

5. Subtract this dBu level from #1. If the result is 35 dB or greater, the proposed system will conform with the interference parameters. If the result is less than 35 dBu, the proposed system must be redesigned by lowering power, antenna height, or both until the 35 dB protection ratio is met.

Note: If the terrain between the two systems would provide additional protection that would not be evident from using the normalized H.A.A.T.'s, it will be permissible to calculate the H.A.A.T. of both existing and proposed systems along the radial line directly connecting the two stations. The resulting service area boundary of the existing station and the dBu level of the proposed station at that point would then be used to calculate the protection ratio.

#### E X A M P L E

Station A (proposed)	Station X (existing)
ERP: 100W (-10dBk)	200W (-7dBk)
H.A.A.T.: 500 feet, AMSL	200 feet, AMSL
Distance from A to X: 46 miles	
Service Area	
Boundary: 13 miles	11 miles

46 miles - 11 miles = 35 miles, distance from proposed to service area boundary of existing station.

From look-up tables, dBu level at 35 miles from a station with an ERP of 100 watts and HAAT of 500 feet is:  
 $25.5 - 10 = 15.5$  dBu

Subtracting this amount from the defined #1 dBu level at the service area boundary of the existing station gives 25.5 dB of protection, 9.5 dB less than the minimum required.

SYSTEM ENGINEERING EXHIBIT

Height Above Average  
Terrain: \_\_\_\_\_ft.

Antenna Height To Tip:  
\_\_\_\_\_ft. AGL

Antenna Mfg.:
_____
Model: _____
Gain: _____

Transmission Line: Type: _____
Length: _____ft
Loss/100 ft: _____dB
Total Loss: _____dB

Transmit Output  
Power: \_\_\_\_\_Watts

Cavities,  
Model: \_\_\_\_\_  
Loss: \_\_\_\_\_dB

Jumper Loss: \_\_\_\_\_dB

Average Elevation: \_\_\_\_\_ft.

Ground Elevation: \_\_\_\_\_ft.

SYSTEM EFFECTIVE RADIATED POWER: \_\_\_\_\_WATTS

## REASSIGNMENT OF FREQUENCIES

All agencies desiring to participate in the use of the new 800 megahertz spectrum shall prepare and submit a list of all VHF and UHF frequencies currently being used. Applicants are further required to identify which frequencies will be relinquished as a result of the 800MHz system implementation. Applicants are required to justify the continued use of existing frequencies not relinquished upon implementation of the new 800MHz system.

It is not consistent with the goals and objectives of this plan to permit existing frequencies to be directly reassigned or farmed down to other divisions, departments or agencies. Licensees failing to relinquish frequencies as agreed after reasonable implementation and testing period of its new system will be subject to recommendation by the Review Committee to the FCC to forfeit their 821-824/866-869 frequencies or the old VHF/UHF frequencies.

Applicants may include in their application request recommendations for reassignments of existing give-back frequencies within FCC designated radio service (e.g., fire, local government, police, etc.).

The Review Committee will advise the respective frequency advisor of all relinquished frequencies with recommendations for reassignment if desired.

## UNASSIGNED SPECTRUM

Due to the fact that all of the frequency spectrum is not needed at this time the excess channel pairs will be returned to a reserve pool. These channels may be used for conflict with

adjacent Region allocations or may simply remain within this Region till needed. This does not imply that these frequencies are unavailable, only that before they can be utilized within the Region they must be coordinated via the regular APCO coordination process and within the guidelines set forth in this plan. Where possible, the channels designated for a jurisdiction in this plan shall be used. Channel selection for coordination will be done in ascending order from the last used channel pair. The following channels have been marked as unused:

610	625	630	663	664	666	668	669	670	671
672	689	691	693	694	695	696	697	698	699
700	701	704	705	707	708	709	720	722	723
724	725	726	727	729	731	732	733	734	735
736	737	738	739	740	742	744	745	747	759
760	761	764	765	766	775	779	781	784	786
791	794	796	810	812	830				

#### ADJACENT REGION CHANNEL CONSIDERATIONS

Coordination with adjacent regions shall be an on-going process until all region plans have been finalized. A copy of this plan has been sent to all adjacent regions for comments and at the time of submission no comments have been received. The adjacent regions with which coordination has been conducted are: Dallas/Ft. Worth Area (Region 40); West Texas Area (Region 50); Houston Area (Region 51); Panhandle Area (Region 52); and the Rio Grande Valley Area (Region 53). The wireline and non-wireline cellular companies have been notified of the region frequency distribution.

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

### COMMUNICATIONS REQUIREMENTS

#### COMMON CHANNEL IMPLEMENTATION

The implementation of the National common channels must follow the guidelines as set forth by the Federal Communications Commission by the approval of the National Plan. These five common channels are accessible by all levels of government and shall be used in accordance with the provisions of the National Plan.

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

The four Tactical Channels will be assigned state-wide, for use as needed by all eligible licensees. These channels are to be

used in accordance with the National Plan and in compliance with the regulations as set forth by the Federal Communications Commission. These channels require no special licensing, only that the users be eligible for licensing on the other Public Safety 800 MHz channels as specified in section 90.616 (a) of the FCC Rules and Regulations.

#### **AREAS OF OPERATION**

The common channels shall be available for use throughout the Region. No specific assignments were deemed necessary within the Region.

#### **OPERATION ON THE COMMON CHANNELS**

Normally, the five interoperable channels are to be used only for activities requiring inter-communications between agencies not sharing any other compatible communications system. Interoperable channels are not to be used by any level agency for routine, daily, operations or for interagency communications not requiring interoperability. In major emergency situations, one or more tactical channels may be assigned by the primary Public Safety Agency within that area of operation. The primary Public Safety agency in each county shall be the County Sheriff's Department or Public Safety Department or the lead agency, which may be any agency licensed to operate in this spectrum, or "on-scene" commander. The primary Public Safety agency shall be the city level Public Safety Department in situations which occur within the corporate limits of said city. These primary agencies will assign one or more of the Tactical channels for use according to need during each special situation requiring the use of these

channels.

Participants in the interoperable channels include Federal, State, and Local Disaster Management agencies. Police, Fire, and providers of Basic and Advanced Life support services will be the primary using agencies. If radio channels are available, other services provided in the Public Safety Radio Services and the Special Emergency Radio Services may also participate to the extent required to insure the safety of the public. These agencies include the Highway Department, Texas Forest Service, Texas Parks and Wildlife, and other special service agencies not normally involved in day to day public safety operations.

#### OPERATION PROCEDURES

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

##### Calling Channel (CALL)

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

##### Tactical Channels (TAC 1 - TAC 4)

These frequencies are reserved for use by those agencies involved in interagency communications. Incidents requiring multi-agency participation will utilize these frequencies as

directed by the control agency assuming responsibility for an incident or area of concern. These frequencies may be subdivided according to function in an incident or by geographical location in response to an incident.

It is recommended that the following assignments for TAC-1 through TAC-4 be used when possible.

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

#### NETWORK OPERATING METHODS

Communications systems on TAC 1 thru TAC 4 will be implemented by agencies who volunteer on a distributed coordinated basis. Every primary geographic section of the Region is intended to be covered by at least one of the Tactical channels. In many areas the common channels will be utilized on a mobile to mobile talk-around basis. Mobile relays on TAC 1 thru TAC 4 will be on a limited coverage design to permit reuse of the channel several times within the Region and in adjacent regions.

#### REQUIREMENTS FOR TRUNKING

All systems operating in the Region having five or more channels will be required to be trunked. Those systems having four or less channels may be conventional. It is strongly suggested that any entity licensing three or more channels use trunking.

The FCC in its Report and Order states: "Exceptions will be

permitted only when a substantial showing is made that alternative technology would be at least as efficient as trunking or that trunking would not meet operational requirements. Exceptions will not be granted routinely. Strong showings as to why trunking is unacceptable must be presented in support of any request for exception."

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

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

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

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

#### **CHANNEL LOADING REQUIREMENTS**

An agency/jurisdiction requesting a single frequency to replace a frequency currently in use that will be turned back for reassignment will not be required to meet loading requirements in order to obtain the new frequency. However, if the single frequency is not loaded to more than 50 units within three years after the license is granted, the frequency will be available for assignment to other agencies on a shared basis in the event that other frequencies meeting the criteria for assignment are exhausted. Shared use of a frequency is not interference free.

Users of single frequency systems may be required to provide the Regional Review Committee "confirmation of loading" for mobiles and portables as a method of validating system loading.

This exception shall apply to agencies having only one system and a single frequency. Agencies/jurisdictions requesting multiple frequencies or employing trunking technology shall comply with the loading standards as outlined below or provide a "Traffic Loading Study" that meets the criteria as outlined below.

#### LOADING TABLES

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

Agencies requesting additional frequencies must show loading of 100 percent or greater on their existing system. Should a demand for frequencies exist after assignable frequencies become exhausted, any system having frequencies assigned under this plan four or more years previously and not loaded to at least 70 percent will lose operating authority on a sufficient number of frequencies to bring the system into compliance with the 70 percent loading standard. Frequencies lost in this manner will be reallocated to other agencies to help satisfy the demand for additional frequencies. Applications will be required to be licensed as "slow growth" in accordance with Section 90.629

of the Commission's rules.

#### TRAFFIC LOADING STUDY

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

#### USE OF LONG RANGE COMMUNICATIONS

During incidents of major proportions, where public safety requirements might include the need for long-range communications in and out of a disaster area, alternate radio communications plans are to be addressed by lead agencies within this sub-region. These agencies should integrate the appropriate interface to the long distance communications providers. Such long distance radio communications might be amateur radio operations, satellite communications and/or long range emergency preparedness communications systems. Any of or all of which should be incorporated as part of the communications plans of those lead agencies. They then could provide the means to communicate outside the area for themselves and the smaller agencies who might need assistance. Instances as addressed in the National Public Safety Planning Advisory Committee's Plan, such as earthquakes, hurricanes, floods, widespread forest fires, or

nuclear reactor problems could be a cause for such long-range communications needs.

#### EXPANSION OF EXISTING SYSTEMS

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

#### USE OF AUTOMATIC TELEPHONE INTERCONNECT

The use of a car radio telephone via automatic interconnect through an 800 MHz trunked radio system or other type two-way radio communications system will normally require a significant amount of air time. Therefore, the use of automatic interconnect for radio telephone is not recommended for individuals or agencies which have a vast need for interconnect.

#### AIRCRAFT OPERATION

Radio equipment installed in aircraft that operates on channels in the 821-824/866-869 MHz spectrum shall be limited to a maximum ERP of ONE watt. Individual cases of routine harmful interference at this power level may require reduced ERP at the discretion of the Regional Review Committee.

## DIGITAL ADDRESS AND ENCRYPTION

The Regional Review Committee will approve the use of digital transmissions contingent upon the demonstration of spectrum efficiency (i.e. bandwidth, frequency and time ) consistent with the user(s) need.

## IMPLEMENTATION AND PROCEDURES

### NOTIFICATION

Several methods of notification were used to invite interested parties to participate in the development of this plan. Initially, notices were mailed out to be published in the primary newspapers of each town with over 20,000 population. These notices were published 2 times 60 days prior to the first regional planning meeting on November 14, 1989.

Supplemental to the newspaper contact, a personal announcement was made to the four (4) regional council of governments at their joint meeting in Austin and the announcement was sent via Texas Law Enforcement Teletype System to all criminal justice agencies in the region. A large number of other interested parties who had requested notification were sent letters of invitation.

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

When the work on the plan was completed, a final planning committee meeting was called. This meeting was held at the Texas Department of Public Safety Headquarters in Austin, Texas on May 23, 1991. Each member of the planning committee was presented with a draft copy of the plan for study. A copy of the final draft was mailed to each member of the committee not present at the meeting. Each plan contained a ballot for voting on the acceptance of the plan.

A letter was sent to all interested parties advising them of the plan completion and the intention to file with the Federal Communications Commission.

#### FREQUENCY ALLOCATION PROCESS

The method used for "packing" Region 49 was the APCO C.E.T. computerized method. The approximate geographical location for the center of each county, in latitude and longitude, were provided to APCO C.E.T. along with the environmental type of the county and the approximate radius to cover the county lines. Along with this information, a list of frequencies to block along the Region 49 border was included. The final run was made, corrected and is contained in this plan in the next section.

The actual assignment of frequencies is for 4 channel pairs per county. This allocation is the minimum and only applies to counties with a population of 50,000 or less. These allocations are reflected in the following tables and maps. This type of assignment leaves a reserve pool of channels for future assignment. Since Region 49 is both rural and urban there will be a need in some urban areas for more than the initial allocation.

presented earlier in this plan. One additional channel will be allowed for each 20,000 population over 50,000 within an area, just as in the initial allocation. In the event that an assigned channel can not be used due to adjacent Region activity, un-used channels from surrounding counties may be used, following review and selection by the Region Review Committee.

### FREQUENCY ALLOCATION LISTING

Below is the data, or packing plan generated by APCO C.E.T. via the computerized packing program. The first section is the county by county information provided, followed by the packing plan.

#### MULTIPLE SITES

COUNTY/SITE	LAT.			LONG.			#OF CHAN.	RADIUS	ENVIRONMENT
Bastrop	30	15	5	97	18	43	4	10	2
	30	6	3	97	10	48	4	10	2
	30	10	13	97	12	36	4	10	2
	30	4	22	97	27	27	4	10	2
	29	57	25	97	18	44	4	10	2
Bell	31	10	40	97	23	29	11	10	2
	31	1	56	97	16	34	11	10	2
	30	55	18	97	23	29	11	10	2
	31	1	24	97	44	15	11	10	2
	30	59	33	97	33	11	11	10	2
	31	6	2	97	33	11	11	10	2

MULTIPLE SITES - CONTINUED

COUNTY/SITE	LAT.	LONG.	#OF CHAN.	RADIUS	ENVIRONMENT
Blanco	30 22 8	98 16 41	4	7	2
	30 24 37	98 28 48	4	7	2
	30 23 48	98 22 44	4	7	2
	30 3 55	98 24 28	4	7	2
	30 10 33	98 28 48	4	7	2
	30 17 60	98 28 48	4	7	2
	30 13 2	98 19 22	4	7	2
Bosque	32 2 34	97 38 16	4	10	2
	31 58 25	97 48 38	4	10	2
	31 48 29	97 41 42	4	10	2
	31 53 27	97 31 19	4	10	2
	31 45 11	97 33 3	4	10	2
	31 48 29	97 27 51	4	10	2
Brazos	30 28 5	96 13 21	8	8	1
	30 36 2	96 17 30	8	8	1
	30 40 40	96 27 40	8	8	1
	30 50 20	96 16 35	8	8	1
	30 43 19	96 17 50	8	8	1
Burleson	30 35 46	96 38 44	4	9	2
	30 31 47	96 47 2	4	9	2
	30 25 34	96 38 44	4	9	2
	30 26 53	96 26 16	4	9	2
	30 29 32	96 33 12	4	9	2
Burnet	30 55 34	97 59 9	4	8	2
	30 55 34	98 19 55	4	8	2
	30 55 34	98 10 14	4	8	2
	30 43 39	98 18 32	4	8	2
	30 34 23	98 17 9	4	8	2
	30 33 43	98 11 9	4	8	2
	30 42 59	98 7 46	4	8	2
	30 49 37	98 5 0	4	8	2
Caldwell	29 56 2	97 38 39	4	8	2
	29 50 53	97 45 25	4	8	2
	29 48 6	97 27 59	4	8	2
	29 45 19	97 36 42	4	8	2
Coryell	31 32 25	97 43 58	5	11	2
	31 20 50	97 38 46	5	11	2
	31 14 32	97 51 38	5	11	2
	31 25 8	97 57 23	5	11	2
Falls	31 21 56	96 50 46	4	9	2
	31 15 31	96 46 58	4	9	2
	31 8 4	97 0 59	4	9	2
	31 12 59	96 54 45	4	9	2

MULTIPLE SITES - CONTINUED

COUNTY/SITE	LAT.	LONG.	#OF CHAN.	RADIUS	ENVIRONMENT
Fayette	29 59 47	96 45 37	4	11	2
	29 54 13	96 56 25	4	11	2
	29 47 16	97 6 17	4	11	2
	29 47 16	96 55 27	4	11	2
Freestone	31 52 0	96 6 13	4	11	2
	31 39 29	95 57 30	4	11	2
	31 33 55	96 10 35	4	11	2
	31 45 3	96 17 51	4	11	2
	31 42 16	96 7 40	4	11	2
Grimes	30 43 43	96 0 25	4	11	2
	30 33 7	95 59 2	4	11	2
	30 22 7	95 57 58	4	11	2
Hamilton	31 52 58	98 2 28	4	8	2
	31 43 1	97 55 33	4	8	2
	31 38 3	98 5 56	4	8	2
	31 33 5	98 14 35	4	8	2
	31 39 43	98 18 3	4	8	2
	31 44 41	98 7 40	4	8	2
Hays	30 12 52	98 7 46	5	7	2
	30 4 31	98 10 33	5	7	2
	30 7 18	98 0 22	5	7	2
	30 1 19	97 50 21	5	7	2
	29 52 25	97 58 46	5	7	2
	29 59 39	98 3 46	5	7	2
Hill	31 50 45	96 53 4	4	8	2
	31 57 9	96 57 19	4	8	2
	31 52 50	97 14 40	4	8	2
	31 57 1	97 7 24	4	8	2
	32 8 50	97 8 13	4	8	2
	32 1 53	97 3 51	4	8	2
	32 6 3	97 22 45	4	8	2
	31 59 6	97 18 24	4	8	2
Lampasas	31 20 36	98 11 56	4	7	2
	31 6 26	98 1 38	4	7	2
	31 13 3	98 7 47	4	7	2
	31 15 42	98 20 15	4	7	2
	31 10 24	98 27 10	4	7	2
	31 7 45	98 23 1	4	7	2
	31 7 6	98 13 28	4	7	2
Lee	30 26 21	96 59 58	4	8	2
	30 17 5	96 47 30	4	8	2
	30 21 4	96 55 49	4	8	2
	30 10 28	96 57 12	4	8	2

MULTIPLE SITES - CONTINUED

COUNTY/SITE	LAT.	LONG.	#OF CHAN.	RADIUS	ENVIRONMENT
	30 22 23	97 9 39	4	8	2
	30 19 44	96 59 58	4	8	2
Leon	31 31 37	95 48 26	4	9	2
	31 19 42	95 48 26	4	9	2
	31 12 41	95 52 49	4	9	2
	31 6 53	96 10 39	4	9	2
	31 12 41	96 2 10	4	9	2
	31 18 3	96 11 9	4	9	2
	31 24 1	96 0 15	4	9	2
Limestone	31 39 29	96 36 45	4	9	2
	31 38 56	96 43 22	4	9	2
	31 27 15	96 27 42	4	9	2
	31 24 28	96 33 31	4	9	2
	31 32 32	96 31 35	4	9	2
Llano	30 47 44	96 32 29	4	10	2
	30 36 15	98 29 38	4	10	2
	30 36 48	98 49 35	4	10	2
	30 48 30	98 49 27	4	10	2
	30 38 23	98 40 28	4	10	2
Madison	30 58 50	95 44 16	4	8	2
	30 58 50	95 51 43	4	8	2
	30 58 5	95 58 17	4	8	2
	30 55 51	96 5 44	4	8	2
McLennan	31 42 22	97 4 58	11	10	1
	31 33 25	97 0 18	11	10	1
	31 24 48	97 18 23	11	10	1
	31 29 47	97 9 44	11	10	1
	31 36 24	97 16 39	11	10	1
	31 32 25	97 24 55	11	10	1
Milam	30 58 5	96 52 19	4	8	2
	30 46 10	96 45 25	4	8	2
	30 35 44	97 5 40	4	8	2
	30 41 41	96 56 19	4	8	2
	30 44 40	97 8 46	4	8	2
	30 48 15	97 10 20	4	8	2
	30 52 43	97 1 30	4	8	2
	30 51 14	96 49 2	4	8	2
Mills	31 26 12	98 26 7	4	8	2
	31 21 32	98 32 38	4	8	2
	31 29 19	98 50 31	4	8	2
	31 27 45	98 40 46	4	8	2
	31 35 32	98 39 8	4	8	2
	31 36 38	98 31 51	4	8	2

**MULTIPLE SITES - CONTINUED**

COUNTY/SITE	LAT.	LONG.	#OF CHAN.	RADIUS	ENVIRONMENT
Robertson	31 12 50	96 24 40	4	8	2
	31 1 40	96 22 14	4	8	2
	30 54 13	96 30 31	4	8	2
	30 49 44	96 32 5	4	8	2
	30 58 41	96 38 19	4	8	2
	31 4 39	96 40 22	4	8	2
	31 7 10	96 31 57	4	8	2
San Saba	31 2 23	98 36 44	4	10	2
	31 2 23	98 56 15	4	10	2
	31 3 19	98 46 33	4	10	2
	31 15 37	98 44 23	4	10	2
	31 20 36	98 58 15	4	10	2
	31 11 15	98 55 55	4	10	2
Travis	30 22 27	97 33 28	31	9	1
	30 10 46	97 42 51	31	9	1
	30 16 20	97 37 2	31	9	1
	30 17 44	97 52 5	31	9	1
	30 22 44	98 0 49	31	9	1
	30 29 41	97 59 22	31	9	1
	30 20 56	97 46 17	31	9	1
Washington	30 16 17	96 13 49	4	8	2
	30 9 40	96 15 12	4	8	2
	30 14 58	96 23 30	4	8	2
	30 9 48	96 38 44	4	8	2
	30 12 27	96 33 12	4	8	2
	30 10 28	96 28 8	4	8	2
Williamson	30 31 52	97 18 59	9	9	1
	30 38 29	97 23 8	9	9	1
	30 46 26	97 46 40	9	9	1
	30 43 55	97 35 7	9	9	1
	30 35 58	97 30 58	9	9	1
	30 34 39	97 44 49	9	9	1
	30 40 20	97 52 57	9	9	1

**CHANNEL ASSIGNMENTS**

CHANNEL NUMBER	COUNTIES/USE
601	821.0125/866.0125 Mutual Aid
602	821.0375/866.0375 Reserved for State
603	821.0500/866.0500 Reserved for Guard
604	821.0625/866.0625 Reserved for State
605	821.0750/866.0750 Reserved for Guard
606	821.0875/866.0875 Falls, Lampasas, Blanco

CHANNEL ASSIGNMENTS - CONTINUED

CHANNEL NUMBER	COUNTIES/USE
607	821.1000/866.1000 Caldwell
608	821.1125/866.1125 Robertson
609	821.1250/866.1250 Coryell, Fayette
610	821.1375/866.1375 Unassigned
611	821.1500/866.1500 Madison, Bastrop
612	821.1625/866.1625 Bell
613	821.1750/866.1750 Freestone, Burleson, Hays
614	821.1875/866.1875 Bell
615	821.2000/866.2000 Limestone, Lee
616	821.2125/866.2125 Mills
617	821.2250/866.2250 Llano, Leon
618	821.2375/866.2375 Williamson
619	821.2500/866.2500 Bosque, San Saba
620	821.2625/866.2625 Williamson
621	821.2750/866.2750 Brazos, Hamilton
622	821.2875/866.2875 Travis
623	821.3000/866.3000 Brazos, McLennan
624	821.3125/866.3125 Travis
625	821.3250/866.3250 Unassigned
626	821.3375/866.3375 Falls, Lampasas, Blanco
627	821.3500/866.3500 Caldwell
628	821.3625/866.3625 Robertson
629	821.3750/866.3750 Coryell, Fayette
630	821.3875/866.3875 Unassigned
631	821.4000/866.4000 Madison, Bastrop
632	821.4125/866.4125 Bell
633	821.4250/866.4250 Freestone, Hays
634	821.4375/866.4375 Washington, Bell
635	821.4500/866.4500 Reserved for Guard
636	821.4625/866.4625 Reserved for State
637	821.4750/866.4750 Reserved for Guard
638	821.4875/866.4875 Reserved for State
639	821.5125/866.5125 Mutual Aid
640	821.5375/866.5375 Reserved for State
641	821.5500/866.5500 Reserved for Guard
642	821.5625/866.5625 Reserved for State
643	821.5750/866.5750 Reserved for Guard
644	821.5875/866.5875 Llano
645	821.6000/866.6000 Bosque, Williamson
646	821.6125/866.6125 Mills
647	821.6250/866.6250 Brazos, Williamson
648	821.6375/866.6375 San Saba
649	821.6500/866.6500 Limestone, Lee
650	821.6625/866.6625 Burnet

CHANNEL ASSIGNMENTS - CONTINUED

CHANNEL NUMBER	COUNTIES/USE
651	821.6750/866.6750 Burleson
652	821.6875/866.6875 Unassigned
653	821.7000/866.7000 McLennan, Hays
654	821.7125/866.7125 Leon
655	821.7250/866.7250 Bell
656	821.7375/866.7375 Travis
657	821.7500/866.7500 Hamilton, Milam
658	821.7625/866.7625 Travis
659	821.7750/866.7750 McLennan
660	821.7875/866.7875 Travis
661	821.8000/866.8000 McLennan
662	821.8125/866.8125 Travis
663	821.8250/866.8250 Unassigned
664	821.8375/866.8375 Travis
665	821.8500/866.8500 Unassigned
666	821.8625/866.8625 Travis
667	821.8750/866.8750 Brazos
668	821.8875/866.8875 Travis
669	821.9000/866.9000 Unassigned
670	821.9125/866.9125 Burnet
671	821.9250/866.9250 Unassigned
672	821.9375/866.9375 Unassigned
673	821.9500/866.9500 Reserved for Guard
674	821.9625/866.9625 Reserved for State
675	821.9750/866.9750 Reserved for Guard
676	821.9875/866.9875 Reserved for State
677	822.0125/867.0125 Mutual Aid
678	822.0375/867.0375 Reserved for State
679	822.0500/867.0500 Reserved For Guard
680	822.0625/867.0625 Reserved for State
681	822.0750/867.0750 Reserved for Guard
682	822.0875/867.0875 Travis
683	822.1000/867.1000 McLennan
684	822.1125/867.1125 Travis
685	822.1250/867.1250 Hill
686	822.1375/867.1375 Travis
687	822.1500/867.1500 McLennan
688	822.1625/867.1625 Travis
689	822.1750/867.1750 Milam
690	822.1875/867.1875 Travis
691	822.2000/867.2000 Unassigned
692	822.2125/867.2125 Unassigned
693	822.2250/867.2250 Unassigned
694	822.2375/867.2375 Unassigned

CHANNEL ASSIGNMENTS - CONTINUED

CHANNEL NUMBER	COUNTIES/USE
695	822.2500/867.2500 Unassigned
696	822.2625/867.2625 Unassigned
697	822.2750/867.2750 Unassigned
698	822.2875/867.2875 Unassigned
699	822.3000/867.3000 Unassigned
700	822.3125/867.3125 Unassigned
701	822.3250/867.3250 Unassigned
702	822.3375/867.3375 Grimes
703	822.3500/867.3500 Unassigned
704	822.3625/867.3625 Unassigned
705	822.3750/867.3750 Travis
706	822.3875/867.3875 Unassigned
707	822.4000/867.4000 Unassigned
708	822.4125/867.4125 Travis
709	822.4250/867.4250 Unassigned
710	822.4375/867.4375 Unassigned
711	822.4500/867.4500 Reserved for Guard
712	822.4625/867.4625 Reserved for State
713	822.4750/867.4750 Reserved for Guard
714	822.4875/867.4875 Reserved for State
715	822.5125/867.5125 Mutual Aid
716	822.5375/867.5375 Reserved For State
717	822.5500/867.5500 Reserved For Guard
718	822.5625/867.5625 Reserved for State
719	822.5750/867.5750 Reserved for Guard
720	822.5875/867.5875 Unassigned
721	822.6000/867.6000 Hill
722	822.6125/867.6125 Unassigned
723	822.6250/867.6250 Unassigned
724	822.6375/867.6375 Unassigned
725	822.6500/867.6500 Unassigned
726	822.6625/867.6625 Unassigned
727	822.6750/867.6750 Unassigned
728	822.6875/867.6875 Unassigned
729	822.7000/867.7000 Unassigned
730	822.7125/867.7125 Grimes
731	822.7250/867.7250 Unassigned
732	822.7375/867.7375 Unassigned
733	822.7500/867.7500 Unassigned
734	822.7625/867.7625 Unassigned
735	822.7750/867.7750 Unassigned
736	822.7875/867.7875 Unassigned
737	822.8000/867.8000 Unassigned
738	822.8125/822.8125 Unassigned
739	822.8250/867.8250 Travis
740	822.8375/867.8375 Washington
741	822.8500/867.8500 Unassigned

CHANNEL ASSIGNMENTS - CONTINUED

CHANNEL NUMBER	COUNTIES/USE
742	822.8625/867.8625 Unassigned
743	822.8750/867.8750 Travis
744	822.8875/867.8875 Unassigned
745	822.9000/867.9000 Unassigned
746	822.9125/867.9125 Unassigned
747	822.9250/867.9250 Unassigned
748	822.9375/867.9375 Burnet
749	822.9500/867.9500 Reserved for Guard
750	822.9625/867.9625 Reserved for State
751	822.9750/867.9750 Reserved for Guard
752	822.9875/867.9875 Reserved for State
753	823.0125/868.0125 Mutual Aid
754	823.0375/868.0375 Reserved for State
755	823.0500/868.0500 Reserved for Guard
756	823.0625/868.0625 Reserved for State
757	823.0750/868.0750 Reserved for Guard
758	823.0875/868.0875 Unassigned
759	823.1000/868.1000 Travis
760	823.1125/868.1125 Milam
761	823.1250/868.1250 Travis
762	823.1375/868.1375 Unassigned
763	823.1500/868.1500 Travis
764	823.1625/868.1625 Unassigned
765	823.1750/868.1750 Unassigned
766	823.1875/868.1875 Unassigned
767	823.2000/868.2000 Unassigned
768	823.2125/868.2125 Washington
769	823.2250/868.2250 Unassigned
770	823.2375/868.2375 Unassigned
771	823.2500/868.2500 Hill, Travis
772	823.2625/868.2625 Unassigned
773	823.2750/868.2750 McLennan
774	823.2875/868.2875 Burnet
775	823.3000/868.3000 Unassigned
776	823.3125/868.3125 Williamson
777	823.3250/868.3250 Unassigned
778	823.3375/868.3375 Grimes
779	823.3500/868.3500 Travis
780	823.3625/868.3625 Milam
781	823.3750/868.3750 Travis
782	823.3875/868.3875 Bell
783	823.4000/868.4000 Travis
784	823.4125/868.4125 Coryell
785	823.4250/868.4250 Travis
786	823.4375/868.4375 Unassigned

CHANNEL ASSIGNMENTS - CONTINUED

CHANNEL NUMBER	COUNTIES/USE
787	823.4500/868.4500 Williamson
788	823.4625/868.4625 Robertson
789	823.4750/868.4750 Lee
790	823.4875/868.4875 Bell
791	823.5000/868.5000 Brazos, Travis
792	823.5125/868.5125 Unassigned
793	823.5250/868.5250 Brazos, McLennan, Travis
794	823.5375/868.5375 Lampasas
795	823.5500/868.5500 Hill, Leon
796	823.5625/868.5625 Mills, Williamson
797	823.5750/868.5750 Blanco, McLennan
798	823.5875/868.5875 Bastrop
799	823.6000/868.6000 Freestone, Burleson, Hamilton
800	823.6125/868.6125 Falls, Hays
801	823.6250/868.6250 Madison, Fayette, Bosque, San Saba
802	823.6375/868.6375 Bell
803	823.6500/868.6500 Caldwell, Limestone, Llano
804	823.6625/868.6625 Coryell
805	823.6750/868.6750 Grimes, Travis
806	823.6875/868.6875 Unassigned
807	823.7000/868.7000 Williamson
808	823.7125/868.7125 Robertson
809	823.7250/868.7250 Lee
810	823.7375/868.7375 Bell
811	823.7500/868.7500 Brazos, Travis
812	823.7625/868.7625 Bell
813	823.7750/868.7750 Brazos
814	823.7875/868.7875 McLennan, Travis
815	823.8000/868.8000 Lampasas, Leon, Washington
816	823.8125/868.8125 Williamson
817	823.8250/868.8250 McLennan, Mills, Blanco
818	823.8375/868.8375 Bastrop
819	823.8500/868.8500 Freestone, Burleson, Hamilton
820	823.8625/868.8625 Falls, Hays
821	823.8750/868.8750 Madison, Fayette, Bosque, San Saba
822	823.8875/868.8875 Bell
823	823.9000/868.9000 Caldwell, Limestone, Llano
824	823.9125/868.9125 Coryell
825	823.9250/868.9250 Reserved for Guard
826	823.9375/868.9375 Reserved for State
827	823.9500/868.9500 Reserved for Guard
828	823.9625/868.9625 Reserved for State
829	823.9750/868.9750 Reserved for Guard
830	823.9875/868.9875 Unassigned