Dear Mr. Chairman,

Enclosed is the final draft of the Utah Region 41 800 MHz Plan. This plan has been developed through a series of regional meetings of Public Safety/Emergency Services users, and will be approved by the final review committee for this region after any comments you may make on the plan.

There is currently a backlog at APCO on the circlelization loading program. Therefore, while this plan will have that in its final form, it is not included in this draft. Also not included in this draft is the propagation findings. This is because of corrections that are now ongoing.

While these two exhibits are important, they do not constitute criterion that would make your review more difficult. If, in the future, you would like to have us send you copies of these two exhibits, we would be happy to do so. We do not feel that the lack of the exhibits, as noted, will create problems for your region.

As part of this plan, you will see the frequency allocation for this region. In cases where we had received your region's plan, we have attempted to avoid conflict with frequency in the bordering areas of our regions. In some instances there may need to be joint use of frequencies between regions on a regular basis.

Please review this plan. If your region has no conflicts with this plan or frequency allocation, please indicate your concurrence by signing below and returning this concurrence letter to Steven Proctor, Chairman of Region 41, by the first of March 1991. If there are matters of discussion, you can contact me at the Utah Department of Public Safety, 801-965-4086. If we have not heard from you by then, we will accept this notification as coordination with your region.

We will be submitting our plan to the Federal Communications Commission during the first week of March.

With appreciation for your review,

Steven H. Proctor
Chairman 800 MHz Committee
Region 41

Region 29 has reviewed Utah's Region 41 800 MHz Plan. This concurrence and review constitutes the coordination in conjunction with Region 41.

Irving Skinner
Chairman for Region 29

02-24-91
Date

Norman H. Bangerter
Governor
D. Douglas Bodrero
Commissioner
Brant L. Johnson
Deputy Commissioner

State of Utah
DEPARTMENT OF PUBLIC SAFETY
TELECOMMUNICATIONS DIVISION

Steven H. Proctor
Director

4501 South 2700 West
Salt Lake City, Utah 84119-5998
801-965-4085

February 7, 1991

William Smith
Wyoming Highway Dept. of Communications
P.O. Box 1708
Cheyenne, Wyoming 82002-9019

Dear Mr. Chairman,

Enclosed is the final draft of the Utah Region 41 800 MHz Plan. This plan has been developed through a series of regional meetings of Public Safety/Emergency Services users, and will be approved by the final review committee for this region after any comments you may make on the plan.

There is currently a backlog at APCO on the circlelization loading program. Therefore, while this plan will have that in its final form, it is not included in this draft. Also not included in this draft is the propagation findings. This is because of corrections that are now ongoing.

While these two exhibits are important, they do not constitute criterion that would make your review more difficult. If, in the future, you would like to have us send you copies of these two exhibits, we would be happy to do so. We do not feel that the lack of the exhibits, as noted, will create problems for your region.

As part of this plan, you will see the frequency allocation for this region. In cases where we had received your region's plan, we have attempted to avoid conflict with frequency in the bordering areas of our regions. In some instances there may need to be joint use of frequencies between regions on a regular basis.

Please review this plan. If your region has no conflicts with this plan or frequency allocation, please indicate your concurrence by signing below and returning this concurrence letter to Steven Proctor, Chairman of Region 41, by the first of March 1991. If there are matters of discussion, you can contact me at the Utah Department of Public Safety, 801-965-4086. If we have not heard from you by then, we will accept this notification as coordination with your region.

We will be submitting our plan to the Federal Communications Commission during the first week of March.

With appreciation for your review,

Steven H. Proctor
Chairman 800 MHz Committee
Region 41

Region 46 has reviewed Utah's Region 41 800 MHz Plan. This concurrence and review constitutes the coordination in conjunction with Region 41.

William H. Smith
William Smith
Chairman for Region 46

2-25-91
Date

EXHIBIT VIII

Population by Counties

POPULATION BY COUNTIES

County	Population (1990)
Beaver	4,765
Box Elder	36,485
Cache	70,183
Carbon	20,228
Daggett	690
Davis	187,941
Duchesne	12,645
Emery	10,332
Garfield	3,980
Grand	6,620
Iron	20,789
Juab	5,817
Kane	5,169
Millard	11,333
Morgan	5,528
Piute	1,277
Rich	1,725
San Juan	12,621
Salt Lake	725,956
Sanpete	16,259
Sevier	15,431
Summit	15,518
Tooele	26,601
Uintah	22,211
Utah	263,590
Wasatch	10,089
Washington	48,560
Wayne	2,177
Weber	158,330
TOTAL:	**1,722,850**

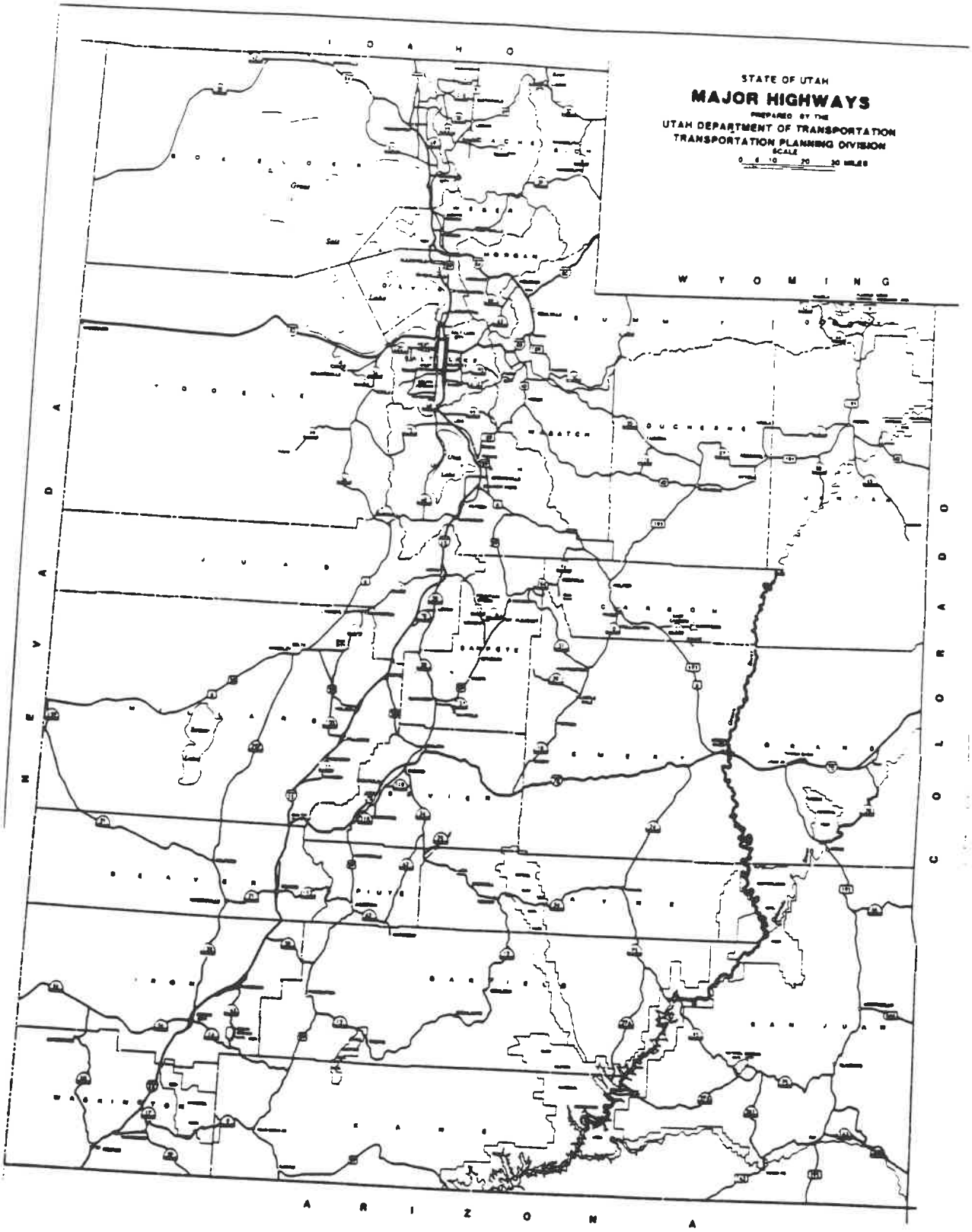

STATE OF UTAH
MAJOR HIGHWAYS
PREPARED BY THE
UTAH DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PLANNING DIVISION
SCALE
0 5 10 20 30 MILES
I D A H O
W Y O M I N G
N E V A D A
C O L O R A D O
A R I Z O N A

EXHIBIT IX

Sub-Regional Meeting, Draft Planning Document, and Invitation

UTAH CHAPTER

ASSOCIATED PUBLIC - SAFETY COMMUNICATIONS OFFICERS, Inc.

REGION 41 - STATE OF UTAH

800 MHz REGIONAL PLANNING MEETINGS

The Federal Communications Commission, through General Docket No. 87-112, has for the first time in history given the public safety community an active role in shaping its own future in the planning and use of vital new 800 MHz spectrum. This has included planning at the national level through the development and adoption of a National Public Safety Plan, and also at the regional level through the establishment of 55 local planning regions charged with the development of comprehensive regional public safety plans specifically addressing their own local requirements (the state of Utah comprises Region 41).

In response to congressional directive, Associated Public Safety Communications Officer's Inc. (APCO) was designated by the FCC to ensure the regional plans were developed and submitted for approval, and to ensure interagency compatibility for effective and efficient use of this new spectrum within public safety.

Demand for spectrum is outstripping the resource. There is no more spectrum being manufactured. As the demand for spectrum continues to grow, it will have to be largely satisfied from within the existing public safety allocations.

Those who are not capable of implementing their share of licensed spectrum will lose it to those who are. The pressure is, therefore, building to use spectrum efficiently. The plan must ensure that the new channels are used effectively and efficiently for important public safety functions such as law enforcement, fires and emergency medical services.

Utah's (Region 41) draft plan for utilizing 800 MHz spectrum will be presented at a series of meetings in various geographical locations throughout the state. These meetings will give all involved an opportunity to discuss the draft plan with agency and local representatives to formulate a finalized plan for submission to the FCC for approval.

The meeting schedule is as follows:

10:00 a.m.	SEP. 4, 1990	Logan - City Council Meeting Room
10:00 a.m.	SEP. 5, 1990	Provo - Utah County Complex
9:00 a.m.	SEP. 7, 1990	Salt Lake - Wasatch Communications Center
1:00 p.m.	SEP. 18, 1990	Moab - City Council Chambers
1:00 p.m.	SEP. 19, 1990	Price - Carbon Co. Commission Small Meeting Rm.
10:00 a.m.	SEP. 20, 1990	Vernal Communications Center - UHP Conference Rm.
10:00 a.m.	SEP. 21, 1990	Farmington - Davis County Jail Annex
9:00 a.m.	SEP. 25, 1990	Richfield - Sevier County Courthouse Auditorium
9:00 a.m.	SEP. 26, 1990	Cedar City - Iron Co. Sheriff's Conference Room
10:00 a.m.	OCT. 16, 1990	Ogden - UHP Conference Room

While this is no guarantee that we are all going to immediately move to the 800 MHz frequency spectrum, this plan must be in place if Utah wants to ensure its position in the future with mobile radio technology.

If you have questions concerning this plan, please call Milt Davis at 272-0650 or 965-4747 or Steve Proctor at 965-4086.

Thank you for your willingness to support this program.

Steven H. Proctor
Chairman,
800 MHz Planning Committee

Attachments

Logan City Council Building
255 North Main
Logan, Utah 84321

Utah County Complex
100 East Center
Provo, Utah 84603

Wasatch Communications Center
14737 South Minuteman Road
Draper, Utah 84020

Moab City Council Building
125 East Center
Moab, Utah 84532

Carbon County Courthouse
120 East Main
Price, Utah 84501

City/County Building
495 East Main
Vernal, Utah 84078

Davis County Jail Annex
50 East State
Farmington, Utah 84025

Sevier County Courthouse
250 North Main
Richfield, Utah 84701

Iron County Sheriff's Office
2130 North Main
Cedar City, Utah 84720

Weber Communications Center
615 East 5300 South
Ogden, Utah 84405

UTAH

REGION 41

800 MHz PLANNING MEETINGS

1. Welcome and Introduction

2. Explanation of the Planning Process and Requirements

3. Discussion of 800 MHz Trunking Concepts

4. Presentation of Draft 800 MHz Plan for Region 41

5. Questions and Discussion - Open Forum

6. Summary

DRAFT

June 2, 1990

UTAH REGION 41
800MHZ REGIONAL PLAN

INTRODUCTION AND DEVELOPMENT OF PLAN

This draft planning document of the Utah regional plan is in response to the Report and Order 87-112 of the Federal Communications Commission (FCC). This Report and Order is designed to establish a national plan for the use of a proposed Public Safety and Special Emergency Services in the 800mhz frequencies band designed to serve the future needs of those in these services. The establishment of the national plan is based on acceptance by the FCC of regional plans of which the state of Utah comprises region 41.

This opportunity to have a local major input into our own projected future needs in Public Safety is unique and places some burden on the Public Safety, Special Emergency and other governmental entities to provide the required input into the planning process.

The process has been ongoing. We have had two public meetings appropriately announced to discuss the ongoing processes that we should undertake. In the second of these meetings it was suggested by a user present to have a plan written up to which others could respond. To this end the chairman has provided the following:

1. A questionnaire was designed to help define the various aspects of the current and projected radio needs for the next 15 years or until 2005.

2. That questionnaire was mailed to all known eligible users of Public Safety radio services throughout the State. The mailing list was made up of those who had attended the two meetings and by all licensees as provided by the APCO list for Utah. We mailed out 296 questionnaires and received 183 copies of the questionnaire back, which was a 62% return. Of those returned there were 26 that indicated they did not use radio and therefore had not filled out the questionnaire. One was returned without the front identification page and the data therefore not used. There where some obvious major users that did not respond to the questionnaire and telephone calls were made to further contact them and get the information relating to the questionnaire.

provide for the needed coverage throughout the state. This is provided as Exhibit 3.

REGIONAL PROBLEMS AND OPPORTUNITIES IN DEVISING A REGIONAL SYSTEM CONCEPT

Utah as many other Western States has the problem of wide deviations in population density and an extremely large geographic area to serve. 1,479,085 people or 85% of the population of Utah lives along what is called the "Wasatch Front". The Wasatch Front is comprised of the area from the city of Ogden on the North, through Salt Lake City, the capital of Utah, to Provo on the South. There is an extension of other communities on this front which basically comprises the Western slope of the Wasatch mountains. Much of the rest of the populace of Utah is spread throughout the State and runs the gauntlet of communities with a few families to communities up to 50 thousand people.

The total state population estimated for the year 1990 is 1,740,100. The projected population for the year 2005 is 2,106,800. The geographic area is Utah is 82.076 square miles.

The number of radios currently in use throughout the state in this service is estimated at 18,000 mobiles and handheld radios. This is estimated because of those that did not respond to the questionnaire, and indeed because of the overall accuracy of the measuring method of the multiple agencies involved.

Utah because of its large geographic land mass and the diversity of people has the problem, we are sure is not unique to Utah, of a perceived need for control of frequencies and channels. It also has the problems associated with individuals elected by the population and the perceived needs to be in control of their individual communications need in their areas of service.

There is also a lack, (perceived on our part) of understanding of what the 800MHZ trunked systems could do for Utah and the multiple entities within the Public Safety communities. Both in the utilization of the system in a frequency saving way, and in the ability to provide excellent day to day operational service, security and the interconnectability of agencies who of necessity find themselves in need of communications with each other.

As with any plan that will affect everyone in this service in the State, the long term planning effort that is required to create such a regional plan and then to look forward to it's financing and implementation is one that will require ingenuity and effort to accomplish, if it is to be realized in an effective way.

		622,624,626
WEBER	15	*601,715,602,714,...628,630,632, 634,636,640,642,644,646,648,650, 652,654,656,658
MORGAN	4	*601,753,602,714,...660,662,664,666
RICH	5	*601,639,602,714,...668,670,672,674, 678
DAVIS	10	*601,677,602,714,791,...680,682,684, 686,688,690,692,694,696,698
TOOELE	8	*601,753,602,714,...700,702,704,706, 708,710,712,716,
SALT LAKE	40	*601,753,602,714,791,...718,720,722, 724,726,728,730,732,734,736,738, 740,742,744,746,748,750,754,756,758 760,762,764,766,768,770,772,774, 776,778,780,782,784,786,788,794,796 798,800802,804
SUMMIT	7	*601,677,602,714,...760,762,764,766, 768,770,772
WASATCH	6	*601,753,602,714,...774,776,778,780, 782,784
DUCHESNE	6	*601,639,602,714,...660,662,664,666, 668,670
UINTAH	8	*601,715,602,714,...672,674,678,680, 682,684,686,690
DAGGETT	5	*601,715,602,714,...692,694,696,698, 700
JUAB	6	*601,677,602,714,...616,618,620,622, 624,626
MILLARD	6	*601,753,602,714,...660,662,664,666, 668,670
UTAH	20	*601,677,602,714,...605,607,609, 611,613,615,617,619,621,623,625, 627,629,631,633,635,641,643,645, 647
CARBON	8	*601,753,602,714,...806,808,810,812, 814,816,818,820

required.

The use in particular areas of our region by Federal entities may require legal agreements to use the same system, or if that is not possible to create appropriate parallel systems. This problem will be addressed in the regional meetings.

One of the basic premises of this plan comes from a suggestion made by the Millard County Sheriff. That is that the major system components be purchased by the State and that the local entities be responsible for the purchase of their mobiles and handhelds to interact with the system. Because this system should provide system interconnectability which would complement it's overall design we are suggesting that the existing Statewide microwave system be used to provide this interconnection capability and the suggestion to provide for a total system concept is put in this plan. Although this will need legislative approval and funding, it appears that given the overall cost and ongoing operational needs of everyone it will be necessary to provide for such State wide service.

The Federal Communications Commission recommended that the system be implemented within a three (3) year period after acceptance of the plan by the commission. Because of the wide geographic area and multiple political entities, and the recommended funding process, it is made part of this plan that the Utah region will have a "slow growth" plan. This means that the implementation of the plan can be allowed to grow to completion for a period of five (5) years.

One additional requirement of the plan envisions that current frequencies being use should be relinquished for use by others. This is felt appropriate and the recommendation made that once the system is completed and a 1 year debugging period is over that the frequencies currently being held be relinquished and the licenses released to the Federal Communications Commission. This will be seen as appropriate as we see the fail-safe and fall-back modes of the 800 mhz trunking system in use and meeting our needs.

This slow growth process will allow the involved entities to plan for replacement over the 5+ years period and result in a careful, will planned, implementation process to bring new radios into use. It will also allow the entities to evaluate and fit their needs into the plan in such a way as to appropriately utilize their current system to maximize the tax payer dollars.

EXHIBIT X

Committee Members, by Meeting Attendance

EXHIBIT X

LIST OF MEETINGS AND COMMITTEE MEMBERS

Region 41 held a preliminary convener meeting on April 27, 1988, in the Department of Transportation (DOT) Conference Room at 4501 South 2700 West, in Salt Lake City, Utah. The first publicized meeting was held on July 13, 1988, also in the DOT Conference Room at the same address.

There were ten sub-regional meetings held throughout Utah, as shown in **Exhibit IX.**

The following Public Safety/Special Emergency people were those who accepted the invitation to participate in the planning process. They, by doing so, became the active members of the "committee-of-the-whole."

NAME	AGENCY	ADDRESS	PHONE
Mike Stauffer	County Sheriff	P.O. Box 3658 Logan, UT 84321	752-4103
Jerry Bench	Logan Police	P.O. Box 322 Logan, UT 84321	752-8140
Sid Groll	County Sheriff	P.O. Box 3658 Logan, UT 84321	752-4103
Al Nelson	Logan Police	P.O. Box 322 Logan, UT 84321	752-8141
Craig R. Andrew	Logan Police	P.O. Box 322 Logan, UT 84321	752-8140
Vern Olson	Utah County	2855 So. State Provo, UT	375-8613
Jon Tait	Motorola	480 E. 6400 So. Salt Lake City, UT	269-8600
Ron Mosher	Orem City	56 N. State Orem, UT	224-7062
Marvin Banks	Spanish Fork Fire Dept.	66 E. 300 No. Spanish Fork, UT	789-8365
Richard B. Lindsay	A. P. & P.	150 E. Center Corrections, Provo	374-7633
Jim Edvalson	BYU	290-C FB Provo, UT	378-4324
Wes Sherwood	BYU	B-66 ASB Provo, UT	378-3932
Robert Brough	BYU	244 FB Provo, UT	378-6715

NAME	AGENCY	ADDRESS	PHONE
Oliver Nielsen	Springville Police Dept.	45 So. Main Springville, UT	489-9421
Dee Rosenbaum	Spanish Fork Police Dept.	50 So. Main Spanish Fork, UT	
Jack Brigance	Lands & Forestry	Salt Lake City, UT	
Delbert Atkinson	Wildlife Resources	Springville, UT	
Robert K. Giles	Wasatch County Hospital	55 So. 500 East Heber City, UT	
Laura Beckstead	Salt Lake Police Dept.	315 East 200 South Salt Lake City, UT	
Dave Marks	Salt Lake County Sheriff	437 South 200 East Salt Lake City, UT	
Ron Probert	Utah Attorney General	236 St. Capitol Salt Lake City, UT	
Gary E. Gunrud	Utah Highway Patrol	4501 South 2700 West Salt Lake City, UT	
Ken Imber	Salt Lake Airport Authority	AMF Box 22084 Salt Lake City, UT	
JoAnn Esquibel	S.L. Community College Police	4600 So. Redwood Rd. Salt Lake City, UT	
Gary Keller	S.L. Community College Police	4600 So. Redwood Rd. Salt Lake City, UT	
Douglas Christenson	Alta Ski Lifts	Alta, UT	
Ted Woolley	Parks/Recreation	1636 W. No. Temple Salt Lake City, UT	
Norman Steen	Utah Highway Patrol	Murray, UT	
Ray Mackay	Utah Highway Patrol	Headquarters	
Dan Fallows	Utah Highway Patrol	Headquarters	
Bud Catlin	Utah Highway Patrol	Headquarters	
Ron Flinders	Corrections	Box 250 Draper, UT	
Eugene Overson	S.L.C. Corp.	Salt Lake City, UT	
Dennis Wendel	U.D.I.	Box 18654 Salt Lake City, UT	

NAME	AGENCY	ADDRESS	PHONE
Terry Ingram	V.E.C.C.	5025 So. State Murray, UT	
Doug Squire	Grand County Sheriff	Moab, UT	259-8115
Frank Wilson	Grand County Fire	Box 1322 Moab, UT	259-6915
Rick Bailey	San Juan County	Box 9 Monticello, UT	587-3224
Bill Bayles	San Juan County	211 E. 100 No. Blanding, UT	678-3322
Corky Brewer	Grand County/ Moab Fire	Box 745 Moab, UT	259-7839
Jim Nyland, Sr.	Grand County Sheriff	Moab, UT	259-8115
Nancy Hansen	DPS Comm.	940 So. Carbon Price, UT	965-4684
Jim Robertson	Carbon County Sheriff	County Courthouse Price, UT	637-1622
Mike Johnson	Corrections	Box 250 Draper, UT	571-2300
Greg Peay	Corrections	Box 250 Draper, UT	571-2300
Bob Wardell	Corrections	Box 250 Draper, UT	571-2300
Cindy Marchello	County Ambulance	County Courthouse Price, UT	637-4700
Kent Boyack	Price Fire	Price City Price, UT	637-5010
Lamar Guyman	Emery County Sheriff	Castle Dale, UT	381-2404
Wayne Brown	U.S.F.S.	599 Price Kine Price, UT	
Brent Mills	Emery County Sheriff	Castle Dale, UT	381-5678
Allan D. Orton	D.P.S. Comm.	940 So. Carbon Price, UT	965-4449
Alex Shilaos	Price Police Chief	Price, UT	
Frank Brady	Carbon County Communications	Carbon County	

NAME	AGENCY	ADDRESS	PHONE
Lee R. Barry	Wellington Police Dept.	Box 559 Wellington, UT	637-5213
Scott Gudmundsen	Uintah County Sheriff	152 E. 100 No. Vernal, UT	789-2511
Bob Russell	Ashley Valley Medical Center	151 W. 200 No. Vernal, UT	789-3342
Gary J. McEwen	D.P.S. Comm.	816 No. 1200 W. Orem, UT	227-8081
George L. Chino, Jr.	Utah Highway Patrol	152 E. 100 No. Vernal, UT	789-3111
Clair M. Poulson	Duchesne County Sheriff	Drawer M. Duchesne, UT	722-4444
Ira Beal	Bountiful Police Dept.	745 So. Main Bountiful, UT	295-9435
Don Proctor	Tooele County Sheriff	47 So. Main Tooele, UT	882-5600
Bill Moyes	Layton PD/FD	429 No. Wasatch Layton, UT	546-8560
Derol Simkins	D.P.S. Comm.	4501 So. 2700 W. Salt Lake City, UT	965-4544
Neil Bauer	D.P.S. Comm.	4501 So. 2700 W. Salt Lake City, UT	965-4542
Edwin Thacker	Wasatch County Sheriff	25 No. Main Heber City, UT	654-1411
John Rogers	Wasatch County Sheriff	25 No. Main Heber City, UT	654-1411
J.R. Hunt	Davis County Sheriff	Box 618 Farmington, UT	451-3510
Kim Bryant	DPS/UHP	Box 618 Farmington, UT	292-3304
Al Higgs	D.P.S. Comm.	Richfield, UT	896-6472
Douglas H. Chandler	D.P.S. Comm.	Richfield, UT	896-6472
Kathy Johnson	D.P.S. Comm.	Richfield, UT	896-6471
John L. Meacham	Sevier County Sheriff	Richfield, UT	896-6433
Jeff Nielsen	Sevier County	Richfield, UT	896-6433
Barry Bradley	Sanpete Sheriff Office	Gunnison, UT	835-2191

NAME	AGENCY	ADDRESS	PHONE
Gordon Kiesil	Salina Police Chief	Salina, UT	529-3311
Mayo J. Jacobson	Richfield City Police	Richfield, UT	896-8489
John Ellis	DPS	Richfield, UT	896-8489
Dan S. Chidester	UHP Sec. 10	Richfield, UT	896-0225
Ken Yardley	Beaver Sheriff Office	100 E. 40 So. Beaver, UT	438-2466
Ira Schoppman	Iron County Sheriff Office	2135 No. Main Cedar City, UT	586-3523
Jay Peck	D.P.S. Comm.	489 Highland Cedar City, UT	586-6120
Jimmie L. Stewart	IC/USCF	2136 No. Main Cedar City, UT	
David E. Bentley	Cedar City Fire	83 No. 100 E. Cedar City, UT	
Norm Forbush	State Parks	Box 1079 Cedar City, UT	
Clair Jensen	Div. Wildlife Resources	Box 606 Cedar City, UT	
Dall Winn	Div. Wildlife Resources	Box 606 Cedar City, UT	
Wayne C. Townsend	Parowan Police Dept.	Box 340 Parowan, UT	
G. Lynn Cartwright	Beaver Police Dept.	Box 271 Beaver, UT	673-6022
Jeff Dial	Dixie Medical Center	695 No. 500 W. #20 St. George, UT	637-5001
Lynn Mitchell	St. George Police Dept.	175 E. 200 No. St. George, UT	
Kelly J. Larson	St. George Police Dept.	175 E. 200 No.	
Gerry Maxwell	UDOT	Box 1009 Cedar City, UT	
Linda Petty	Cedar Comm.	2130 No. Main Cedar City, UT	586-9445
Margee Allton	Cedar Comm.	2130 No. Main Cedar City, UT	586-9445
Leslie Neilsen	Beaver County Sheriff Office	100 E. 40 So. Beaver, UT	438-2466

NAME	AGENCY	ADDRESS	PHONE
Pete Hansen	Cedar City Police	Box 249 Cedar City, UT	
Robert Marz	D.P.S. Comm.	South Ogden, UT	965-4878
Terrell Call	North View Fire Dept.	346 E. Pleasant Ogden, UT	782-8159
Lloyd Evans	Park City Police Dept.	Box 1480 Park City, UT	649-9410
Joe Bradshaw	Tooele County Sheriff Office	47 So. Main Tooele, UT	965-4891
Ranse L. Parker	IHC	3939 Harrison Ogden, UT	625-2065
John Hoel	USDA FS	324 25th Street Ogden, UT	625-5481
Boyd Van Orden	USDA FS	324 25th Street Ogden, UT	625-5494
Bill Schenck	Bureau of Land Management	324 So. State Salt Lake City, UT	539-4214
George Storer	Bureau of Land Management	324 So. State Salt Lake City, UT	539-4206
Paul Webb	Utah Highway Patrol	615 E. 5300 So. So. Ogden, UT	479-8993
Gary Tracy		275 E. 4425 So. Washington Terrace	621-2412
Junior Hammon	Roy City Police Dept.	5051 So. 1900 West Roy, UT	774-1010
Wendell Catlin	D.P.S. Comm.	4501 So. 2700 W. Salt Lake City, UT	965-4538
Glenn Clary	Riverdale Police Dept.	4459 So. 700 W. Riverdale, UT	394-6616
Kim Christensen	USDA FS	507 25th, Suite 103 Ogden, UT	635-5430
Jay Goodell	Weber Fire Dist.	1871 No. 1350 W. Ogden, UT	782-3580
Gary C. Johnson	Utah Highway Patrol	200 No. 50 W. Logan, UT	752-1110
Larry Swanger	Utah Highway Patrol	200 No. 50 W. Logan, UT	
Mike Johnson	Utah Highway Patrol	700 No. 20 W. Brigham City, UT	723-1094

NAME	AGENCY	ADDRESS	PHONE
Lt. Claron Brenchley	Utah Highway Patrol	700 No. 20 W. Brigham City, UT	723-1094
Carol Groustra	D.P.S. Dispatch	4501 So. 2700 W. Salt Lake City, UT	965-4853
N.S. Pepperdine	D.P.S. Comm.	14737 S. Minuteman Dr. Draper, UT	965-4505
R.G. Warren	Ogden City	2549 Washington Blvd. Ogden, UT	629-8552

City Council Meeting Room
Logan, UT
9/4/90

Mike Stauffer, Cache County Sheriff
Jerry Bench, Logan City Police
Sid Groll, Cache County Sheriff
Al Nelson, Logan City Police
Craig R. Andrew, Logan City Police

Utah County Complex
Provo, UT
9/5/90

Vern Olson, Utah County
Jon Tait, Motorola
Ron Mosher, Orem City
Marvin Banks, Spanish Fork Fire
Richard B. Lindsay, A. P. & P.
Jim Edvalson, B.Y.U.
Wes Sherwood, B.Y.U.
Robert Brough, B.Y.U.
Olivier Nielsen, Springville Police Department
Dee Rosenbaum, Spanish Fork Police

Wasatch Community Center
Salt Lake City, UT
9/7/90

Jack Brigance, Lands and Forestry
Delbert Atkin, Utah Wildlife
Robert K. Giles, Wasatch County Hospital
Laura Beckstead, Salt Lake Police Department
Dave Marks, Salt Lake County Sheriff
Ron Probert, Utah Attorney General
Gary E. Gunrud, Utah Highway Patrol
Ken Imber, Salt Lake Airport
JoAnn Esquibel, S.L.C.C. Police
Gary Keller, S.L.C.C. Police
Douglas Christenson, Alta Ski Lifts
Ted Woolley, Utah Parks and Recreation
N. Steen, Utah Highway Patrol
Ray Mackay, Utah Highway Patrol
Dan Fallows, Utah Highway Patrol
Bud Catlin, Utah Highway Patrol
Ron Flinders, Corrections
Eugene Overson, S.L.C.C.
Dennis Wendel, U.D.I.
Terry Ingram, V.E.C.C.

City Council Chambers
Moab, Utah
9/18/90

Doug Squire, Grand County Sheriff
Frank William, Grand County Fire
Rick Bailey, San Juan County
Bill Bayles, San Juan County
Corky Brewer, Grand County/Moab Fire
Jim Nyland, Sr., Grand County Sheriff

Commission Meeting Room
Price, Utah
9/19/90

Nancy Hansen, DPS Communications
Jim Robertson, Carbon County Sheriff
Mike Johnson, Corrections
Greg Peay, Corrections
Bob Wardell, Corrections
Cindy Marchello, County Ambulance
Kent Boyack, Price Fire
R.E. Guyman, Emery County Sheriff
Wayne Bavin, U.S. Forest Service
BTMS, Emery County Sheriff
Allan D. Orton, DPS Communications
Alex Shilaos, Price Police Department
Frank Brady, Carbon County Communications
Dee R. Barry, Wellington Police Department

Communications Center
Vernal, Utah
9/20/90

Scott Gudmundsen, Uintah County Sheriff
Bob Russell, Ashley Valley Medical Center
Gary J. McEwen, DPS Communications
George L. Chino, Jr., Utah Highway Patrol
Clair M. Poulson, Duchesne County Sheriff

Davis County Jail Annex
Farmington, Utah
9/21/90

Ira Beal, Bountiful Police Department
Don Proctor, Tooele County Sheriff
Bill Moyes, Layton PD/FD
Derol Simkins, DPS Communications
Neil Bauer, DPS Communications
Edwin Thacker, Wasatch County Sheriff
John Rogers, Wasatch County Sheriff
J.R. Hunt, Davis County Sheriff
K.H. Bryant, DPS/UHP

County Courthouse Auditorium
Richfield, Utah
9/25/90

Al Higgs, DPS Communications
Douglas H. Chandler, DPS Communications
Kathy Johnson, DPS Communications
John L. Meacham, Sevier County Sheriff
Jeff Nielsen, Sevier County
Barry Bradley, Sanpete Sheriff
G. Kiesil, Salina Police Department
Mayor J. Jacobs, RCPD
John Ellis, DPS
Dan S. Chidester, UHP, Section 10

Sheriff's Conference Room
Cedar City, Utah
9/26/90

Ken Yardley, Beaver Sheriff
Lin Schoppman, Iron County Sheriff
Jay Peck, DPS Communications
Jimmie L. Stewart, IC/USCF
David E. Bentley, Cedar City Fire
Norm Forbush, State Parks
Clair Jensen, Div. Wildlife Resources
Dall Winn, Div. Wildlife Resources
Wayne C. Townsend, Parowan Police Department
G. Lynn Cartwright, Beaver Police Department
Jeff Dial, Dixie Medical Center
Lynn Mitchell, St. George Police Department
Kelly J. Larson, St. George Police Department
Gerry Maxwell, UDOT
Linda Petty, Cedar Communications
Leslie Neilsen, Beaver County Sheriff
Pete Hansen, Cedar City Police Department

UHP Conference Room
Ogden, Utah
10/16/90

Robert Marz, DPS Communications
Terrell Call, North View Fire Department
Lloyd Evans, Park City Police Department
Joe Bradshaw, Tooele County Sheriff
Ranse L. Parker, IHC
John Hoel, USDA/FS
Boyd Van Orden, USDA/FS
Bill Schenck, Bureau of Land Management
George Storer, Bureau of Land Management
Paul Webb, Utah Highway Patrol
Gary Tracy, Washington Terrace

Junior Hammon, Roy City Police Department
Wendell Catlin, DPS Communications
Glenn Clary, Riverdale Police Department
Kim Christensen, USDA/FS
Jay Goodell, Weber Fire
Gary C. Johnson, Utah Highway Patrol
Larry Swanger, Utah Highway Patrol
Mike Johnson, Utah Highway Patrol
Lt. Claron Brenchley, Utah Highway Patrol
Carol Groustra, DPS Dispatch
N.S. Pepperdine, DPS Communications
R.G. Warren, Ogden City Police Department

DEPARTMENT OF PUBLIC SAFETY
TELECOMMUNICATIONS DIVISION

Norman H. Bangerter
Governor
D. Douglas Bodrero
Commissioner
Brant L. Johnson
Deputy Commissioner

Steven H. Proctor
Director

4501 South 2700 West
Salt Lake City, Utah 84119-5998
801 965 4185

October 10, 1990

Michelle Reilley, Office Manager
League of Cities and Towns
50 South 6th East, Suite 150
Salt Lake City, Utah 84102

Re: 800 MHz Frequency Plan

Dear Ms. Reilley:

The Federal Communications Commission, through General Docket No. 87-112, has for the first time in history given the public safety community an active role in shaping its own future in the planning and use of vital new 800 MHz spectrum. This has included planning at the national level through the development and adoption of a National Public Safety Plan, and also at the regional level through the establishment of 55 local planning regions charged with the development of comprehensive regional public safety plans specifically addressing their own local requirements (the State of Utah comprises Region 41).

In response to congressional directive, Associated Public Safety Communications Officer's Inc. (APCO) was designated by the FCC to ensure the regional plans were developed and submitted for approval, and to ensure interagency compatability for effective and efficient use of this new spectrum within public safety.

Demand for spectrum is outstripping the resource. There is no more spectrum being manufactured. As the demand for spectrum continues to grow, it will have to be largely satisfied from within the existing public safety allocations.

Those who are not capable of implementing their share of licensed spectrum will lose it to those who are. The pressure is, therefore, building to use spectrum efficiently. The plan must ensure that the new channels are used effectively and efficiently for important public safety functions such as law enforcement, fire, emergency medical services, and multiple agency coordination during an emergency event or disaster.

Utah's (Region 41) draft plan for utilizing 800 MHz spectrum has been presented to local law enforcement and emergency service providers at a series of meetings in various geographical locations throughout the state. Local participation has been positive, however, it is important that public officials and administrators responsible for determining where future dollars are spent be well informed. Local budget officers must include telecommunications equipment upgrades and services in their budget process now, to ensure funds will be available to keep pace with technological advances and community expansion.

Therefore, it is our desire to arrange an appointment on the agenda at the meeting of the Utah League of Cities and Towns scheduled for April in St. George. The presentation takes about 90 minutes, beginning with a brief history of communications, a thirty minute tutorial on design features available with the proposed system, and ending with panel discussion when the presenters will respond to questions regarding Utah's plan and its effects on local government.

It is evident that officials from Utah's cities and towns will find this presentation both educational and beneficial. Enclosed you will find a draft of Utah's plan and a copy of the Federal Communications Commission, General Docket No. 87-112.

Should you have any questions regarding this request or presentation, feel free to call me at 965-4085.

Your assistance with this matter is appreciated. I look forward to receiving your invitation.

Sincerely,

Steven H. Proctor
Chairman 800 MHz Planning Committee
(Telecommunications Division Director, UDPS)

SHP:wl

4598v

State of Utah
DEPARTMENT OF PUBLIC SAFETY
TELECOMMUNICATIONS DIVISION

Norman H. Bangerter, Governor
D. Douglas Bodrero, Commissioner
Brant L. Johnson, Deputy Commissioner

Steven H. Proctor
Director

4501 South 2700 West
Salt Lake City, Utah 84119-5998
801 965-4085

October 10, 1990

Brent Gardner, Executive Director
Utah Association of Counties
55 South State Street, Suite 300
Salt Lake City, Utah 84111

Re: 800 MHz Frequency Plan

Dear Mr. Gardner:

The Federal Communications Commission, through General Docket No. 87-112, has for the first time in history given the public safety community an active role in shaping its own future in the planning and use of vital new 800 MHz spectrum. This has included planning at the national level through the development and adoption of a National Public Safety Plan, and also at the regional level through the establishment of 55 local planning regions charged with the development of comprehensive regional public safety plans specifically addressing their own local requirements (the State of Utah comprises Region 41).

In response to congressional directive, Associated Public Safety Communications Officer's Inc. (APCO) was designated by the FCC to ensure the regional plans were developed and submitted for approval, and to ensure interagency compatability for effective and efficient use of this new spectrum within public safety.

Demand for spectrum is outstripping the resource. There is no more spectrum being manufactured. As the demand for spectrum continues to grow, it will have to be largely satisfied from within the existing public safety allocations.

Those who are not capable of implementing their share of licensed spectrum will lose it to those who are. The pressure is, therefore, building to use spectrum efficiently. The plan must ensure that the new channels are used effectively and efficiently for important public safety functions such as law enforcement, fire, emergency medical services, and multiple agency coordination during an emergency event or disaster.

Utah's (Region 41) draft plan for utilizing 800 MHz spectrum has been presented to local law enforcement and emergency service providers at a series of meetings in various geographical locations throughout the state. Local participation has been positive, however, it is important that public officials and administrators responsible for determining where future dollars are spent be well informed. Local budget officers must include telecommunications equipment upgrades and services in their budget process now, to ensure funds will be available to keep pace with technological advances and community expansion.

Therefore, it is our desire to arrange an appointment on the agenda at the spring meeting of the Utah Association of Counties. The presentation takes about 90 minutes, beginning with a brief history of communications, a thirty minute tutorial on design features available with the proposed system, and ending with panel discussion when the presenters will respond to questions regarding Utah's plan and its effects on local government.

It is evident that officials from Utah's cities and towns will find this presentation both educational and beneficial. Enclosed you will find a draft of Utah's plan and a copy of the Federal Communications Commission, General Docket No. 87-112.

Should you have any questions regarding this request or presentation, feel free to call me at 965-4085.

Your assistance with this matter is appreciated. I look forward to receiving your invitation.

Sincerely,

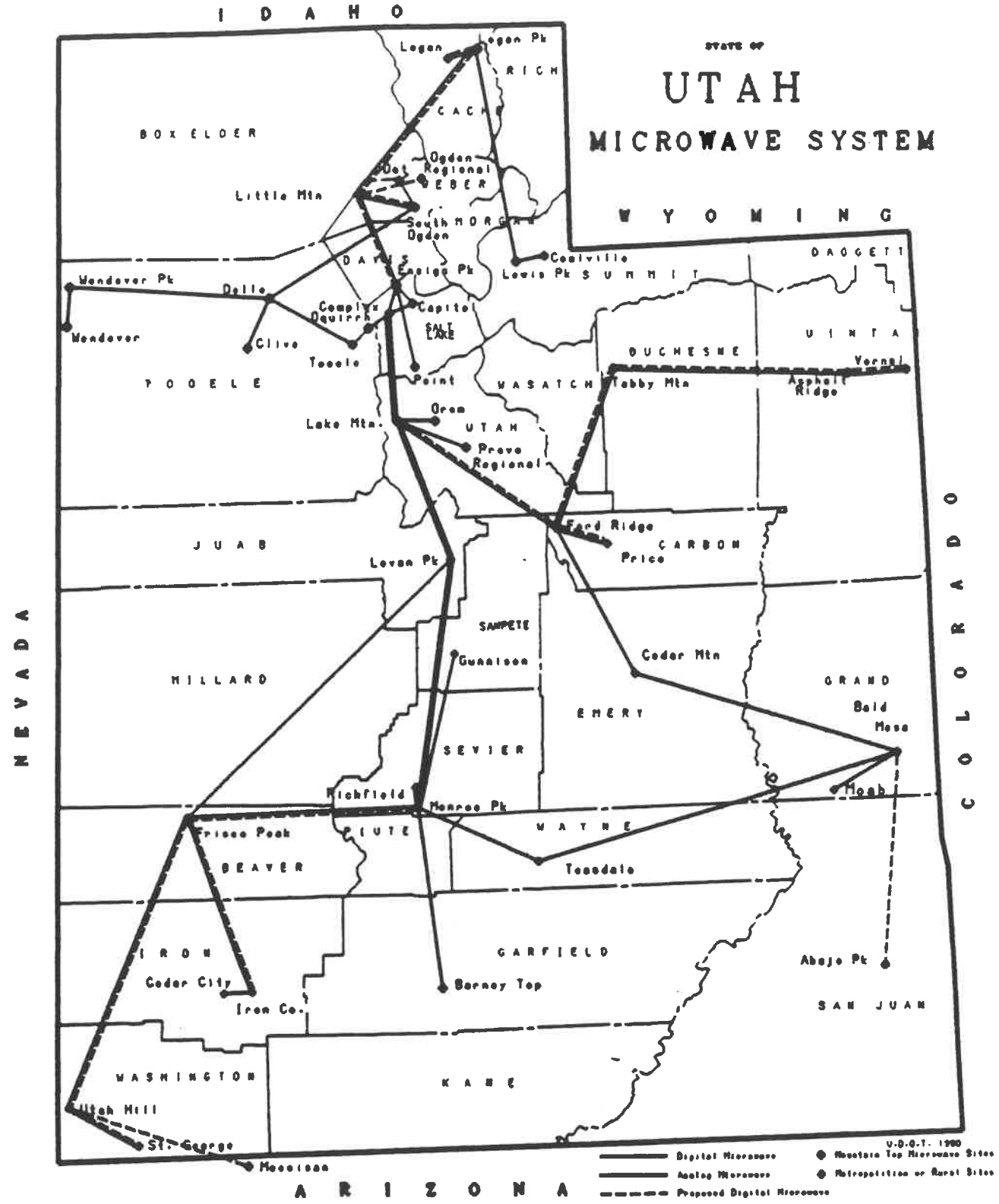
Steven H. Proctor
Chairman 800 MHz Planning Committee
(Telecommunications Division Director, UDPS)

SHP:wl

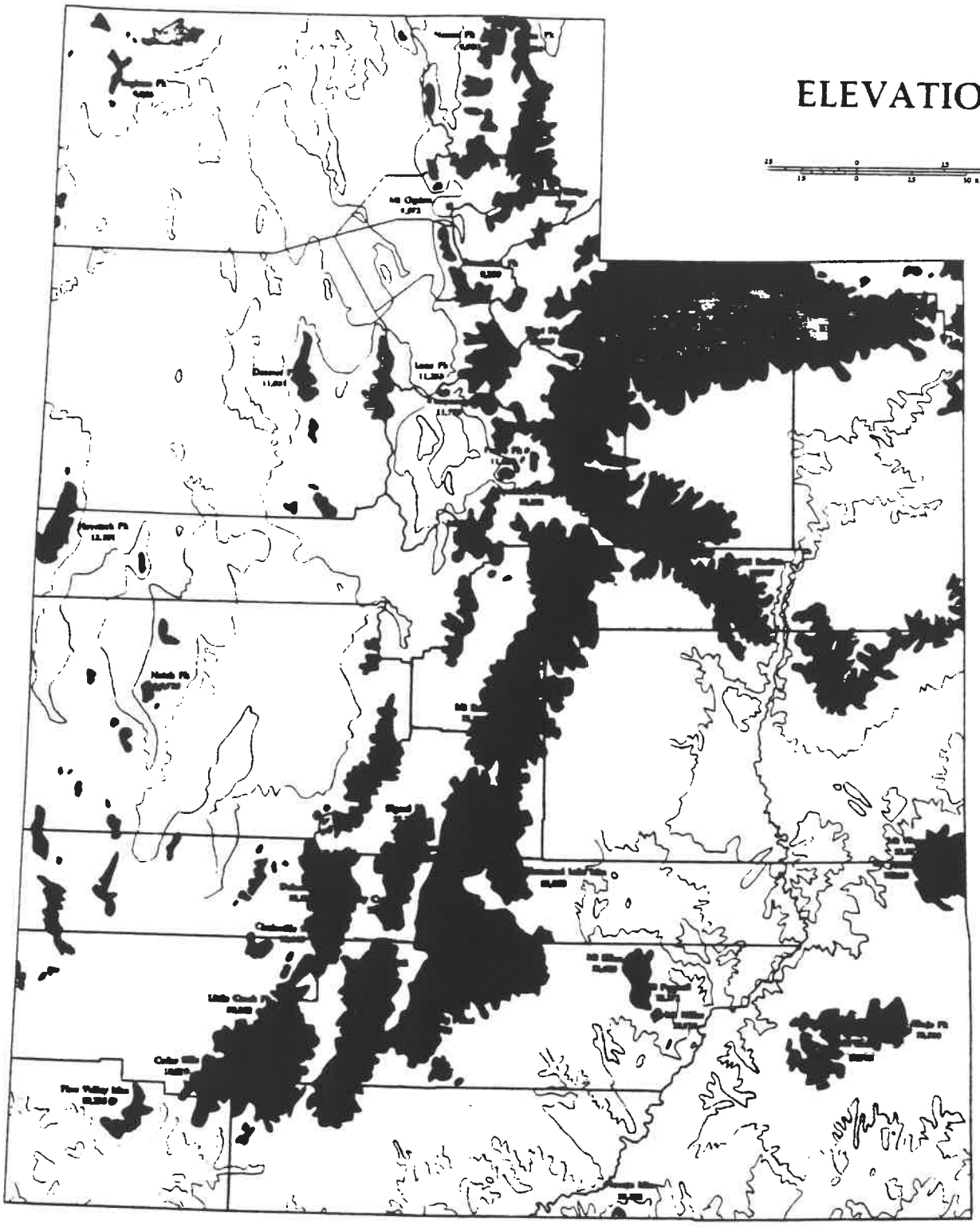
4598v

EXHIBIT XI

Microwave Network Map, Geographic


IDAHO
WYOMING
COLORADO
NEVADA
ARIZONA
STATE OF
UTAH
MICROWAVE SYSTEM
Logan
Ogden Pk
RICH
CACHE
BOX ELDER
Ogden
Ogden Regional
WEBER
Little Mtn
South Ogden
MORGAN
DAVIS
Eagle Pk
Coalville
Lewis Pk
SUMMIT
DAGGETT
Wendover Pk
Dolle
Complex
Squires
Capitol
SALT LAKE
Wendover
Clive
Tooele
TOOELE
Point
WASATCH
DUCHESNE
Tabby Mtn
UINTA
Vernal
Asphalt Ridge
Orem
Lake Mtn.
UTAH
Provo
Regional
Ford Ridge
JUAB
CARBON
Price
Levan Pk
SANPETE
Gunnison
Cedar Mtn
MILLARD
GRAND
Bald Mesa
EMERY
SEVIER
Richfield
Monroe Pk
Moab
Frisco Peak
PIUTE
WAYNE
BEAVER
Teasdale
IRON
GARFIELD
Abajo Pk
Cedar City
Iron Co.
Barney Top
SAN JUAN
WASHINGTON
KANE
Utah Hill
St. George
Mesquite
U.D.O.T. 1980
Digital Microwave
Analog Microwave
Proposed Digital Microwave
Mountain Top Microwave Sites
Metropolitan or Rural Sites

ELEVATION



LEGEND
ELEVATION (in feet)

- above 12,500
- 10,000 – 12,500
- 7,500 – 9,999
- 5,000 – 7,499
- 2,500 – 4,999
- below 2,500

For reference, see Bibliography, number 346

EXHIBIT XII

Proposed System Utilization Agreement

800 MHz ---DRAFT---

REGION 41 SYSTEM

System Utilization Agreement

1. This agreement is entered into this _____ day of _____ by and between _____ (requesting entity) and the State and/or _____ (management entity), hereinafter referred to as "State".

2. _____ (requesting entity) serving primarily the area of _____ and secondarily, wide area coverage, if any, of _____, needs access to the 800 MHz system operated by the State, or _____ (management entity), for the following services:

   a. Access to the operation of the system for _____ mobiles, _____handhelds, and _____ control stations.

   b. Service for maintenance and installation of requested radios, yes_____ no_____. Separate maintenance contract.

   c. Operational and management reports consisting of:

      1. Total calls of _____ (requesting entity).
      2. Units, calls/control, mobile, control stations.
      3. Other.
      4. Other.

3. The State or management entity, being the licensee/manager of the systems, agrees to provide the following:

   a. Access to the primary area for _____ mobiles, _____ handhelds, _____ control stations, and the secondary area as noted.

   b. Service for the radio as specified in "2B" to include:

1. Installation at _____/hr. or unit.

2. Maintenance at _____/hr.

3. Dispatch service at _____/call.

4. Consulting Design and Engineer _____/hr.

c. The operation/management reports as noted shall be provided monthly_____ quarterly_____ (check one).

4. This agreement shall be in effect for one year, or to the conclusion of the next complete fiscal year, and may be renewed from year to year thereafter with mutual consent of both parties. This agreement may be canceled by either party with 30 days written notice. In the event of unlawful communications by _____ (requesting entity), this agreement becomes null and void by notification of the Management Entity.

5. The services to be performed and received pursuant to this agreement are defined, limited, and controlled by Part 90, Private Land Mobile Radio Services, Rules and Regulations of the FCC, hereinafter referred to as "regulations," together with its subpart and sections concerning police and public safety radio services. Any revisions or modifications in the regulations shall be incorporated as part of this agreement and implemented immediately in order to regulate the services provided under this agreement.

6. It is expressly agreed that no radio transmitter shall be operated within the public safety radio services frequencies assigned to Public Safety, except under and in accordance with a proper station authorization granted by the FCC and pursuant to Part 90 of the regulations.

	Site Name		Site Latitude			Site Longitude			Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
*	SUMMIT	A	40	55	22	110	7	31	5	9.00	-21.80	100.00	4
*	SUMMIT	B	40	55	22	110	24	16	5	9.00	-21.80	100.00	4
*	SUMMIT	C	40	53	5	110	40	8	5	9.00	-21.80	100.00	4
*	SUMMIT	D	40	53	5	110	53	22	5	9.00	-21.80	100.00	4
*	SUMMIT	E	40	50	48	110	53	22	5	9.00	-21.80	100.00	4
*	SUMMIT	F	40	41	41	111	3	57	5	9.00	-21.80	100.00	4
*	SUMMIT	G	40	39	24	111	11	52	5	9.00	-21.80	100.00	4
	MIT	H	40	41	41	111	30	23	5	9.00	-21.80	100.00	4
*	SUMMIT	I	40	57	38	111	25	6	5	9.00	-21.80	100.00	4
*	SUMMIT	J	40	48	31	111	19	48	5	9.00	-21.80	100.00	4
*	SUMMIT	K	40	55	22	111	9	14	5	9.00	-21.80	100.00	4
*	SUMMIT	L	41	5	33	111	10	20	5	9.00	-21.80	100.00	4
*	TOOELE	A	40	50	17	113	46	42	7	15.00	-13.20	100.00	4
*	TOOELE	B	40	50	17	112	29	23	7	15.00	-13.20	100.00	4
*	TOOELE	C	40	50	17	112	50	43	7	15.00	-13.20	100.00	4
.	TOOELE	D	40	50	17	113	20	2	7	15.00	-13.20	100.00	4

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* TOOELE	E 40 6 38	112 26 43	7	15.00	-13.20	100.00	4
* TOOELE	F 40 22 43	112 26 43	7	15.00	-13.20	100.00	4
* TOOELE	G 40 36 30	112 26 43	7	15.00	-13.20	100.00	4
* TOOELE	H 40 6 38	112 40 3	7	15.00	-13.20	100.00	4
* TOOELE	I 40 6 38	113 9 23	7	15.00	-13.20	100.00	4
* TOOELE	J 40 6 38	113 49 22	7	15.00	-13.20	100.00	4
* TOOELE	K 40 6 38	113 30 43	7	15.00	-13.20	100.00	4
* TOOELE	L 40 22 43	113 49 22	7	15.00	-13.20	100.00	4
* TOOELE	M 40 36 30	113 49 22	7	15.00	-13.20	100.00	4
* TOOELE	N 40 29 36	113 25 22	7	15.00	-13.20	100.00	4
* TOOELE	O 40 29 36	113 4 3	7	15.00	-13.20	100.00	4
* TOOELE	P 40 29 36	112 45 23	7	15.00	-13.20	100.00	4
* JUAB	A 39 27 16	112 1 36	5	11.00	-18.80	100.00	4
* JUAB	B 39 29 53	111 55 34	5	11.00	-18.80	100.00	4
* JUAB	C 39 45 31	111 49 31	5	11.00	-18.80	100.00	4
* JUAB	D 39 58 43	112 13 42	5	11.00	-18.80	100.00	4
* JUAB	E 39 48 18	112 10 48	5	11.00	-18.80	100.00	4

	Site Name		Site Latitude				Site Longitude			Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
	JUAB	F	39	40	18		112	28	48	5	11.00	-18.80	100.00	4
*	JUAB	G	39	40	18		112	46	56	5	11.00	-18.80	100.00	4
*	JUAB	H	39	40	18		113	53	25	5	11.00	-18.80	100.00	4
*	JUAB	I	39	40	18		113	35	18	5	11.00	-18.80	100.00	4
*	JUAB	J	39	40	18		113	17	10	5	11.00	-18.80	100.00	4
*	JUAB	K	39	40	18		113	2	3	5	11.00	-18.80	100.00	4
*	JUAB	L	39	48	7		113	53	25	5	11.00	-18.80	100.00	4
*	JUAB	M	39	48	7		113	35	18	5	11.00	-18.80	100.00	4
	AB	N	39	48	7		113	17	10	5	11.00	-18.80	100.00	4
*	JUAB	O	39	48	7		113	2	3	5	11.00	-18.80	100.00	4
*	JUAB	P	39	48	7		112	46	56	5	11.00	-18.80	100.00	4
*	JUAB	Q	39	48	7		112	28	48	5	11.00	-18.80	100.00	4
*	BOX ELDER	A	41	10	56		112	31	13	6	15.00	-13.20	100.00	4
*	BOX ELDER	B	41	10	56		113	48	33	6	15.00	-13.20	100.00	4
*	BOX ELDER	C	41	10	56		112	49	53	6	15.00	-13.20	100.00	4
*	BOX ELDER	D	41	10	56		113	11	14	6	15.00	-13.20	100.00	4
.	BOX ELDER	E	41	10	56		113	29	53	6	15.00	-13.20	100.00	4

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* BOX ELDER	F 41 27 1	113 48 33	6	15.00	-13.20	100.00	4
* BOX ELDER	G 41 47 42	113 48 33	6	15.00	-13.20	100.00	4
* BOX ELDER	H 41 27 1	113 29 53	6	15.00	-13.20	100.00	4
* BOX ELDER	I 41 47 42	113 29 53	6	15.00	-13.20	100.00	4
* BOX ELDER	J 41 27 1	113 11 14	6	15.00	-13.20	100.00	4
* BOX ELDER	K 41 47 42	113 11 14	6	15.00	-13.20	100.00	4
* BOX ELDER	L 41 27 1	112 49 53	6	15.00	-13.20	100.00	4
* BOX ELDER	M 41 47 42	112 49 53	6	15.00	-13.20	100.00	4
* BOX ELDER	N 41 27 1	112 31 13	6	15.00	-13.20	100.00	4
* BOX ELDER	O 41 47 42	112 31 13	6	15.00	-13.20	100.00	4
* BOX ELDER	P 41 47 42	112 20 34	6	15.00	-13.20	100.00	4
* BOX ELDER	Q 41 29 19	112 7 14	6	15.00	-13.20	100.00	4
* STATEWIDE	A 41 29 54	111 39 2	2	40.00	-3.10	500.00	4
* STATEWIDE	B 41 29 54	113 24 4	2	40.00	-3.10	500.00	4
* STATEWIDE	C 41 27 18	112 37 23	2	40.00	-3.10	500.00	4
* STATEWIDE	D 40 43 21	113 21 53	2	40.00	-3.10	500.00	4
* STATEWIDE	E 39 59 24	113 21 53	2	40.00	-3.10	500.00	4

	Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
	STATEWIDE	F 39 15 27	113 21 53	2	40.00	-3.10	500.00	4
*	STATEWIDE	G 37 28 43	113 25 31	2	40.00	-3.10	500.00	4
*	STATEWIDE	H 38 22 24	113 25 31	2	40.00	-3.10	500.00	4
*	STATEWIDE	I 37 28 43	109 40 52	2	40.00	-3.10	500.00	4
*	STATEWIDE	J 37 30 26	112 28 38	2	40.00	-3.10	500.00	4
*	STATEWIDE	K 37 30 26	111 30 17	2	40.00	-3.10	500.00	4
*	STATEWIDE	L 37 30 26	110 39 13	2	40.00	-3.10	500.00	4
*	STATEWIDE	M 40 29 4	109 40 52	2	40.00	-3.10	500.00	4
	ATEWIDE	N 39 48 35	109 44 31	2	40.00	-3.10	500.00	4
*	STATEWIDE	O 39 4 37	109 44 31	2	40.00	-3.10	500.00	4
*	STATEWIDE	P 38 16 60	109 44 31	2	40.00	-3.10	500.00	4
*	STATEWIDE	Q 40 28 12	110 42 52	2	40.00	-3.10	500.00	4
*	STATEWIDE	R 40 41 50	111 39 45	2	40.00	-3.10	500.00	4
*	STATEWIDE	S 40 28 12	112 32 16	2	40.00	-3.10	500.00	4
*	STATEWIDE	T 39 45 20	112 16 14	2	40.00	-3.10	500.00	4
*	STATEWIDE	U 39 45 20	111 32 28	2	40.00	-3.10	500.00	4
*	STATEWIDE	V 39 32 46	110 41 24	2	40.00	-3.10	500.00	4
*	STATEWIDE	W 38 53 9	112 23 31	2	40.00	-3.10	500.00	4

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* STATEWIDE	X 38 54 53	111 32 28	2	40.00	-3.10	500.00	4
* STATEWIDE	Y 38 29 59	110 41 24	2	40.00	-3.10	500.00	4
* STATEWIDE	Z 38 11 9	111 32 28	2	40.00	-3.10	500.00	4
* STATEWIDE	[38 11 9	112 30 49	2	40.00	-3.10	500.00	4

These sites have been provided artificial antenna heights and ERP's.

7. Requesting Entity agrees that, while operating on the 800 MHz system assigned to the State by the FCC, it will use those specific call numbers and/or letters which are assigned to Requesting Entity for its designated area. The system(s) specified shall be controlled and monitored by the Management Entity in accordance with FCC regulations.

Assigned Call Number:

8. Requesting Entity agrees to furnish the State/Management Entity a list setting forth each radio which is to be operated on the specified system, including each base station radio, each mobile radio, and each portable radio. The list shall set forth the manufacturer, the model number, the serial number, and State designation number for each radio.

The list shall contain all radios operating on the system operated by the Requesting Entity, together with any other units which have been authorized by Requesting Entity. At any reasonable time upon its request, State/Management Entity shall be allowed access to any particular radio unit operating on the system.

9. It shall be the responsibility of Requesting Entity to see that all radio units used by it are maintained in accordance with FCC regulations. This by this agreement or by _____ maintenance facility.

IN WITNESS THEREOF, we hereto set our hands as of the day and year first written above.

APPROVED:

State/Management Entity

By:_____

Requesting Entity

By:_____

Date:_____