



Report for

Regional Radio Systems Assessment

prepared for

Permian Basin Regional Planning Commission

April 2011 ©

L.R. KimballSM
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L.R. Kimball (SM) is a service mark of CDI-Infrastructure, LLC.

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EXECUTIVE SUMMARY

L.R. Kimball respectfully submits this Regional Radio Systems Assessment Report to the Permian Basin Regional Planning Commission (PBRPC). PBRPC contracted L.R. Kimball to provide an assessment of the current public safety land mobile radio (LMR) communications systems present within the PBRPC region.

The purpose of this assessment is to provide a comprehensive analysis of the current public safety radio systems utilized within PBRPC, understand the current and future needs of the system users, provide recommendations for improvements to these systems, evaluate the applicable currently available and emerging technologies, make recommendations for the best technology solutions and develop migration plans for each system to implement the recommended technologies. The findings from the assessment will be used to support the development of a Regional Interoperability Communications Plan (RICP) that will define strategic goals for establishing interoperability within the PBRPC region. The RICP itself will include a summary of the findings outlined in this document.

Two-way radio systems provide the critical wireless communication link between 9-1-1 dispatchers, fire/rescue, law enforcement, emergency medical responders, public works and general government personnel. Radio systems typically manage traffic for a particular agency or jurisdiction. However, larger incidents often require cross agency communications, referred to as interoperability. Technology gaps resulting from proprietary technologies, frequency band or other limiting factors may inhibit interoperability. Interoperability is essential to assure first responders can communicate effectively in the event of a large scale disaster, and is a major element of this assessment and the RICP.

L.R. Kimball evaluated radio systems in Andrews, Borden, Crane, Dawson, Ector, Gaines, Glasscock, Howard, Loving, Martin, Midland, Pecos, Reeves, Terrell, Upton, Ward, Winkler Counties, including individual city and agency systems where applicable.

To determine the state of radio communications and options available to the entities, L.R. Kimball conducted a data collection process involving the knowledge of local officials, Federal Communications Commission (FCC) databases and local radio vendors. As part of this effort, L.R. Kimball conducted face-to-face interviews, site visits, site inventories, phone interviews and database searches. From this effort, findings and recommendations, as well as supporting documentation, were developed to be included as part of the final report to the agencies. Based on the presentation of findings and recommendations, L.R. Kimball selected technology options that have been implemented into the migration plan.

The challenges associated with radio communications in the future are quite different from what they were in the past. The need to communicate effectively is an important part of PBRPC agencies' ability to provide services to their citizens. The agencies recognize the importance of having properly functioning communications networks that enable the appropriate first responder disciplines to respond to any threat or challenge that may present itself, be it cross agency, cross discipline or cross jurisdiction.

A brief synopsis of the PBRPC region and individual county assessments follows.

PBRPC

The PBRPC region is characterized primarily by use of Very high frequency (VHF) conventional systems, with the exception of the cities of Odessa and Midland. VHF systems in the region employ a similar architecture using a single transmitter site usually centrally located within each county. Due to the rural nature of most of the region, some sites are located near population centers rather than the center of the county. Coverage on these systems is generally adequate, although numerous coverage gaps have been identified. Much of the region will benefit from the addition of the Permian Basin Regional Interoperability Communications System (PBRICS) as is implemented over the next two to three years. The PBRICS is a Project 25 (P25) digital VHF radio system that is being designed to provide region-wide coverage.

VHF subscriber radios throughout the region are typically analog narrowband capable from a multitude of manufacturers. For the most part, these radios are not P25 capable. Narrowbanding efforts for the entire region have been planned for 2011. Narrowbanding upgrades will require some radio replacements and radio programming for all VHF and Ultra high frequency (UHF) subscriber radios.

Interoperability is achieved primarily through the use of shared VHF channels. Several gateways devices supplement the existing radio-to-radio capabilities.

Major concerns for the region include the use of analog non-public safety grade radios, localized coverage problems, and 800 MHz interoperability. The region can use more infrastructure to provide improved coverage, and the PBRICS implementation will provide much of that.

Andrews

Andrews County operates its repeaters from the city of Andrews and from a site in the western portion of the county. Coverage for mobile units is generally acceptable.

Concerns include coverage and the lack of subscriber equipment that will support P25 operation.

Borden

Borden County operates its radio equipment from Gail Mountain, just outside the city of Gail. Coverage is acceptable for most of the county. Interoperability is through shared channels in radios.

Concerns include the addition of more radios and converting to P25.

Crane

Crane County's radio system operates from the city of Crane providing coverage for the populated area of the county. Interoperability with adjacent counties is through shared channels in their radios.

Concerns are coverage in the western portion of the county and upgrading to P25.

Dawson

Coverage in Dawson County is centered on Lamesa. Repeaters for fire and law enforcement are VHF. Emergency medical services (EMS) operations are on UHF. Coverage is acceptable. The eastern portion of the county requires improvements in coverage.

Concerns are adding P25 capabilities since many radios will require replacement.

Ector

Ector County has both VHF and 800 MHz radio systems. The VHF systems are operated by the County and the Sheriff's Office. The city of Odessa operates an 800 MHz single site trunking system. Odessa also hosts the PBRICS master switch. Interoperability is maintained through radio system and console patches.

Coverage is generally good for the VHF and 800 MHz systems. Odessa would like to improve its 800 MHz system by adding additional capacity for better operations.

Gaines

Gaines County operates its VHF systems from Seminole and Seagraves. Coverage is generally acceptable with some improvements required. Interoperability is obtained through shared radio channels.

Concerns are P25 capabilities and improved coverage.

Glasscock

Glasscock County operates its VHF system from the area of Garden City in the east central portion of the county. Coverage is marginal outside the Garden City area.

The concern is primarily coverage improvement.

Howard

Howard County operates all public safety radio systems in the VHF spectrum. There are two repeater pairs for law enforcement, and one repeater pair for fire and EMS. The Sheriff's Office serves as the central dispatch location for all emergency services within Howard County.

Law enforcement channels utilize satellite receivers with a voting system to enhance coverage throughout the county. The fire/EMS channel has been implemented with transmitters at multiple radio sites to improve paging coverage. The sites each have their own unique Continuous Tone Coded Squelch System (CTCSS) tones for use by local fire departments.

Concerns include some coverage issues, lack of 800 MHz connectivity to adjacent Midland, and a lack of subscriber equipment that will support P25 operation.

Loving

Loving County radio coverage is adequate for the small population served, but does not cover the entire county. The County uses a single VHF repeater for all services.

The concern is the lack of wide area coverage.

Martin

Martin County operates on a single VHF repeater in the southeastern portion of the county. Coverage is acceptable in the area around Stanton, but countywide, the coverage is poor. Interoperability with adjacent counties is adequate through shared radio channels.

The primary concern is the lack of radio coverage.

Midland

Midland County has two primary communications providers: the city of Midland and the County. The City operates an 800 MHz trunked radio system for all users within the City. The County operates on the VHF band using multiple frequencies for the public safety agencies throughout the county.

The City system is linked to the County system via several permanent radio “patches” between the systems.

Radio coverage in the City is good, while there are rural areas in the county that do have coverage issues.

Pecos

Pecos County operates a number of VHF repeaters in both the Fort Stockton and Iraan areas. These provide generally acceptable coverage for public safety services.

The major concern is countywide coverage.

Reeves

Reeves County uses VHF repeaters from both the Sheriff’s Office and the city of Pecos. Interoperability is obtained from both shared channels within radios and an ACU-1000 gateway device that can be programmed for any use.

Coverage is the main concern. With both I-20 and I-10 passing through the county, there is a need for better countywide coverage.

Terrell

Terrell County operates a VHF radio system for all services, which is located in Sanderson in the southwest portion of the county. Coverage is poor countywide, but the populated area around Sanderson has acceptable coverage.

Interoperability is needed with federal agencies, such as ICE and the Border Patrol, since the county is adjacent to Mexico.

The primary concerns are the lack of radio coverage and the age of existing radios.

Upton

Upton County operates its VHF radio system out of McCamey and Rankin. The repeaters for the Sheriff’s Office, fire and EMS are in the McCamey area; the Sheriff’s Office operates a base station in Rankin for the eastern portion of the county. Coverage is generally good in Rankin and McCamey, but poor in the rest of the county.

Interoperability is through shared channels in users’ radios.

The primary concern is poor radio coverage.

Ward

Ward County has its VHF system operating from a repeater in Wickett and base stations in Monahans. Coverage is provided primarily for the eastern portion of the county.

Interoperability is achieved through shared radio channels in user radios.

The primary concern is poor coverage over most of the county. They would like to upgrade to P25.

Winkler

Winkler County's public safety communications are provided by the Sheriff's Office and the Kermit Police Department (PD). EMS is provided by the County. With a centrally located radio site, coverage is moderately good countywide.

The County would like to upgrade to P25 technology and add channels to their systems.

1. INTRODUCTION

PBRPC is a Regional Council of Governments, a political subdivision of Texas, which encompasses the counties of Andrews, Borden, Crane, Dawson, Ector, Gaines, Glasscock, Howard, Loving, Martin, Midland, Pecos, Reeves, Terrell, Upton, Ward and Winkler.

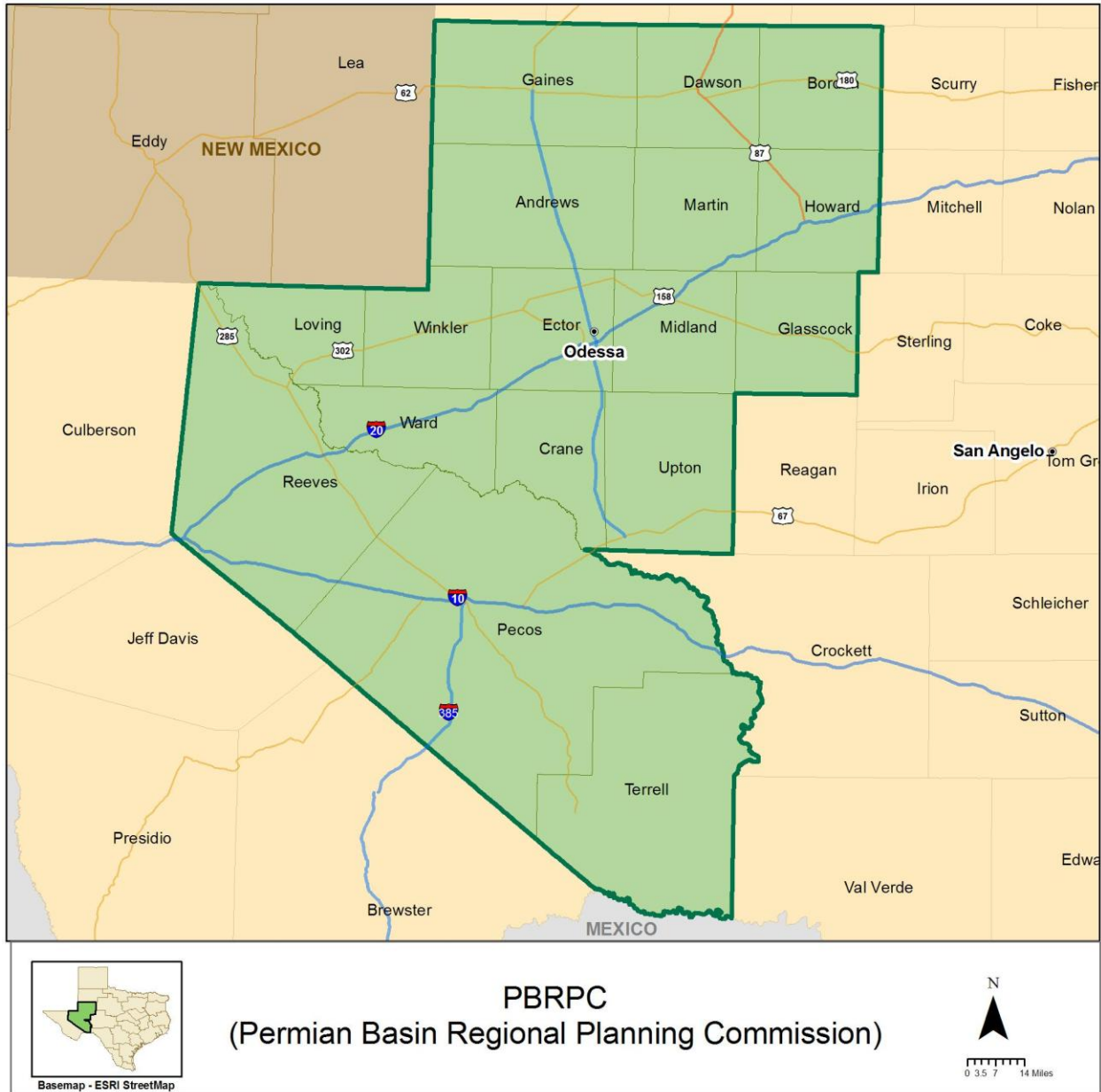


Figure 1 – PBRPC Region

PBRPC contracted with L. R. Kimball to perform a regional radio system assessment of all systems within PBRPC. The assessment included an analysis of the existing systems, operability and interoperability gap analysis, recommendations for each system and a migration strategy to implement the recommended systems.

The purpose of the study is to support the PBRPC RICP, which will define a path for the development of a Project 25 (P25) “system of systems” by the year 2015.

The PBRPC is currently constructing the PBRICS VHF P25 technology system that will provide region-wide public safety communications capabilities by 2015.

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2. METHODOLOGY

2.1 Initialization Meeting

On March 18, 2011, a project initialization (kickoff) meeting was held with PBRPC member agency representatives, PBRPC personnel and L.R. Kimball project team representatives.

The key elements of the RICP were discussed, with a focus on the need to document gaps in interoperability, identify technology solutions to bridge those gaps and develop a migration plan to implement the selected technologies. The project objective and schedule were defined. Primary users and stakeholders were identified and contact information exchanged.

During this meeting, a schedule was defined for on-site interviews with PBRPC member agency personnel from March 17 to April 8, 2011.

L.R. Kimball confirmed the deliverables, which include the following:

- Stakeholder interviews
- Documentation of PBRPC current capabilities and requirements (Phase II)
- Analysis and Recommendations (Phase III)
- Migration Plan and Cost Estimates (Phase IV)

2.2 User Interviews

To determine user perceptions, and facilitate the involvement of the public safety community and other users in the process, L.R. Kimball and PBRPC organized focus groups to collect data from the radio user community.

L.R. Kimball created a survey to explain the purpose of the meeting and initiate the data gathering process.

Questions and discussion topics were designed to identify key operational and performance needs of the user community and to determine how well the current system meets these needs. Conversely, L.R. Kimball sought input from users of the needs that the current systems do not adequately meet, whether performance or operational in nature.

Users interviewed provided insightful and valuable feedback for use in planning the future public safety radio network in the PBRPC region.

User interviews were held with representatives of the following public safety agencies:

- City of Midland
- City of Big Springs
- Howard County Sheriff's Office
- Petro Communications

Note: Petro Communications is the radio service company contracted by PBRPC to gather data from all other agencies within the region.

The purpose of these interviews was to collect information regarding the existing radio communications systems; document any known deficiencies, such as coverage or capacity with the existing systems; identify future communications needs; identify past, present and future funding streams for radio-related expenditures; and identify interoperability needs and existing shortfalls.

2.3 Assessment of Existing Systems Network Infrastructure

While on-site from March 17 to 18, and again on March 21 to 22, 2011, L.R. Kimball representatives surveyed system network infrastructure of Howard County, Big Spring, and the city of Midland, including dispatch facilities. Petro Communications surveyed the 15 additional counties.

This was done to become familiar with the existing systems; gather technical data regarding the existing systems to determine if equipment should be upgraded or replaced; determine the suitability of these sites to accommodate additional equipment that may be added to expand or replace the existing systems; determine if tower space is available to accommodate additional antennas; and review the general condition of these sites.

2.4 Interoperability Solutions

L.R. Kimball addressed user requirements for interoperability gathered during the project kickoff meeting and user interviews. Additional information regarding the interoperability capabilities of the entities was assessed based on the equipment surveyed during the site surveys.

Based on the data gathered, L.R. Kimball developed interoperability solutions consistent with user needs, SAFECOM recommendations, the State Communications Interoperability Plan (SCIP), RICP objectives and guidance from the Texas Department of Public Safety (TXDPS).

2.5 Federal Communications Commission License Review

L.R. Kimball downloaded all of the FCC licenses for PBRPC member agencies from the FCC's database, including tower registrations where applicable. L.R. Kimball conducted a thorough review of these licenses on a site-by-site basis, which was used to determine emission designator compliance with the FCC's narrowbanding mandate, assess radio site locations and operational parameters and compare licensed specifications with on-the-ground data for accuracy. Based on the analysis, L.R. Kimball compiled recommendations for FCC license updates.

2.6 Coverage Studies

L.R. Kimball performed computer-generated propagation studies for the existing PBRPC radio systems. These propagation maps were used to identify coverage gaps in the existing radio systems and to compare user input on radio system coverage with modeled results. L.R. Kimball performed additional studies to evaluate coverage for conceptual system designs for future radio systems recommended for implementation.

2.7 Assessment and Survey Data Analysis

Based on the data collected during the user interviews and site surveys, L.R. Kimball will provide an in depth analysis consistent with industry standards for the various aspects of radio systems after acceptance of the initial findings. The analysis will focus on key issues, including the following:

- Coverage
- Capacity
- Interoperability needs/standards
- Emerging communication technologies
- FCC VHF/UHF narrowbanding mandate
- Frequency bands
- Connectivity
- Technology options

2.8 Recommendations

Based on the assessment of the PBRPC member agency systems consistent with industry standards and the needs of the users, L.R. Kimball will develop recommendations for system improvements, upgrades and replacements. These recommendations will include budgetary pricing gathered from equipment vendor list prices and modeled coverage where changes in system tower sites/equipment are proposed. The recommendations will be determined based on the system option available to each agency that best meets the needs of the users while limiting extraneous costs.

2.9 Migration Strategy

Following approval from the stakeholders on selected technologies, L.R. Kimball will develop a migration strategy unique to each agency that defines a step-by-step process to implement the proposed system upgrades and replacements. Each migration strategy will be complete with budgetary estimates for each phase of the implementation. The migration strategies will be intended to provide a roadmap for implementation that will provide each agency a reasonable and beneficial strategy for implementing the systems selected by the users.

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3. REGIONAL OVERVIEW

Radio communication in the PBRPC region is characterized by communications in two primary frequency bands: VHF and 800 MHz.

3.1 VHF Radio Systems

Radio communications in the PBRPC region are characterized primarily by VHF High band conventional repeater systems. These systems utilize multiple repeater sites to provide radio system coverage over a large area or to multiple user groups. A single user group is assigned to each individual frequency.

The repeater pairs utilize one frequency for transmit and one for receive. When a radio user makes a transmission, the remote radio site receives the message on one frequency and repeats the signal on the transmit frequency. Repeated messages are relayed to other users on the same channel and the dispatch center.

There are several primary limitations associated with VHF conventional systems.

Site-to-site Roaming – In a conventional system, coverage is enhanced through the implementation of multiple repeater sites. Because each site operates as its own independent system and has no connectivity to other radio sites, traffic at each site is independent. This means that users must switch channels as they roam between coverage areas of different radio sites. Switching channels for a radio end user may be cumbersome, especially during an event when a responder's focus is elsewhere. Users within the coverage areas of different radio towers lack the ability to communicate directly with each other unless audio is patched by the dispatch console operator. Operation on a conventional system is also challenging for dispatchers who have multiple channels for each radio site. If multiple radio sites are needed to cover the jurisdiction, dispatchers must utilize simul-select features to assure all intended radio users receive the message.

Narrowbanding – Narrowbanding is the FCC mandate that requires all VHF and UHF radio systems to migrate to 12.5 kHz spectrum efficiency by January 1, 2013. To comply with this mandate, VHF primary users must replace aged equipment that is not compatible in a narrowband mode and reprogram radios operating in a wideband mode. Considerable efforts have already taken place within the region to meet the narrowbanding requirement, however considerable efforts still remain to replace the remaining wideband only radios, reprogram radios that are narrowband capable, and update FCC licenses.

Interference – The VHF band is far more crowded with co-channel and adjacent-channel users than any other public safety frequency band, increasing the likelihood that user-to-user interference may occur. The problem is compounded by the extreme distances VHF signals may carry. CTCSS tones are typically used to limit users from hearing the transmissions of neighboring systems; however, interference will still occur when two systems attempt to transmit simultaneously.

Coverage – Much of the PBRPC region covers rural areas with small population densities. Covering large areas requires multiple radio sites; however, many less populated counties with VHF systems are limited to one radio site. Coverage in many of these counties is limited to mobile use as portable coverage is restricted.

Interoperability – Interoperability for VHF primary users is limited with users in other frequency bands. The population center for the PBRPC region is the City of Midland, which utilizes an 800 MHz trunked system. Should a disaster occur in the rural areas of PBRPC, it is likely users from Midland with 800 MHz radios will respond. Midland does have capabilities to use their 800 MHz system in the counties immediately surrounding Midland through patched radios. Little or no capabilities exist throughout much of PBRPC to interconnect with 800 MHz systems. While VHF to VHF interoperability is generally adequate for most counties, careful consideration must be made for systems operating in P25 modes. Users with analog radios, including narrowband radios, will not be able to communicate on P25 conventional channels. Conventional talk-around channels, such as TXLAW1 or TXLAW2, must be used as a common conventional medium in these circumstances.

P25 Upgrades – Many VHF primary users in the region have either upgraded to P25 conventional systems or are in the process of upgrading their systems. When upgrading to P25, users must be cognizant that coverage on the system will change, and interoperability will become more limited with non-P25 VHF users.

All of the counties in the PBRPC rely upon VHF for county-wide communications.

3.2 800 MHz Systems

800 MHz radio systems are operated in two major population centers within the PBRPC region, the cities of Odessa and Midland. 800 MHz systems employ trunking technology, which permits more user groups than frequencies. When a radio user makes a call, the system dynamically assigns a frequency for all users on the group on which the call was made. 800 MHz is the primary frequency band utilized for trunking systems due to licensing practices that limit interference, pre-paired channel licensing, and sufficient transmitter-to-receiver spacing.

Trunking systems require interconnected backhaul to coordinate radio traffic between radio sites. The systems provide site-to-site handshaking so that users receive uninterrupted radio coverage throughout the entire system coverage area without the need to change channels. Trunking systems are spectrally efficient, providing capacity for larger user groups while utilizing fewer frequencies.

There are several primary limitations associated with 800 MHz trunking systems.

Rebanding – Rebanding is the FCC-mandated reconfiguration of the 800 MHz band to eliminate interference caused by public safety users by Sprint/Nextel iDEN networks. The reconfiguration requires users in the 866-869 MHz National Public Safety Planning Advisory Committee (NPSPAC) band to relocate their channels 15 MHz to the 851-854 MHz range. The reconfiguration requires replacement of radios that do not support both the old and new frequencies, and requires re-programming subscriber radios. Throughout the effort, careful coordination is necessary to assure continuity of operations and interoperability. Rebanding has already taken place in this region.

Proprietary Technologies – Many of the last generation trunking systems employ technologies that are proprietary to the equipment vendor. Only subscriber radios manufactured by the same vendor and programmed with the appropriate talkgroups can communicate on a proprietary system. The use of proprietary technologies limits interoperability with other users in the same frequency band who have subscriber radios manufactured by a different vendor.

Legacy System End-of-life – Legacy systems refer to the last generation of non-P25 radio systems. Legacy trunking systems are in the process of being phased out by the equipment vendors in lieu of modern P25 technologies. The phase-out of legacy systems will ultimately result in a lack of vendor support and a short supply of spare equipment parts. Radio users must account for the end-of-life of their system and equipment and prepare for upgrades to avoid a lapse in service availability.

700 MHz – Radios in the 800 MHz band can typically access 700 MHz frequencies. The 700 MHz band was recently released to public safety and can be used to enhance capacity on trunking systems when additional 800 MHz frequencies are unavailable or to build out new trunking systems. However, 700 MHz channels have a 6.25 kHz spectrum efficiency requirement by January 1, 2017. This requirement can only be met through the implementation of time division multiple access (TDMA) technology, which will only be provided on a P25 platform by P25 Phase II. While the Phase II standard is not yet developed, some equipment vendors have products on the market that will be upgradeable to Phase II once the standard is complete.

Interoperability – Interoperability on 800 MHz networks is limited with users in the VHF and UHF frequency bands. When responding to VHF primary jurisdictions, 800 MHz users will have no means to communicate unless a gateway system or multi-band radios are implemented. A mobile gateway may be deployed to provide the necessary interoperability; however, deploying mobile gateways is a cumbersome and time-consuming process. Communications within the primary jurisdiction of 800 MHz systems can be provided through conventional interfaces to VHF channels, typically TXLAW2 or other commonly used frequencies.

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4. ANDREWS COUNTY FINDINGS

Andrews County, with an estimated population of 14,057, is approximately 1,500 square miles and in the northwest portion of the PBRPC region. The city of Andrews is the only population center in the county.

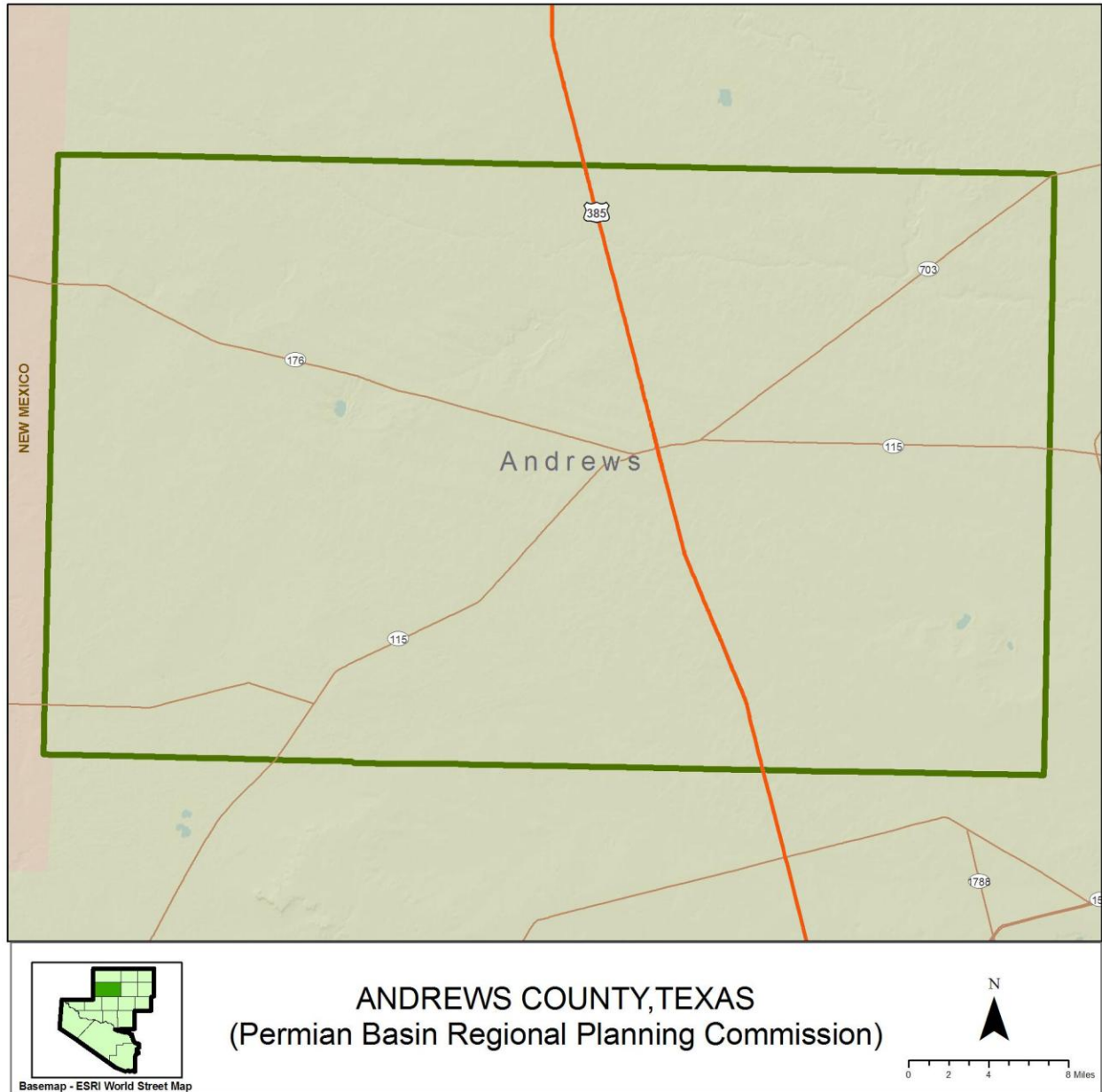


Figure 2 – Andrews County

4.1 Andrews County Radio System

4.1.1 System Description

Andrews County operates a VHF conventional public safety radio system from two transmitter locations: just outside the city of Andrews and in the western part of the county. The Sheriff's Office shares the system with the city police department. A total of three repeater channels are implemented that are used by law enforcement, fire, and EMS respectively. The VFD and EMS operate their own radios from the same locations as the Sheriff's Office. EMS services are supplemented with UHF mobiles licensed through the Permian General Hospital. The west tower utilizes the same primary Sheriff's Office and fire channels as the primary tower site.

The current repeater systems are P25 capable and were installed in 2008. Subscriber equipment is P25 capable with the exception of some remaining Astro Spectra radios.

4.1.2 User Agencies

Table 1 outlines the user groups that utilize the Andrews County radio system.

Table 1 – Andrews County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Andrews County Sheriff's Office	Law	Mike Cook	432-523-5545	mcook@co.andrews.tx.us
Andrews PD	Law	Ronnie McCarver	432-523-5675	
VFD	Fire	Joe Harper	432-523-5675	jharper@cityofandrews.org
EMS	EMS	Joyce Boren	432-523-5675	Pdmedic_230@yahoo.com

The Sheriff's Office and PD use both dispatch and car-to-car frequencies. Fire has a dispatch channel and a tactical channel.

4.1.3 Dispatch Facilities

Two Motorola Model MIP 5000 dispatch consoles are used for all dispatch operations. The dispatch consoles support patching capabilities for interoperability purposes.

Table 2 summarizes the channels as they appear on the dispatch console.

Table 2 – Andrews County Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Andrews County	Sheriff and PD primary dispatch
Fire	FD primary dispatch and paging
EMS	EMS primary

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
City	City of Andrews Public Works dispatch
Tex Law 1	Statewide interoperability channel
Regional	Regional interoperability channel
Paging	VFD and EMS paging

4.1.4 Radio Sites

Tables 3 and 4 detail information provided by Andrews County regarding the radio sites.

Table 3 – Andrews County Radio Sites

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
County Tower	N of Rte 176, w of City limit	Andrews County	35 years	N
West Tower	28 miles w of Andrews on Rte 176	Andrews County	3 Years	Y

Table 4 – Andrews County Radio Shelters

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
County Tower	8x8	Metal	35		Y	N
West Tower	8x12	Thermobond	2009		Y	Y

4.1.5 Radio Inventory

Tables 5 and 6 reflect fixed infrastructure and subscriber inventories for the Andrews County radio system.

Table 5 – Andrews County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Sheriff's Office – County Tower	Repeater	Motorola	Quantar P25	TX: 155.6700 RX: 154.7850 CTCSS: 88.5
Fire – County Tower	Repeater	Motorola	Quantar P25	TX: 154.2350 RX: 153.830 CTCSS: 88.5
Public Works –	Repeater	Motorola	MTR2000	TX: 158.7525

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
County Tower				RX: 153.7775 CTCSS: 125
Permian General Hospital – County Tower	Repeater	Motorola	Quantar	TX: 453.1250 RX: 458.1250 CTCSS: 192.8
Andrews ISD – County Tower	Repeater	Motorola	MOTOTRBO XPR8300	TX: 461.3750 RX: 466.3750 CTCSS: 88.5
Fire – West Tower	Repeater	Motorola	Quantar P25	TX: 155.6700 RX: 154.7850 CTCSS: 88.5
Sheriff’s Office – West Tower	Repeater	Motorola	Quantar P25	TX: 154.2350 RX: 153.830 CTCSS: 88.5

Table 6 – Andrews County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Sheriff’s Office	Motorola	Astro Spectra	Mobile	18
	Motorola	XTL2500	Mobile	7
	Motorola	XTS5000	Portable	20
VFD	Motorola	XTL2500	Mobile	12
	Motorola	XTS1500	Portable	10
Andrews PD	Motorola	XTL2500	Mobile	12
	Motorola	XTS5000	Portable	12
EMS	Motorola	XTL5000	Mobile	4
All	Motorola	XTL5000	Control Station	6
Total Mobiles				53
Total Portables				42
Total Control Stations				6
Total				101

4.1.6 FCC Licenses

Table 7 – Andrews County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
KVM232	1	VIC: ANDREWS COUNTY TX		154.7850 154.9500	MO		144	144	11K2F2D 11K2F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
									20K0F3E 8K10F1D 8K10F1E
	2	32-19-26.4	102-34-16.6	155.3700 155.6700 155.6700	FB FB FB2	107	350	350	11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E
	3	32-25-26.3	103-00-45.9	155.6700	FB2	118.8	125	250	11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E
	4	40 km around location 1		155.6700 154.7850	MO		110	160	11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E
	5	6.1 m control station		154.7850	FX1		100	200	11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E
KNJY743	2	32-19-12.4	102-32-48.6	155.9850	FB	23	75	125	20K0F3E
	3	80 km around location 2		155.9850	MO		50		20K0F3E
WPFJ927	1	32-19-26.4	102-34-16.6	FB2	FB2	76	100	80	11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E
	2	6.1 m control stations		153.8300	FX1		10	10	11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E
	3	ANDREWS, TX		153.8300 154.2350	MO		100	100	11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E
	4	32-25-26.3	103-00-45.9	154.2350	FB2	111	125	250	11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
	5	40 km around location 4		154.2350 153.8300	MO		100	100	11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E

The active FCC licenses belonging to Andrews County can be found in **Appendix A**.

4.1.6.1 KVM232

This license is used for law enforcement agencies. It has two frequencies: 155.670, the primary dispatch frequency and 154.785. Only the dispatch frequency is repeated. This license has been narrowbanded.

4.1.6.2 KNJY743

This license is licensed by Andrews County and covers the operation of a single simplex channel that is addressed to the attention of the County Judges Office. The license reflects wideband operation and must be updated with narrowband emissions prior to January 1, 2013.

4.1.6.3 WPFJ927

This license is used for fire and EMS services. The primary dispatch frequency of 154.235 MHz is repeated. The frequency of 153.830 is a tactical channel.

4.1.7 System Coverage

Due to the rural nature of Andrews County, there are many areas of reduced radio coverage when public safety agencies respond outside the city.

Table 8 – Andrews County Predicted Coverage

Radio System Coverage	
Mobile Coverage	75%
Portable Coverage	45%
In-building Coverage	50%

The coverage map below depicts the predicted “talk out” portable coverage for Andrews County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

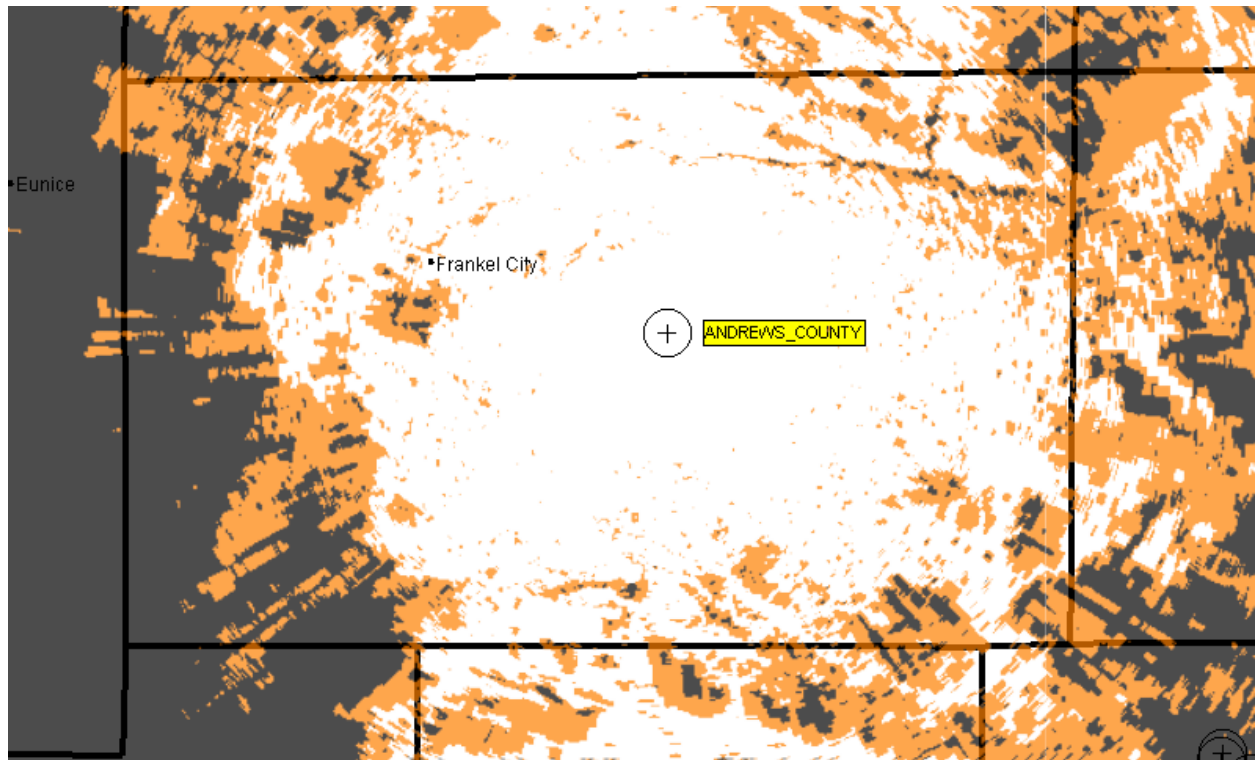


Figure 3 – Predicted Radio Coverage for Andrews County Law Enforcement Wideband Analog

The law enforcement radio system coverage agrees to a great degree with what users stated. Since Andrews County is relatively flat, the system performs acceptably over an area mostly limited by transmitter power and antenna height. The limiting factor is the users' ability to talk back as mobile and portable power is considerably less than base transmitters. Coverage in the western part of the county is where most limitations occur. This performance is mitigated by the fact that there is little population and few roads in the poor signal areas. Performance along Route 176 at the western border is weak; this is the only highway into New Mexico.

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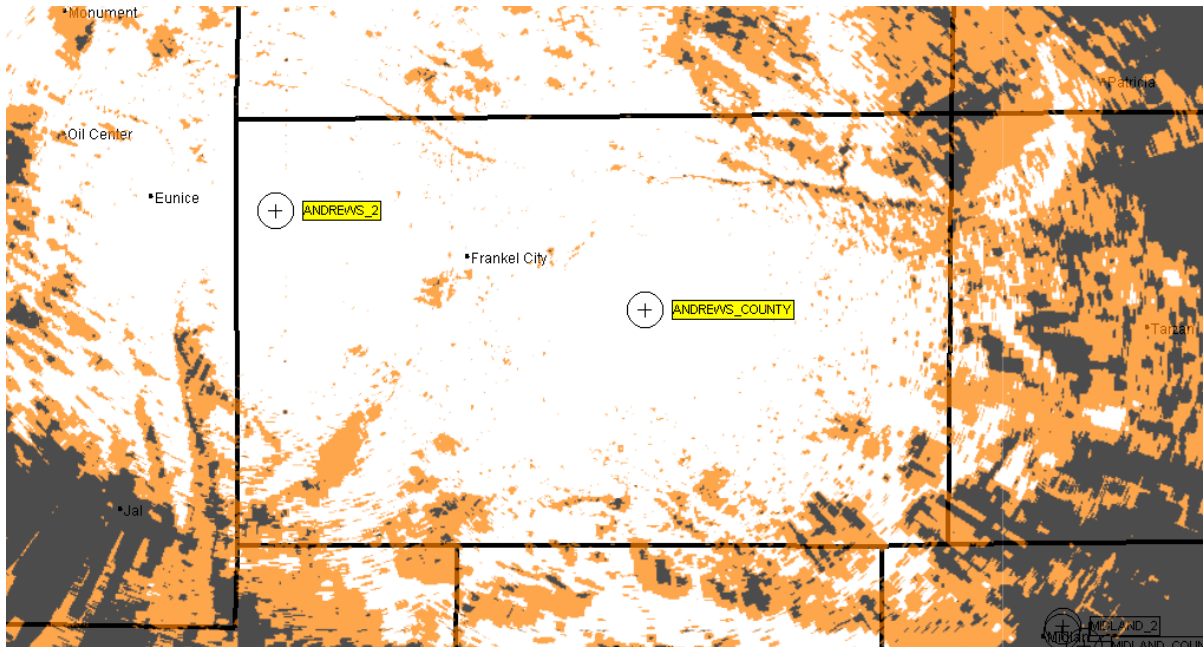


Figure 4 - Predicted Radio Coverage for Andrews County Fire Wideband Analog

The fire/EMS radio system coverage agrees to a great degree with what users stated. Performance in the western area of the county for fire and EMS is better than law enforcement as there is an additional radio site to cover Route 176 into New Mexico.

4.1.8 Future Plans

The County is in the process of narrowbanding its radio system and upgrading to P25 trunked technology. The PBRICS implementation includes a site currently under environmental assessment in the north east corner of Andrews County.

4.1.9 Past Expenditures

Table 9 lists radio expenditures by Andrews County since 2007.

Table 9 – Andrews County Past Expenditures

Year	Project Description	Total Cost	Funding Source
2010	Added subscriber units	\$10,000	County funds
2009	Added subscriber units	\$12,500	County and City funds
2008	New subscriber units for VFD	\$56,000	City funds
2008	New tower and shelter	\$150,000	County funds
2007	New subscriber units for VFD	\$12,000	County funds
2006	New subscriber units for VFD	\$20,000	County and City funds
Total		\$260,500	

4.1.10 Future Funding

Andrews County did not indicate future funding opportunities.

4.1.11 Assessment

Andrews County has a simple radio network that generally meets its present needs. One identified issue is coverage outside of the city of Andrews.

Interoperability is generally sound within the county and with neighboring counties. County radios have the frequencies of neighboring counties installed.

Coverage – Coverage problems experienced within the county are a concern. The addition of another radio site on the eastern side of the county will certainly improve capabilities, but the costs will have a significant impact on the ability to implement the site.

Conventional Architecture – Implementation of the PBRICS (Permian Basin Regional Interoperable Communications System) site in eastern Andrews County should improve radio coverage in the county. This site is still in the planning stages and is not scheduled to be implemented until mid-2012.

Channel Reuse – The present system utilizes the same channels at both the primary and west towers. This configuration may result in interference between the stations. Radio programming indicates that both sites operate on the same CTCSS tones. This configuration will result in an echo for remote units that are in the overlapping coverage area of both sites. If audio from both sites is received from control stations at the dispatch center, echoes will be received by console operators as well.

Subscribers – Subscriber radios utilized within Andrews County include a variety of Motorola radios. The only radio not capable of P25 operation is the Astro Spectra used by the Sheriff's Office.

Narrowbanding – All of the subscriber radios reported on the subscriber inventory are narrowbanding capable, but are still operating with some channels in the wideband mode. All radios will require reprogramming to meet narrowbanding criteria.

Capacity – Capacity on the primary law enforcement channel may become taxed during peak usage periods when multiple events occur simultaneously. An additional repeater channel is desired in order to separate traffic between the police department and Sheriff's Office.

Interoperability – Interoperability within Andrews County is achieved primarily through the use of shared VHF frequencies. While most interoperability partners operate in the VHF band, connectivity is limited with 800 MHz systems. The population center within the Permian Basin region is located in the cities of Midland and Odessa, which operate 800 MHz trunking systems. If 800 MHz users respond to Andrews County, cross-band connectivity will depend on the localized coverage area provided by a deployable mobile gateway.

5. BORDEN COUNTY FINDINGS

Borden County, with an estimated population of 595, is approximately 899 square miles and in the northeast corner of the PBRPC region. The city of Gail is the only population center in the county. Information for Borden County was provided by Petro Communications.

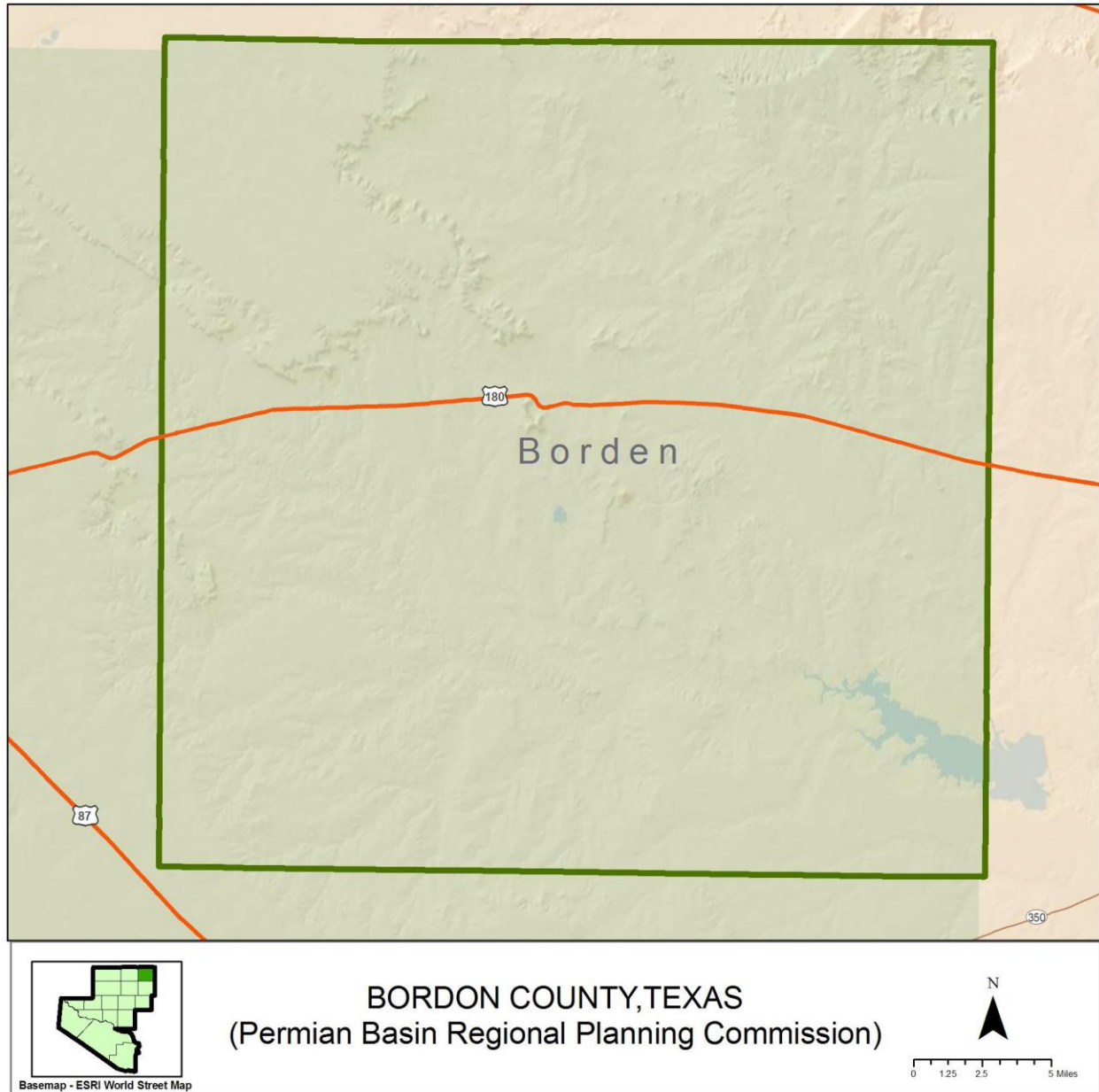


Figure 5 – Borden County

5.1 Borden County Radio System

5.1.1 System Description

Borden County operates two VHF repeaters for law enforcement, fire and EMS. Both repeaters are located on Gail Mountain, a high point centrally located just southwest of the city. Separate channels are utilized for law enforcement, fire, and EMS operations.

5.1.2 User Agencies

Table 10 outlines the user groups that utilize the Borden County radio system.

Table 10 – Borden County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Sheriff's Office	Law	Bill Gannaway	806-756-4311	
Borden VFD	Fire	Buster Taylor	806-756-4405	
Borden EMS	EMS	Mike Valentine	806-756-4311	valentine@poka.com

Each department has its own dispatch and tactical frequencies.

5.1.3 Dispatch Facilities

Borden County does not have a dispatch console; a Motorola control station is used for dispatch.

Table 11 summarizes the channels used within the county.

Table 11 – Borden County Channels

Channel Names	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Borden	Dawson
Gaines	Lamesa
Tex Law 1	Scurry
Howard	Garza

5.1.4 Radio Sites

Tables 12 and 13 detail information provided by Petro Communications regarding Borden County radio sites.

Table 12 – Borden County Radio Sites

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Borden	Gail Mountain	County	35	N
Borden EMS	Gail Mountain	County	35	N

Table 13 – Borden County Radio Shelter

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Gail Mountain	8x8	Metal Portable	1976		Y	N

5.1.5 Radio Inventory

Tables 14 and 15 reflect fixed infrastructure and subscriber inventories for the Borden County radio system.

Table 14 – Borden County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Sheriff's Office – Gail Mountain	Repeater	Motorola	Quantar	TX: 155.7300 RX: 156.0300
EMS – Gail Mountain	Repeater	Motorola	Quantar	TX: 155.3250 RX: 150.7750

Table 15 – Borden County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Sheriff's Office	Motorola	XTL2500	Mobile	3
	Motorola	XTS2500	Portable	6
	Motorola	XTL2500	Control Station	1
Fire	Motorola	XTL2500	Mobile	2
EMS	Kenwood	TK790	Mobile	2
	Vertex	VX354	Portable	14
	Kenwood	TK5220	Portable	4
Total Mobiles				7
Total Portables				24
Total Control Stations				1
Total				32

5.1.6 FCC Licenses

Table 16 – Borden County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
WNQZ868	2	32-46-11.4	101-26-42.5	458.0000	FX1	5	10	29.9	20K0F3E
				155.7300	FB	18	45	152.2	
				156.0300	FX1	18	45	152.2	
	4	32-45-37.4	101-27-32.5	453.0000	FX1	5	10	39.9	20K0F3E
				458.0000	FX1	5	10	39.9	
				455.3700	FB	73	110	254	
6	BORDEN, TX		154.9500	MO			110		20K0F3E
			155.7300						
			156.0300						
WPHV234	1	32-45-37.4	101-27-32.5	155.3250	FB2	21	100	215	20K0F3E
	2	48 km around location 1		150.7750	MO		5		20K0F3E
				150.7750			100		
				155.3250			5		
				155.3250			100		

The active FCC licenses belonging to Borden County can be found in **Appendix B**.

5.1.6.1 WNQZ868

This license is used by the Sheriff's Office for dispatch and car-to-car. This license has not been modified for narrowband use.

5.1.6.2 WPHV234

This license is used by EMS and fire service. This license has not been modified for narrowband use.

5.1.7 System Coverage

Coverage in the County is fair. The northern portion of the County has some rugged terrain and coverage is not reliable.

Table 17 – Borden County Predicted Coverage

Radio System Coverage	
Mobile Coverage	80%
Portable Coverage	60%
In-building Coverage	60%

The coverage map below depicts the predicted “talk out” portable coverage for Borden County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

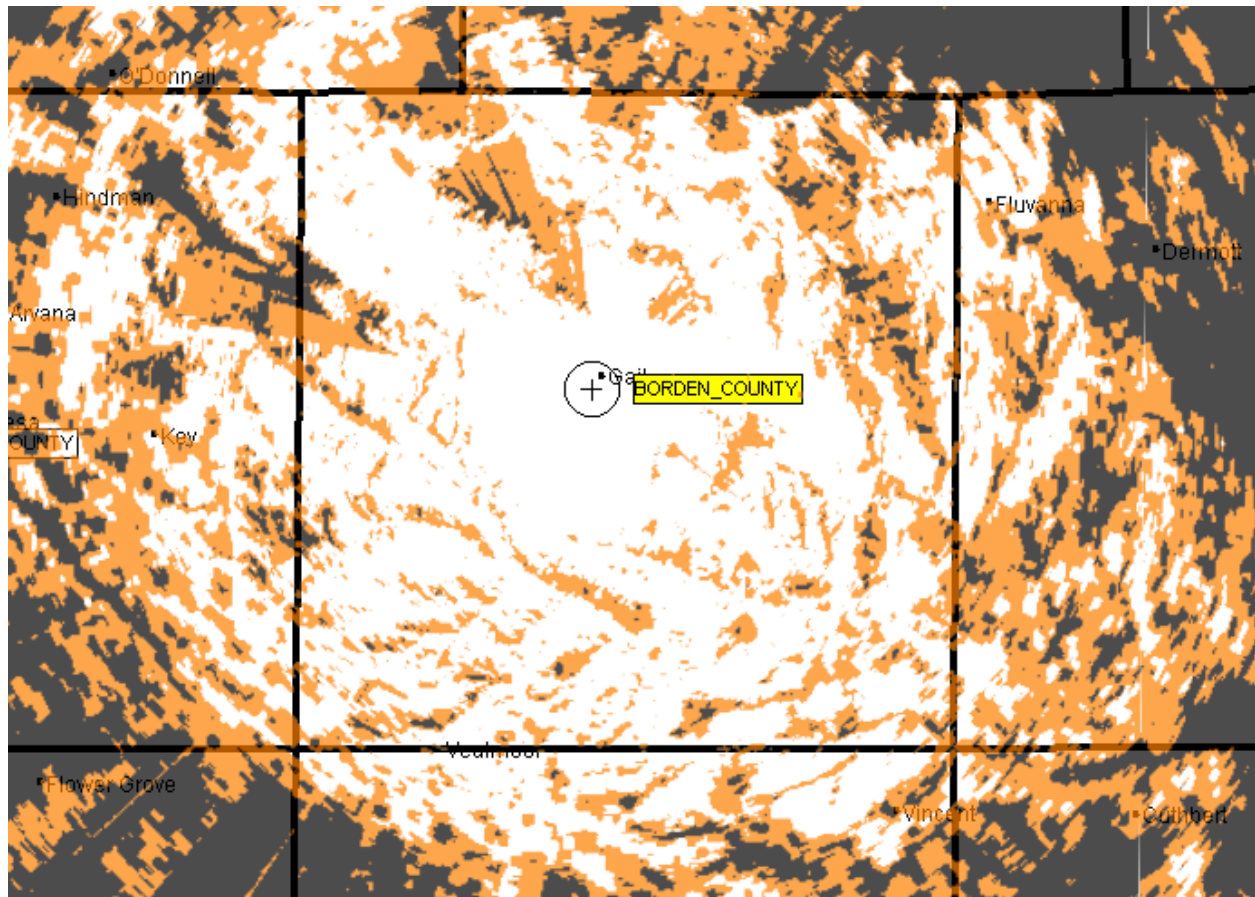


Figure 6 – Predicted Radio Coverage for Borden County Wideband Analog

Radio coverage in Borden County is relatively good for mobile units. Portable coverage is lacking in most areas outside of Gail. The northern portion of the county has some hills that block communications. One highway transverses the county and coverage along it is indicated at approximately 80 percent.

5.1.8 Future Plans

The County would like add radio units and upgrade to P25 capabilities. Narrowbanding of their units is required.

5.1.9 Past Expenditures

Borden County did not indicate past radio expenditures.

5.1.10 Future Funding

Borden County did not indicate future funding opportunities.

5.1.11 Assessment

Borden County has a simple radio network that generally meets its present needs. One identified issue is coverage in the areas outside Gail.

Interoperability is generally sound within the county and with neighboring counties. All Sheriff's Office radios have adjacent county channels.

Coverage – Coverage problems experienced within the county are a concern. Because the tower is well placed within the center of the county, a higher antenna height may be more appropriate to meet countywide coverage needs.

Conventional Architecture – Borden County will be outside the range of the PBRICS system for regular coverage. Borden County radios will have to be operated in both conventional and P25 mode when agencies respond to interoperability events.

Subscribers – Subscriber radios utilized within Borden County include a variety of Motorola, Kenwood and Vertex models, all of which are capable of narrowbanding; however, only the Motorola units can be upgraded to P25. Additional replacements are necessary in order for all agencies to utilize the PBRICS system once it is implemented.

Console – The present dispatch configuration utilizes a single XTL2500 mobile control station. The configuration limits the dispatcher to monitoring a single channel at a time. An actual dispatch console is necessary in order to monitor multiple channels and to provide enhanced features such as simul-select, all-call, and patching.

Interoperability – Interoperability within Borden County is achieved primarily through the use of shared VHF frequencies. While most interoperability partners operate in the VHF band, connectivity is limited with 800 MHz systems. The population center within the Permian Basin region is located in the cities of Midland and Odessa, which operate 800 MHz trunking systems. If 800 MHz users respond to Borden County, cross-band connectivity will depend on the localized coverage area provided by a deployable mobile gateway.

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6. CRANE COUNTY FINDINGS

Crane County, with an estimated population of 4,165, is approximately 785 square miles. The city of Crane is the only population center in the county. Information for Crane County was provided by Petro Communications.

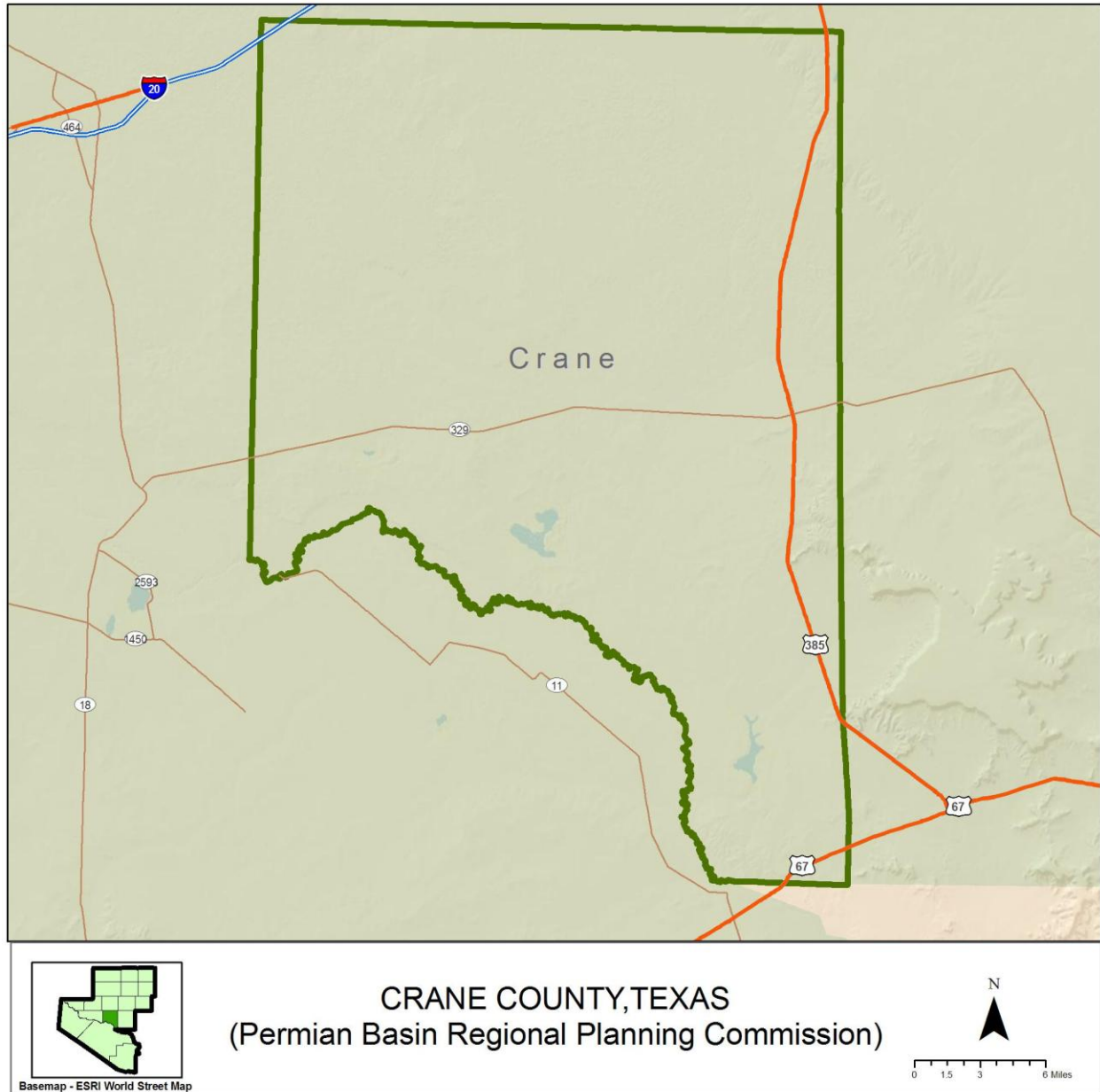


Figure 7 – Crane County

6.1 Crane County Radio System

6.1.1 System Description

All radio systems in Crane County operate in the VHF frequency band. The Sheriff's Office and the Crane PD operate through a single conventional repeater, while the VFD operates a simplex base station.

6.1.2 User Agencies

Table 18 outlines the user groups that utilize the Crane County radio system.

Table 18 – Crane County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Sheriff's Office	Law	Andy Aguilar	432-558-3571	
Crane PD	Law	JD Smith	432-558-2212	
VFD	Fire/EMS	Gary Collier	432-558-2361	

Public safety communications in Crane County are limited to dispatch channels and tactical channels.

6.1.3 Dispatch Facilities

Crane County operates a Motorola MIP5000 console.

Table 19 summarizes the channels as they appear on the dispatch console.

Table 19 – Crane County Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Crane Sheriff's Office	Sheriff and primary dispatch
Crane VFD	VFD Primary dispatch

6.1.4 Radio Sites

Tables 20 and 21 detail information provided by Petro Communications regarding Crane County radio sites.

Table 20 – Crane County Radio Site

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Crane County	.25 miles N Hwy 329	County	35	N

Table 21 – Crane County Radio Shelter

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Crane County	8x8	Wood	1975		Y	N

6.1.5 Radio Inventory

Tables 22 and 23 reflect fixed infrastructure and subscriber inventories for the Crane County radio system.

Table 22 – Crane County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Crane County	Repeater	Motorola	Quantar	155.565

Table 23 – Crane County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Sheriff's Office	Motorola	XTL2500	Mobile	3
	Motorola	Astro Spectra	Mobile	3
	Motorola	XTS1500	Portable	12
	Motorola	XTL5000	Control Station	1
Police	Motorola	XTL1500	Mobile	14
	Motorola	XTS1500	Portable	10
VFD	Motorola	XTL1500	Mobile	7
	Motorola	XTS1500	Portable	5
Total Mobiles				27
Total Portables				27
Total Control Stations				1
Total				55

6.1.6 FCC Licenses

Table 24 – Crane County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
KVJ786	1	31-23-50.5	102-21-36.5	155.3700 155.5650	FB2	91	300		20K0F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
	2	121 km around location 1		154.8150 154.9500	MO		100		20K0F3E

Table 25 – Crane FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
WNAS687	1	CRANE, TX		158.8800	MO		100		20K0F3E
	2	31-23-50.5	102-21-36.5	155.8050	FB	79	100	25	20K0F3E
KD52233	1	3 km around 31-23-50.5 N 102-21-2.5 W		458.9375	MO		2	20	16K0F2D
KR5769	1	VIC: CRANE TX		154.8150 154.9500 155.3700	MO		100		20K0F3E
WNLQ627	1	31-23-50.5	102-21-34.5	154.1300	FB2	41	60	75	20K0F3E
	2	40 km around location 1		154.1300 159.0600	MO		100	100	20K0F3E

The active FCC licenses belonging to Crane County and Crane can be found in **Appendix C**.

6.1.6.1 KVJ786

This is the primary license for law enforcement. The Sheriff's Office uses 155.565 MHz as its dispatch channel. This license has not been modified for narrowband use.

6.1.6.2 WNAS687

This license is used by the Crane PD. Its primary dispatch frequency is 155.805 MHz. This license has not been modified for narrowband use.

6.1.6.3 KD52233

This license covers the operation of a single mobile talk around frequency. The license is addressed to the attention of Chief of Police. This license has not been modified for narrowband use.

6.1.6.4 KR5769

This license covers mobile operation of TXLAW1, TXLAW2, and the Sheriff's Office mobile frequency. This license has not been modified for narrowband use.

6.1.6.5 WNLQ627

This license is the VFD's dispatch channel, which operates on 154.130 MHz. This license has not been modified for narrowband use.

6.1.7 System Coverage

Due to the rural nature of the county, there are coverage issues with the radio system. Coverage is poor in the outermost areas of the county.

Table 26 – Crane County Predicted Coverage

Radio System Coverage	
Mobile Coverage	75%
Portable Coverage	50%
In-building Coverage	90%

The coverage map below depicts the predicted “talk out” portable coverage for Crane County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

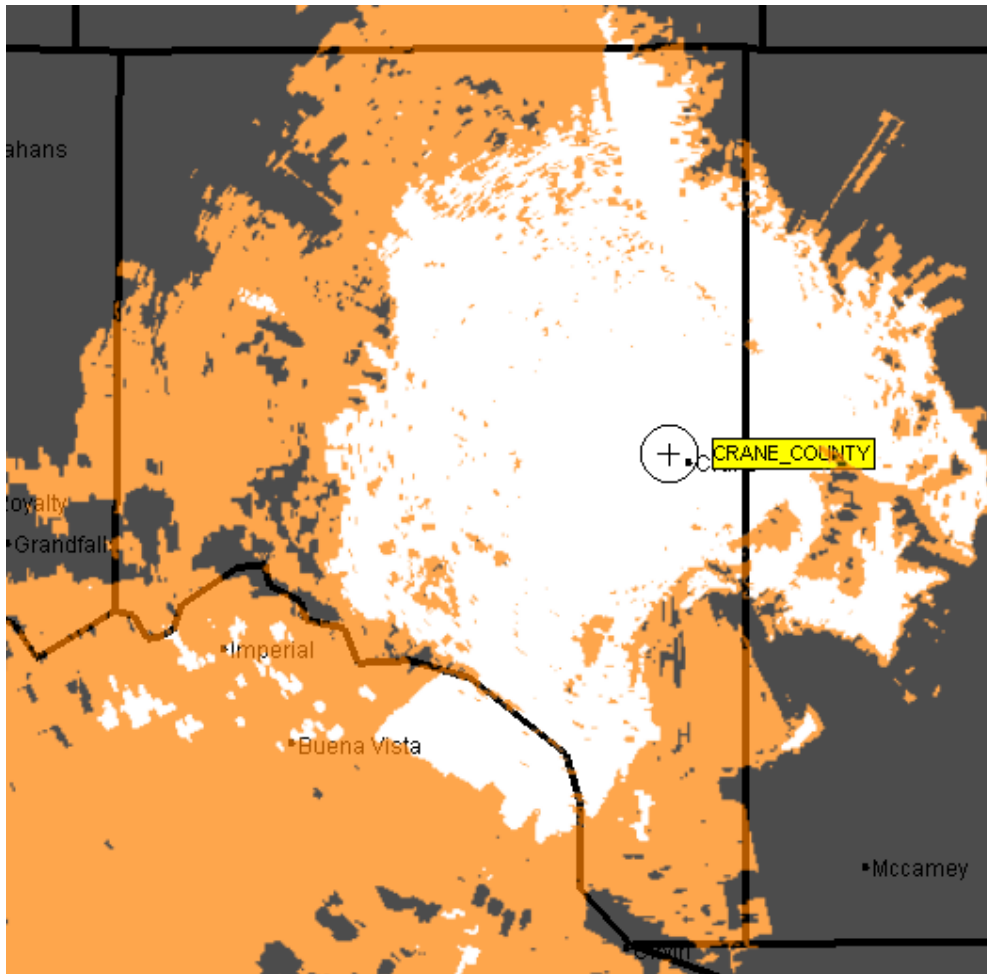


Figure 8 – Predicted Radio Coverage for Crane County VHF Wideband

Coverage is primarily in the area Crane, which is the county's population center. Coverage to the south of the city along Route 385, the only main highway in the county, is limited by a ridge south of the city. Coverage to the west is limited by the antenna height, power of the transmitters, and location of the transmitters in the eastern portion of the county.

6.1.8 Future Plans

The County has plans to replace its Astro Spectra radios with newer technology XTL2500 radios. To comply with FCC rules, the County will be narrowbanding their radio system and are looking toward P25 technology.

6.1.9 Past Expenditures

Crane County did not indicate past radio expenditures. All funding for radios has come from the RPC.

6.1.10 Future Funding

Crane County did not identify future funding opportunities.

6.1.11 Assessment

Crane County has a simple radio network that generally meets its present needs. One identified issue is coverage in the areas outside the city of Crane.

Interoperability is generally sound within the county and with neighboring counties.

Coverage – Coverage problems experienced within the county are a concern. The addition of another radio site on the western side of the county will certainly improve capabilities, but the costs will have a significant impact on the ability to implement the site.

Conventional Architecture – Conventional stations require channel changing as radio users roam between different tower sites. While coverage is provided by a single site in Crane County, implementation of additional sites to address coverage issues will introduce operational challenges. The implementation of the PBRICS site in Pecos County should improve radio coverage in Crane County and permit roaming between tower sites without the need for radio users to switch channels.

Subscribers – Subscriber radios utilized within Crane County include a variety of Motorola models. The only radio not capable of P25 operation is the Astro Spectra used by the Sheriff's Office.

Narrowbanding – While all subscriber radios are narrowbanding capable, reprogramming will be necessary to meet narrowbanding criteria.

Interoperability – Interoperability within Crane County is achieved primarily through the use of shared VHF frequencies. While most interoperability partners operate in the VHF band, connectivity is limited with 800 MHz systems. The population center within the Permian Basin region is located in the cities of Midland and Odessa, which operate 800 MHz trunking systems. If 800 MHz users respond to Crane County, cross-band connectivity will depend on the localized coverage area provided by a deployable mobile gateway.

7. DAWSON COUNTY FINDINGS

Dawson County, with an estimated population of 13,657, is approximately 902 square miles and lies on the northern border of the PBRPC. The city of Lamesa is the only population center in the county. Information for Dawson County was provided by Petro Communications.

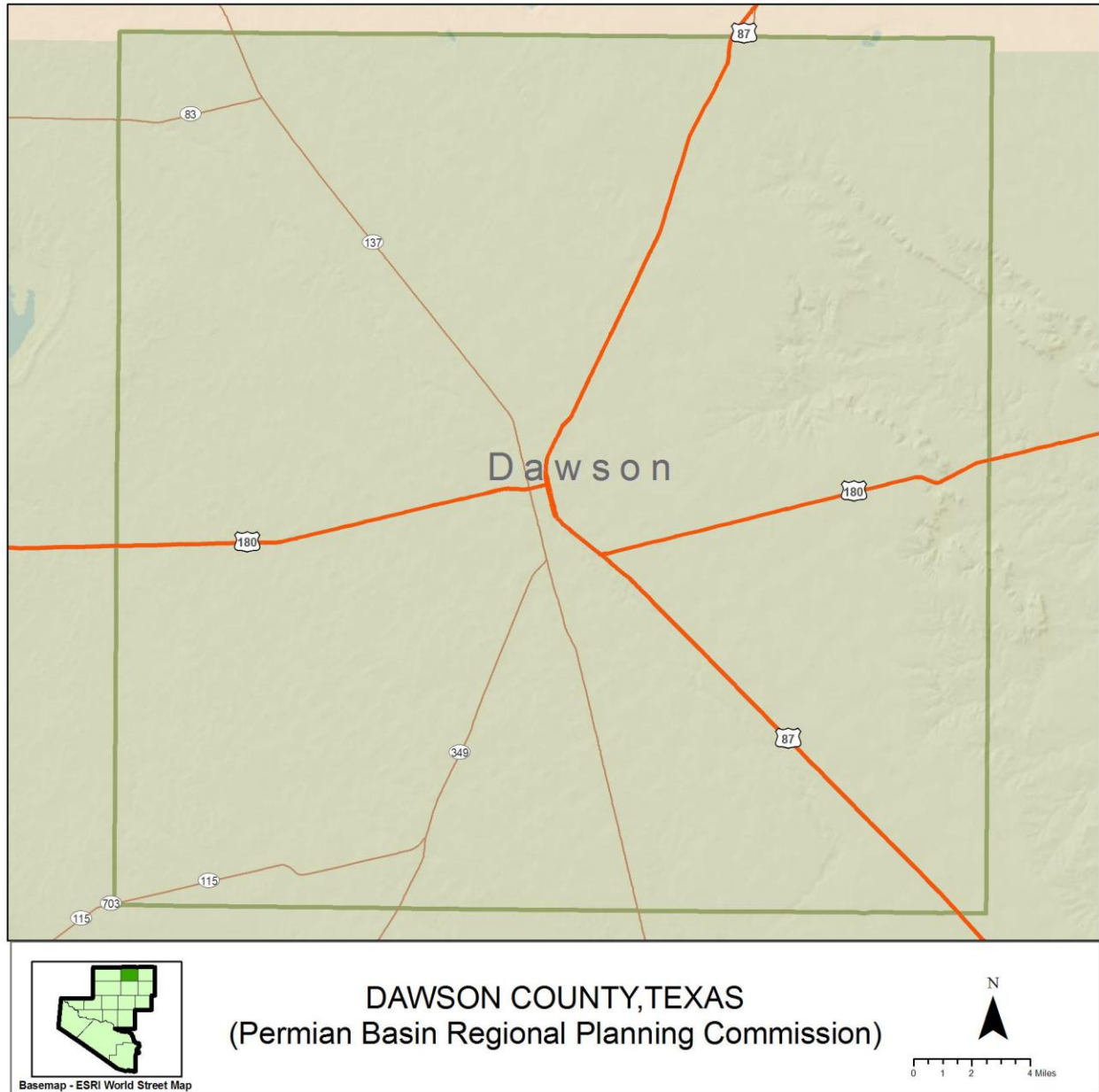


Figure 9 – Dawson County

7.1 Dawson County Radio System

7.1.1 System Description

Radio systems in Dawson County operate on both VHF and UHF and are shared by Dawson County and the city of Lamesa. Law enforcement and fire are on VHF conventional analog repeaters. EMS operates on a UHF system. Separate repeater channels are utilized for law enforcement, fire, and EMS respectively. A fourth repeater channel is utilized by the city public works department, and a mobile only channel is utilized for tactical operations by the police department

Paging operations are performed on the system using a designated VHF simplex frequency. A mobile command post is maintained by the Lamesa FD for use during an interoperability event.

7.1.2 User Agencies

Table 27 outlines the user groups that utilize the Dawson County radio system.

Table 27 – Dawson County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Sheriff's Office	Law	Matt Hogg	806-872-7560	matthogg@windstream.net
Dawson EMS	EMS	Richard Garcia	806-872-2121	
Lamesa VFD	Fire	Larry Duyck	809-872-4352	
Lamesa PD	Law	Priscilla Teague	806-872-3464	

All communications are handled from the Lamesa PD, with the Sheriff's Office as alternate.

7.1.3 Dispatch Facilities

Lamesa PD operates a Motorola MIP5000 console.

Table 28 summarizes the channels as they appear on the dispatch console.

Table 28 – Dawson County Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Lamesa	Police primary dispatch, Sheriff dispatch
Lamesa Fire	Fire dispatch
Lamesa EMS	EMS
City PW	Lamesa Public Works
PD 6	Police talkaround

7.1.4 Radio Sites

Tables 29 and 30 detail information provided by Petro Communications regarding Dawson County radio sites.

Table 29 – Dawson County Radio Site

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Cotton King	4.25 m W on Hwy 180	Cotton King Gin	35	N

Table 30 – Dawson County Radio Shelter

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Cotton King	10x20	Metal Building	1980		Y	N

7.1.5 Radio Inventory

Tables 31 and 32 reflect fixed infrastructure and subscriber inventories for the Dawson County radio system.

Table 31 – Dawson County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Sheriff's Office	Repeater	Motorola	Quantar	155.565
Fire	Repeater	Motorola	Quantar	154.250

Table 32 – Dawson County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Sheriff's Office	Motorola	EX600	Portable	12
	Motorola	ASTRO SPECTRA	Mobile	6
	Motorola	CDM1250	Mobile	2
	Motorola	XTL5000	Control Station	2
Lamesa Police	Motorola	XTL1500	Mobile	16
	Motorola	HT1250	Portable	16
	Motorola	XTL5000	Control Station	3
Lamesa Fire	Motorola	XTL2500	Mobile	10
	Motorola	XTS1500	Portable	16
Dawson EMS	Motorola	MARATRAC	Mobile	4

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
	Motorola	HT1250	Portable	16
	Kenwood	TK5210	Portable	20
Total Mobiles				38
Total Portables				80
Total Control Stations				5
Total				123

7.1.6 FCC Licenses

Table 33 – Dawson County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
KVJ787	1	32-43-30.4	101-57-11.6	155.3700	FB	12	110	94	20K0F3E
	2	32-43-22.4	102-1-51.6	155.5650	FB2	147	110	145	20K0F3E
	3	6.1 m control stations		154.8150	FX1		2		20K0F3E
	4	40 km around location 1		154.8150 154.9500	MO		110		20K0F3E
WQBH312	1	32-45-48.4	101-56-37.6	462.9500	FB2	14	75	250	20K0F3E
	2	32 km around location 1		462.9500 462.9750 463.0000 463.0250 463.0500 463.0750 463.1000 463.1250 463.1500 463.1750 467.9500 467.9750 468.0000 468.0250 468.0500 468.0750 468.1000 468.1250 468.1500 468.1750	MO		100	100	20K0F3E
WPZQ227	1	32-43-22	102-1-52	155.5650 154.2500	FB2	147.8	125	95	20K0F3E
	2	DAWSON, TX		153.9500 154.8150	MO		100	100	20K0F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
	3	32-42-52.4	101-55-23.6	153.9500	FX1	43	40	40	20K0F3E
	4	6.1 m control stations		153.9500	FX1		10	20	20K0F3E
WQCG880	1	32-42-52	101-55-22	155.1450 154.9950	FB	41	160	200	20K0F3E
	2	30 km around location 1		154.9950 155.1450	MO		100	150	20K0F3E

The active FCC licenses belonging to Dawson County can be found in **Appendix D**.

7.1.6.1 KVJ787

This license is used by the Dawson County Sheriff's Office. The primary frequency, 155.565 MHz, is used for dispatch. The license also has the frequency 154.950 MHz, Texas LAW 1 and 155.370 MHz, Texas LAW 2. This license has not been modified for narrowbanding.

7.1.6.2 WQBH312

This license is used by Dawson County EMS. The primary frequency 462.950 MHz is used for dispatch. Mobile units have several other EMS channels for local use. This license has not been modified for narrowbanding.

7.1.6.3 WPZQ227

This license is held by the Lamesa VFD. The frequency 154.250 MHz is the primary fire dispatch channel. This license has not been modified for narrowbanding.

7.1.6.4 WQCG880

This license covers the operation of two VHF simplex stations. One channel is utilized for tactical operations by the Lamesa PD and the second channel is used for paging operations. This license has not been modified for narrowbanding.

7.1.7 System Coverage

Coverage in Dawson County is provided by a centrally located tower, which provides acceptable mobile coverage for most of the county.

Table 34 – Dawson County Predicted Coverage

Radio System Coverage	
Mobile Coverage	85%
Portable Coverage	50%
In-building Coverage	75%

The coverage map below depicts the predicted “talk out” portable coverage for Dawson County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

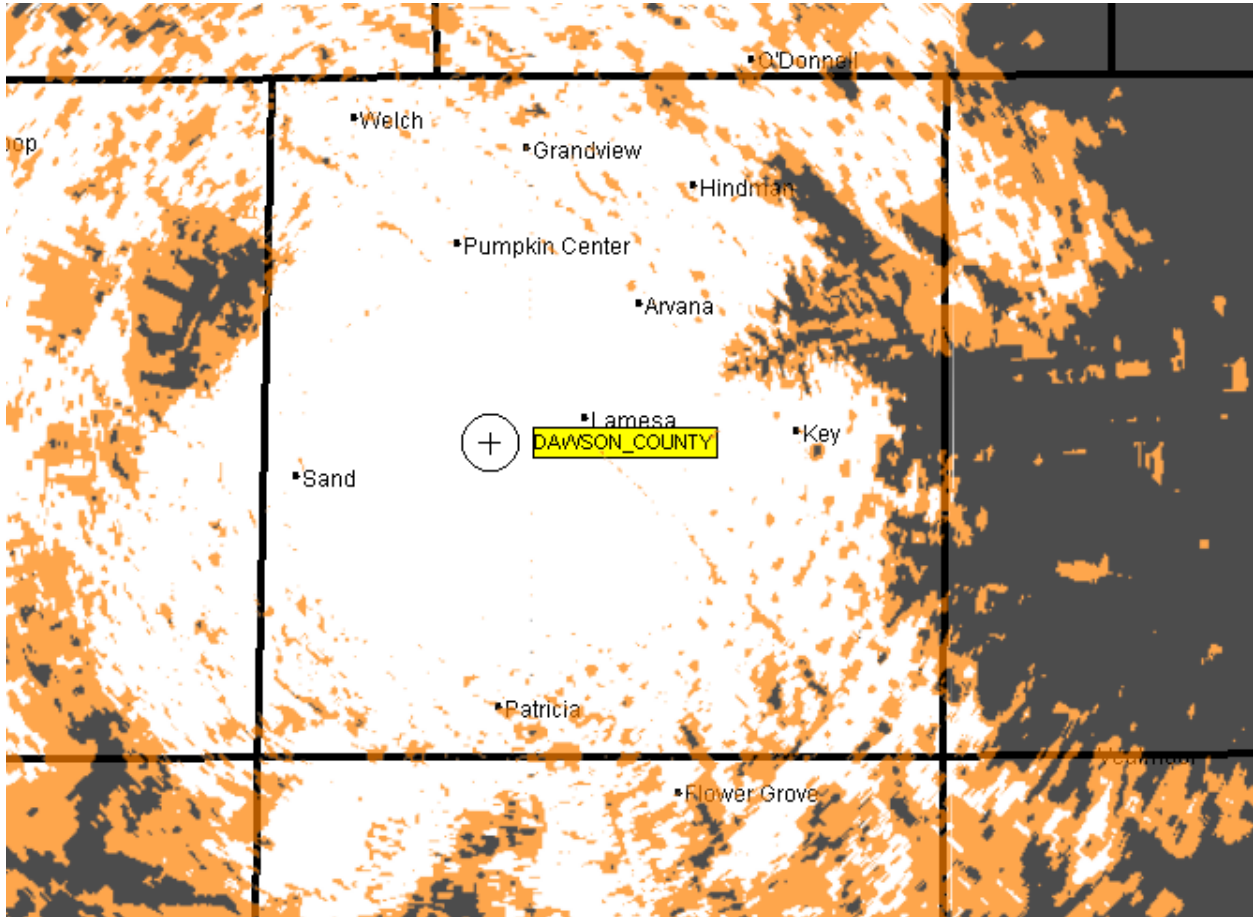


Figure 10 – Predicted Radio Coverage for Dawson County Wideband Analog

Predicted coverage shows poor performance in the eastern portion of the county. This agrees with actual coverage as the eastern part of the county has more rugged terrain.

7.1.8 Future Plans

Future plans include replacing many subscriber units with P25 capable radios. The County would also like to implement mobile data.

7.1.9 Past Expenditures

Dawson County did not indicate past radio expenditures; however, the RPC provided funding in 2006 and 2007 for upgrades.

7.1.10 Future Funding

Dawson County did not identify future funding opportunities.

7.1.11 Assessment

Dawson County has radio networks that generally meet its present needs. One identified issue is coverage in the areas east of Lamesa.

Interoperability is generally sound within the county and with neighboring counties.

Coverage – Coverage problems experienced within the county are a concern. The addition of another radio site on the eastern side of the county will certainly improve capabilities, but costs will have a significant impact on the ability to implement the site.

Conventional Architecture – Conventional stations require channel changing as radio users roam between different tower sites. While coverage is provided by a single site in Dawson County, implementation of additional sites to address coverage issues will introduce operational challenges unless simulcast or trunking technologies are used.

Subscribers – Subscriber equipment utilized within Dawson County include a variety of Motorola and Kenwood radios. While most radios are capable of narrowbanding, approximately 50 percent will require replacement in order to have P25 capabilities.

Narrowbanding – Radios used within Dawson County are capable of narrowband operation, with the exception of four Maratrac radios used by Dawson EMS, which will require replacement. All radios will require reprogramming to meet narrowbanding criteria.

Interoperability – Interoperability within Dawson County is achieved primarily through the use of shared VHF frequencies. While most interoperability partners operate in the VHF band, connectivity is limited with 800 MHz systems. The population center within the Permian Basin region is located in the cities of Midland and Odessa, which operate 800 MHz trunking systems. If 800 MHz users respond to Dawson County, cross-band connectivity will depend on the localized coverage area provided by a deployable mobile gateway.

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8. ECTOR COUNTY FINDINGS

Ector County, with an estimated population of 134,625, is the most populated county in the PBRPC and is approximately 901 square miles. Odessa is its largest city. Other population centers include Notrees, Goldsmith, Gardendale and North Cowden. Odessa is the home of the University of Texas Permian Basin (UTPB) campus. Information for Ector County was provided by Petro Communications.

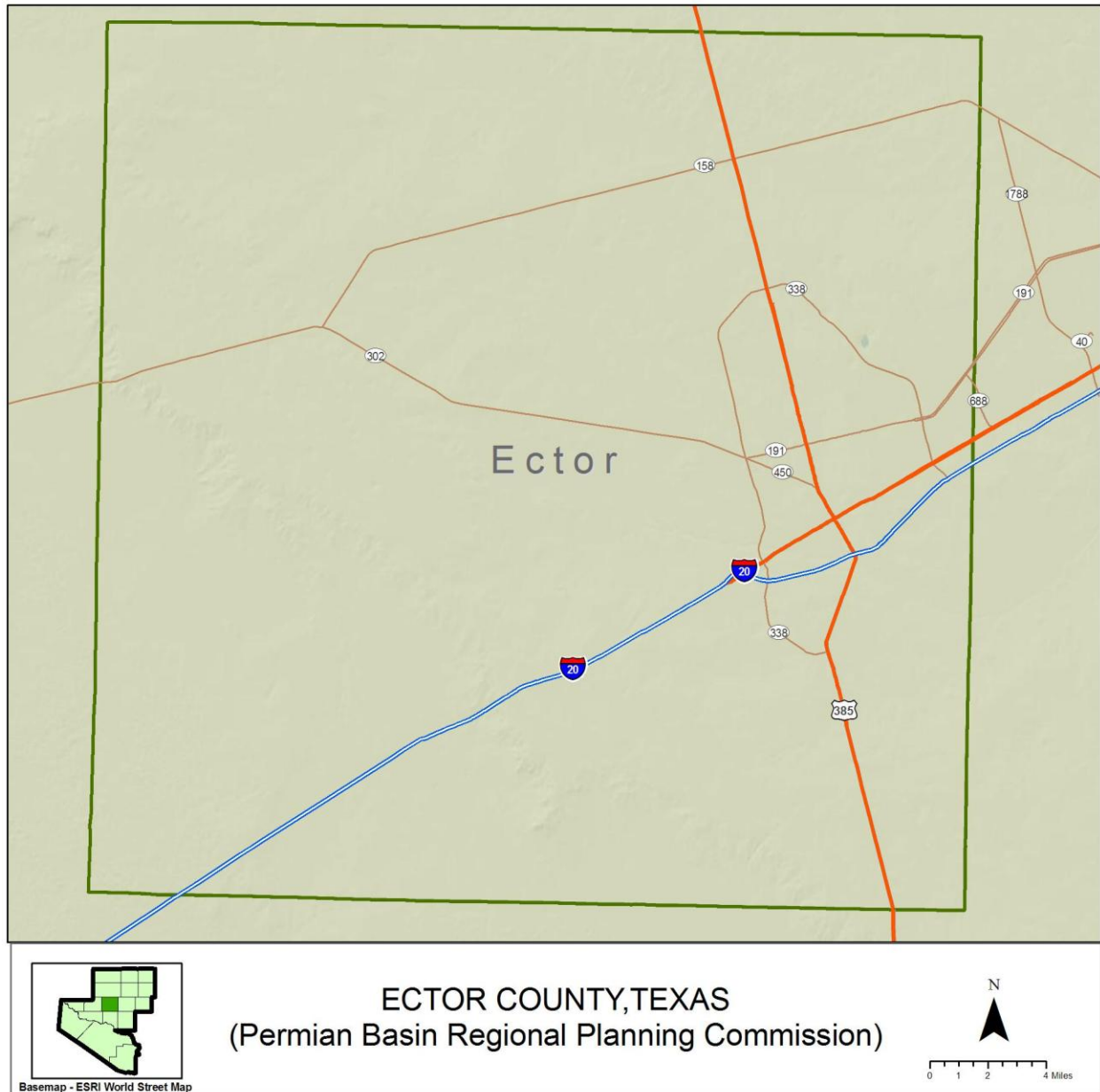


Figure 11 – Ector County

8.1 Ector County Radio System

8.1.1 System Description

Public safety radio systems outside of Odessa utilize conventional VHF technology, while Odessa utilizes an 800 MHz trunking. The county VHF system utilizes two primary conventional repeater channels that are used by the Ector Sheriff's Office and VFD dispatch. The repeater channels operate in the P25 digital mode. The repeater equipment was installed in 2006. Two primary transmitter locations are utilized by Ector County. Paging is performed on the fire channel. Interoperability is achieved with the city of Odessa through console patching.

8.1.2 User Agencies

Table 35 outlines the user groups that utilize the Ector County radio system.

Table 35 – Ector County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Ector County Sheriff's Office	Law	Norman Trent	432-385-1100	normalt@cp.ector.tx.us
Gardendale VFD	Fire	Marty White	432-362-6500	
Goldsmith VFD	Fire	Benny Cope	432-827-3445	
South Ector VFD	Fire	Linda Scott	432-332-2626	
West Odessa	Fire	Jimmie Ellis	432-530-0084	
Odessa PD	Law	Timothy Burton	432-335-3310	
Odessa FD	Fire	Stan Tinney	432-247-0509	stinney@odessa-tx.us
Odessa EMS	EMS	John Alvarez	432-247-0509	
UTPB	Law	Tom Hain	432-	
Odessa College	Law			

The Ector County Sheriff's Office provides law enforcement for areas outside of Odessa. Four VFDs provide fire and EMS service to these areas. Odessa has its own police and fire services.

8.1.3 Dispatch Facilities

Table 36 summarizes the channels as they appear on the dispatch console.

Table 36 – Ector County Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Ector SO	Sheriff Office Dispatch
Ector VFD	VFD Dispatch
Odessa PD	Odessa Police Dispatch

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Interop	State VHF Interop Channels

8.1.4 Radio Sites

Tables 37 and 38 detail information provided by Petro Communications regarding Ector County radio sites.

Table 37 – Ector County Radio Sites

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
ICI-4	Hwy 80 \$ FM866	Industrial Comm	30	N
ICA Tower	12500 South FM866	ICA Broadcasting	30	N

Table 38 – Ector County Radio Shelters

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
ICI-4	8x10	Metal	35		Y	N
ICA	6x8	Wood addition	30		N	N

8.1.5 Radio Inventory

Tables 39 and 40 reflect fixed infrastructure and subscriber inventories for the Ector County radio system.

Table 39 – Ector County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Ector County	Repeater	Motorola	T5365 Quantar	TX: 155.5875 RX: 154.0325
	Repeater	Motorola	T5365 Quantar	TX: 154.1450 RX: 150.7900

Table 40 – Ector County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Sheriff's Office	Motorola	XTL1500	Mobile	24
	Motorola	XTL2500	Mobile	22
	Motorola	XTS1500	Portable	27

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
VFD	Motorola	XTL5000	Control Station	6
	Motorola	XTL1500	Mobile	15
	Motorola	XTL2500	Mobile	15
	Motorola	XTS1500	Portable	25
	Motorola	MISC	Mobile	
Total Mobiles				76
Total Portables				52
Total Control Stations				6
Total				134

8.1.6 FCC Licenses

Table 41 – Ector County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
KVJ783	1	31-45-33	102-33-36	155.7000 155.5875	FB2	107	100	151	20K0F3E 11K2F1D
	2	6.1 m control station		154.8450	FX1		50	50	20K0F3E
	3	35 km around location 1		154.8450 154.9500 156.0900 453.6375 458.6375 154.0325	MO MO MO MO3 MO MO		100 100 100 2 2 100	100 100 100 2 2 100	20K0F3E 11K0F3E
KNBW375	1	31-45-36.5	102-35-31.5	453.4750	FB2	122	100	100	20K0F3E
	2	6.1 m control stations		458.4750	FX1		40	63	20K0F3E
	3	35 km around location 1		458.4750	MO		35		20K0F3E
KNGZ413	1	6.1 m control station		155.8800	FX1		20	29	20K0F3E
	2	31-48-52.5	102-29-11.5	155.0550	FB2	82	100	210	20K0F3E
	3	ECTOR, TX		155.8800	MO		110		20K0F3E
WGJ395	1	31-53-2.4	102-23-13.5	464.4750	FB	30	35		20K0F3E
	2	10 MIRA ODESSA TX		464.4750	MO		10		20K0F3E
WNB876	1	31-35-7.5	102-22-3.5	154.4000	FB	15	75	335	20K0F3E
	2	31-50-54.4	102-28-6.5	154.4000	FB	21	75	421	20K0F3E
	3	31-55-0.4	102-45-23.5	154.4000	FB	15	75	335	20K0F3E
	4	31-58-58.4	102-36-52.5	154.4000	FB	21	75	421	20K0F3E
	5	32-1-22.4	102-23-3.5	154.4000	FB	21	75	421	20K0F3E
	6	31-51-50.4	102-34-42.5	154.1450 154.4000	FB2 FB	152	100	125	20K0F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
	7	6.1 m control stations		150.7900	FX1		100	100	20K0F3E
	8	40 km around location 1		154.4000	MO		75	143	20K0F3E
	9	40 km around location 2		150.7900 154.1450	MO		100	100	20K0F3E
WNJE398	1	31-50-53.5	102-22-4.5	155.3700	FB	15	100	210	20K0F3E
WPLX326	1	31-49-19.5	102-21-42.5	453.8250	FB2	8	25	25	20K0F3E
	2	6.1 m control stations		458.8250	FX1		10		20K0F3E
	3	16 km around location 1		453.8250	MO		4		20K0F3E
WPMK773	1	8 km around 31-55-25.4 N 102-23-17.5 W		453.5750	MO		4		20K0F3E
WQCY659	1	31-49-52	102-20-53	155.2650	FB2	158.5	100	150	11K2F3E
	2	31-50-44.8	102-22-27.9	153.8525	FX1	10.6	25	30	11K2F3E
	3	31-50-48.8	102-22-11.5	153.8525	FX1	22.8	25	30	11K2F3E
	4	4 km around location1		155.2650 153.8525 153.8525 155.2650	MO		10 10 45 45	10 10 45 45	11K2F3E
KKW248	1	6.1 m control station		153.8000	FX1		45		20K0F3E
	2	31-53-23.4	102-19-46.5	155.8200	FB2	36	85	165	20K0F3E

The active FCC licenses belonging to Ector County can be found in **Appendix E**.

8.1.6.1 KVJ783

This is the VHF license for the Sheriff's Office. It includes the Sheriff's Office repeater and county car-to-car and adjacent county frequencies. This license has been modified for narrowband operation.

8.1.6.2 KNBW375

This license covers the operation of a UHF repeater that is used by the Ector County road and bridge department. This license has not been modified for narrowband operation.

8.1.6.3 KNGZ413

This license covers VHF operations for the Ector County public works department. The license covers a single repeater channel pair with 6.1 m control stations. This license has not been modified for narrowband operation.

8.1.6.4 WGJ395

This license covers UHF operations at the Ector County Coliseum. The license covers a single UHF simplex channel. This license has not been modified for narrowband operation.

8.1.6.5 WNB876

This is the license for county fire and EMS services. It includes the fire repeater located in the center of the county, fire tactical channels and the fire paging channel. This license has not been modified for narrowband operation.

8.1.6.6 WNJE398

This is the license for county operation on TXLAW2. The license covers simplex operation on the channel. This license has not been modified for narrowband operation.

8.1.6.7 WPLX326

This license covers operation on a UHF repeater pair with associated 6.1 m control stations. The specific use of the channel is unknown. This license has not been modified for narrowband operation.

8.1.6.8 WPMK773

This license covers operation on a UHF mobile only frequency. The specific use of the channel is unknown. This license has not been modified for narrowband operation.

8.1.6.9 WQCY659

This license covers operation on a VHF repeater pair used for internal operations at the Medical Center Hospital. The license has been updated for narrowband operation.

8.1.6.10 KKW248

The UTPB PD operates on this license. This license has not been modified for narrowband use.

8.1.7 System Coverage

In general, coverage for the public safety services is good. Performance can be improved in the north.

Table 42 – Ector County Predicted Coverage

Radio System Coverage	
Mobile Coverage	80%
Portable Coverage	50%
In-building Coverage	50%

The coverage map below depicts the predicted “talk out” portable coverage for Ector County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

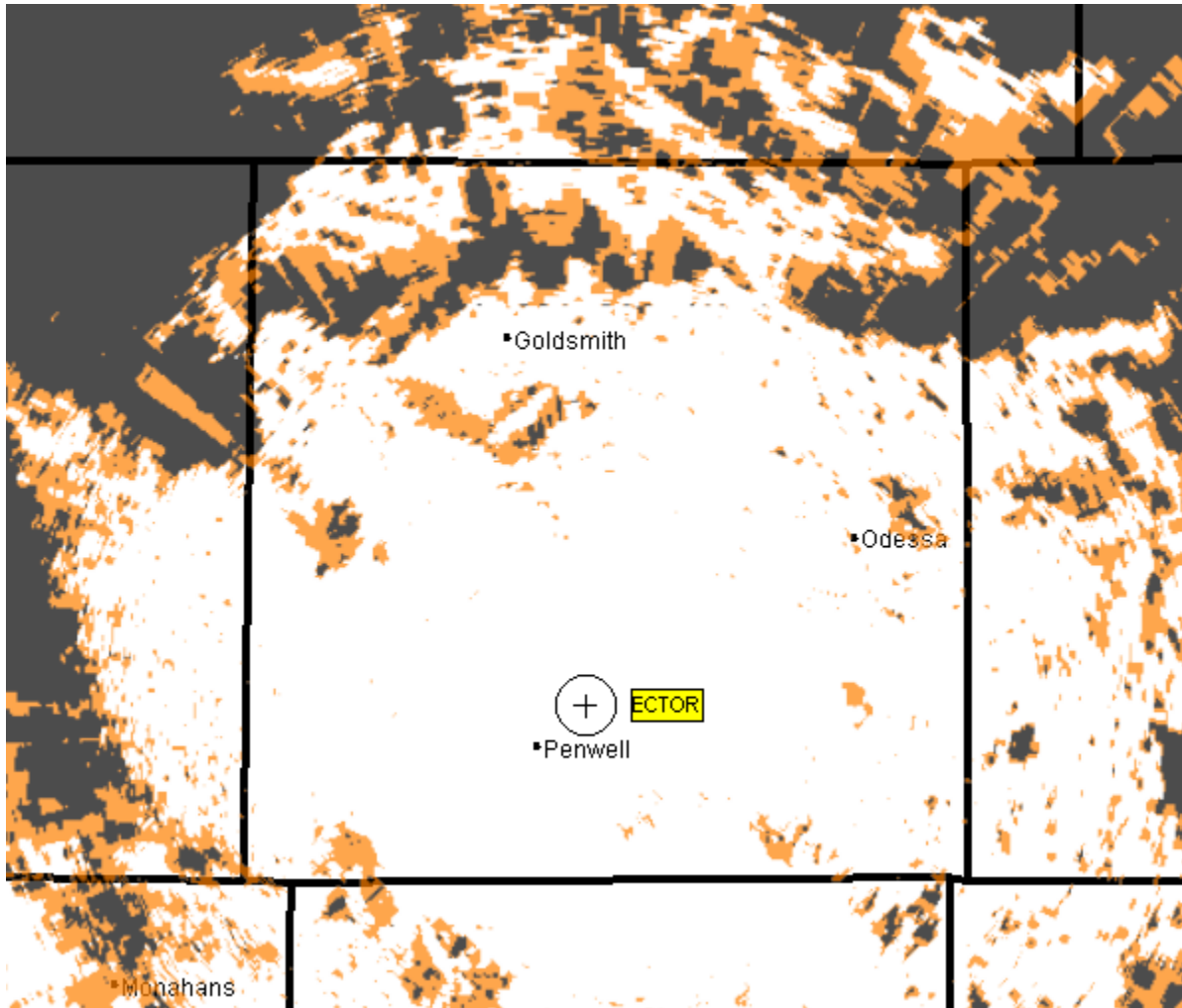


Figure 12 – Predicted Radio Coverage for Ector County P25

Radio coverage for the Sheriff's Office is relatively good, with the exception of the northern portion of the county. The primary transmitter site is more than 20 miles from this area and signals are relatively weak. Good coverage exists in the city of Odessa.

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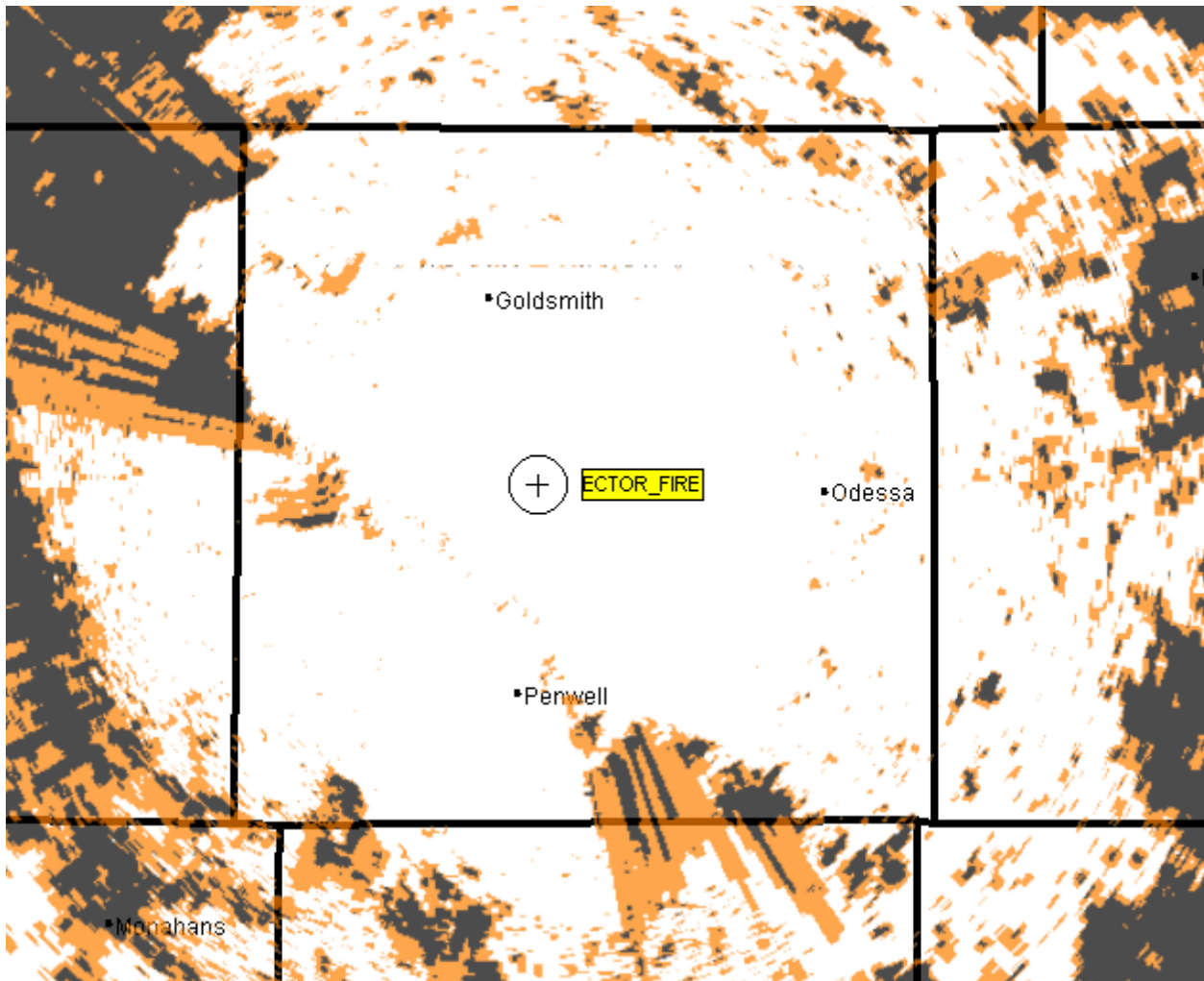


Figure 13 – Predicted Radio Coverage for Ector County FD P25

Fire and EMS coverage in the county is good due to the central location of the transmitter site. Good coverage also exists in the city of Odessa.

8.1.8 Future Plans

The County has to complete its narrowbanding program. They would also like to replace all fire radios with P25 units. Coverage improvements and direct communications capabilities with Odessa are also desired.

8.1.9 Past Expenditures

Table 43 lists radio expenditures by Ector County since 2007.

Table 43 – Ector County Past Expenditures

Year	Project Description	Total Cost	Funding Source
2008	Replacement radios	\$12,000	County funds
2009	Replacement radios	\$10,000	County funds
2010	Replacement radios	\$10,000	County funds
Total		\$32,000	

8.1.10 Future Funding

Ector County did not identify future funding opportunities.

8.1.11 Assessment

Ector County has a VHF radio network that generally meets the present needs of its rural areas. One identified issue is coverage in the areas outside Odessa.

Interoperability is generally sound within the county and with neighboring counties.

Coverage – Coverage problems experienced within the northern portion of the county are a concern on the law enforcement system.

Conventional Architecture – Implementation of the PBRICS site at Notrees and the site in eastern Andrews County should improve radio coverage in Ector County. These sites are still in the planning stages and are not scheduled to be implemented until mid-2012 or later.

Subscribers – Subscriber radios utilized within Ector County include a variety of Motorola models, which can be narrowbanded. All radios listed are capable of P25 operation.

Narrowbanding - All radios will require reprogramming to meet the narrowbanding criteria. Primary licenses have been updated for narrowbanding; however, a number of VHF and UHF stations used for public works, road and bridge, hospital security, and other operations require updates to the FCC licenses with narrowband emissions.

Interoperability – Interoperability between Ector County and the city of Odessa is achieved through the use of console patching capabilities. The primary dispatch channel for the Odessa PD is available on the Ector County consoles, which permit patching between the Odessa PD channel and the Ector County operational channels. This level of connectivity requires overlapping coverage between the VHF and 800 MHz systems. Outside of the primary 800 MHz footprint there is no cross-band connectivity to support an interoperable event.

8.2 Odessa Radio System

8.2.1 System Description

Odessa operates an 800 MHz trunked radio system using Motorola P25 trunking technology. The system includes a total of eight channels transmitted from a single location. The present P25 system was installed in 2008 using an

ARC4000 Motorola Master Site. The City maintains an EOC with backup dispatch functionality and a mobile command post with gateway capabilities. Odessa also hosts the PBRICS master switch.

8.2.2 User Agencies

Table 44 outlines the user groups that utilize the Odessa radio system.

Table 44 – Odessa User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Odessa PD	Law	Timothy Burton	432-335-3310	
Odessa FD	Fire	Stan Tinney	432-247-0509	stinney@odessa-tx.us
Odessa EMS	EMS	John Alvarez	432-247-0509	
UTPB	Law	Tom Hain	432-	
Odessa College	Law			

8.2.3 Dispatch Facilities

Table 45 summarizes the channels as they appear on the dispatch console.

Table 45 – Odessa Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Patrol 1	Police Dispatch
Patrol 2	Police Secondary
Dispatch	Fire Dispatch
Tact 1	Fire Tactical
Tact 2	Fire and EMS Tactical
Tact 3	Fire and EMS tactical
EMS 1	EMS Dispatch
EMS 2	EMS

Odessa has five Motorola Gold Elite consoles for its trunked radio system. Table 46 lists the talkgroups in use for public safety.

Table 46 – Odessa Dispatch Console Channels

Channel Name	Description	Use
OFD	Dispatch	Fire Dispatch
OFD	Tactical 1	Fire-Tac

Channel Name	Description	Use
OFD	Tactical 2	Fire-Tac
OFD	Talk	Fire-Talk
OPD Patrol 1	Patrol 1	Law Dispatch
OPD Patrol 2	Patrol 2	Law Dispatch
OPD Talk	Patrol Talk	Law Talk
OPD Warrants	Warrants	Law Tac
OPD Events	Patrol Events	Law Tac
METRO-1	Metro-1 patched with Midland TRS	Interop
OPD-OFD	Fire/Police	Multi-Tac
METRO-2	Metro-2 patched with Midland TRS	Interop
UTPB PD Disp	UTPB 1 - Police Dispatch	Law Dispatch

8.2.4 Radio Sites

Tables 47 and 48 detail information provided by Petro Communications regarding Odessa radio sites.

Table 47 – Odessa Radio Site

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Pool Road Tower	Dixie Blvd & Pool Road	City of Odessa	30	N

Table 48 – Odessa Radio Shelter

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Pool Road Tower	8x10	Concrete	33		Y	N

8.2.5 Radio Inventory

Tables 49 and 50 reflect fixed infrastructure and subscriber inventories for the Odessa radio system.

Table 49 – Odessa Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Odessa *	Repeater	Motorola	Quantar	852.0125
	Repeater	Motorola	Quantar	852.5125
	Repeater	Motorola	Quantar	853.0125

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
	Repeater	Motorola	Quantar	854.9625
	Repeater	Motorola	Quantar	855.4875
	Repeater	Motorola	Quantar	855.9625
	Repeater	Motorola	Quantar	855.9875
	Repeater	Motorola	Quantar	856.4875
	Repeater	Motorola	Quantar	856.9375
	Repeater	Motorola	Quantar	856.9875
	Repeater	Motorola	Quantar	857.2125
	Repeater	Motorola	Quantar	857.4875
	Repeater	Motorola	Quantar	857.9875
	Repeater	Motorola	Quantar	858.4875
	Repeater	Motorola	Quantar	858.9875
	Repeater	Motorola	Quantar	859.4875
	Repeater	Motorola	Quantar	859.9875
	Zone Controller	Motorola	PCS9600	N/A
P25 Switch	Motorola	ARC4000	N/A	

Table 50 – Odessa Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Odessa	Motorola	XTL2500	Mobile	140
	Motorola	XTS2500	Portable	300
	Motorola	XTL5000	Control Station	20
Total Mobiles				140
Total Portables				300
Total Control Stations				20
Total				460

8.2.6 FCC Licenses

Table 51 – Odessa FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
WPJL555	1	31-49-51.5	102-20-52.5	855.4875 855.9875 856.4875	FB2	158	100	307	20K0F1D 20K0F1E 20K0F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
				856.9875 857.4875 857.9875 858.9875 859.9875					
	2	31-51-42.5	102-19-44.5	855.9875 856.9875 857.9875 858.9875 859.9875	FB2S	122	100	393	20K0F1D 20K0F1E 20K0F3E
	3	6.1 m control stations		810.4875 810.9875 811.4875 811.9875 812.4875 812.9875 813.9875 814.9875	FX1		15	15	20K0F1D 20K0F1E 20K0F3E
	4	64 km around location 1		810.4875 810.9875 811.4875 811.9875 812.4875 812.9875 813.9875 814.9875	MO		15	10	20K0F1D 20K0F1E 20K0F3E
WQLP938	1	31-49-52	102-20-53	855.9625 858.4875 859.4875 854.9625 856.9375 857.2125	FB2	156.2	100	307	20K0F1D 20K0F1E 20K0F3E
	2	6.1 m control stations		810.9625 813.4875 814.4875 809.9625 811.9375 812.2125	FX1		15	15	20K0F1D 20K0F1E 20K0F3E
	3	50 km around location 1		810.9625 813.4875 814.4875 809.9625 811.9375 812.2125 855.9625	MO		15	10	20K0F1D 20K0F1E 20K0F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
				858.4875 859.4875 854.9625 856.9375 857.2125					
KA34392	1	VIC: ODESSA TX		458.0250 458.0750 458.1250 458.1750 463.0000 463.0250 463.0500 463.0750 463.1000 463.1250 463.1500 463.1750 467.9500 467.9750 468.0000 468.0250 468.0500 468.0750 468.1000 468.1250 468.1500 468.1750	MO		30	60	20K0F3E
KA62411	1	VIC: ECTOR COUNTY TX		458.1000	MO		45		20K0F3E
KGU590	1	30 MIRA ODESSATX		155.3400	MO		90	90	11K0F3E 20K0F3E
	2	31-49-51.5	102-20-52.5	155.3400	FB	146	90	90	11K0F3E 20K0F3E
KJI420	1	6.1 m control stations		155.9550	FX1		25	25	11K0F3E 20K0F3E
	2	31-51-0.5	102-22-31.5	153.7550	FB2	30	50	240	11K0F3E 20K0F3E
	3	16 km around location 2		153.7550 155.9550	MO		25	25	11K0F3E 20K0F3E
KKA490	1	VIC: ECTOR COUNTY TX		155.0100	MO		120	120	11K0F3E 20K0F3E
	2	31-49-51.5	102-20-52.5	155.0100	FB	82	120	120	11K0F3E 20K0F3E
KKG474	1	30 MIRA ODESSA TX		465.6000 465.6250	MO		100		20K0F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
	2	31-49-51.5	102-20-52.5	460.6000	FB2	146	100		20K0F3E
	3	6.1 m control stations		465.6000 465.6250	FX1		40		20K0F3E
	4	31-57-0.4	102-24-3.5	460.6250	FB2	52	100		20K0F3E
KN3521	1	VIC: ECTOR COUNTY TX		460.0500 460.1000 460.1500 460.2000 465.0500 465.1000 465.1500 465.2000	MO		100		20K0F3E
KNNJ348	1	31-49-51.5	102-20-50.5	0.5300	FB	15	10	10	6K00A3E
KNNN539	1	19 km around 31-53-59.4 N 102-21-52.5 W		453.3875	MO		2		20K0F1D
KRL427	1	31-49-51.5	102-20-52.5	460.1000	FB2	134	100		20K0F3E
WQDY563	1	ECTOR, TX		453.4125 453.5375	MO		5	5	11K0F3E 9K30F1D
KVV738	1	6.1 m control stations		467.9500 467.9750	FX1		40		20K0F3E
	2	30 MIRA ODESSA TX		467.9500 467.9750	MO		100		20K0F3E
	3	31-49-51.5	102-20-52.5	462.9500	FB2	158	100		20K0F3E
	4	31-53-30.4	102-22-31.5	462.9750	FB2	52	100		20K0F3E
KXM806	1	31-49-51.5	102-20-52.5	453.1000 453.1000	FB2 FB	146	100	100	11K0F3E 20K0F3E
WGT447	1	31-50-53.5	102-22-11.5	465.0500 465.1000 465.1500 465.2000	FX1	10	40		20K0F3E
WGT448	1	31-50-56.5	102-22-31.5	465.0500 465.1000 465.1500 465.2000	FX1	25	40		20K0F3E
WPIS437	1	15 km around 31-49-15.5 N 102-16-11.5 W		453.6875 458.6875	MO		2		13K0F3E
WQDY493	1	ECTOR, TX		2460.0000	MO		5	5.433	17M6F8W
WQHB979	1	5 km around 31-55-25 N 102-21-41.8 W		453.9875 458.9875	MO		2	2	11K2F1D 11K2F3E
WQIH290	1	ECTOR, TX		2459.0000 2475.0000	MO		5	48.417	17M0F8W
WQL938	1	31-50-56.5	102-22-31.5	460.2000	FB2	30	100		20K0F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
WYG234	1	31-49-51.5	102-20-52.5	463.0000 463.0250 463.0500 463.0750	FB	159	75	150	20K0F3E

The active FCC licenses belonging to Odessa can be found in **Appendix E**.

8.2.6.1 WPJL555

This license is for the city of Odessa trunked radio system. The license covers a total of eight 800 MHz repeater channels at the primary transmitter location and five 800 MHz repeater channels at a secondary location. The repeater channels at the secondary license are not constructed.

8.2.6.2 WQLP938

This license is for the city of Odessa trunked radio system. The license covers a total of six 800 MHz repeater channels at the primary transmitter location.

8.2.6.3 KA34392

This license covers mobile operation of the UHF medical channels. The license does not reflect narrowband operation.

8.2.6.4 KA62411

This license covers mobile operation on a single UHF channel. The use of the channel is unknown. The license does not reflect narrowband operation.

8.2.6.5 KGU590

This license covers base and mobile operation on TXMED1. The license reflects narrowband operation.

8.2.6.6 KJI420

This license covers operation of a VHF repeater pair with associated 6.1 m control stations. The use of the channel is unknown. The license reflects narrowband operation.

8.2.6.7 KKA490

This license covers operation on a single VHF simplex base station. The use of the channel is unknown. The license reflects narrowband operation.

8.2.6.8 KKG474

This license covers operation on two UHF repeater pairs with associated 6.1 m control stations. The use of the channels is unknown. The license does not reflect narrowband operation.

8.2.6.9 KN3521

This license covers operation on eight mobile-only UHF channels. The use of the channels is unknown. The license does not reflect narrowband operation.

8.2.6.10 KNNJ348

This license covers operation on the 530 kHz AM alerting station.

8.2.6.11 KNNN539

This license covers mobile operation on a single UHF frequency. The channel is licensed for low power operations with a maximum output power of 2 watts. The use of the channel is unknown. The license does not reflect narrowband operation.

8.2.6.12 KRL427

This license covers repeater operations on a single transmit frequency. Mobile operation is not covered. The use of the channel is unknown. The license does not reflect narrowband operation.

8.2.6.13 WQDY563

This license covers mobile only operation on two UHF frequencies. The use of the channels is unknown. The license reflects narrowband operation.

8.2.6.14 KVV738

This license covers the operation of two UHF repeater pairs with associated 6.1 m control stations. The use of the channels is unknown. The license does not reflect narrowband operation.

8.2.6.15 KXM806

This license covers repeater and simplex operation on a single UHF frequency. Mobile operation is not covered. The use of the channels is unknown. The license reflects narrowband operation.

8.2.6.16 WGT447

This license covers operation of 6.1 m control stations for four UHF frequencies. Base and mobile operations for the channels is not covered. The use of the channels is unknown. The license does not reflect narrowband operation.

8.2.6.17 WGT448

This license covers operation of 6.1 m control stations for four UHF frequencies. Base and mobile operations for the channels is not covered. The use of the channels is unknown. The license does not reflect narrowband operation.

8.2.6.18 WPIS437

This license covers mobile only operations on two UHF frequencies. The use of the frequencies is unknown. The license does not reflect narrowband operation.

8.2.6.19 WQDY493

This license covers mobile operations in the 2.46 GHz band.

8.2.6.20 WQHB979

This license covers mobile only operations on two UHF frequencies. The use of the frequencies is unknown. The license reflects narrowband operation.

8.2.6.21 WQIH290

This license covers mobile operation on two frequencies in the 2.4 GHz frequency band.

8.2.6.22 WYG234

This license covers base station operation on four UHF frequencies. The use of the channels is unknown. The license does not reflect narrowband operation.

8.2.7 System Coverage

Table 52 – Odessa Predicted Coverage

Radio System Coverage	
Mobile Coverage	95%
Portable Coverage	90%
In-building Coverage	95%

The coverage map below depicts the predicted “talk out” portable coverage for Odessa. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

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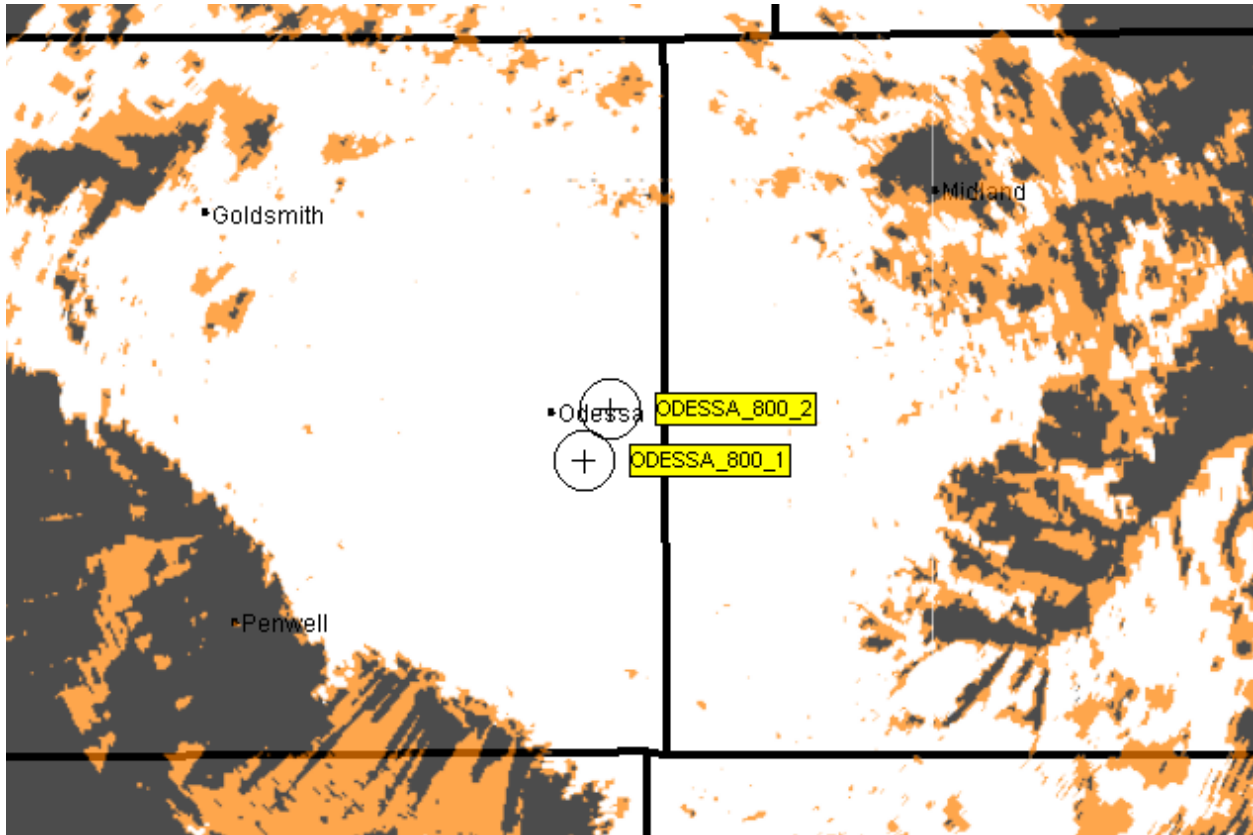


Figure 14 – Predicted Radio Coverage for Odessa 800 MHz P25 Phase I

The 800 MHz system used in Odessa provides very good coverage within the Odessa area. The coverage reflects both licensed locations; however, only the first location is transmitting. Coverage extends throughout much of Ector County, but is limited toward the southeast third of the county.

8.2.8 Future Plans

Future plans for the city of Odessa include adding an additional zone into the radio programming template, adding mobile data to the system, and adding public works to the system.

8.2.9 Past Expenditures

Table 53 lists radio expenditures by Odessa since 2007.

Table 53 – Odessa Past Expenditures

Year	Project Description	Total Cost	Funding Source
2008	Command Post Trailer	\$300,000	grant
2010	Tower top preamp replacement	\$20,000	City funds
Total		\$320,000	

8.2.10 Future Funding

Odessa did not identify future funding opportunities.

8.2.11 Assessment

Odessa's trunked radio system provides acceptable coverage within its boundaries; however, City officials would like to improve it by adding capacity for dispatch improvements.

Coverage – Coverage was reported as adequate by the city of Odessa for mobile, outdoor portable, and indoor portable operation.

Subscribers – All subscriber equipment is present model 800 MHz trunking radios. However, the XTS and XTL series radios will reach end-of-life in the 2017 – 2018 time frame and will likely require replacement at that point. XTS and XTL series radios lack the latest AMBE+2 vocoder, which provides greatly improved audio quality in noisy environments.

Capacity – A need was stated to add additional channels into the system. Additional channels are licensed beyond the eight currently used within the trunking system.

Consoles – The present Motorola Gold Elite is presumed to be utilized in conjunction with Motorola Gold Elite Gateways. These consoles will likely reach end-of-life in the 2017 – 2018 time frame and will likely require replacement at that point. A need was indicated to add additional channels to the dispatch console. Assuming that an IP connection is provided between the Master Site and the consoles, this should be a simple modification.

Master Site – The present ARC4000 Master Site is limited in its ability to support multi-zone, simulcast, ISSI, or data capabilities. If Odessa wishes to implement these features, the Master Site will require replacement or integration of the Odessa system on another switch will be necessary.

Backup – The present transmitter location has no backup location that will support 800 MHz communication in the event that the primary site is lost. A second site is licensed; however, no equipment resides at the second location.

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9. GAINES COUNTY FINDINGS

Gaines County, with an estimated population of 15,382, is approximately 1,502 square miles and is in the northwest corner of the PBRPC region abutting the state of New Mexico. The county has two population centers: the cities of Seminole and Seagraves, which are in the center and northeastern portions of the county, respectively. Information for Gaines County was provided by Petro Communications.

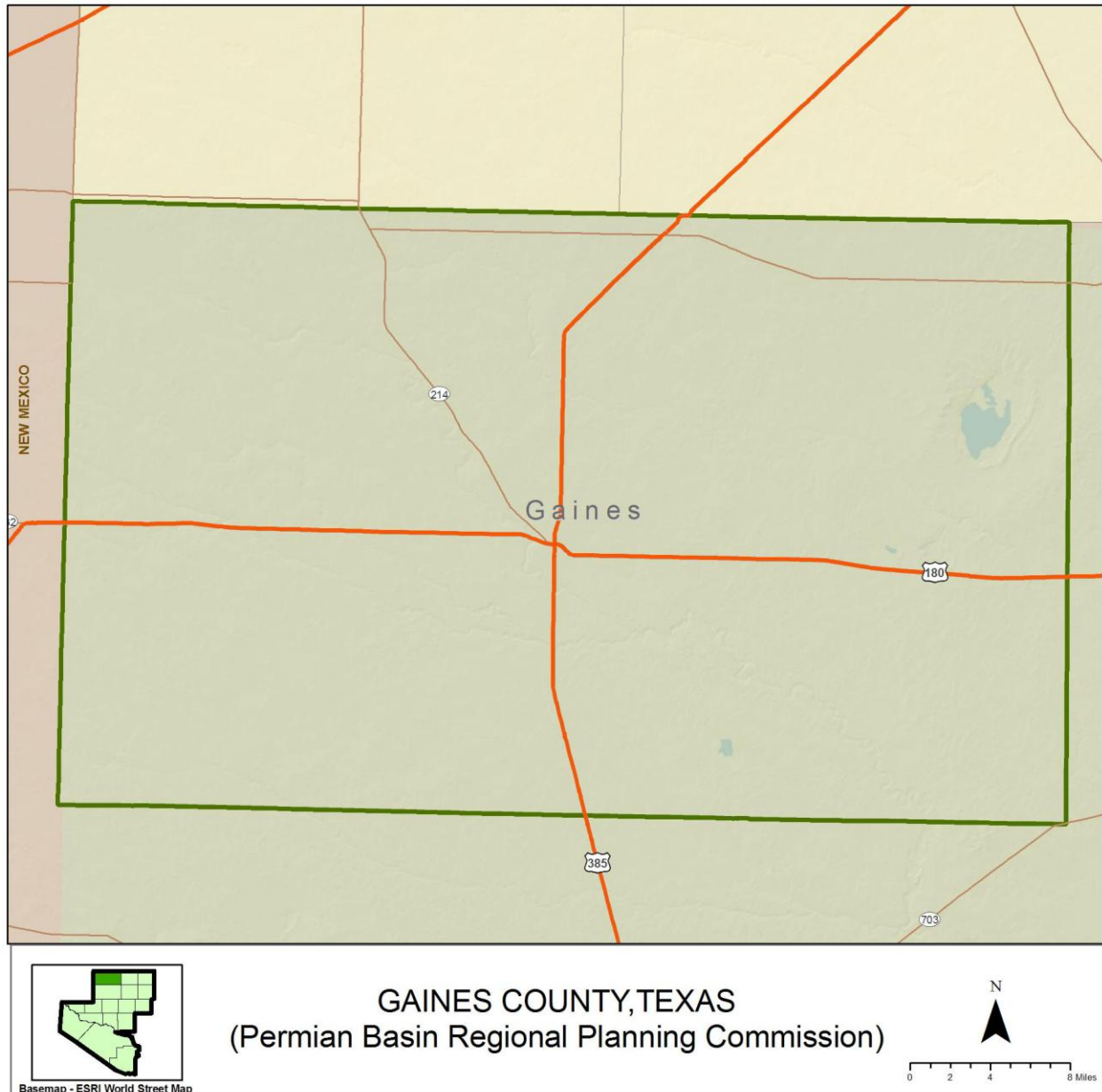


Figure 15 – Gaines County

9.1 Gaines County Radio System

9.1.1 System Description

Gaines County has VHF radio systems in Seagraves and Seminole that are operated by the Sheriff's Office, the County (for fire) and the Northeast Emergency Services District. A total of four repeaters are utilized for Sheriff's Office, fire, EMS, and Seagraves PD operations respectively. Repeaters operate in the VHF conventional analog mode. The present equipment was installed in 2000. Separate transmitter locations are utilized for each of the repeater stations.

9.1.2 User Agencies

Table 54 outlines the user groups that utilize the Gaines County radio system.

Table 54 – Gaines County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Gaines County	Law	Jon Key	432-758-4032	
Seminole PD	Law	Mickey Brown	432-758-9871	
Seminole Fire	Fire	Brian Reed	432-758-9871	
Seminole EMS	EMS	Bryan Taylor	432-758-8815	
Seagraves Fire/EMS	Fire/EMS	Chad Orum	806-535-9144	
Seagraves PD	Law	Ruben Lemon	806-387-2551	

Gaines County public safety agencies are operated by the Sheriff's Office, Seagraves PD, and fire departments in Seminole and Seagraves. Dispatch is primarily handled by the Sheriff's Office.

9.1.3 Dispatch Facilities

Gaines County utilizes a Motorola MIP5000 console for dispatch.

Table 55 summarizes the channels as they appear on the dispatch console.

Table 55 – Gaines County Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
SO Primary	Sheriff primary and PD primary
Seminole FD	Fire dispatch
Seminole EMS	EMS primary
Seagraves FD/EMS	Seagraves primary
Tex Law 1	Interoperability
Tex Law 2	Interoperability

9.1.4 Radio Sites

Tables 56 and 57 detail information provided by Petro Communications regarding Gaines County radio sites.

Table 56 – Gaines County Radio Sites

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Gaines County	35 SW 3 Street	County	35	N
Seagraves FD/EMS	1 KM N on Hwy 385	US Cable	30	N
Gaines Fire	1.2 m E of Courthouse	County	9	N
Seagraves PD	1406 Avenue E	Gaines ESD	8	N

Table 57 – Gaines County Radio Shelters

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Gaines County	8 X 8	Metal	1975		Y	N
Seagraves FD/EMS	10 X 12	Metal	1980		Y	N
Gaines Fire	8 X 8	Metal	2002		N	N
Seagraves PD	PD building	office	2002		Y	Y

9.1.5 Radio Inventory

Tables 58 and 59 reflect fixed infrastructure and subscriber inventories for the Gaines County radio system.

Table 58 – Gaines County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Sheriff's Office	Repeater	Motorola	MTR2000	TX: 155.6250
Seagraves	Repeater	Motorola	T5365A	TX: 154.3700
Gaines Fire	Repeater	Motorola	MTR2000	TX: 155.0850
Seagraves PD	Repeater	Motorola	T5365A	TX: 155.7075

Table 59 – Gaines County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Sheriff's Office	Kenwood	TK790	Mobile	15
	Kenwood	272	Portable	16

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Seminole FD	Kenwood	TK790	Mobile	15
	Kenwood	272	Portable	35
Seminole PD	Motorola	XTL2500	Mobile	12
	Motorola	XTS2500	Portable	15
Seagraves PD	Kenwood	TK790	Mobile	4
	Kenwood	272	Portable	6
Seagraves EMS	Kenwood	TK790	Mobile	4
Gaines County	Motorola	XTL5000	Control Station	4
Total Mobiles				50
Total Portables				72
Total Control Stations				4
Total				126

9.1.6 FCC Licenses

Table 60 – Gaines County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
WXR274	1	6.1 m control stations		154.0850	FX1		40	40	11K0F1E 11K0F3E 20K0F3E 8K10F1E
	2	32-42-30.4	102-37-46.7	155.0850	FB2	85	45	52	11K0F1E 11K0F3E 20K0F3E 8K10F1E
	3	64 km around location 2		154.0850 155.0850	MO		40	40	11K0F1E 11K0F3E 20K0F3E 8K10F1E
WPTN910	1	32-42-57	102-38-50	155.6250	FB2	97.5	200	224	20K0F3E
	2	GAINES, TX		154.6500 154.6500	MO		5 110	5 110	20K0F3E
WQGY673	1	32-57-1	102-33-3	154.3700	FB2	93	75	200	11K2F3E 20K0F3E
	2	40 km around location 1		153.7700 154.3700	MO		50	50	11K2F3E 20K0F3E
WPYN386	1	32-56-49	102-33-47	155.7075 154.6500	FB2 FX1	43 15	100 45	250 100	11K0F3E 20K0F3E
	2	6.1 m control stations		153.7475	FX1		25	20	11K0F3E
	3	GAINES, TX		153.7475	MO		100	100	11K0F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
				155.7075					
WPTH244	1	32-56-49	102-33-47	154.9650	FB2	43	50	100	20K0F3E
	2	30 km around location 1		158.8350	MO		100	100	20K0F3E
WNYG639	1	32-43-32.4	102-39-1.7	155.8050	FB2	24	45	112	11K0F3E 20K0F3E
	2	20 km around location 2		153.9350 155.8050	MO		100	100	11K0F3E 20K0F3E

The active FCC licenses belonging to Gaines County can be found in **Appendix F**.

9.1.6.1 WXR274

This license is used by the Gaines County Fire Department. It has been modified for narrowband operation.

9.1.6.2 WPTN910

This license is used by the Gaines County Sheriff's Office. The license has not been modified for narrowband operation.

9.1.6.3 WQGY673

This license is used by the Northeast Emergency Services District. It has a repeater and links to the Sheriff's Office. This license has not been modified for narrowband operation. The transmitter location is in the town of Seagraves on the northeast border of the county.

9.1.6.4 WPYN386

This license covers operations on a VHF repeater with associated 6.1 m control stations for use by the Northeast Gaines County Emergency Services District. The license reflects narrowband operation with the exception of a single control station frequency.

9.1.6.5 WPTH244

This license covers operations on a VHF repeater for use by the Northeast Gaines County Emergency Services District. The license does not reflect narrowband operation.

9.1.6.6 WNYG639

This license covers the operation of a VHF repeater pair for use by the city of Seminole public works department. The license reflects narrowband operation.

9.1.7 System Coverage

Users report that coverage is acceptable, but can be improved.

Table 61 – Gaines County Predicted Coverage

Radio System Coverage	
Mobile Coverage	85%
Portable Coverage	60%
In-building Coverage	60%

The coverage map below depicts the predicted “talk out” portable coverage for Gaines County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

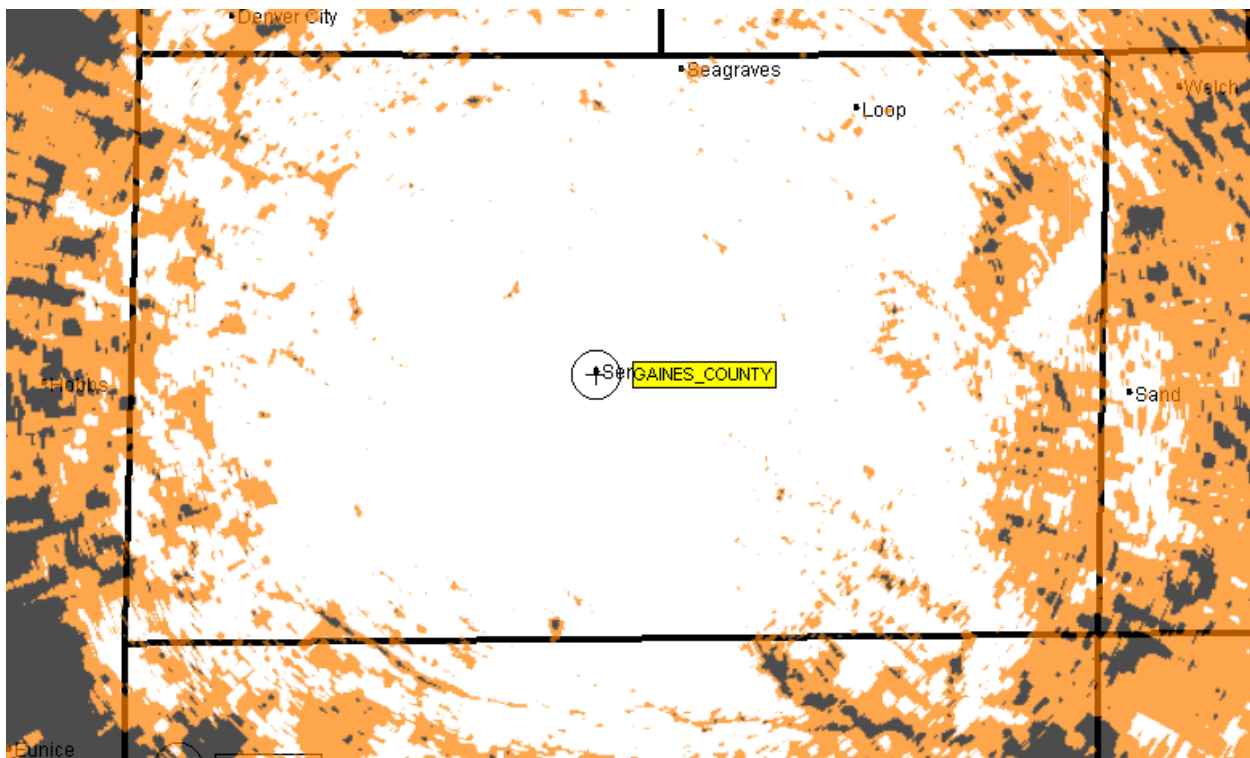


Figure 16 – Predicted Radio Coverage for Gaines County Wideband Analog

Coverage for the Sheriff’s Office channel is predicted to be adequate throughout most of Gaines County. Reported coverage levels at 60 percent are far below predicted levels. This indicates that the analog systems are likely operating below optimal efficiency levels.

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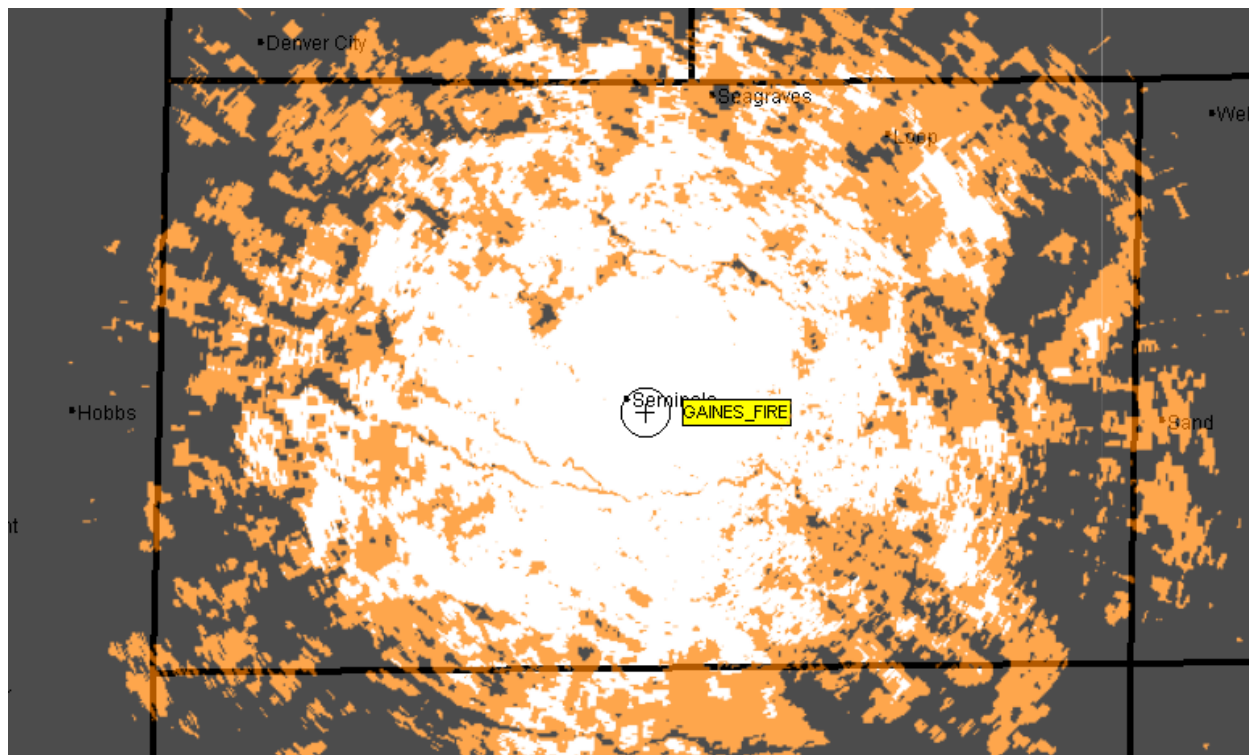


Figure 17 – Predicted Radio Coverage for Gaines County Fire Wideband Analog

The coverage of the Sheriff's Office and Seagraves PD is better than fire coverage. Lower coverage levels are the result of a lower antenna height. Coverage on the fire system can be expected to be greatly limited in the eastern and western portions of the county.

9.1.8 Future Plans

The County would like to upgrade all radios to P25 capabilities and to upgrade its repeaters for better coverage. Narrowbanding of all subscriber units is necessary.

9.1.9 Past Expenditures

Gaines County did not indicate past radio expenditures.

9.1.10 Future Funding

Gaines County did not identify future funding sources.

9.1.11 Assessment

Gaines County has a simple radio network that requires improvements for acceptable countywide coverage. The primary transmitter is located in the center of the county and does not provide acceptable coverage for existing units.

Interoperability is generally sound within the county and with neighboring counties.

Coverage – Coverage problems experienced within the county are a concern. Fire coverage can be improved with a higher transmitter location. Relocation to the law enforcement tower will greatly improve coverage for fire operations.

Conventional Architecture – While implementation of the PBRICS will have little impact on radio coverage in Gaines County, it will improve interoperability with adjacent counties.

Subscribers – Subscriber radios utilized within Gaines County include a variety of Motorola and Kenwood radios, which are narrowband capable. The Motorola radios in the inventory can be upgraded to P25, while the Kenwood radios will require replacement to meet P25 compliance..

Narrowbanding – All radios will require reprogramming to meet narrowbanding criteria. All reported radios are narrowbanding capable.

Interoperability – Interoperability within Gaines County is achieved primarily through the use of shared VHF frequencies. While most interoperability partners operate in the VHF band, connectivity is limited with 800 MHz systems. The population center within the Permian Basin region is located in the cities of Midland and Odessa, which operate 800 MHz trunking systems. If 800 MHz users respond to Gaines County, cross-band connectivity will depend on the localized coverage area provided by a deployable mobile gateway.

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10. GLASSCOCK COUNTY FINDINGS

Glasscock County, with an estimated population of 1,221 encompasses, is approximately 900 square miles and is on the eastern edge of the PBRPC region. Garden City is the only population center in the county. Information for Glasscock County was provided by Petro Communications.

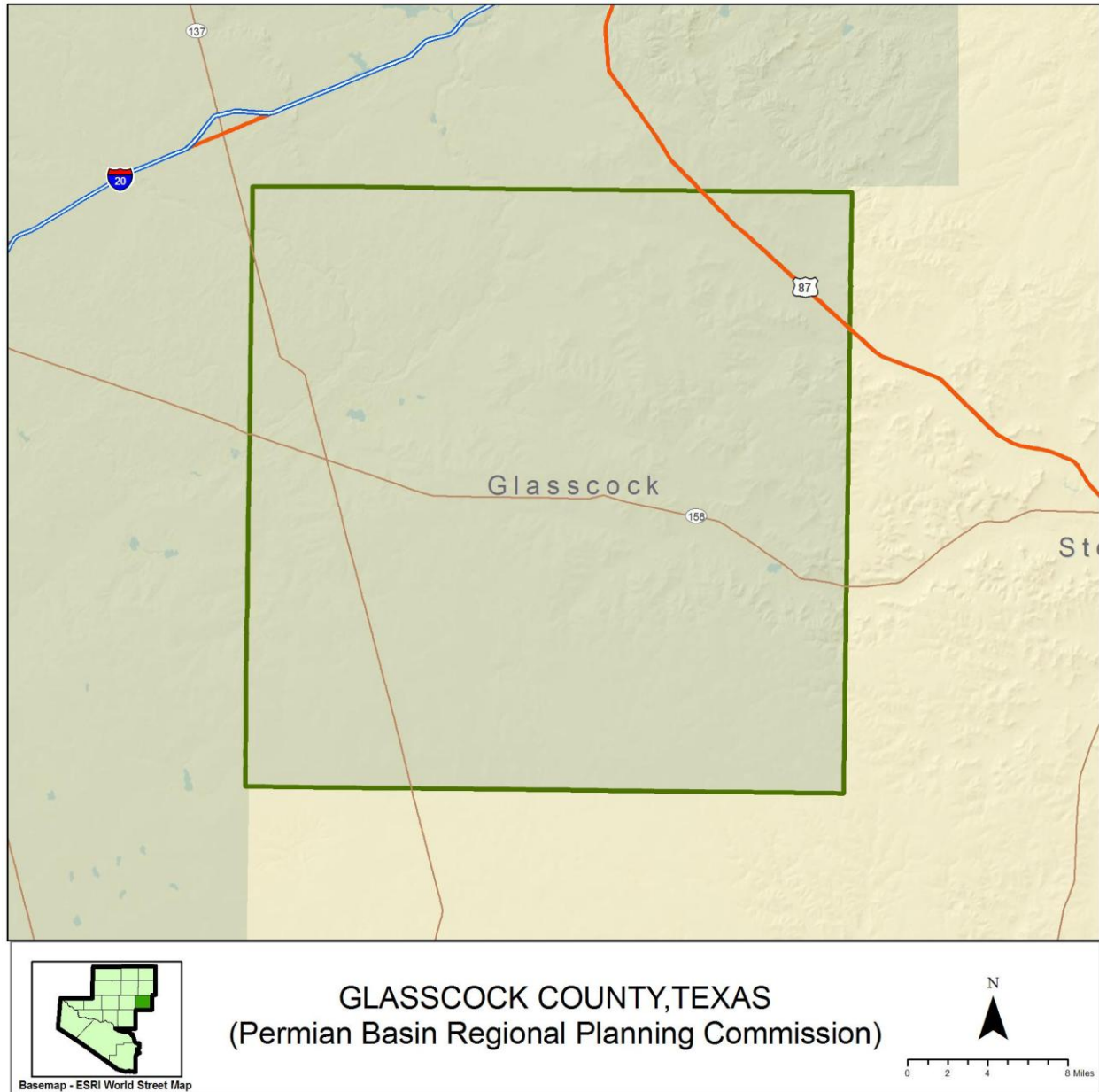


Figure 18 – Glasscock County

10.1 Glasscock County Radio System

10.1.1 System Description

The county has a single VHF conventional analog repeater that is remotely linked to the Sheriff's Office, which uses a remote control for access with leased T1 line connectivity. The single repeater channel is shared by all emergency responders within Glasscock County. The current repeater equipment was installed in 2006. All subscribers have been upgraded to radios that will support P25 operation.

10.1.2 User Agencies

Table 62 outlines the user groups that utilize the Glasscock County radio system.

Table 62 – Glasscock County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Sheriff's Office	Law	Keith Burnett	432-354-2361	gcsheriff@crcom.net
VFD	Fire	Russell Hafman	432-268-3948	
EMS	EMS	Jackie Braden	432-535-2255	

The Sheriff's Office operates the only radio system in the county.

10.1.3 Dispatch Facilities

Dispatch operations take place using a desktop remote; there are no radio consoles. There are three channels in use: Glasscock County, the primary dispatch channel; TXLAW 1 and TXLAW 2, the state interoperability channels.

10.1.4 Radio Sites

Tables 63 and 64 detail information provided by Petro Communications regarding Glasscock County radio sites.

Table 63 – Glasscock County Radio Site

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
County Courthouse	117 E. Currie, Garden City	Glasscock County	35	N

Table 64 – Glasscock County Radio Shelter

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
County Courthouse	Room	Concrete	1900		N	N

10.1.5 Radio Inventory

Tables 65 and 66 reflect fixed infrastructure and subscriber inventories for the Glasscock County radio system.

Table 65 – Glasscock County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
County Courthouse	Repeater	Motorola	Quantar	TX: 155.6550 RX: 154.8600

Table 66 – Glasscock County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Sheriff's Office	Motorola	XTL2500	Mobile	4
	Motorola	XTS5000	Portable	3
VFD	Motorola	XTL2500	Mobile	3
EMS	Motorola	XTL5000	Mobile	2
	Motorola	XTS1500	Portable	4
Total Mobiles				9
Total Portables				7
Total Control Stations				
Total				16

10.1.6 FCC Licenses

Table 67 – Glasscock County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
KVJ915	1	31-51-47.5	101-28- 50.4	155.3700 155.6550	FB FB2	53 59	350	1156 1128	20K0F3E
	2	GLASSCOCK, TX		154.8600 154.9500	MO		110		20K0F3E

The active FCC license belonging to Glasscock County can be found in **Appendix G**.

10.1.6.1 KVJ915

This is a VHF conventional license with all county frequencies. This license has not been modified for narrowband operation.

10.1.7 System Coverage

Coverage, as reported, is acceptable in the center of the county, but is poor in the remote areas.

Table 68 – Glasscock County Predicted Coverage

Radio System Coverage	
Mobile Coverage	60%
Portable Coverage	25%
In-building Coverage	25%

The coverage map below depicts the predicted “talk out” portable coverage for Glasscock County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

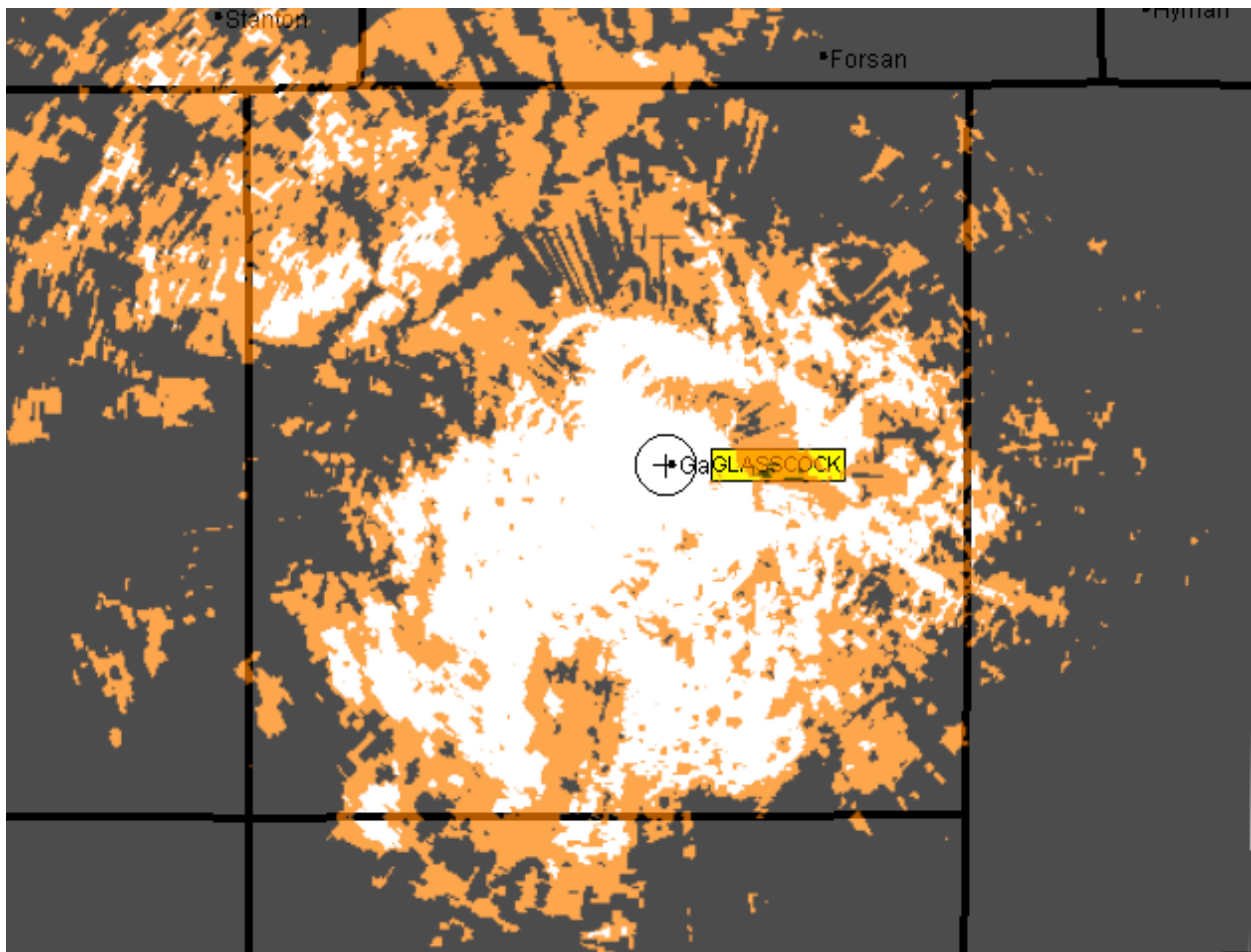


Figure 19 – Predicted Radio Coverage for Glasscock County Wideband Analog

Predicted radio coverage supports user reports that coverage in the county is limited. The terrain has rolling hills and VHF signals are blocked to the north and east. Portable and mobile coverage near the county border can be expected to be greatly limited.

10.1.8 Future Plans

Glasscock County plans to narrowband their subscribers through an upgrade to P25. A new base station radio is planned at the dispatch center for one of the TXLAW interoperability channels. The County would like to improve portable and mobile coverage throughout the county, and would ultimately like to implement a data solution.

10.1.9 Past Expenditures

Table 69 lists radio expenditures by Glasscock County since 2007.

Table 69 – Glasscock County Past Expenditures

Year	Project Description	Total Cost	Funding Source
2010	Radio replacement	\$7,000	County funds
	Total	\$7,000	

10.1.10 Future Funding

Glasscock County did not identify future funding opportunities.

10.1.11 Assessment

Glasscock County has a simple radio network that requires improvements for acceptable countywide coverage. The primary transmitter is located in the center of the county and does not provide acceptable coverage for existing units.

Interoperability is generally sound within the county and with neighboring counties.

Coverage – Coverage problems experienced within the county are a concern. The addition of another radio site will certainly improve capabilities, but the costs will have a significant impact on the ability to implement the site. Because the present tower site is centrally located within Glasscock County and because coverage is limited in all directions, it is likely the addition of multiple tower sites will be necessary to provide adequate coverage. The present antenna height is limited to 59 meters, which further limits coverage throughout the county.

Conventional Architecture – Implementation of the PBRICS site in Howard County should improve radio coverage in northern Glasscock County. This site is still under construction and is not scheduled to be implemented until late 2011. Site-to-site roaming requires channel switching using conventional standalone systems. An upgrade to the PBRICS system will permit site-to-site roaming on the trunking architecture.

Subscribers – Subscriber radios utilized within Glasscock County include a variety of Motorola models, which are narrowband capable and can be upgraded to P25.

Narrowbanding – All radios will require reprogramming to meet the narrowbanding criteria.

Capacity – While capacity is not a problem on the present system, traffic from all emergency response agencies shares a single channel for dispatch and tactical operations. This can lead to confusion if multiple events occur simultaneously or if there is dispatch traffic during an event. A second channel has been stated as a need to separate dispatch and tactical traffic.

Interoperability – Interoperability within Glasscock County is achieved primarily through the use of shared VHF frequencies. While most interoperability partners operate in the VHF band, connectivity is limited with 800 MHz systems. The population center within the Permian Basin region is located in the cities of Midland and Odessa, which operate 800 MHz trunking systems. If 800 MHz users respond to Glasscock County, cross-band connectivity will depend on the localized coverage area provided by a deployable mobile gateway.

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11. HOWARD COUNTY FINDINGS

Howard County, with an estimated population of 32,940, is approximately 900 square miles. The city of Big Spring is the only population center.

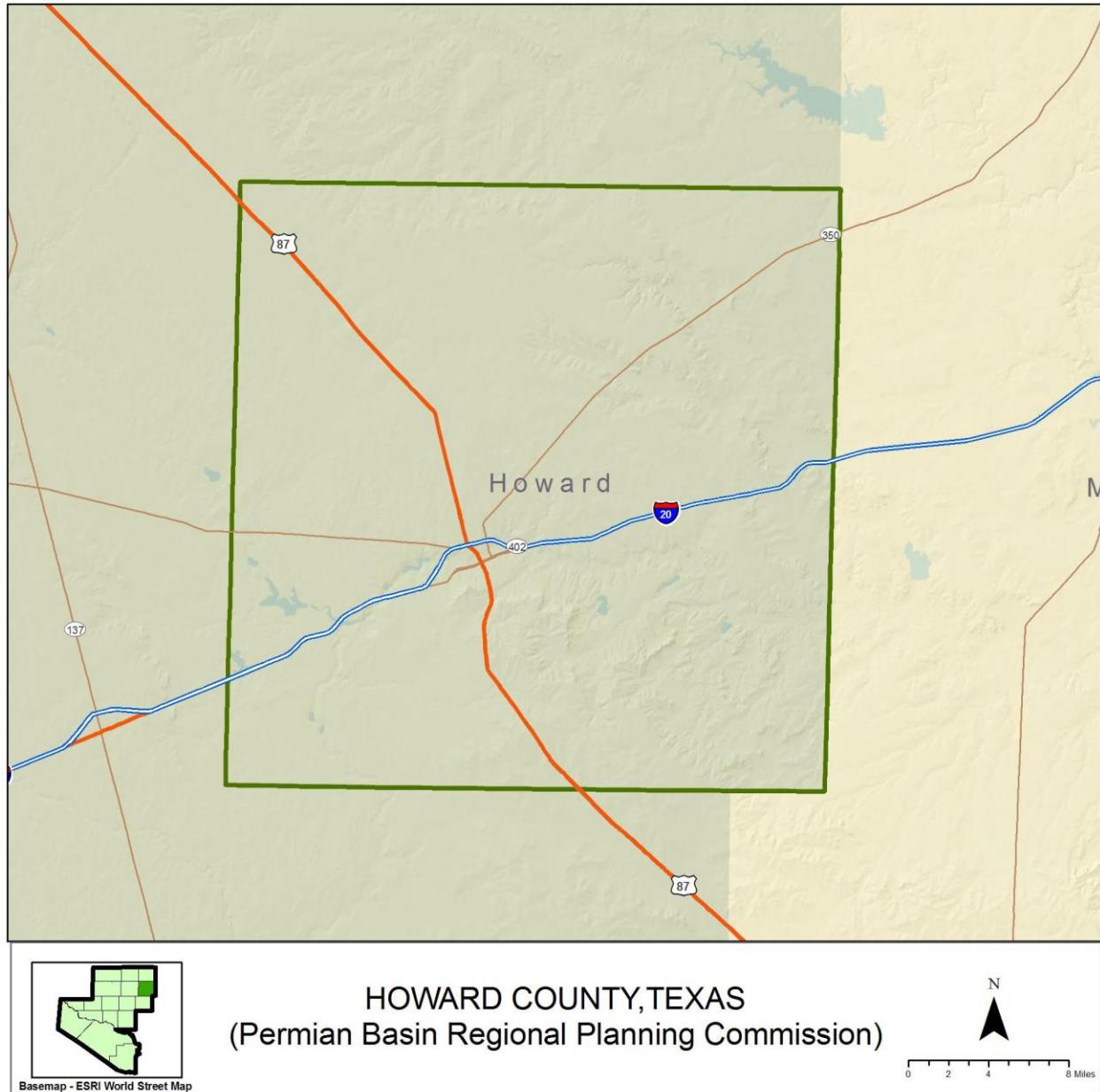


Figure 20 – Howard County

11.1 Howard County Radio System

11.1.1 System Description

Howard County operates all public safety radio systems in the VHF spectrum. The Howard County Sheriff's Office operates two VHF repeaters for coverage in the county, with the exception of Big Spring and the immediate surrounding area, which is covered by repeaters in Big Spring. A VFD provides countywide service. The Sheriff's Office PSAP receives selectively routed calls from the rural areas.

Both the Sheriff's Office and Big Spring PD serve as central dispatch locations for all emergency services within Howard County.

11.1.2 User Agencies

Table 70 outlines the user groups that utilize the Howard County radio system.

Table 70 – Howard County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Howard County Sheriff's Office	Law Enforcement	Mike Dawson	432-264-2244	mike.dawson@co.howard.tx.us

Howard County operates both with the Sheriff's Office, covering most of the county, and the Big Springs PD, covering the city for law enforcement. Likewise, there is a city fire department and volunteer fire/EMS services for the county.

11.1.3 Dispatch Facilities

The Sheriff's Office operates its dispatch center from the County jail facility.

Table 71 summarizes the channels as they appear on the dispatch console.

Table 71 – Howard County Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Pri HCSO	Sheriff primary dispatch
H.C. Jail	Howard County Jail
H.C.F.D.	Howard County VFD primary dispatch
B.S.P.D.	Big Spring PD primary dispatch
Tex Law 2	Interoperability
B.S. F.D.	Big Spring FD primary dispatch
Emrg. Mgmt	Emergency Management

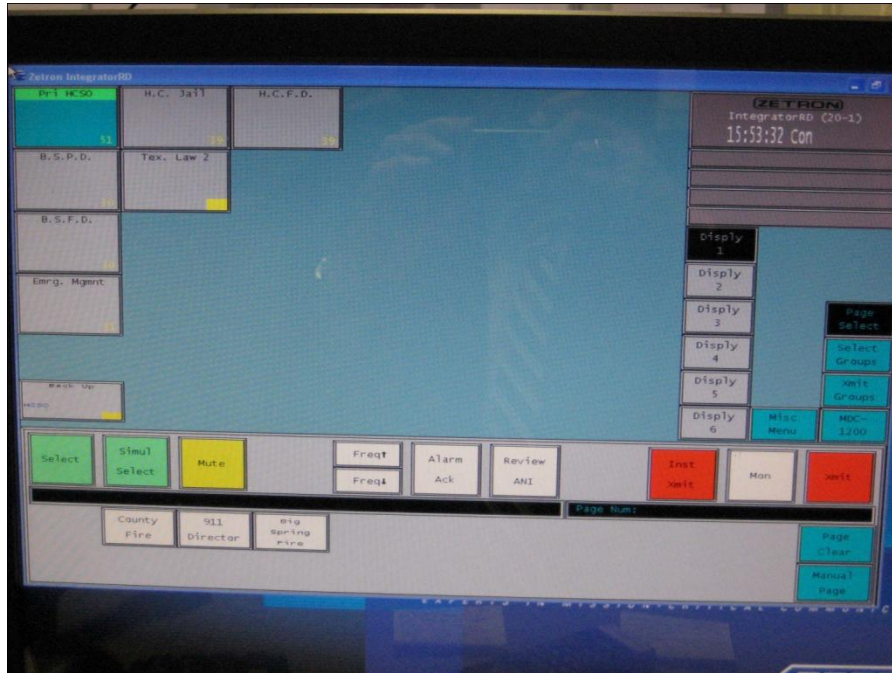


Figure 21 – Howard County Sheriff's Office Dispatch Console

11.1.4 Focus Groups

L. R. Kimball staff met with representatives of the Howard County Sheriff's Office.

11.1.5 Radio Sites

Tables 72 and 73 detail information provided by Howard County regarding the radio sites.

Table 72 – Howard County Radio Sites

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Northside	1011 N. San Antonio	County	New	N
Scenic Mountain	State Park	County		N

Table 73 – Howard County Radio Shelters

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
South Mountain SO	8x8	Metal	10		Y	N
Northside		Inside bldg			Y	Y

11.1.6 Radio Inventory

Tables 74 and 75 reflect fixed infrastructure and subscriber inventories for the Howard County radio system.

Table 74 – Howard County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Howard County Sheriff's Office	Repeater	Kenwood	TKR751	TX: 155.4150
	Repeater	Kenwood	TKR751	TX: 155.5350
Howard County VFD	Repeater			TX: 155.1150

Table 75 – Howard County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Howard County Sheriff's Office	Kenwood	TK290	Portable	28
	Kenwood	TK790	Mobile	18
Howard County VFD	Kenwood	TK290	Portable	21
	Kenwood	TK790	Mobile	15
Total Mobiles				33
Total Portables				49
Total Control Stations				0
Total				82

11.1.7 FCC Licenses

Table 76 – Howard County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
KNFR291	2	HOWARD, TX		154.7250	MO		100	100	11K0F3E 20K0F3E 8K10F1D 8K10F1E
	3	32-13-21.4	101-27-34.4	155.4150 458.0500 453.3000	FB2 FX1 FX2	71.4 3.5 3.5	125 5 5	300 25 25	11K0F3E 20K0F3E 8K10F1D 8K10F1E
	4	32-14-6	101-30-43.5	458.3000 155.4900 154.7250 458.2500	FX1 FB FX1 FX1	15.2 7.7 6.2 6.2	5 5 5 5	25 25 25 25	11K0F3E 20K0F3E 8K10F1D 8K10F1E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
	5	32-13-50.2	101-29-30.3	155.4150 453.2500 453.0500	FB2 FX2 FX2	8.4 4 4	125 5 5	300 25 25	11K0F3E 20K0F3E 8K10F1D 8K10F1E
	6	32-15-5.9	101-28-37.7	154.7250 458.2500 458.3000	FX1	2	15 5 5	15 25 25	11K0F3E 20K0F3E 8K10F1D 8K10F1E
KVJ916	1	HOWARD, TX		154.7550 154.9500	MO		350		20K0F3E
	2	32-13-21.4	101-27-32.4	155.3700 155.5350	FB2	76	350	400	20K0F3E
WNGC779	1	32-13-50.4	101-29-30.4	155.4900	FB	12	100	375	20K0F3E
	2	HOWARD, TX		155.4900	MO		100	199	20K0F3E
WQHB953	1	32-12-5	101-26-42	155.1150 155.7675	FB2	128	125	150	11K2F9W 20K0F3E
	2	40 km around location 1		155.1150 159.0450 155.7675 158.8575	MO		110	150	11K2F9W 20K0F3E
	3	6.1 m control stations		159.0450 158.8575	FX1		50	110	11K2F9W 20K0F3E

The active FCC licenses belonging to Howard County can be found in **Appendix H**.

11.1.7.1 KNFR291

This license covers the repeater pair 155.415 MHz (TX) and 154.725 MHz (RX) and is used as the Howard County Sheriff's Office primary channel. The repeater for this channel is located at the South Mountain site. The license also provides the UHF frequencies used for site linking. This license covers wideband and narrowband operation.

11.1.7.2 KVJ916

This license covers the car-to-car channels for the Sheriff's Office, 154.755, Big Springs PD car-to-car on 155.535, TXLAW1 on 154.950 and TXLAW2 on 155.370. This license covers wideband only and will have to be modified for narrowband operation by January 1, 2013.

11.1.7.3 WNGC779

This license covers operation of a single simplex channel 155.4900 MHz at the Scenic Mountain site. The station is addressed to the attention of the Sheriff's Office. This license covers wideband only and will have to be modified for narrowband operation by January 1, 2013.

11.1.7.4 WQHB953

This license covers fire dispatch and paging for the Howard County VFD on 155.115 MHz, as well as the Emergency Management channel 155.7675 MHz. This license covers wideband and narrowband operation.

11.1.8 System Coverage

The rural areas to the northeast and southeast need improved coverage.

Table 77 – Howard County Sheriff’s Office Predicted Coverage

Radio System Coverage	
Mobile Coverage	75%
Portable Coverage	50%
In-building Coverage	40%

Table 78 – Howard County VFD Predicted Coverage

Radio System Coverage	
Mobile Coverage	75%
Portable Coverage	50%
In-building Coverage	40%

The coverage map below depicts the predicted “talk out” portable coverage for Howard County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

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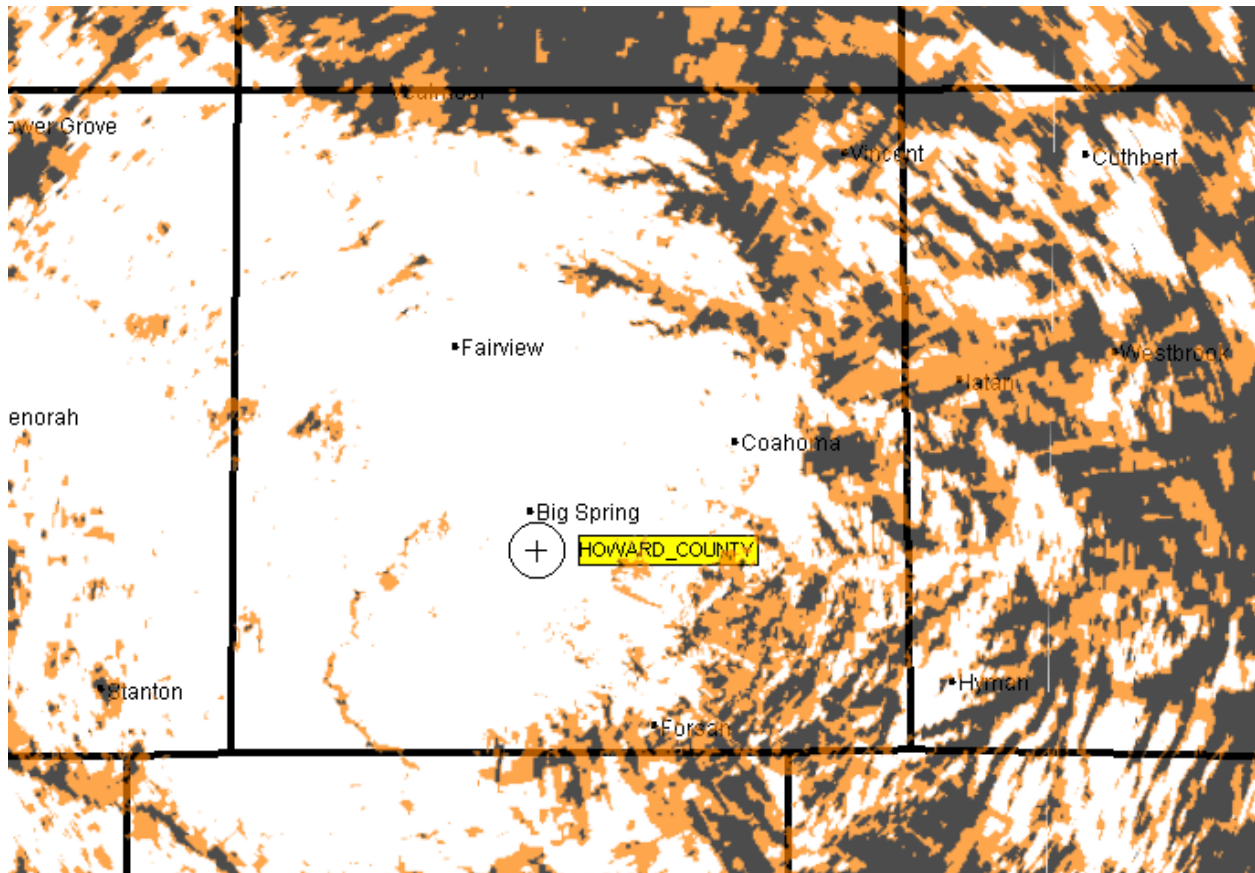


Figure 22 – Predicted Radio Coverage for Howard County Law Enforcement

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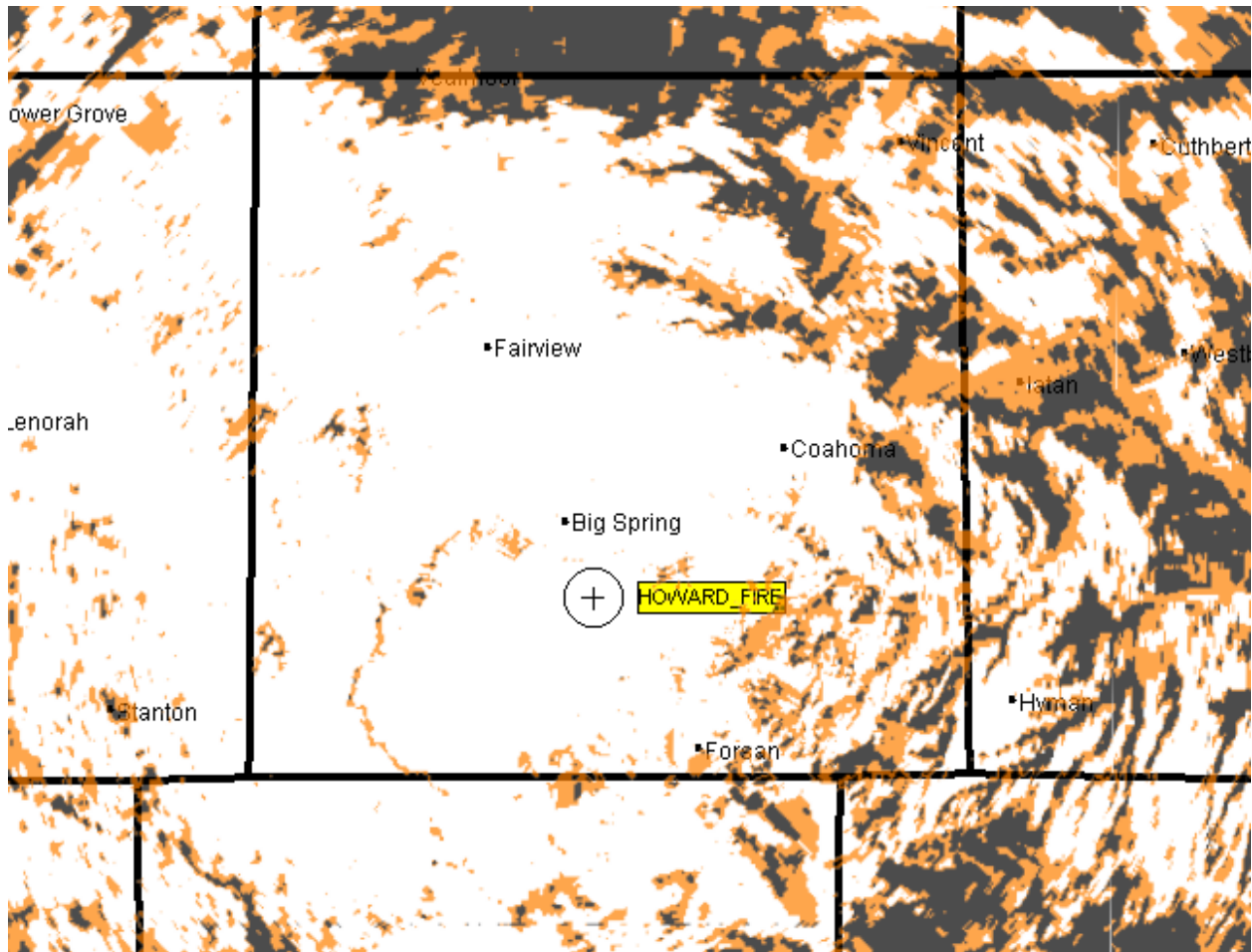


Figure 23 – Predicted Radio Coverage for Howard County Fire

Coverage predictions generally agree with user reports. Coverage along the eastern portion of the county appears to be inhibited by terrain and by limited transmitter height. Cover in the eastern portion of the county should be improved.

11.1.9 Future Plans

Howard County's future plans including combining the County and City dispatch centers and upgrading radios to digital operation.

11.1.10 Past Expenditures

Howard County did not provide past radio expenditures.

11.1.11 Future Funding

Howard County did not identify future funding opportunities.

11.1.12 Assessment

Howard County has radio networks that meet its present needs. Interoperability is generally sound within the county and with neighboring counties.

Conventional Architecture – Implementation of the PBRICS will improve inter-county operations as well as in-county performance. Upgrading to the PBRICS will allow Howard County users to receive coverage from multiple tower sites without requiring channel switching as users roam throughout the coverage area.

Subscribers – Subscriber radios utilized within Howard County include a variety of Kenwood radios, which are all capable of narrowbanding. None of the present Kenwood radios are P25 capable, and require replacement in order for Howard County to operate on the PBRICS system or in the P25 conventional mode.

Narrowbanding – All radios will require reprogramming to meet the narrowbanding criteria.

Coverage – Coverage on the Howard County system is limited throughout much of the eastern portions of the county. Coverage problems are attributed to limited antenna height and challenging terrain.

Interoperability – Interoperability within Howard County is achieved primarily through the use of shared VHF frequencies. While most interoperability partners operate in the VHF band, connectivity is limited with 800 MHz systems. The population center within the Permian Basin region is located in the cities of Midland and Odessa, which operate 800 MHz trunking systems. If 800 MHz users respond to Howard County, cross-band connectivity will depend in the localized coverage area provided by a deployable mobile gateway.

11.2 Big Spring Radio System

11.2.1 System Description

The Big Spring PD operates two repeaters for police coverage within the City and surrounding area. The Big Spring FD has a repeater covering the City and surrounding area. The Big Spring PD provides the radio systems for the cities of Coahoma and Forsan. Big Spring law enforcement channels utilize a voting system to enhance coverage throughout the county. The fire/EMS channel has been implemented with a single transmitter site. The Big Spring PSAP handles calls for the urban area.

Both the Sheriff's Office and Big Spring PD serve as central dispatch locations for all emergency services within Howard County.

11.2.2 User Agencies

Table 79 outlines the user groups that utilize the Big Spring radio system.

Table 79 – Big Spring User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Big Spring PD	Law Enforcement	Terry Chamness	432-264-2561	tchamness@bigspringspd.net
Big Spring FD	Fire/EMS	Terry Chamness	432-264-2561	tchamness@bigspringspd.net
VFD	Fire/EMS	Terry Chamness	432-264-2561	tchamness@bigspringspd.net

Howard County operates both with the Sheriff's Office, covering most of the county, and the Big Springs PD, covering the city for law enforcement. Likewise, there is a city fire department and volunteer fire/EMS services for the county

11.2.3 Dispatch Facilities

The Big Spring PD houses the dispatch center for the police as well as county fire agencies.

Table 80 summarizes the channels as they appear on the dispatch console.

Table 80 – Big Spring Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
City Hall	
Cohoma	City of Coahoma
Sand Spring	City of Sand Springs
Forsan	City of Forsan
Wstovr	
WSCC	
Rodeo	
Base WT	
Kentwd	
Dump	
Northside	
Wassn RD	
Birdwell 1	
Main 18	
HC Fire Other	County Fire
HC Fire Grass	County Fire
City Fire	City Fire dispatch



Figure 24 – Big Spring PD Dispatch Console

11.2.4 Focus Groups

L. R. Kimball staff met with representatives of the Big Spring PD.

11.2.5 Radio Sites

Tables 81 and 82 detail information provided by Big Spring regarding the radio sites.

Table 81 – Big Spring Radio Site

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
South Mountain	On South Mountain	Big Spring PD	35	N

Table 82 – Big Spring Radio Shelter

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
South Mountain PD	8x10	Metal	35	Generator	Y	Y

11.2.6 Radio Inventory

Tables 83 and 84 reflect fixed infrastructure and subscriber inventories for the Big Spring radio system.

Table 83 – Big Spring Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Big Spring PD	Repeater	Kenwood	TKR750	TX: 153.9200
	Repeater	Kenwood	TKR850	TX: 153.9200
	Duplexer	Sinclair		
	Duplexer	Sinclair		
	UHF Link	Kenwood	TKR851	465.5500
	UHF Link	Kenwood	TKR851	460.5500
Big Springs FD	Repeater	Motorola	MT2000	TX: 154.3100

Table 84 – Big Spring Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Big Spring PD	Kenwood	TK290	Portable	55
	Kenwood	TK790	Mobile	65
	Kenwood	TK5210	Portable	5
	Kenwood	TK5710	Mobile	5
Big Spring FD	Kenwood	TK290	Portable	22
	Kenwood	TK790	Mobile	23
Total Mobiles				93
Total Portables				82
Total Control Stations				0
Total				175

11.2.7 FCC Licenses

Table 85 – Big Spring FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
WPWK985	1	32-13-21.4	101-27-34.4	158.9400 465.5250	FB2 FX1	77.4 3.5	120 5	180 25	11K0F3E 20K0F3E 8K10F1D 8K10F1E
	2	HOWARD, TX		153.9200 158.9400	MO		45	90	11K0F3E 20K0F3E 8K10F1D 8K10F1E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
	3	32-15-9.7	101-28-21	153.9200 465.5500	FX1	9 10	5	25	11K0F3E 20K0F3E 8K10F1D 8K10F1E
	4	32-14-6	101-30-43.5	465.5500	FX1	4.5	2	25	11K0F3E 20K0F3E 8K10F1D 8K10F1E
	5	32-15-41.4	101-29-34.2	158.9400 460.5500 460.5250	FB2 FX2 FX2	10 6 6	120 5 5	180 25 25	11K0F3E 20K0F3E 8K10F1D 8K10F1E
WQGJ671	1	32-13-21.4	101-27-34.4	453.3000	FXO	6.1	10	50	20K0F3E
	2	32-15-10.1	101-28-20.7	453.3000	FXO	6.1	10	50	20K0F3E
	3	32-15-5.8	101-28-37.4	453.3000	FXO	6.1	10	50	20K0F3E
	4	32-13-21.4	101-27-34.4	155.5350	FB2	77.4	125	250	11K2F9W 20K0F3E
	5	40 km around location 4		155.5350 154.7550	MO		110	160	11K2F9W 20K0F3E
	6	6.1 m control stations		154.7550	FX1		50	100	11K2F9W 20K0F3E
KNGZ306	1	6.1 m control stations		153.8900	FX1		45	45	11K3F2E 11K3F3E 20K0F3E
	2	32-13-21.4	101-27-32.4	154.3100	FB2	75	100	245	11K3F2E 11K3F3E 20K0F3E
	3	48 km around location 2		153.8900 154.3100	MO		100	100	11K3F2E 11K3F3E 20K0F3E
KCX944	1	32-13-21.4	101-27-34.4	154.9800	FB2	46	50	100	20K0F3E
	2	40 km around location 1		154.9800 158.7900	MO		110	110	20K0F3E
WXP544	1	VIC: BIG SPRING TX		158.7450	MO		100		20K0F3E
	2	32-13-4	101-31-1.4	158.7450	FB	9	100	250	20K0F3E

The active FCC licenses belonging to Big Spring can be found in **Appendix H**.

11.2.7.1 WPWK985

This license covers the repeater pair 158.940 MHz (TX) and 153.920 MHz (RX) and is used as the Big Spring PD primary channel. The repeater for this channel is located at the South Mountain site. The license also provides the UHF frequencies used for site linking. This license covers wideband and narrowband operation.

11.2.7.2 WQGJ671

This license covers operation on the repeater pair 155.5350 MHz (TX) and 154.7550 MHz (RX) and the use of fixed UHF point-to-point links. The channel is used as part of the voting system with the UHF links being utilized for backhaul. The UHF links require the addition of narrowband emissions, while the primary VHF channels already reflect narrowband operation.

11.2.7.3 KNGZ306

This license covers the repeater pair 154.31 MHz (TX) and 153.89 MHz (RX) and is used as the Big Spring FD primary channel. The repeater for this channel is located at the South Mountain site. This license covers wideband and narrowband operation.

11.2.7.4 KCX944

This license covers operation on a VHF repeater pair. The use of the channel is unknown. The license reflects wideband operation and must be updated with narrowband emissions prior to January 1, 2013.

11.2.7.5 WXP544

This license covers operation of a single VHF simplex frequency for base and mobile operations. The use of the channel is unknown. The license reflects wideband operation and must be updated with narrowband emissions prior to January 1, 2013.

11.2.8 System Coverage

Coverage in Big Spring is acceptable for all services.

Table 86 – Big Spring PD Predicted Coverage

Radio System Coverage	
Mobile Coverage	100%
Portable Coverage	98%
In-building Coverage	95%

Table 87 – Big Spring FD Predicted Coverage

Radio System Coverage	
Mobile Coverage	95%
Portable Coverage	85%
In-building Coverage	80%

11.2.9 Future Plans

Future plans including combining the County and City dispatch centers and upgrading radios to digital operation.

11.2.10 Past Expenditures

Table 88 lists radio expenditures by Big Spring since 2007.

Table 88 – Big Spring Past Expenditures

Year	Project Description	Total Cost	Funding Source
2010	Voting Receivers	\$30,000	City Budget
2008	Radios for Big Springs Narcotics unit	\$10,000	City Budget
Total		\$40,000	

11.2.11 Future Funding

Big Spring did not identify future funding opportunities.

11.2.12 Assessment

Interoperability is generally sound within the county and with neighboring counties. Big Spring has links to Midland County.

Coverage – The addition of a PBRICS radio site in Big Spring will improve capabilities and interoperability. Coverage provided by the present system was reported as adequate throughout the Big Spring area.

Conventional Architecture – Implementation of the PBRICS will improve inter-county operations as well as in-county performance

Subscribers – Subscriber radios utilized within Big Spring include a variety of Kenwood radios, which are all capable of narrowbanding. However, most of the present Kenwood radios are not capable of an upgrade to P25 operation and will require replacement before Big Spring can operation on the PBRICS system.

Narrowbanding – All radios will require reprogramming to meet the narrowbanding criteria. Some of the FCC licenses maintained by the city of Big Spring contain wideband emissions and must be updated with the appropriate narrowband designators.

Console – The present Zetron 4010 series console utilized by Big Spring provides limited channel capacity and functionality. Should Big Spring migrate to the PBRICS system, increased talk group capacity and system features will likely necessitate the use of a new console.

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12. LOVING COUNTY FINDINGS

Loving County, with an estimated population of 45, is the least populated county in the United States. The county is approximately 673 square miles and is on the western border of the PBRPC region. The city of Mentone is its only population center. The county abuts New Mexico on the north. Information for Loving County was provided by Petro Communications.

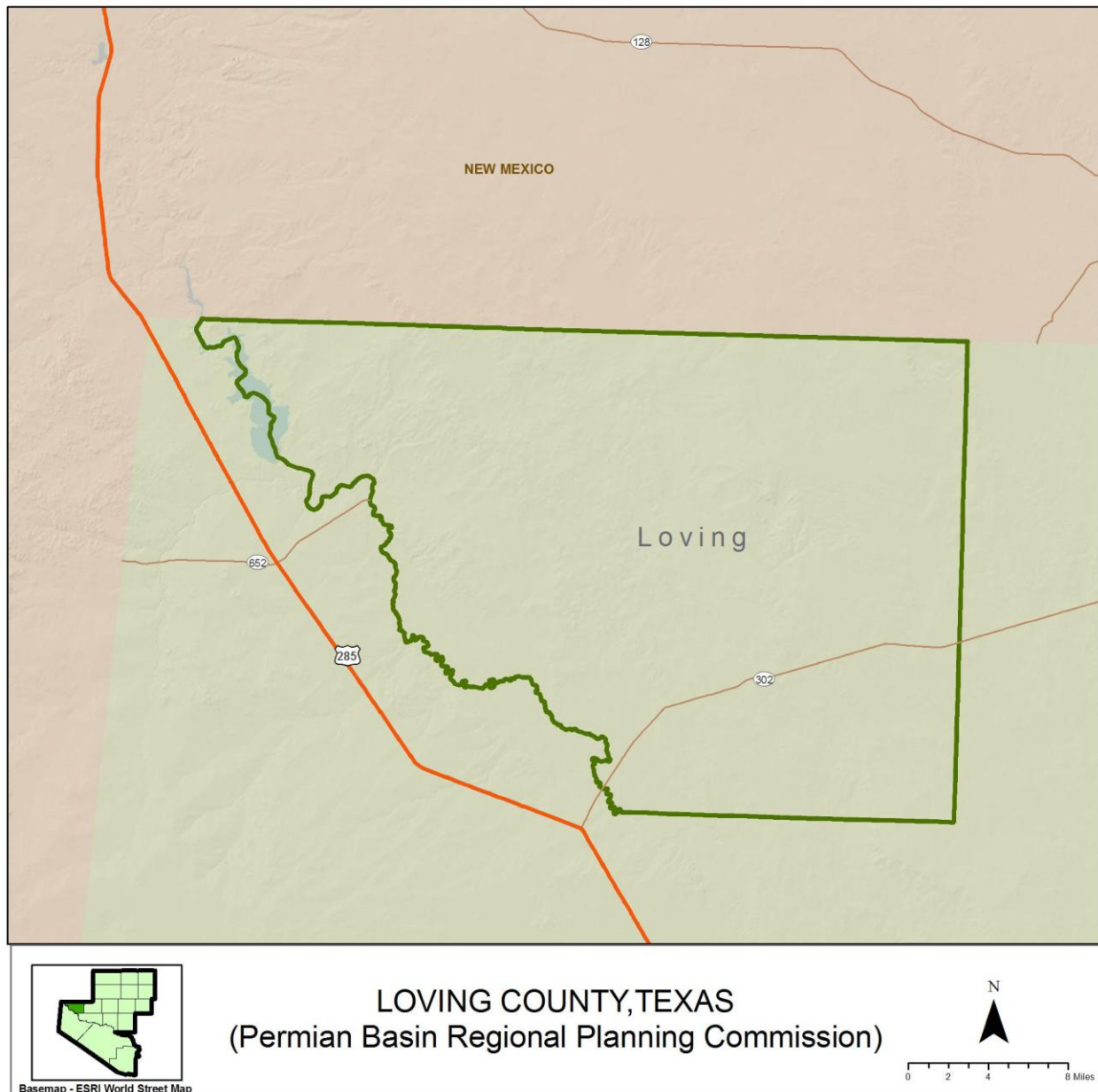


Figure 25 – Loving County

12.1 Loving County Radio System

12.1.1 System Description

Loving County's radio system consists of one VHF repeater located at the County Courthouse, which is in the southern portion of the county. This provides coverage for the population, but not the northern geographic area of the county. Mobile units have car-to-car talk around frequencies for use when users are outside of the primary repeater system coverage area.

12.1.2 User Agencies

Table 89 outlines the user groups that utilize the Loving County radio system.

Table 89 – Loving County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Loving County Sheriff's Office	Law Enforcement	Billy Hopper	432-377-2411	Hob37@yahoo.com
Loving County VFD	Fire	Harlan Hopper	432-940-7934	

All dispatch functions operate on the same channel.

12.1.3 Dispatch Facilities

Loving County has no dispatch center. All dispatching takes place from a desktop radio at the Sheriff's Office.

12.1.4 Radio Sites

Tables 90 and 91 detail information provided by Petro Communications regarding Loving County regarding radio sites.

Table 90 – Loving County Radio Site

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Loving County Courthouse	121 N. Pecos	County	35	N

Table 91 – Loving County Radio Shelter

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Loving County Courthouse	In SO				Y	N

12.1.5 Radio Inventory

Tables 92 and 93 reflect fixed infrastructure and subscriber inventories for the Loving County radio system.

Table 92 – Loving County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Courthouse	Repeater	Motorola	Quantar	155.595

Table 93 – Loving County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Loving County	Motorola	XTL2500	Mobile	4
	Motorola	Astro Spectra	Mobile	1
	Motorola	XTS1500	Portable	6
VFD	Motorola	XTL2500	Mobile	4
Total Mobiles				9
Total Portables				6
Total Control Stations				0
Total				15

12.1.6 FCC Licenses

Table 94 – Loving County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
WPUS217	1	31-42-23.5	103-35-55.7	155.5950	FB2	37	100	100	20K0F3E
	2	40 km around location 1		154.8750 155.5950	MO		40	40	20K0F3E

The active FCC license belonging to Loving County can be found in **Appendix I**.

12.1.6.1 WPUS217

This is a VHF license for 155.595 MHz and 154.875 MHz. This license has not been modified for narrowbanding.

12.1.7 System Coverage

Coverage is limited by the performance of the one repeater channel.

Table 95 – Loving County Predicted Coverage

Radio System Coverage	
Mobile Coverage	90%
Portable Coverage	40%
In-building Coverage	80%

The coverage map below depicts the predicted “talk out” portable coverage for Loving County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

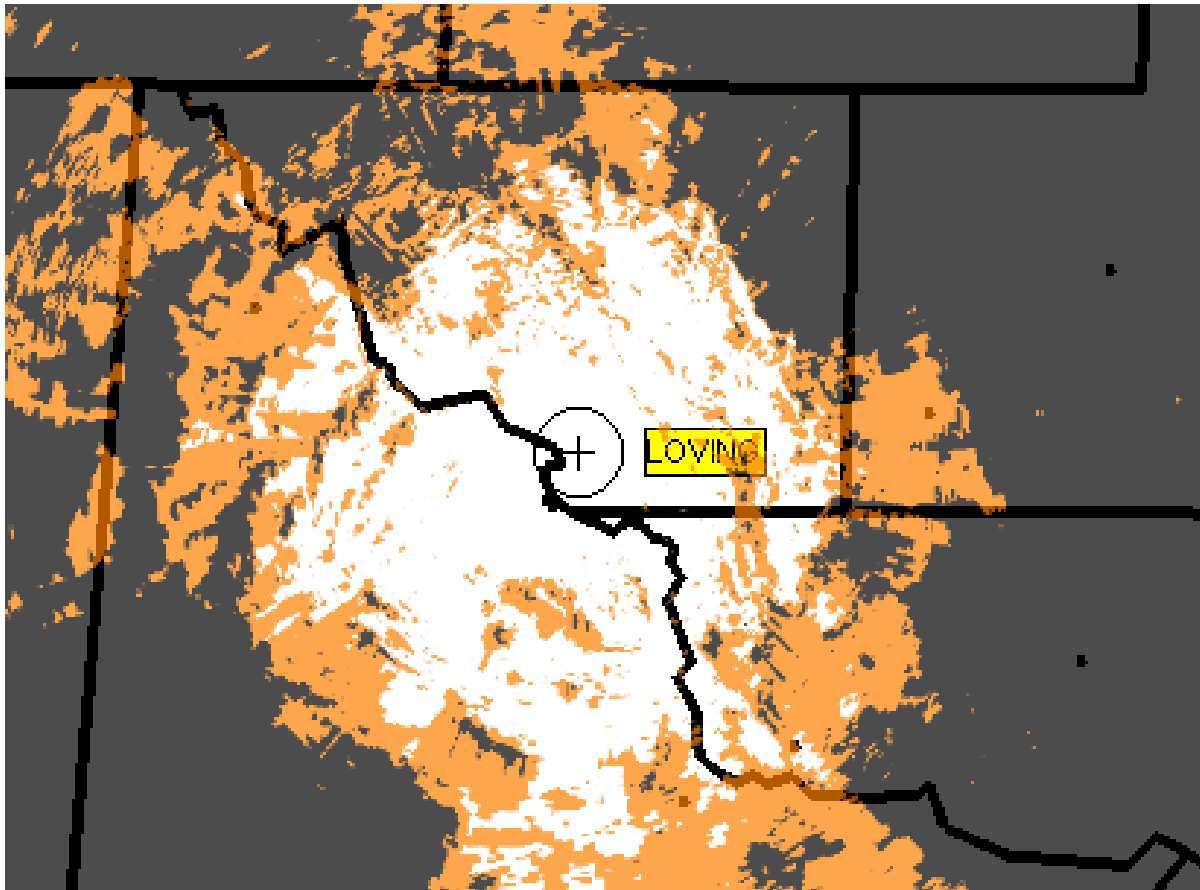


Figure 26 – Predicted Radio Coverage for Loving County VHF Wideband

Radio coverage in Loving County is adequate for the population of the county. The coverage map agrees with user reports. Portable coverage is limited throughout much of the northern portion of the county.

12.1.8 Future Plans

While there are no specific plans for system improvements or expansion, the County would like better mobile and portable coverage, as well as to implement mobile data capabilities.

12.1.9 Past Expenditures

Loving County did not provide past radio expenditures.

12.1.10 Future Funding

Loving County did not identify future funding opportunities.

12.1.11 Assessment

Loving County has a simple radio network that requires improvements for acceptable countywide coverage. Interoperability is generally sound within the county and with neighboring counties.

Coverage – Coverage problems experienced within the county are a concern. The low population density and the adjacency of New Mexico suggest that more rural coverage is required. Coverage on the present system is limited by use of the court house as the primary transmitter site, which provides limited antenna height.

Conventional Architecture – Implementation of the PBRICS site in Reeves County should improve radio coverage in southern Loving County; this site is scheduled to be implemented within the next two years.

Subscribers – Subscriber radios utilized within Loving County include a variety of Motorola radios, which are narrowband capable and can be upgraded to P25, with the exception of the single Astro Spectra.

Narrowbanding – All radios will require reprogramming to meet the narrowbanding criteria. The primary FCC license must be updated with narrowband emissions.

Interoperability – Interoperability within Loving County is achieved primarily through the use of shared VHF frequencies. While most interoperability partners operate in the VHF band, connectivity is limited with 800 MHz systems. The population center within the Permian Basin region is located in the cities of Midland and Odessa, which operate 800 MHz trunking systems. If 800 MHz users respond to Loving County, cross-band connectivity will depend on the localized coverage area provided by a deployable mobile gateway.

Console – Based on the limited population size, the use of a desktop mobile control station should be adequate for dispatch operation. Should the PSAP grow to the point where multiple channels are monitored, an actual dispatch console may be necessary.

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13. MARTIN COUNTY FINDINGS

Martin County, with an estimated population of 4,581, is approximately 915 square miles. The city of Stanton is the only population center. The city of Ackerly, with less than 80 households, is in both Martin and Dawson counties. Information for Martin County was provided by Petro Communications.

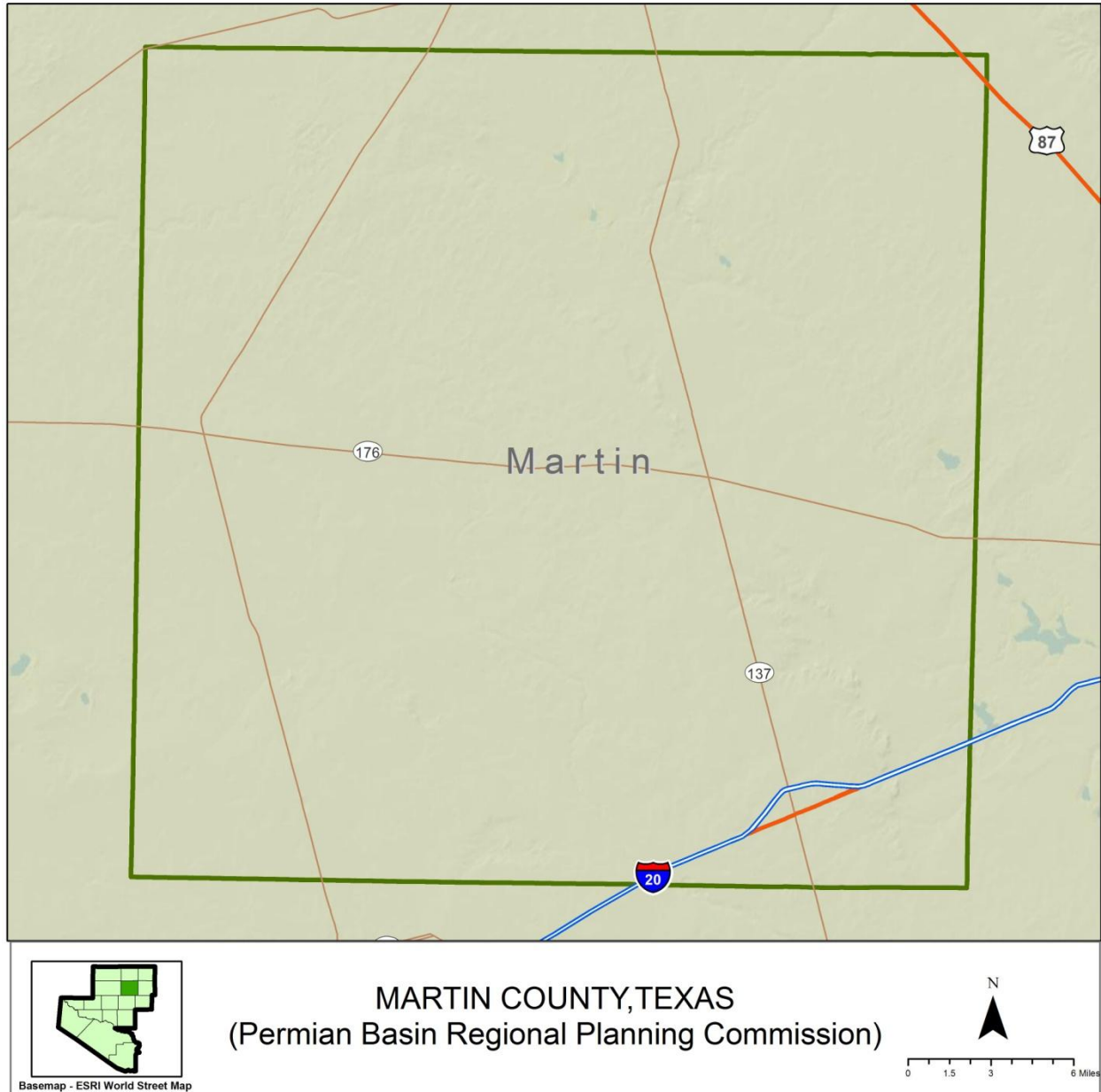


Figure 27 – Martin County

13.1 Martin County Radio System

13.1.1 System Description

Martin County operates a single VHF conventional analog repeater, which is located south of Stanton. The repeater is utilized for shared police and fire operations. EMS operates on a separate channel. The present equipment was installed in 2009.

13.1.2 User Agencies

Table 96 outlines the user groups that utilize the Martin County radio system.

Table 96 – Martin County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Martin County Sheriff	Law Enforcement	John Woodward	432-756-3336	
Stanton PD	Law Enforcement	Michael Adams	432-756-3303	
Stanton VFD	Fire	Lonnie Long	432-967-3526	
Lenorah VFD	Fire	Dusty Well	432-517-2578	
EMS	EMS	Stewart Coleman	432-607-3207	

All radio communications are through the one repeater operated by the Sheriff's Office. Vehicles are equipped with multiple channels for car-to-car and interoperability use.

13.1.3 Dispatch Facilities

Martin County operates a Motorola Command Star Dispatch console for law and fire/EMS services.

Table 97 summarizes the channels as they appear on the dispatch console.

Table 97 – Martin County Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Martin County	Sheriff's Office and Police primary dispatch
EMS	EMS primary dispatch
Glasscock County	Glasscock County Sheriff's Office

13.1.4 Radio Sites

Tables 98 and 99 detail information provided by Martin County regarding the radio sites.

Table 98 – Martin County Radio Site

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Cap Rock Tower	2.5 miles SE	Cap Rock Electric	35	N

Table 99 – Martin County Radio Shelter

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Cap Rock Tower	8x8	Concrete	1975		Y	N

13.1.5 Radio Inventory

Tables 100 and 101 reflect fixed infrastructure and subscriber inventories for the Martin County radio system.

Table 100 – Martin County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Martin County	Repeater	Motorola	Quantar	TX: 155.5950 RX: 154.8750 CTCSS: 88.5 Hz

Table 101 – Martin County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Sheriff's Office	Motorola	XTL2500	Mobile	15
	Motorola	XTS1500	Portable	15
	Motorola	XTL5000	Mobile	2
VFD	Motorola	XTL2500	Mobile	16
	Motorola	XTS1500	Portable	20
EMS	Motorola	XTL5000	Mobile	3
	Motorola	XTS1500	Portable	15
Total Mobiles				36
Total Portables				45
Total Control Stations				0
Total				81

13.1.6 FCC Licenses

Table 102 – Martin County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
KNBC401	1	32-5-48	101-46-27	155.5950	FB2	13	85	260	20K0F3E
	2	32-7-57.4	101-47-28.5	154.8750 155.3700 155.5950	FX1 FB FB	24	35 110 35	52 380 52	20K0F3E
	3	80 km around location 1		154.9500	MO		110		20K0F3E
	4	40 km around location 1		154.8750 155.5950	MO		110		
WNQH633	1	32-18-12.4	101-53-2.5	155.8350	FB	24	50	90	20K0F3E
	2	32 km around location 1		155.8350	MO		50		20K0F3E
WNSW678	1	32-7-29.4	101-47-31.5	155.9850	FB	6	45	100	20K0F3E
	2	40 around location 1		155.9850	MO		45		20K0F3E

The active FCC licenses belonging to Martin County can be found in **Appendix J**.

13.1.6.1 KNBC401

This license is the primary license used by Martin County for public safety; its use includes the repeater on 155.595 MHz, as well as all the mobile units and control stations. This license has not been modified for narrowband use.

13.1.6.2 WNQH633

This license covers operation of a VHF simplex station that is used by Martin County Road and Bridge. This license has not been modified for narrowband use.

13.1.6.3 WNSW678

This license covers operation of a VHF simplex station. The use of the channel is unknown. This license has not been modified for narrowband use.

13.1.7 System Coverage

Since the primary transmitter site is located in the southeastern part of the county, there is poor coverage to the north and west. Users state that coverage must be improved.

Table 103 – Martin County Predicted Coverage

Radio System Coverage	
Mobile Coverage	60%
Portable Coverage	50%
In-building Coverage	50%

The coverage map below depicts the predicted “talk out” portable coverage for Martin County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

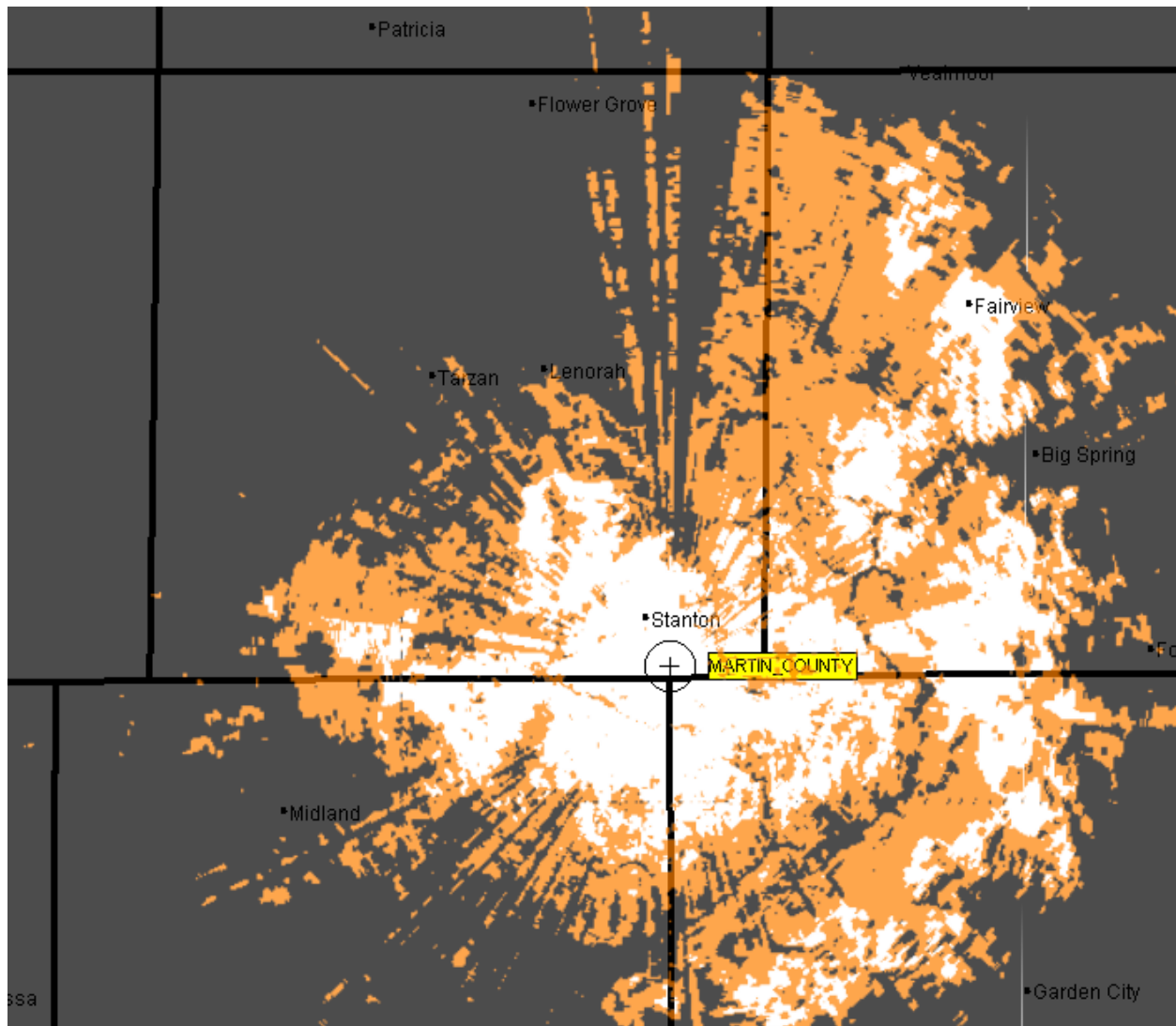


Figure 28 – Predicted Radio Coverage for Martin County Wideband Analog

The coverage model for Martin County shows very limited coverage. Coverage is good in the populated Stanton area, but this accounts for only 10 percent of the county. Portable coverage is predicted to be extremely limited throughout most of Martin County. Mobile coverage is likely limited throughout most of the Martin County geographic area.

13.1.8 Future Plans

Martin County has plans to add an additional repeater to improve law coverage and to add a repeater for improved fire coverage. The County wants to transition to P25.

13.1.9 Past Expenditures

Table 104 lists radio expenditures by Martin County since 2007.

Table 104 – Martin County Past Expenditures

Year	Project Description	Total Cost	Funding Source
2009	Replaced VFD radios	\$7,500	County funds
2010	Replaced radios	\$9,500	County funds
Total		\$17,000	

13.1.10 Future Funding

Martin County did not identify future funding opportunities.

13.1.11 Assessment

Martin County has a simple radio network that requires improvements for acceptable countywide coverage. Interoperability is generally sound within the county and with neighboring counties.

Coverage – Coverage problems experienced within the county are a major concern. While there is a low population density, the required coverage area is significantly greater than is being provided. With a user estimated 40 percent of the land area without mobile coverage, first responder safety is a great concern.

Conventional Architecture – Implementation of the PBRICS sites in Howard County and Midland County should improve radio coverage in some areas of Martin County. The trunking system should permit roaming between radio sites without the need for users to switch channels.

Subscribers – Subscriber radios utilized within Martin County include a variety of Motorola radios, which are narrowband capable and can be upgraded to P25.

Narrowbanding – All radios will require reprogramming to meet the narrowbanding criteria. FCC licenses require updates to reflect narrowband operation.

Interoperability – Interoperability within Martin County is achieved primarily through the use of shared VHF frequencies. While most interoperability partners operate in the VHF band, connectivity is limited with 800 MHz systems. The population center within the Permian Basin region is located in the cities of Midland and Odessa, which operate 800 MHz trunking systems. If 800 MHz users respond to Martin County, cross-band connectivity will depend on the localized coverage area provided by a deployable mobile gateway.

14. MIDLAND COUNTY FINDINGS

Midland County, with an estimated population of 132,316, is approximately 900 square miles. The city of Midland is the only population center. Information for Midland County was provided by Petro Communications.

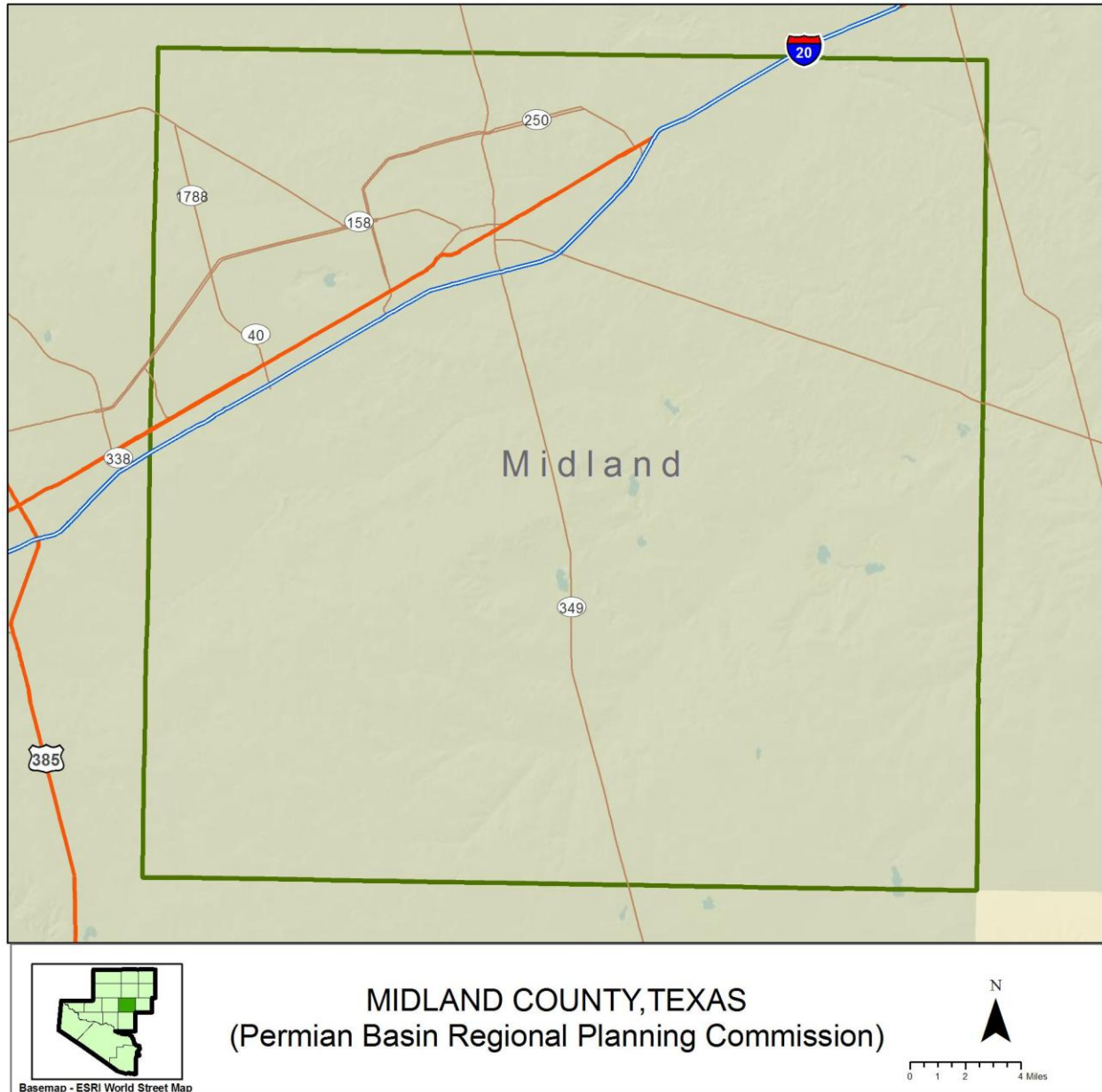


Figure 29 – Midland County

14.1 Midland County Radio System

14.1.1 System Description

The Midland County Sheriff's Office operates a conventional VHF radio system. The Sheriff's Office VHF system operates from two tower sites located within the city of Midland. This system is connected to Midland's 800 MHz system via permanent patches. The VHF system operates in the mixed narrowband analog and digital P25 modes. Remote receive sites and a voting system are used to enhance talk back coverage. A total of five channels are utilized in the VHF system. Motorola proprietary ADP encryption is available on the system, but is not utilized during normal operating modes. The present equipment was installed in 2001. Primary repeater sites are located at the Machen and County sites with remote receive locations located at City Hall, Shell St. water tower, and the Airport water tower. A mobile ACU1000 gateway is maintained by Midland County.

14.1.2 User Agencies

Table 105 outlines the user groups that utilize the Midland County radio system.

Table 105 – Midland County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Midland County Sheriff's Office	Law Enforcement	John McDaniel	432-688-1014	
Northwest VFD	Fire	Ron Wells	432-770-9291	
Greenwood VFD	Fire	Lee Ligon	432-559-0717	

The Sheriff's Office provides services to the county and Midland PD provides services within the city limits. Fire services are provided by county and city fire departments.

14.1.3 Dispatch Facilities

The Sheriff's Office dispatches for the rural areas.

Table 106 summarizes the channels as they appear on the dispatch console.

Table 106 – Midland County Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
OPS 1	Sheriff's Office primary dispatch
OPS 2	Sheriff's Office secondary
MCSO	Warrants
County Fire	VFD dispatch
Tex Law 1	Interoperability
Tex Law 2	Interoperability

14.1.4 Radio Sites

Tables 107 and 108 detail information provided by Midland County regarding the radio sites.

Table 107 – Midland County Radio Sites

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Machen Tower	3718 E Hwy 158	Machen	30	N
County Tower	Taylor & Henderson	County	35	N

Table 108 – Midland County Radio Shelters

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Machen	10x20	Metal	1980		Y	N
County Tower	8x8	Metal	1980		Y	N

14.1.5 Radio Inventory

Tables 109 and 110 reflect fixed infrastructure and subscriber inventories for the Midland County radio system.

Table 109 – Midland County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Midland County	Repeater	Motorola	T5365	TX: 158.9250
	Repeater	Motorola	T5365	TX: 155.0775
	Repeater	Motorola	T5365	TX: 154.3700
	Repeater	Motorola	T5365	TX: 155.6175
	Repeater	Motorola	T5365	TX: 158.7750
	Base	Motorola	T5365	TX: 153.8750
	Voter Rx	Motorola		
	Voter RX	Motorola		

Table 110 – Midland County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Sheriff's Office	Motorola	Astro Spectra	Mobile	25
	Motorola	XTL2500	Mobile	83

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
	Motorola	XTS3000	Portable	79
	Motorola	XTS5000	Portable	45
	Motorola	XTS2500	Portable	52
	Motorola	APX7000	Portable	5
	Motorola	XTL5000	Control Station	8
Greenwood VFD	Motorola	XTS1500	Portable	18
	Motorola	Astro Spectra	Mobile	3
	Harris	M7100	Mobile	12
Northeast VFD	Harris	P5150	Portable	27
	Harris	P7200	Portable	23
	Motorola	XTS2500	Portable	12
	Motorola	Astro Spectra	Mobile	16
Total Mobiles				139
Total Portables				261
Total Control Stations				8
Total				408

14.1.6 FCC Licenses

Table 111 – Midland County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
KVJ918	1	31-59-0.4	102-3-3.5	155.3700	FB	61	100	160	11K2F1D
				453.1500	FB2	76	100	62	11K2F1E
				155.6100	FB2	82	100	209	20K0F3E
				155.4750	FB	61	110	220	8K10F1D
				155.7525	FB	61	100	209	8K10F1E
				155.6175	FB2	82	100	209	7K60FXD
									7K60FXE
	2	31-58-35	102-1-6	155.0700	FB2	152	100	196	11K2F1D
				158.9250	FB2		100	196	11K2F1E
				155.0250	FB		50	80	20K0F1E
				155.0775	FB2		100	196	20K0F3E
				158.9325	FB2		100	196	8K10F1D
				154.3700	FB2		100	196	8K10F1E
	3	32-0-13.4	102-4-34.5	158.9700	FB	26	100	72	11K2F1D
				153.9750	FX1	31	30	108	11K2F1E
				154.7700	FX1	31	30	108	11K2F2E
				156.0900	FB	31	30	108	11K2F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission	
				156.1500 153.8825 156.1575 154.7775	FX1 FX1 FX1 FX1	31 26 26 31	30 30 30 30	108 108 108 108	11K2F9W 8K10F1D 8K10F1E	
	4	31-59-40.4	102-4-28.5	158.9700 156.0900	FB	15 21	40 30	75 110	11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	
	5	6.1 m control station		153.8750 154.7700 156.1500 153.8825 156.1575 156.2025 158.8725 155.7525 154.7775	FX1		30 30 30 30 30 50 50 50 30	113 108 108 113 108 100 100 100 108	11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	
	6	50 km around location 1		153.8750 154.7700 154.9500 155.0700 155.6100 156.0150 156.0900 158.9250 158.9700 453.1500 458.1500 153.8825 155.0775 155.4750 156.1500 156.1575 158.9325 158.8725 156.2025 154.7775 155.6175	MO		110	220	11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	
	WNHI779	1	32-4-4.4	101-59-5.5	154.2800 154.3700	FB	17	30	240	11K2F1D 11K2F1E 20K0F3E 8K10F1D 8K10F1E
		2	32-1-30.5	101-45-43.5	154.2800	FB	17	30	240	11K2F1D

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
				154.3700					11K2F1E 20K0F3E 8K10F1D 8K10F1E
	3	31-59-4	102-3-3.5	154.2800 154.3700	FB	30	100	600	11K2F1D 11K2F1E 20K0F3E 8K10F1D 8K10F1E
	4	MIDLAND, TX		154.2800 154.3700	MO		100	200	11K2F1D 11K2F1E 20K0F3E 8K10F1D 8K10F1E
WNLK292	1	32-00-25.4	102-8-1.5	158.8950	FB2	59	100	200	11K2F1D 11K2F1E 11K2F9W 20K0F1E 20K0F3E 8K10F1D 8K10F1E
	2	PBRPC COUNTIES		153.9350 153.9800 158.8500 158.8950	MO		100	200	11K2F1D 11K2F1E 11K2F9W 20K0F1E 20K0F3E 8K10F1D 8K10F1E
	3	PBRPC COUNTIES		153.9350 153.9800 158.8500	FBT FB2 FB2T		100	200	11K2F1D 11K2F1E 11K2F9W 20K0F1E 20K0F3E 8K10F1D 8K10F1E
	4	6.1 m control stations		153.9800	FX1		30	75	11K2F1D 11K2F1E 11K2F9W 20K0F1E 20K0F3E 8K10F1D 8K10F1E
WQAC487	1	31-56-14.4	102-12-39.5	155.6100	FB2	43	100	209	11K2F9W 20K0F3E 8K10F1D 8K10F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
	2	31-59-59.4	102-4-30.5	158.7750	FB2	18	125	500	11K2F9W 20K0F3E 8K10F1D 8K10F3E
	3	40 km around location 2		158.7750 154.0700	MO		110	160	11K2F9W 20K0F3E 8K10F1D 8K10F3E
	4	6.1 m control stations		158.7750 154.0700	FX1		100	100	11K2F9W 20K0F3E 8K10F1D 8K10F3E
WQJY456	1	31-59-0	102-3-3	453.4125	FB2	61	110	300	7K60FXD 7K60FXE 8K10F1D 8K10F1E
	2	32 km around location 1		453.4125 458.4125	MO		100	200	11K2F9W 20K0F3E 8K10F1D 8K10F3E
	3	6.1 m control stations		458.4125	FX1		50	100	11K2F9W 20K0F3E 8K10F1D 8K10F3E

The active FCC licenses belonging to Midland County can be found in **Appendix K**.

14.1.6.1 KVJ918

This license covers the Sheriff's Office radio systems and is for multiple VHF frequencies and sites that are used by the Sheriff's Office and the county VFD. The frequencies in use on this license are:

- 155.02500 - Police and Fire Dispatch
- 155.07750 - Sheriff car to car
- 158.92500 - Sheriff Operations 1
- 155.61750 - Sheriff Ops 2, Jail Prisoner Transport and Constables
- 156.09000 - Sheriff Tactical 1 (Encrypted)
- 158.97000 - Sheriff Tactical 2
- 154.37000 - Fire

The license has been modified for narrowbanding.

14.1.6.2 WNHI779

This license covers operation on TXFIRE1 and TXLAW2 simplex stations at three locations within Midland County. The license also covers associated mobiles. The license has been updated with narrowband and P25 emissions.

14.1.6.3 WNLK292

This license covers operation on a fixed VHF repeater channel and three temporary repeater channels. The fixed repeater channel is used by the Midland County Road and Bridge department. The license has been updated with narrowband and P25 emissions.

14.1.6.4 WQAC487

This license covers the operation of two VHF repeater channels located at the airport and Loraine sites. The channels are used for security operations. The first channel is 7.5 kHz removed from the Sheriff Ops 2 channel, which could lead to interference problems between the stations. The license has been updated with narrowband and P25 emissions.

14.1.6.5 WQJY456

This license covers operation on a single UHF repeater pair. Attention on the license is addressed to the Sheriff's Office. Emissions reflect P25 and MOTOTRBO emissions.

14.1.7 System Coverage

Since the transmitting sites are located in the populated area around Midland, there is some degradation in the rural areas of the county.

Table 112 – Midland County Predicted Coverage

Radio System Coverage	
Mobile Coverage	95%
Portable Coverage	80%
In-building Coverage	80%

The coverage map below depicts the predicted “talk out” portable coverage for Midland County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

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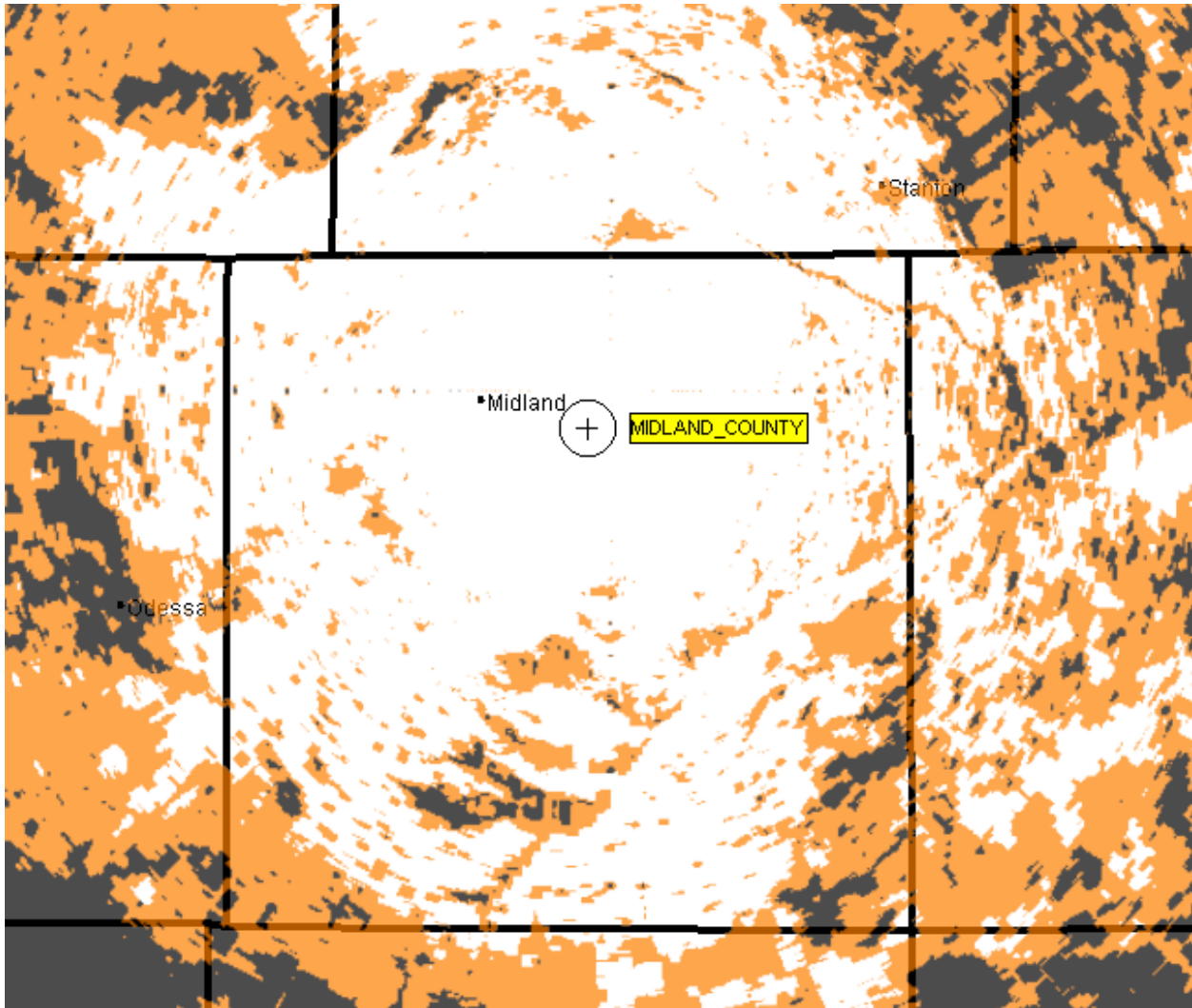


Figure 30 – Predicted Radio Coverage for Midland County VHF

Midland County's coverage is based around the urban area. The coverage to the south is moderate. Predicted coverage levels align with user predictions. Portable coverage will be limited in the southern portion of the county.

14.1.8 Future Plans

Future plans indicated by Midland County include replacing older subscriber radios and upgrading the dispatch console system. Long term goals include improving portable coverage and implementing mobile data.

14.1.9 Past Expenditures

Table 113 lists radio expenditures by Midland County since 2007.

Table 113 – Midland County Past Expenditures

Year	Project Description	Total Cost	Funding Source
2010	Microwave replacement	\$300,000	Fire Grant
2008	Upgrade downtown repeaters to MASTR 3	\$180,000	Fire Grant
2007	County subscriber upgrades	\$90,000	County funds
2008	County subscriber upgrades	\$80,000	County funds
2009	County subscriber upgrades	\$60,000	County funds
2010	County subscriber upgrades	\$50,000	County funds
Total		\$760,000	

14.1.10 Future Funding

Midland County did not identify future funding opportunities.

14.1.11 Assessment

Midland County has two radio networks. Midland County operates conventional VHF channels that require improvements for acceptable countywide coverage.

Interoperability is generally sound within the county and with neighboring counties.

Coverage – Coverage problems experienced within the county are a concern. Although the population density in the southern portion of the county is low, there is still a public safety requirement. Coverage limitations are primarily portable in nature.

Conventional Architecture – Implementation of the PBRICS sites in Midland and surrounding counties should improve radio coverage in the surrounding areas. PBRICS implementation will continue over the next two to three years. The present voted receiver system can only be utilized to enhance talk back coverage. Multiple transmitter locations will introduce operational challenges associated with switching channels between sites. Trunking operation on the PBRICS system will remedy these concerns.

Subscribers – Subscriber radios utilized within Midland County include a variety of Motorola radios for county users and Harris (M/A-COM) radios for the city system. The VHF units are narrowband capable and can be upgraded to P25. Astro Spectra radios will not operate in the P25 trunked mode.

Narrowbanding – Most County radios are ready for narrowband operation. FCC licenses have been updated with both narrowband analog and P25 emissions.

Interoperability – Interoperability is achieved between Midland County and the city of Midland through permanent patches between the systems. This configuration is only adequate in the overlapping coverage areas of the Midland and Midland County systems. Throughout most populated areas, this connectivity is adequate. However, operation outside of the coverage areas is dependent on a select few multi-band radios or a mobile gateway.

14.2 Midland Radio System

14.2.1 System Description

The majority of communications in Midland County is provided by the city of Midland's 800 MHz trunked radio system, which is a Harris system utilizing EDACS trunking technology. The trunked system operates from two sites: one located in downtown Midland on the Bank of America Building and one on the water tower at the Midland International Airport. The sites are connected via a microwave loop for added reliability. There is also a backup site at the public safety building. This system is connected to the Sheriff's Office VHF system via permanent patches.

14.2.2 User Agencies

Table 114 outlines the user groups that utilize the Midland radio system.

Table 114 – Midland User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Midland PD	Law Enforcement	David Flores	432-686-5089	dflores@midlandtexas.gov
Midland FD	Fire	David Flores	432-686-5089	dflores@midlandtexas.gov

Midland PD provides services within the city limits. Fire services are provided by county and city fire departments.

The Midland EDACS trunked radio system has 193 talkgroups used by every agency in the City, as well as outside agencies. Table 115 lists the significant public safety groups.

Table 115 – Midland Public Safety Talk Groups

Talkgroup Name	Description	Talkgroup Name	Description
MPD A	Midland PD	M FD	Midland FD
DISP1	PD dispatch	FD DISP	Midland Fire dispatch
DISP2	PD dispatch	ER	EMS to hospital ER
NCIC	NCIC computer information	EMS	Medical
TRAFFIC	Traffic PD	TAC4	Fire Tac
TAC	PD tactical	TAC5	Fire Tac
CMD1	Command	TAC6	Fire Tac
PATROL	Patrol	VOL FD	VFD
DEA	Liaison to DEA	NEVFD	Northeast VFD
SWAT	SWAT	F TRNG2	FD training
PATROL-S	Patrol	GWVFD	Greenwood VFD
DETV	Detectives	M AIR	Medical Aircraft
P NARC	Narcotics	AIR TAC	FD airport unit
WARRANTS	Warrants unit	AIR FD	FD air unit

Talkgroup Name	Description	Talkgroup Name	Description
AIR PD	PD Air	TX FIRE1	Texas Fire
TX LAW1	Texas Law channel	TX FIRE2	Texas Fire
TX LAW2	Texas Law channel	TX FIRE3	Texas Fire
TX LAW3	Texas Law channel	TX MED1	Texas Med-Com
MID SO	Sheriff	ODS FD	Odessa FD
AIR SO	Sheriff Air unit	MISD2	Midland schools
ODS PD	Odessa PD	P/S M/A	Mutual Aid
METRO1	Midland-Odessa interoperability	INTAGY	Interagency
METRO2	Midland-Odessa interoperability	ALL DEPT1	City department interoperability
HAZMAT	FD Hazmat unit	ALL DEPT2	City department interoperability
SIREN	Siren control	MISD	Midland schools

14.2.3 Dispatch Facilities

Midland handles 9-1-1 service for the city. Midland's dispatch center has seven console positions and two backup positions, which use Harris (Ericsson) C3 Maestro consoles that were provided as part of the trunked radio system.

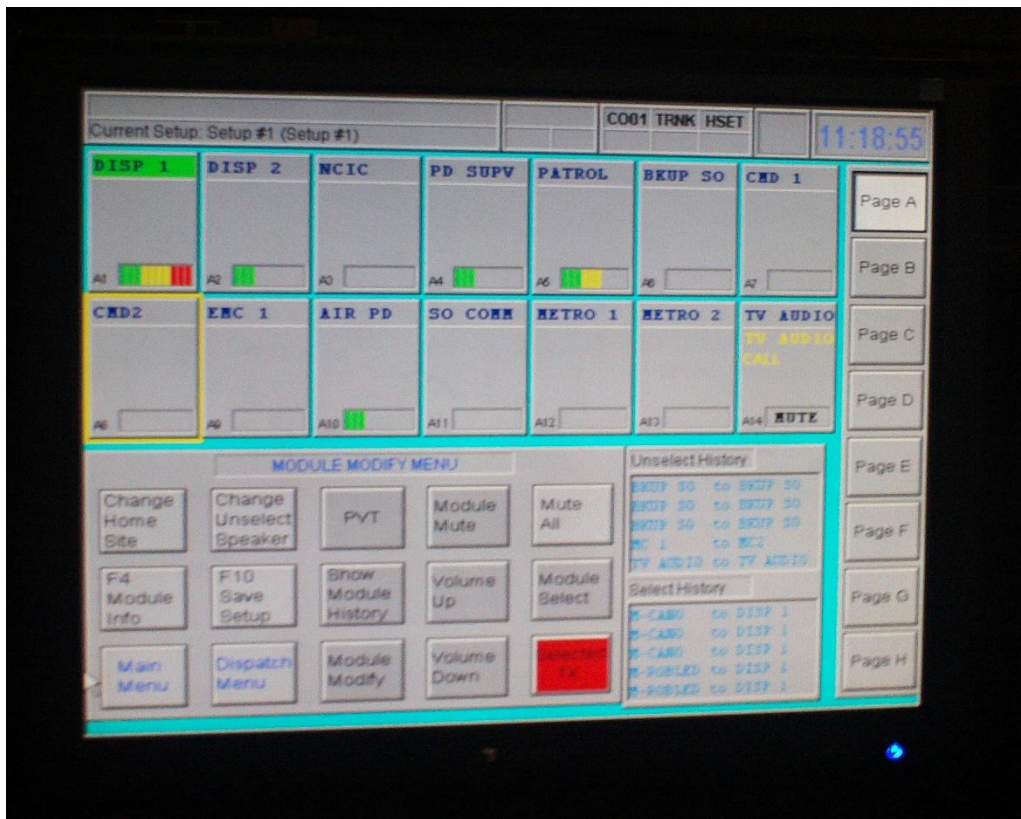


Figure 31 – Midland PD Console Screen Shot



Figure 32 – Midland FD Console Screen Shot

14.2.4 Focus Groups

L.R. Kimball met with the system manager of the Midland trunked system to gather the information for the Midland radio systems.

14.2.5 Radio Sites

Tables 116 and 117 detail information provided by Midland regarding the radio sites.

Table 116 – Midland Radio Sites

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Bank of America	302 Colorado Street	On penthouse of bank	20	Y
Airport	1500 La Force Drive	On Water tower	20	Y
Police Department	601 N. Loraine	City	20	Y
City Hall Tower	300 N. Loraine	City of Midland	30	N
Shell St. Water Tower	Shell Street	City of Midland	40	N

Table 117 – Midland Radio Shelters

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Bank of America	15x15	23 rd floor	1991		Y	Y
Airport	30x12	Aggregate	1991		Y	Y
Police Department	10x12	IT room	1991	Y	Y	Y
City Hall Tower	4x4	Fiberglass	1980		N	N
Shell Water Tower					N	N



Figure 33 – Bank of America Site

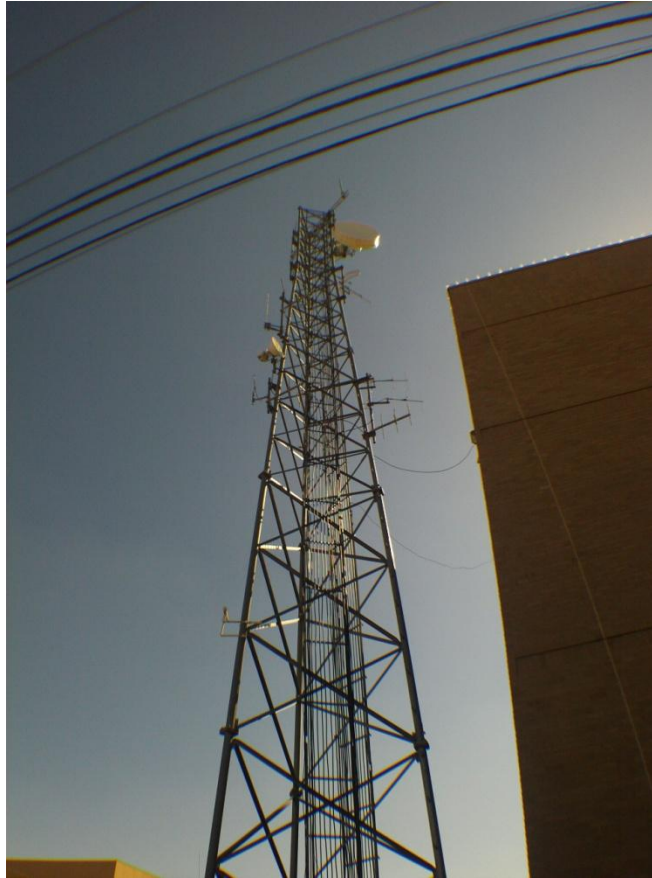


Figure 34 – Midland PD Tower

14.2.6 Radio Inventory

Tables 118 and 119 reflect fixed infrastructure and subscriber inventories for the Midland radio system.

Table 118 – Midland Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
City of Midland	Repeater	Harris	MASTR3	TX: 856.71250
	Repeater	Harris	MASTR3	TX: 857.71250
	Repeater	Harris	MASTR3	TX: 858.71250
	Repeater	Harris	MASTR3	TX: 859.71250
	Repeater	Harris	MASTR3	TX: 854.46250
	Repeater	Harris	MASTR3	TX: 856.26250
	Repeater	Harris	MASTR3	TX: 857.26250

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
	Repeater	Harris	MASTR3	TX: 858.26250
	Repeater	Harris	MASTR3	TX: 859.26250
	Repeater	Harris	MASTR3	TX: 854.06250
	Repeater	Harris	MASTR2	TX: 855.46250
	Repeater	Harris	MASTR2	TX: 856.46250
	Repeater	Harris	MASTR2	TX: 857.46250
	Repeater	Harris	MASTR2	TX: 858.46250
	Repeater	Harris	MASTR2	TX: 859.46250
	Repeater	Harris	MASTR2	TX: 854.46250
	Repeater	Harris	MASTR2	TX: 858.71250
	Repeater	Harris	MASTR2	TX: 859.71250
	Repeater	Harris	MASTR2	TX: 860.71250
	Combiner	DB Spectra		800 MHz
	Combiner	DB Spectra		800 MHz
	Combiner	DB Spectra		800 MHz
	Sys. Controller	Harris	N/A	N/A

Table 119 – Midland Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
City of Midland	Harris	7200	Portable	250
	Harris	7100	Portable	50
	Harris	5100	Portable	468
	Harris	M7100/M7200	Mobile	695
	Harris	7100	Control Station	27
Total Mobiles				695
Total Portables				768
Total Control Stations				27
Total				1490

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14.2.7 FCC Licenses

Table 120 – Midland FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
WNSS433	1	31-59-49.4	102-4-39.5	856.2625 856.7125 857.2625 857.7125 858.2625 858.7125 859.2625 859.7125 860.2625 860.7125 854.0625 854.4625	FB2	110	100	251	20K0F1D 20K0F1E 20K0F2D 20K0F3E
	2	32-00-13.4	102-4-34.5	858.7125 859.7125 860.7125 854.4625	FB2	34	100	398	20K0F1D 20K0F1E 20K0F2D 20K0F3E
	3	31-56-14.4	102-12-39.5	855.4625 856.4625 857.4625 858.4625 859.4625	FB2	46	100	398	20K0F1D 20K0F1E 20K0F2D 20K0F3E
	4	6.1 m control stations		810.4625 811.2625 811.4625 811.7125 812.2625 812.4625 812.7125 813.2625 813.4625 813.7125 814.2625 814.4625 814.7125 815.2625 815.7125 809.0625 809.4625	FX1		12	40	20K0F1D 20K0F1E 20K0F2D 20K0F3E
	5			810.4625 811.2625 811.4625 811.7125 812.2625	MO		35	100	20K0F1D 20K0F1E 20K0F2D 20K0F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
				812.4625					
				812.7125					
				813.2625					
				813.4625					
				813.7125					
				814.2625					
				814.4625					
				814.7125					
				815.2625					
				815.7125					
				809.0625					
				809.4625					
				855.4625					
				856.2625					
				856.4625					
				856.7125					
				857.2625					
				857.4625					
				857.7125					
				858.2625					
				858.4625					
				858.7125					
				859.2625					
				859.4625					
859.7125									
860.2625									
860.7125									
854.0625									
854.4625									
WPEH502	1	6.1 m control stations		806.0125	FX1		12	40	12K0F1E
				806.5125					13K0F1B
				807.0125					14K0F3E
				807.5125					12K0F1D
				808.0125					13K0F2D
	2	31-59-49.4	102-4-39.5	851.0125	FB2	110	100	251	12K0F1E
				851.5125					13K0F1B
				852.0125					14K0F3E
				852.5125					12K0F1D
				853.0125					13K0F2D
	3	32-00-13.4	102-4-34.5	851.0125	FB2	34	100	398	12K0F1E
				851.5125					13K0F1B
				852.0125					14K0F3E
				852.5125					12K0F1D
				853.0125					13K0F2D
	4	31-56-14.4	102-12-39.5	851.0125	FB2	46	100	398	12K0F1E
851.5125				13K0F1B					

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
				852.0125 852.5125 853.0125					14K0F3E 12K0F1D 13K0F2D
	5	64 km around location 2		806.0125 806.5125 807.0125 807.5125 808.0125 851.0125 851.5125 852.0125 852.5125 853.0125	MO		35	100	12K0F1E 13K0F1B 14K0F3E 12K0F1D 13K0F2D
KVJ919	1	31-59-58.4	102-0-47.5	155.1300	FB2	87	100	160	20K0F3E
	2	32-0-25.4	12-8-1.5	155.1900	FB2	55	100	160	20K0F3E
	3	31-59-49.4	102-4-39.5	155.1300	FB2	110	100	160	20K0F3E
	4	6.1 m around location 4		155.8500 155.9100	FX1		25		20K0F3E
	5	"blank" km around location 1		154.9500 155.8500 155.9100	MO		110		20K0F3E
WPGU506	1	31-58-20.4	102-5-8.5	1.6100	FB	12	10	10	6K00A3E
WPWW300	1	31-59-50	102-4-39	453.2750	FB2	108.5	25	63	20K0F3E
	2	32 km around location 1		458.2750	MO		5	10	20K0F3E
WQGH362	1	MIDLAND, TX		2461.0000	MO		5	5.433	17M6F8W
WQGH745	1	MIDLAND, TX		453.3000 160.1500	MO		5	5	9K30F1D 11K0F3E
WZX833	1	31-59-43.4	102-5-28.5	154.4300	FB	9	35	49	20K0F3E
	2	31-59-45.4	102-8-21.5	154.4300	FB	9	35	44	20K0F3E
	3	32-00-25.4	102-8-1.5	154.4300	FB	55	35	70	20K0F3E
	4	32-1-14.4	102-5-51.5	154.4300	FB	9	55	87	20K0F3E
	5	32-1-34.4	102-7-58.5	154.4300	FB	11	55	55	20K0F3E
WPK658	1	31-59-40.4	102-4-10.5	155.7450	FB	23	45	75	20K0F3E
	2	24 km around location 1		155.7450	MO		45		20K0F3E

The active FCC licenses belonging to Midland can be found in **Appendix K**.

14.2.7.1 WNSS433

This license covers the city of Midland's trunked radio system on 800 MHz. The license covers a total of 12 trunked frequencies at the primary transmitter location and 5 frequencies at the airport location. Four backup channels from the primary site are duplicated at the Loraine site. The license reflects the post-rebanding radio service YE. The channels are all located in the interleaved portion of the band.

14.2.7.2 WPEH502

This license covers operation of the five NPSPAC interoperability channels at each of the Midland transmitter locations. Associated 6.1 m control stations and mobile units with talk around are also covered on the license. Channels are licensed on the post-rebanding NPSPAC channels.

14.2.7.3 KVJ919

This license is held by the city of Midland and is used to link the City's trunked system to the Midland County VHF system. The frequencies of 154.950 MHz, 155.130 MHz, 155.190 MHz, 155.850 MHz, and 155.910 MHz are used to link the systems together. This license has not been narrowbanded.

14.2.7.4 WPGU506

This license covers an AM radio alerting station on 1610 AM. Narrowbanding does not apply to this license.

14.2.7.5 WPWW300

This license covers operation of a single UHF repeater pair at 303 W Wall. The use of the channel is unknown. The license reflects wideband operation and must be updated with narrowband emissions prior to January 1, 2013.

14.2.7.6 WQGH362

This license covers mobile operation in the 2.4 GHz frequency band. Operation covers the PBRPC region.

14.2.7.7 WQGH745

This license covers mobile only operation on two UHF frequencies. One of the channels is used for SCADA operation and the other is used for voice operation. The license reflects narrowband operation.

14.2.7.8 WZX833

This license covers the frequency of 154.430 MHz and is used by the Midland County VFDs. This license has not been narrowbanded.

14.2.7.9 WPDK658

This license covers operation on the simplex channel 155.7450 MHz. Attention on the license is addressed to the Midland Judicial District CRTC. The license has not been narrowbanded.

14.2.8 System Coverage

Coverage in Midland has been reported as acceptable. Since the transmitting sites are located in the populated area around Midland, there is some degradation in the rural areas of the county. To improve coverage overall, Midland would like to improve its trunking system by adding channels and simulcasting from both existing sites. For full county coverage, five to six more sites would be necessary.

Table 121 – Midland Predicted Coverage

Radio System Coverage	
Mobile Coverage	90%
Portable Coverage	75%
In-building Coverage	95%

The coverage map below depicts the predicted “talk out” portable coverage for Midland County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

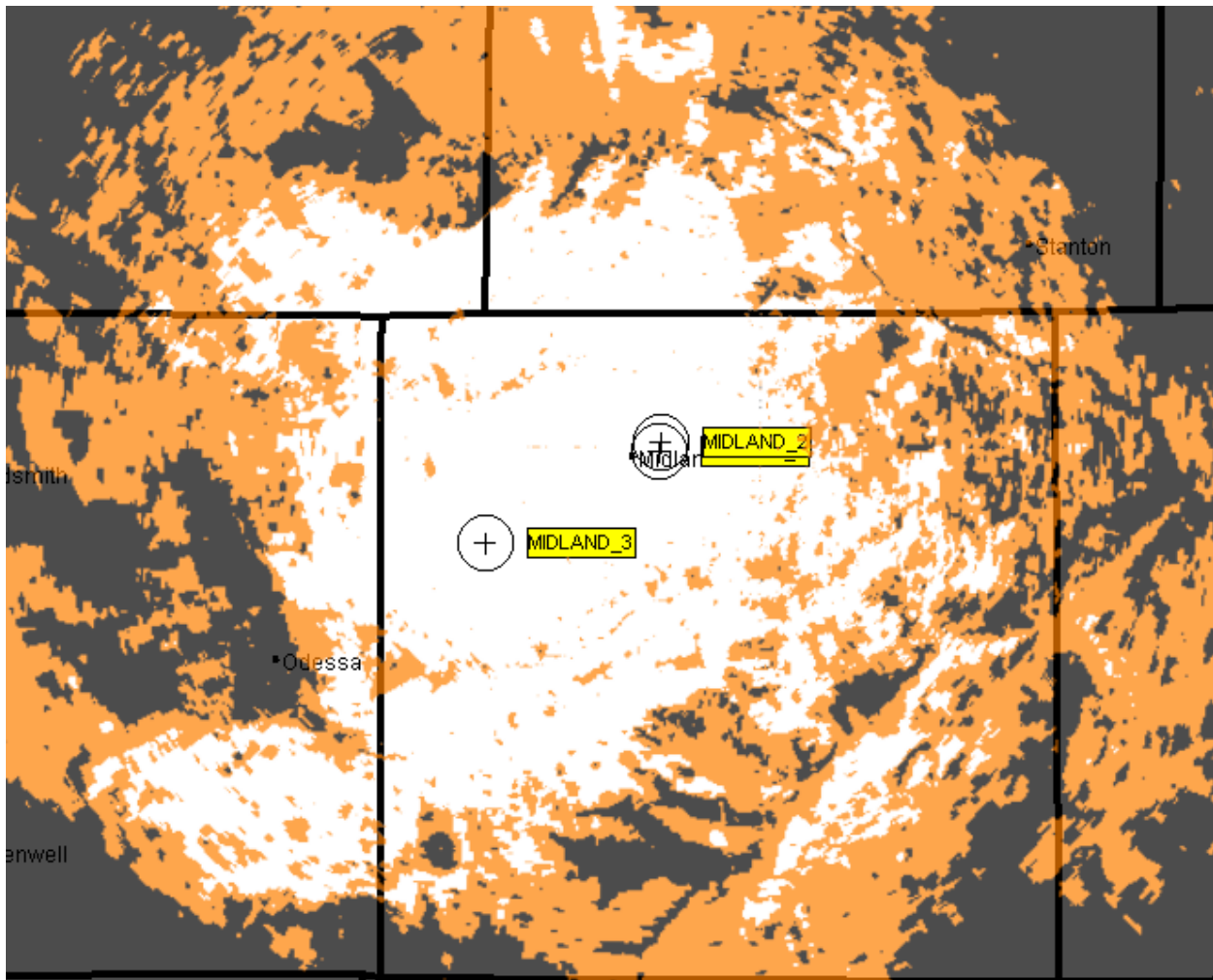


Figure 35 – Predicted Radio Coverage for Midland 800 MHz

The Midland trunked system is designed to cover the City. Its performance, as reported by users, agrees with the predicted coverage of the predicted model. Coverage extends to Ector County and to the borders of Howard County.

14.2.9 Future Plans

Midland has plans in place to upgrade the Airport trunked site to the newer MASTR3 repeaters. Funds have been earmarked, but the grant process has not been completed. Midland would like to enhance its use of mobile data. This includes the use of Wi-Fi and LTE when available.

14.2.10 Past Expenditures

Table 122 lists radio expenditures by Midland since 2007.

Table 122 – Midland Past Expenditures

Year	Project Description	Total Cost	Funding Source
2009	Rebanding	\$50,000	City Funds
2011	Fire House Alerting upgrade	\$480,000	City funds
Total		\$530,000	

14.2.11 Future Funding

Midland did not identify future funding opportunities.

14.2.12 Assessment

Midland County has two radio networks. The City of Midland has a trunking system that performs well for all municipal public safety and local government functions. City radio system has permanent links to the VHF system so interoperability is maintained between city and county units.

Coverage – Coverage on the Midland system is adequate throughout the city of Midland. Coverage is limited throughout much of the southeast portion of Midland County. While this is not the primary coverage area, interoperability response necessitates responding to these areas. User estimates indicate that five to six additional tower sites will be necessary to cover the remaining portions of the county. Based on population densities and building construction, two to three additional sites may prove adequate. Desires were stated to simulcast the airport and primary sites to improve coverage. L.R. Kimball notes that simulcast is a solution that would be used to improve channel efficiency and not improve coverage. If roaming between the primary and airport sites is turned off, this would explain coverage limitations. Permitting roaming would increase loading on the airport site, which could necessitate a simulcast configuration.

EDACS Platform – The Harris EDACS is approaching end-of-life and will no longer be supported by Harris in the coming years. The pending end-of-life of the platform is a driving factor behind an ultimate migration to P25. Once the EDACS platform reaches end-of-life, support from the vendor will become more limited and down times may be longer in the event of a catastrophic system failure due to a limited availability of vendor support.

MASTR II Repeater – Several of the repeater systems utilized by Midland are older MASTR II repeaters that are no longer supported by Harris and have reliability concerns. Plans were indicated to upgrade the MASTR II stations to

MASTRIII. L.R. Kimball notes that MASTRIII stations have been used for quite some time, and that MASTRV stations may be more appropriate to assure longevity of the equipment.

P25 – A P25 upgrade has yet to be planned for the Midland system. However, a P25 upgrade is imminent with the pending end-of-life of the EDACS platform. All subscriber radios used by Midland are capable of an upgrade to P25 trunking, as are MASTRIII repeater stations. A P25 upgrade will also assure interoperability on a shared talk group basis with the city of Odessa, which is missing today.

Interoperability – Interoperability is achieved between Midland and the County through fixed gateway patches. This connectivity is limited to the primary coverage footprint of the Midland system. Midland and Odessa operate on separate platforms and can only communicate directly through conventional interoperability channels. Connectivity outside of these areas is not available to VHF primary users without the use of a mobile gateway, which only serves a limited coverage area.

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15. PECOS COUNTY FINDINGS

Pecos County, with an estimated population of 16,248, is the largest county in the Permian Basin with an area of approximately 4,764 square miles. It is bisected by Interstate 10 and has a number of small cities. Fort Stockton is the largest city in the county. Information for Pecos County was gathered by Petro Communications.

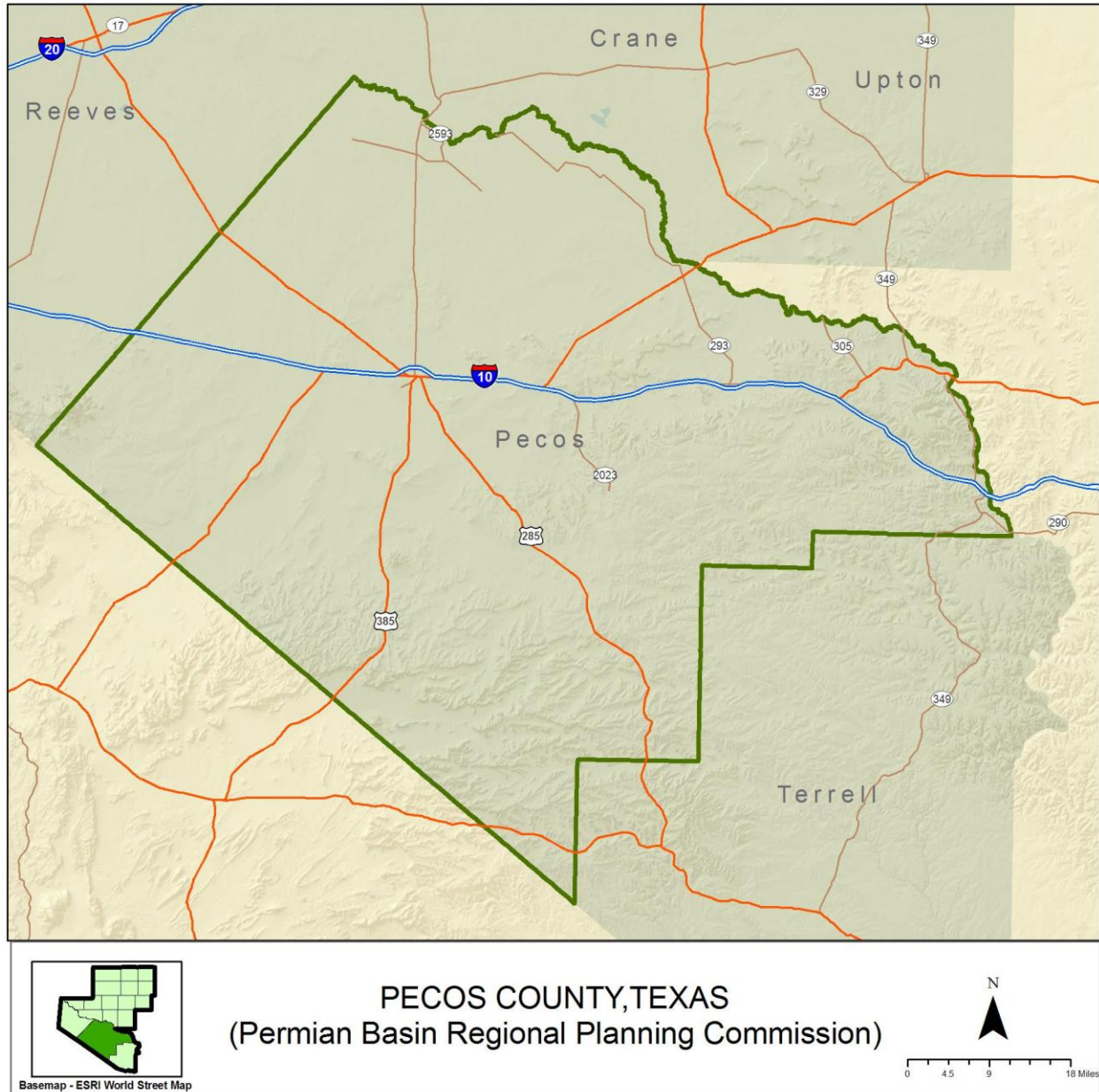


Figure 36 – Pecos County

15.1 Pecos County Radio System

15.1.1 System Description

Pecos County has a VHF conventional analog radio system that is used by all public safety agencies. The primary transmitter site is located in Fort Stockton in the middle of the county. The County utilizes an ACU 1000 gateway for interoperability to other radio systems. Separate repeater channels are used for law enforcement dispatch, VFD dispatch, and EMS operations. The primary PSAP is operated by Fort Stockton with a backup center operated by Pecos County. A total of four transmitter locations are utilized by Pecos County. A UHF control link is used to pass audio between the remote tower site in Iraan and the primary tower site.

15.1.2 User Agencies

Table 123 outlines the user groups that utilize the Pecos County radio system.

Table 123 – Pecos County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Pecos County Sheriff's Office	Law Enforcement	Josh Ureta	432-336-3521	Joshua.ureta@peco.tx.us
Fort Stockton PD	Law Enforcement	Josh Ureta	432-336-3521	Joshua.ureta@peco.tx.us
Fort Stockton FD	Fire	Josh Ureta	432-336-3521	Joshua.ureta@peco.tx.us
EMS	EMS	Josh Ureta	432-336-3521	Joshua.ureta@peco.tx.us
VFD	Fire	Josh Ureta	432-336-3521	Joshua.ureta@peco.tx.us

The primary users are the Pecos County Sheriff's Office, the Fort Stockton PD, the County fire and EMS services. Fort Stockton FD has its own radio system. County EMS operates from transmitters in the southeast and southwest areas of the county.

15.1.3 Dispatch Facilities

Pecos County has a primary and a backup dispatch center. Both are located in Fort Stockton.

Table 124 summarizes the channels as they appear on the dispatch console.

Table 124 – Pecos County Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Pecos County	Sheriff and Police primary dispatch
Fire	VFD Primary dispatch
EMS Glass	EMS primary dispatch
Inter Op	Statewide interop channel
Trunking Inter Op	Area wide trunking interoperability

15.1.4 Radio Sites

Tables 125 and 126 detail information provided by Pecos County regarding the radio sites.

Table 125 – Pecos County Radio Sites

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Pecos County Tower	8 Miles S of Ft. Stockton	Pecos County	35	N
Iraan Tower	2.6 miles SW of Iraan	Pecos County	35	N
City of Fort Stockton	.5 miles SW of I-10	City	35	N
Glass Mtn	14 miles N of Marathon	Grain Communications	10	N

Table 126 – Pecos County Radio Shelters

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Pecos County Tower	8x10	Concrete	2010		Y	Y
Iraan Tower	8x10	Portable Metal	2010		Y	Y
City of Fort Stockton	6x8	Wood	1975		N	N
Glass Mtn	10x12	Portable Metal	1995		Y	Y

15.1.5 Radio Inventory

Tables 127 and 128 reflect fixed infrastructure and subscriber inventories for the Pecos County radio system.

Table 127 – Pecos County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Pecos County	Repeater	Motorola	Quantar	TX: 155.5350
	Control Link	Motorola	Quantar	TX: 452.9750
Iraan Tower	Repeater	Motorola	Quantar	TX: 155.5800
	Control Link	Motorola	Quantar	TX: 457.9750
City of Fort Stockton	Repeater	Motorola	Quantar	TX: 154.4300
Glass Mtn	Repeater	Motorola	Quantar	TX: 153.8375

Table 128 – Pecos County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Sheriff	Motorola	XTL2500	Mobile	55
	Motorola	XTS2500	Portable	32
Police	Motorola	XTL2500	Mobile	15
	Motorola	XTS2500	Portable	15
Fire	Motorola	XTL2500	Mobile	30
	Motorola	XTS2500	Portable	40
EMS	Motorola	XTL2500	Mobile	8
	Motorola	XTS2500	Portable	20
VFD	Motorola	Maratrac	Mobile	15
	Motorola	HT1000	Portable	10
City Dispatch	Motorola	XTL5000	Control Station	6
Sheriff Dispatch	Motorola	XTL5000	Control Station	4
Total Mobiles				123
Total Portables				117
Total Control Stations				10
Total				250

15.1.6 FCC Licenses

Table 129 – Pecos County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
KVJ784	1	30-46-18.6	102-51-17.6	155.3700 155.5350	FB FB2	128	100 250	115 287	20K0F3E
	2	PECOS, TX		154.7850 154.9500	MO		100		20K0F3E
KB54200	1	PECOS, WARD, REEVES, CRANE, UPTON		37.1800	MO		35		20K0F3E
KNIS714	1	30-53-52.6	101-56-47.5	457.9750	FX2	46	100	130	20K0F3E
KNIS715	1	30-46-18.6	102-51-17.6	452.9750	FX1	61	100	130	20K0F3E
KNIS789	1	40 km around location 2		154.8450 155.4975 150.8050	MO		100 110 110	100 160 160	11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E
	2	30-53-53	101-56-47	155.3700 155.5800 155.4975	FB FB2 FB2	52	100 100 100	320 320 190	11K2F2E 11K2F3E 20K0F3E 8K10F1D

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
									8K10F1E
	3	6.1 m control stations		150.8050	FX1		50	100	11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E
KNIS793	1	30-53-8.6	102-55-41.6	38.1800	FB	45	50	100	20K0F3E
WPJG968	1	30-55-44.6	102-52-5.6	155.7750	FB2	98	25	45	20K0F3E
	2	40 km around location 1		153.9800	MO		45	100	20K0F3E
WQIQ413	1	30-23-42.8	103-8-14.9	155.9250 453.3000	FB2 FXO	130 120	125 50	377 200	11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E
	2	NORTHERN AND NORTHEASTERN BREWSTER COUNTY AND PECOS COUNTY		155.9250 153.8375	MO		100	160	11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E
	3	30-39-19.6	102-11-34.2	155.8425	FB2	106	50	200	11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E
	4	PECOS, TX		155.8425 153.9200	MO		110	160	11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E
	5	6.1 m control stations		153.9200 153.9375	FX1		100	250	11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E
WNB351	1	6.1 m control stations		153.8900	FX1		60	75	20K0F3E
	2	30-53-8.6	102-55-41.6	154.4300	FB2	55	110	145	20K0F3E
	3	64 km around location 2		153.8900 154.2800	MO		75	95	20K0F3E

The active FCC licenses belonging to Pecos County can be found in **Appendix L**.

15.1.6.1 KVJ784

This license covers the operation of the primary Sheriff's Office VHF repeater pair located in Fort Stockton. The license also covers base station operation on TXLAW2 and mobile operation on TXLAW1. The license reflects wideband operation and must be updated with narrowband emissions prior to January 1, 2013.

15.1.6.2 KB54200

This license covers mobile operation on the VHF low band channel 37.18 MHz. The service area covers operations in Pecos, Ward, Reeves, Crane, and Upton Counties.

15.1.6.3 KNIS714

This license covers operation of a single UHF frequency in the Iraan area. The channel is used as part of the point-to-point link between Iraan and Fort Stockton. The license reflects wideband operation and must be updated with narrowband emissions prior to January 1, 2013.

15.1.6.4 KNIS715

This license covers operation on a single UHF control station in the Fort Stockton area. The station is the corresponding point-to-point link with the frequency licensed under KNIS714. The license reflects wideband operation and must be updated with narrowband emissions prior to January 1, 2013.

15.1.6.5 KNIS789

This is a VHF license for the county in the city of Iraan. It is used by the Sheriff's Office in the eastern portion of Pecos County. This license has been modified for narrowband operation.

15.1.6.6 KNIS793

This license covers fixed operation on the VHF low band channel 37.18 MHz. The license corresponds with mobile operation on KB54200.

15.1.6.7 WPJG968

This license covers VHF operations on a repeater channel. Attention is addressed to the Sheriff's Office. The exact use of the channel is unknown. The license reflects wideband operation and must be updated with narrowband emissions prior to January 1, 2013.

15.1.6.8 WQIQ413

This license is for VHF and UHF frequencies used by the EMS service. One transmitting site is in Brewster County and the other is near Iraan.

15.1.6.9 WNB351

This VHF license is for the Fort Stockton FD. It has been modified for narrowband operation.

15.1.7 System Coverage

Coverage is reported to be barely adequate in most of the county. Coverage in the areas around Fort Stockton and Iraan is good.

Table 130 – Pecos County Predicted Coverage

Radio System Coverage	
Mobile Coverage	85%
Portable Coverage	50%
In-building Coverage	50%

The coverage map below depicts the predicted “talk out” portable coverage for Pecos County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

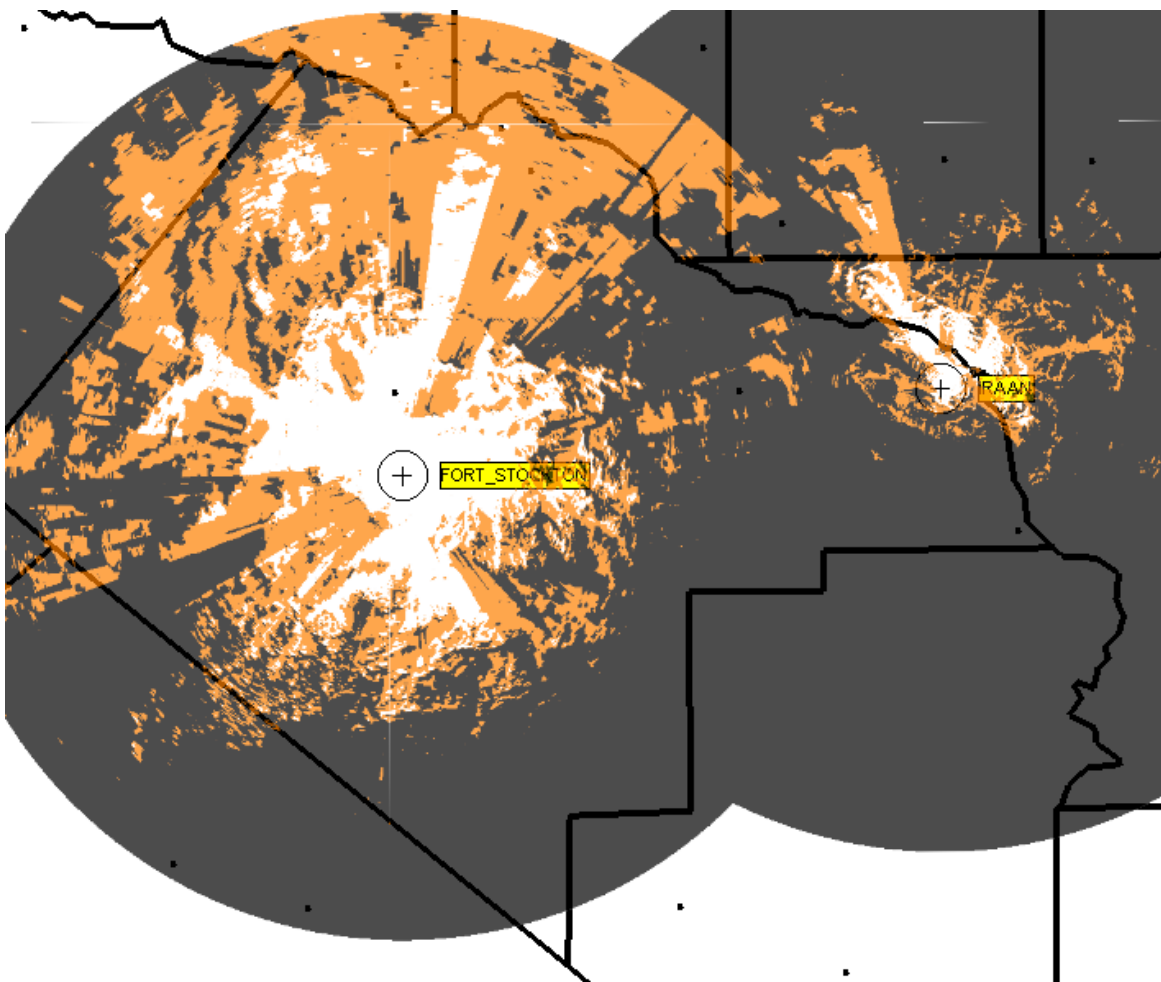


Figure 37 – Predicted Radio Coverage for Pecos County Wideband Analog

The model for radio coverage in Pecos County demonstrates the poor radio performance that can be expected in most of the county. Much of Interstate 10 does not have radio coverage. The nature of the terrain in the county prevents radio signals from being received in many of sections of the highway, and the county in general. Users report coverage is acceptable in the Fort Stockton and Iraan areas where the transmitters are located.

15.1.8 Future Plans

Pecos County would like a new tower and repeater for the Iraan site; this would improve performance for both the Sheriff's Office and EMS. Pecos County would like to upgrade their radios for P25 operation.

15.1.9 Past Expenditures

Table 131 lists radio expenditures by Pecos County since 2007.

Table 131 – Pecos County Past Expenditures

Year	Project Description	Total Cost	Funding Source
2009	Upgrade EMS and fire subscribers and repeater	\$240,000	County bonds
2009	Upgrade SO repeaters, tower site and subscribers	\$300,000	BEST Grant
Total		\$540,000	

15.1.10 Future Funding

Pecos County did not identify future funding opportunities.

15.1.11 Assessment

Pecos County operates its VHF radio systems over a wide area. Multiple sites improve the system performance. The County operates conventional VHF channels that require improvements for acceptable countywide coverage.

Interoperability is generally sound within the county and with neighboring counties.

Coverage – Coverage problems experienced within the county are a major concern. Radio coverage along the I-10 corridor should be improved at the eastern and western edges of the county. In general, coverage is lacking throughout most of the county's geographic area. Using existing sites, a great number of additional sites will be necessary. Wide area coverage may be accomplished through the implementation of tower sites at high elevation mountain sites within the county.

Conventional Architecture – Implementation of the PBRICS sites in Pecos County and surrounding counties should improve radio coverage in the surrounding areas and significantly enhance coverage in the county. PBRICS implementation will continue over the next two to three years.

Subscribers – Subscriber radios utilized within Pecos County include a variety of Motorola radios. Most of the VHF units are narrowband capable and can be upgraded to P25. Units used by the VFD are not narrowband capable and will require replacement.

Narrowbanding – Most County radios are ready for narrowband operation. Most of the County radio licenses have been modified for narrowband operation; however, several licenses still require the addition of narrowband emissions.

Repeater Links – The need was identified to link the repeater sites together. L.R. Kimball notes that trunking or simulcast systems are necessary in order to link repeater sites in a way that does not require users to switch channels as they roam between tower sites. If additional channels are linked, a higher capacity solution will need to be developed in place of the current UHF links.

Interoperability – Interoperability within Pecos County is achieved primarily through the use of shared VHF frequencies. While most interoperability partners operate in the VHF band, connectivity is limited with 800 MHz systems. The population center within the Permian Basin region is located in the cities of Midland and Odessa, which operate 800 MHz trunking systems. Pecos County is also in the area to which 800 MHz users from El Paso may respond. If 800 MHz users respond to Pecos County, cross-band connectivity will depend on the localized coverage area provided by a deployable mobile gateway.

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16. REEVES COUNTY FINDINGS

Reeves County, with an estimated population of 11,046, is approximately 2,636 square miles. The city of Pecos is the main population center. Interstate highways I-10 and I-20 run through the county. Information for Reeves County was provided by Petro Communications.

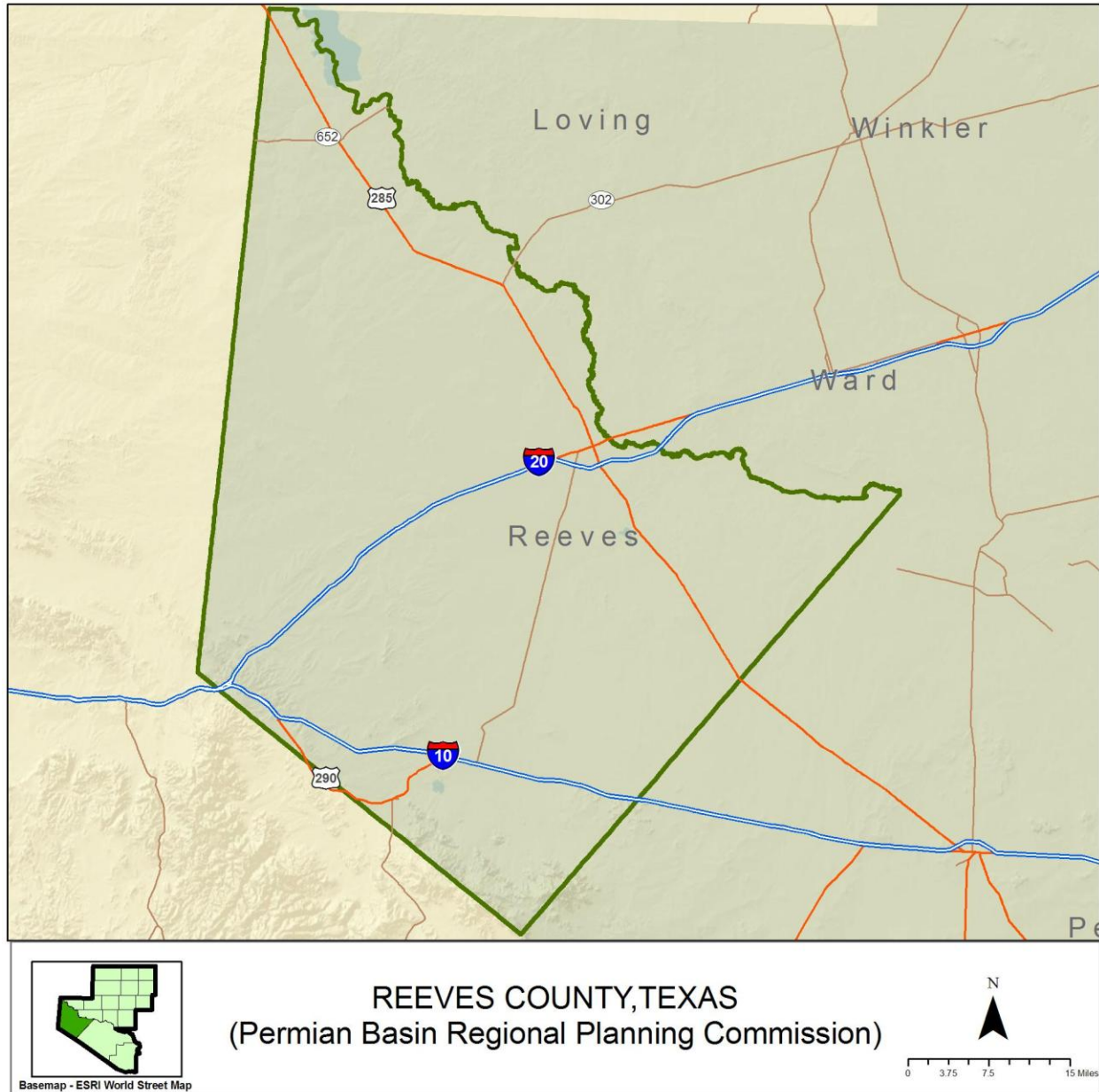


Figure 38 – Reeves County

16.1 Reeves County Radio System

16.1.1 System Description

Reeves County operates a VHF public safety radio system for the Sheriff's Office, the Pecos PD and County fire and EMS. The County has an ACU-1000 interoperability device that can be used as needed for any service. The system utilizes a total of five repeater frequencies that operate in the dual narrowband analog and digital P25 modes. Two repeaters are operated by the Sheriff's Office in geographically separated areas to provide countywide coverage. Two channels are utilized by the city of Pecos for police and fire operations. A fifth repeater channel is used for EMS operations. Separate PSAPs are operated by the Sheriff's Office and the police department. The dispatch centers include channels for both systems and are used as backups. The present equipment was installed in 2009. The Sheriff's Office subscribers are manufactured by Kenwood and the Pecos radios are manufactured by Motorola. All subscribers are capable of P25 operation.

16.1.2 User Agencies

Table 132 outlines the user groups that utilize the Reeves County radio system.

Table 132 – Reeves County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Reeves County Sheriff's Office	Law Enforcement	Ricky Herrera	432-447-3542	reevesem@nwol.net
Pecos PD	Law Enforcement	Kelly Davis	432-445-4912	
Fire	Fire	Freddy Contreras	432-445-2421	
EMS	EMS	Joe Tollett	432-445-2210	

Each department in Reeves County is dispatched by the Sheriff's Office. Radio sites are spread throughout the county.

16.1.3 Dispatch Facilities

Reeves County uses a Motorola MIP5000 console for primary dispatch of all agencies.

Table 133 summarizes the channels as they appear on the dispatch console.

Table 133 – Reeves County Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Reeves 1	Sheriff-Indian Peak
Reeves 2	Sheriff primary
Pecos PD	Police primary
Pecos FD	Fire primary

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Pecos EMS	EMS primary
Inter OP	Statewide Interoperability

16.1.4 Radio Sites

Tables 134 and 135 detail information provided by Reeves County regarding the radio sites.

Table 134 – Reeves County Radio Sites

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Reeves County	18 m SE of Pecos	County	30	N
Anadarko	12.8 M east of Mentone	Anadarko Petroleum	40	N
Pecos PD	172 Raul Flores Blvd, Pecos	Pecos PD	35	N
Industrial Comm #2	3 M NE of Barstow	Industrial Comm.	35	N

Table 135 – Reeves County Radio Shelters

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Reeves County	12x10	Fiberglass	1975		Y	Y
Anadarko	8x8	Portable metal	2006		N	N
Pecos PD	Storage room				Y	N
Industrial Comm #2	10x8	Portable metal	1976		Y	N

16.1.5 Radio Inventory

Tables 136 and 137 reflect fixed infrastructure and subscriber inventories for the Reeves County radio system.

Table 136 – Reeves County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Reeves County	Repeater	Daniels		TX: 155.6100
Anadarko	Repeater	Daniels		TX: 155.1825
Pecos PD	Repeater	Motorola	Quantar	TX: 155.5200
Industrial #2	Repeater	Motorola	RM1225	TX: 154.4150

Table 137 – Reeves County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Sheriff's Office	Kenwood		Mobile	20
	Kenwood		Portable	20
	Kenwood		Control Station	12
Pecos PD	Motorola	XTL2500	Mobile	20
	Motorola	XTS2500	Portable	36
	Motorola	XTL5000	Control Station	3
Fire	Motorola	XTL1500	Mobile	8
	Motorola	XTS1500	Portable	10
EMS	Motorola	XTL2500	Mobile	6
	Motorola	XTS1500	Portable	14
	Motorola	XTL5000	Control Station	1
Total Mobiles				54
Total Portables				80
Total Control Stations				16
Total				150

16.1.6 FCC Licenses

Table 138 – Reeves County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
WPMF842	1	30-54-32.5	104-3-45.7	155.6100 453.1625	FB2 FX2	9	65 30	100 150	11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E
	2	6.1 m control stations		154.7700 153.8600 158.8725	FX1		100 50 50	100	11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E
	3	40 km around location 1		154.7700 155.6100 458.1625	MO		100 100 50	100 100 150	11K2F2E 11K2F3E 8K10F1D 8K10F1E
	4	31-12-3	103-21-14	155.8275 458.1625	FB2 FX1	67 63	100 30	250 150	11K2F2E 11K2F3E 8K10F1D 8K10F1E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
	5	40 km around location 4		155.8275 153.8600	MO		110	110 160	11K2F2E 11K2F3E 8K10F1D 8K10F1E
	6	31-46-42	103-23-47	155.1825 453.1625	FB2 FX2	75	110 30	250 150	11K2F2E 11K2F3E 8K10F1D 8K10F1E
	7	40 km around location 6		155.1825 158.8725 458.1625	MO		110 110 50	160 160 150	11K2F2E 11K2F3E 8K10F1D 8K10F1E
KVJ920	1	31-23-54.7	103-30-38.2	155.3700 155.5200	FB FB2	31	100	185	20K0F3E
	2	25 km around location 1		154.9500 155.5200 158.9700	MO		100	200	20K0F3E

The active FCC licenses belonging to Reeves County can be found in **Appendix M**.

16.1.6.1 WPMF842

This is the primary license used by Reeves County. It has both VHF frequencies for public safety and UHF channels for local government and public works. This license has been modified for narrowband use.

16.1.6.2 KVJ920

This license is issued to the city of Pecos for the Pecos PD. It has not been modified for narrowband use.

16.1.7 System Coverage

Coverage for Reeves County is adequate, except in the western portion of the county which has little population. The areas along I-10 and I-20 have mobile coverage from sites in the adjacent counties.

Table 139 – Reeves County Predicted Coverage

Radio System Coverage	
Mobile Coverage	80%
Portable Coverage	75%
In-building Coverage	75%

The coverage map below depicts the predicted “talk out” portable coverage for Reeves County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

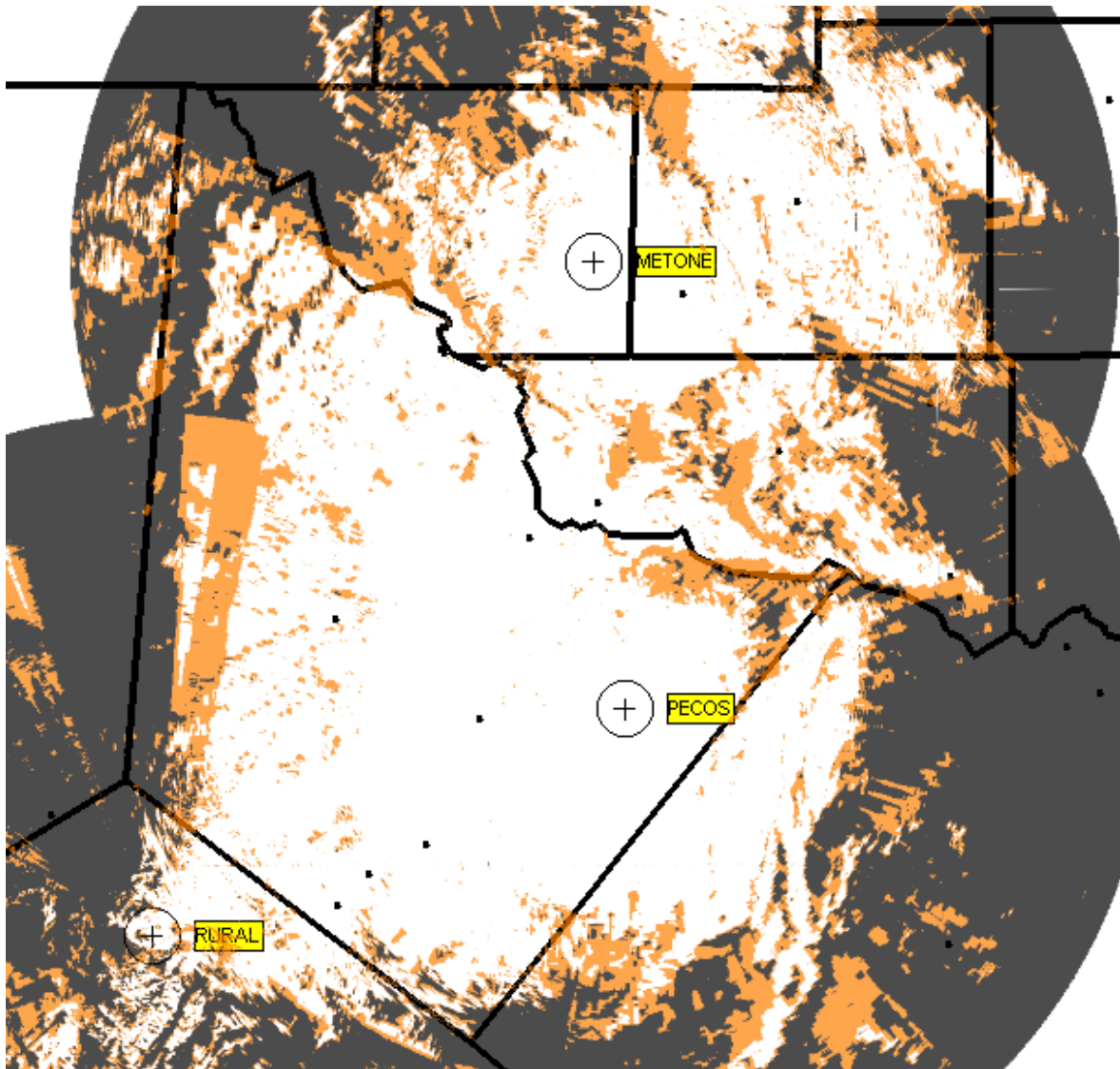


Figure 39 – Predicted Radio Coverage for Reeves County P25 Conventional

Radio coverage as reported by the users and from the predicted coverage agrees to a great degree. The locations of the radio sites enhance system performance through placement on high elevation mountain top sites.

16.1.8 Future Plans

The County would like to implement trunking on the PBRICS system when it becomes available. They cite the need for expanded radio coverage and the ability to implement mobile data.

16.1.9 Past Expenditures

Reeves County did not provide past radio expenditures.

16.1.10 Future Funding

Reeves County did not identify future funding opportunities.

16.1.11 Assessment

Reeves County operates on VHF analog radios for all public safety services. Interoperability is generally sound within the county and with neighboring counties.

Coverage – Coverage problems experienced within the county are a concern in the lightly populated western portion of the county. Coverage throughout the remainder of the county was reported as adequate. This agrees with predicted coverage levels.

Conventional Architecture – Implementation of the PBRICS sites in Reeves and surrounding counties should improve radio coverage in the surrounding areas. PBRICS implementation will continue over the next two to three years. The present system requires users to change channels as they roam throughout the coverage areas of the different radio sites. The regional trunking system will permit site-to-site roaming without channel switching.

Subscribers – Subscriber radios utilized within Reeves County include a variety of Motorola radios, which are narrowband capable and can be upgraded to P25. Specific models were not identified for the Sheriff's Office subscribers manufactured by Kenwood. Sheriff's Office repeater models were identified as manufactured by Daniels. Migration to the PBRICS will require P25 compliance for all subscribers.

Narrowbanding – Most radios are ready for narrowband operation. Pecos channels are currently operating in the dual narrowband analog and digital P25 modes. FCC licenses need to be updated to reflect narrowband and P25 operation. The Sheriff's Office licenses have been updated with narrowband and P25 emissions.

Interoperability – Interoperability within Reeves County is achieved primarily through the use of shared VHF frequencies. While most interoperability partners operate in the VHF band, connectivity is limited with 800 MHz systems. The population center within the Permian Basin region is located in the cities of Midland and Odessa, which operate 800 MHz trunking systems. Reeves County is also in the area to which 800 MHz users from El Paso may respond. If 800 MHz users respond to Reeves County, cross-band connectivity will depend on the localized coverage area provided by a deployable mobile gateway.

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17. TERRELL COUNTY FINDINGS

Terrell County, with an estimated population of 969, is approximately 2,358 square miles and is in the southeastern corner of the PRRPC region, bordering Mexico. The city of Sanderson is the only population center. Information for Terrell County was provided by Petro Communications.

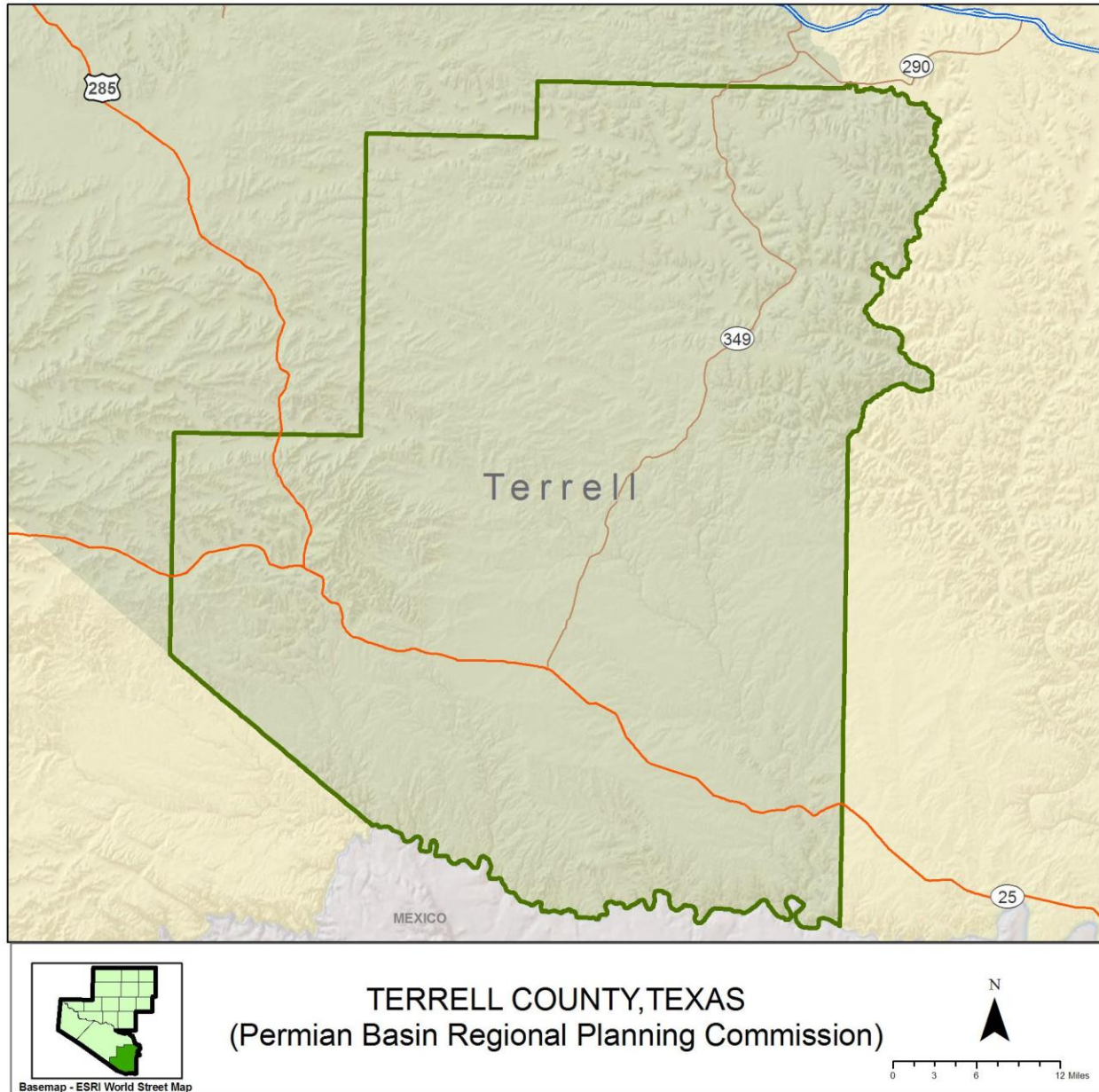


Figure 40 – Terrell County

17.1 Terrell County Radio System

17.1.1 System Description

Terrell County has a single VHF conventional analog repeater utilized for all public safety services. A separate base station is used for VFD and EMS paging. Mobile units have interoperability channels. The present equipment was installed in 2006. Repeater, console, and subscriber equipment is manufactured by Motorola.

17.1.2 User Agencies

Table 140 outlines the user groups that utilize the Terrell County radio system.

Table 140 – Terrell County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Sheriff	Law Enforcement	Bill Adams	432-345-2525	
VFD	Fire	Bobby Brotherton	432-345-2500	
EMS	EMS	Billie Garro	432-345-272	

All public safety users operate on the one county repeater.

17.1.3 Dispatch Facilities

Terrell County has one dispatch console in Sanderson, which handles dispatch for all services, and pages fire and EMS. The dispatch console is a Motorola CommandStar Lite.

Table 141 summarizes the channels as they appear on the dispatch console.

Table 141 – Terrell County Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Terrell	Sheriff, VFD, EMS primary
Paging	VFD and EMS paging

17.1.4 Radio Sites

Tables 142 and 143 detail information provided by Terrell County regarding the radio sites.

Table 142 – Terrell County Radio Site

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Big Bend Tower	NE of US 285 & 90	Big Bend Telephone	30	N

Table 143 – Terrell County Radio Shelter

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Big Bend Tower	8x8	Portable metal	1975		Y	N

17.1.5 Radio Inventory

Tables 144 and 145 reflect fixed infrastructure and subscriber inventories for the Terrell County radio system.

Table 144 – Terrell County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Big Bend	Repeater	Motorola	T5365 Quantar	155.655
	Base	Motorola	T5365 Quantar	

Table 145 – Terrell County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Sheriff's Office	Motorola	XTL2500	Mobile	8
	Motorola	XTS1500	Portable	8
	Motorola	XTL5000	Control Station	2
VFD	Motorola	Astro Spectra	Mobile	4
	Motorola	XTS1500	Portable	6
EMS	Motorola	Astro Spectra	Mobile	2
Total Mobiles				14
Total Portables				14
Total Control Stations				2
Total				30

17.1.6 FCC Licenses

Table 146 – Terrell County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
KVJ921	1	TERRELL, TX		154.8600 154.9500	MO		144	144	11K2F2E 11K2F3E 20K0F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
									1K10F1D 8K10F1E
	2	30-9-30.7	102-23-46.5	155.3700 155.6550	FB FB2	134	350	350	11K2F2E 11K2F3E 20K0F3E 1K10F1D 8K10F1E
	3	30-9-0.7	102-24-10.7	155.8125	FB2	92.4	125	250	11K2F2E 11K2F3E 8K10F1D 8K10F1E
	4	6.1 m control stations		153.8675	FX1		50	100	11K2F2E 11K2F3E 8K10F1D 8K10F1E
	5	40 km around location 3		155.8125 153.8675	MO		110	160	11K2F2E 11K2F3E 8K10F1D 8K10F1E

The active FCC license belonging to Terrell County can be found in **Appendix N**.

17.1.6.1 KVJ921

This license is the only license held by the County. It is a VHF license for multiple frequencies used by all public safety agencies in the county. The license has been modified for narrowband use.

17.1.7 System Coverage

Lack of coverage is the major issue reported by users. Mobile coverage estimates at 60 percent are a major concern as a large geographic portion of the county is without radio coverage.

Table 147 – Terrell County Predicted Coverage

Radio System Coverage	
Mobile Coverage	60%
Portable Coverage	40%
In-building Coverage	60%

The coverage map below depicts the predicted “talk out” portable coverage for Terrell County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

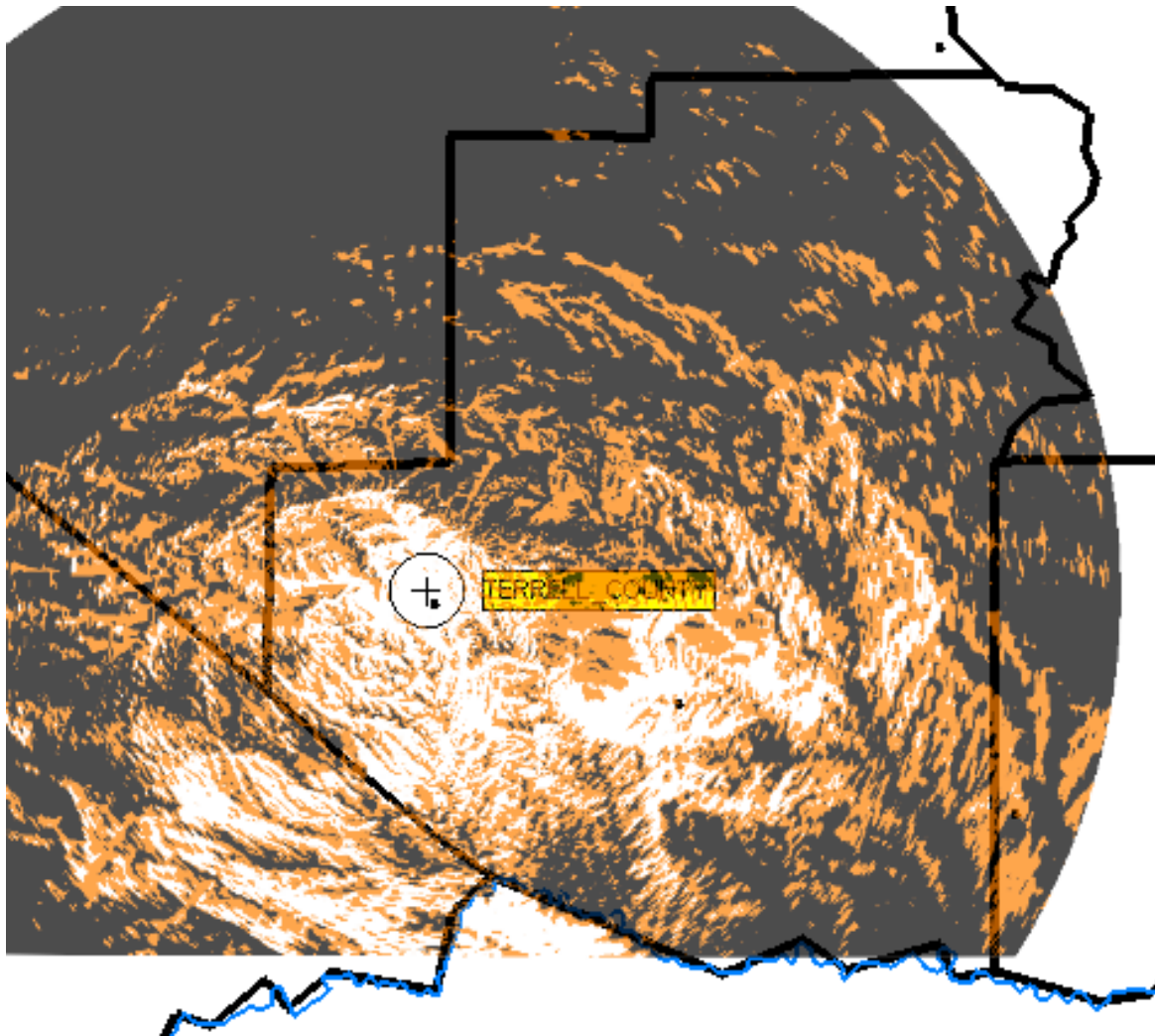


Figure 41 – Predicted Radio Coverage for Terrell County VHF Wideband

The terrain of Terrell County is very rugged and therefore radio coverage is poor as shown by the predicted coverage model. Coverage along the primary highways is acceptable. Propagation studies suggest that the present antenna is below the average terrain height. Coverage may be enhanced through implementation of a transmitter located on a mountain peak that is higher than the surrounding terrain.

17.1.8 Future Plans

Terrell County is planning to implement a new radio system independent of the PBRICS. The system will consist of two conventional repeaters that will be interfaced on a MOTOBRIDGE™ IP gateway. The system will provide primary operations for the Sheriff's Office, fire services, and EMS.

The County would like to add an additional repeater in the northeast portion of the county and also upgrade older radios.

17.1.9 Past Expenditures

Terrell County did not identify past radio expenditures.

17.1.10 Future Funding

Terrell County did not identify future funding opportunities.

17.1.11 Assessment

Terrell County operates on VHF analog radios for all public safety services. Due to the rough terrain and lack of roads, radio coverage is limited.

Interoperability is limited with shared channels in user radios. There is a need for interoperability with the Border Patrol and ICE as Terrell County borders Mexico.

Coverage – Coverage is the biggest problem on the present system, with coverage problems experienced throughout most of the county. Although the population density is low, there is still a public safety requirement.

Conventional Architecture – Implementation of the PBRICS sites in Sanderson should improve radio coverage and interoperability. PBRICS implementation will continue over the next two to three years. Radio sites on the PBRICS system should enhance coverage and provide the ability to roam between tower sites without switching channels.

Subscribers – Subscriber radios utilized within Terrell County include a variety of Motorola radios, which are narrowband capable and can be upgraded to P25. Astro Spectra radios are capable of P25 conventional operation, but will not operation in the P25 trunked mode.

Narrowbanding – Most radios are ready for narrowband operation, but will require reprogramming to operate in the narrowband mode. FCC licenses have been updated with narrowband emissions.

Interoperability – Interoperability within Terrell County is achieved primarily through the use of shared VHF frequencies. While most interoperability partners operate in the VHF band, connectivity is limited with 800 MHz systems. The population center within the Permian Basin region is located in the cities of Midland and Odessa, which operate 800 MHz trunking systems. Terrell County is also in the area to which 800 MHz users from El Paso may respond. If 800 MHz users respond to Terrell County, cross-band connectivity will depend on the localized coverage area provided by a deployable mobile gateway.

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18. UPTON COUNTY FINDINGS

Upton County, with an estimated population of 3,130, is approximately 1,242 square miles and is located on the eastern border of the PBRPC. It has two population centers: the cities of Rankin and McCamey. It is a relatively rural county and has some rough terrain that makes communications difficult. Information for Upton County was provided by Petro Communications.

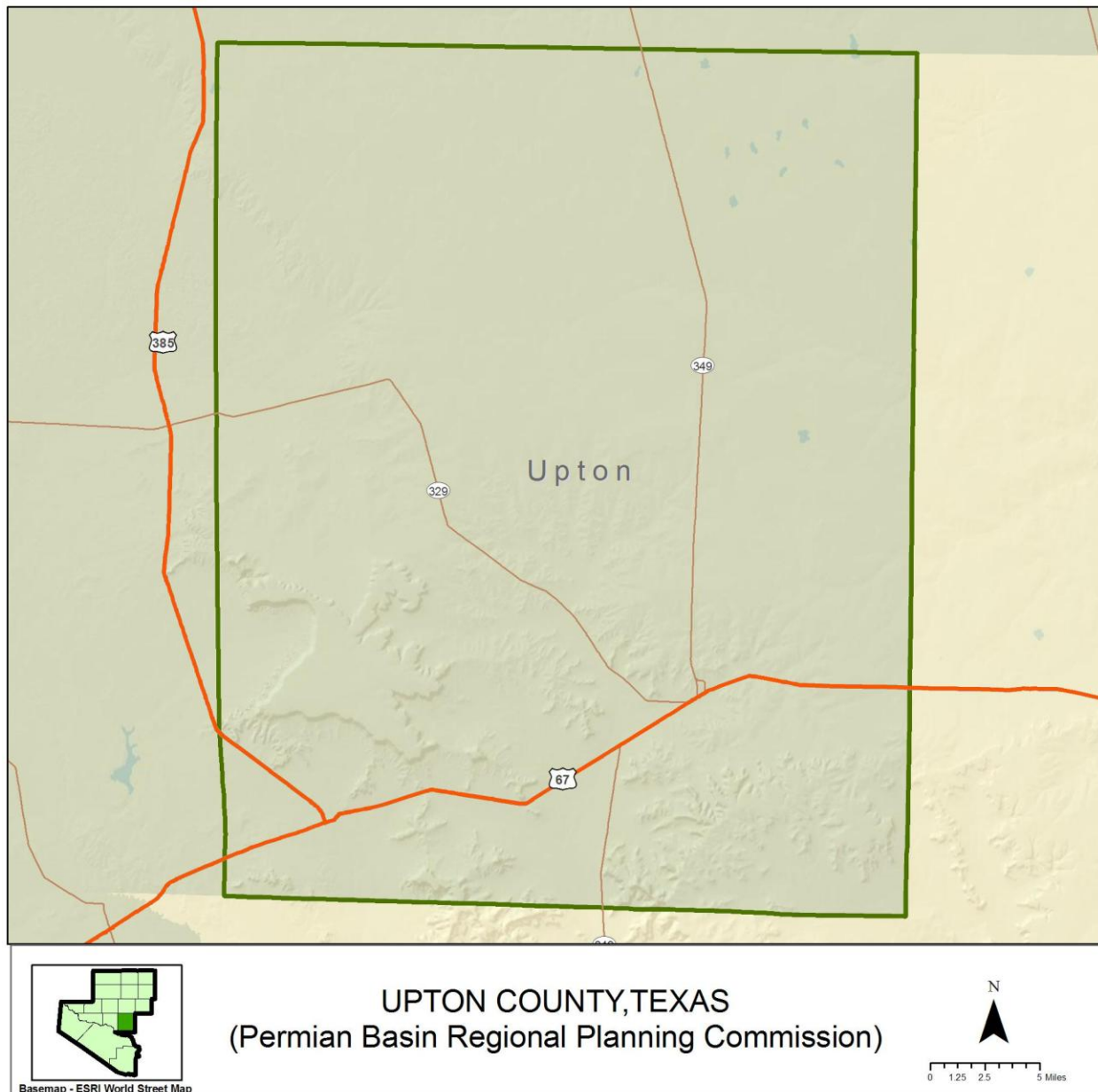


Figure 42 – Upton County

18.1 Upton County Radio System

18.1.1 System Description

Upton County operates a VHF conventional analog system. The system consists of a total of two repeaters and one simplex channel. Repeater channels are utilized by the Sheriff's Office and McCamey fire/EMS. The simplex station is used by the Rankin VFD. The station is located at a different transmitter location for a total of three radio sites. Equipment is manufactured by Motorola.

18.1.2 User Agencies

Table 148 outlines the user groups that utilize the Upton County radio system.

Table 148 – Upton County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Upton County Sheriff's Office	Law Enforcement	Dan Brown	432-693-2422	sheriff@uptoncotex.com

Upton County users are the Sheriff's Office, VFD and EMS.

18.1.3 Dispatch Facilities

Dispatch operations use a Motorola Command Star console.

Table 149 summarizes the channels as they appear on the dispatch console.

Table 149 – Upton County Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Upton County	Sheriff primary dispatch
McCamey Fire	McCamey Fire and EMS primary
Rankin Fire	Rankin Fire and EMS primary
Inter Op	Local and State Interoperability channels

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18.1.4 Radio Sites

Tables 150 and 151 detail information provided by Upton County regarding the radio sites.

Table 150 – Upton County Radio Sites

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
King Mtn Tower Sheriff's Office	10 M north of McCamey	Cap Rock Comm	30	N
King Mtn McCamey	10 M north of McCamey	Twin Cities Comm	35	N
Upton County Tower	1.2 M north of Rankin	Upton County	3	Y

Table 151 – Upton County Radio Shelters

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
King Mtn Tower Sheriff's Office	10 X18	Metal	1970		Y	N
King Mtn McCamey	10 X 18	Metal	1975		Y	N
Upton County Tower	8 X 8	Portable metal	1974		Y	N

18.1.5 Radio Inventory

Tables 116 and 117 reflect fixed infrastructure and subscriber inventories for the Upton County radio system.

Table 152 – Upton County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Upton Sheriff	Repeater	Motorola	Quantar	TX: 155.5500
McCamey Emergency Services	Repeater	Motorola	Quantar	TX: 154.4450
Rankin VFD	Base Station	Motorola	Quantar	TX: 153.7700

Table 153 – Upton County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Upton Sheriff's Office	Motorola	XTL2500	Mobile	8
	Motorola	Spectra	Mobile	4
	Motorola	XTS1500	Portable	10

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
	Motorola	XTL5000	Control Station	4
McCamey Emergency Services	Motorola	XTL2500	Mobile	4
	Motorola	Spectra	Mobile	5
McCamey	Motorola	XTL1500	Mobile	6
Rankin VFD	Motorola	Xt2500 Radius	Mobile	4
	Motorola	XTL2500	Mobile	6
	Motorola	XTS1500	Portable	8
Total Mobiles				37
Total Portables				18
Total Control Stations				4
Total				59

18.1.6 FCC Licenses

Table 154 – Upton County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
KNGH377	1	31-12-42.5	102-16-15.5	155.5500	FB2	122	100	83	20K0F3E
	2	31-13-26.5	101-56-30.5	154.8300 155.3700	FX1 FB	21	60 100	75 135	20K0F3E 16K0F3E
	3	31-8-26.5	102-13-55.5	154.8300 155.3700	FX1 FB	21	60 100	75 135	20K0F3E 16K0F3E
	4	31-7-12.5	102-13-5.5	154.8300	FX1	21	60	75	20K0F3E
	5	40 km around location 1		154.8300 154.9500 155.5500	MO		110	120	20K0F3E 16K0F3E
KKE471	1	31-14-14.5	101-56-31.5	37.1800	FB	61	300		20K0F3E
KNCJ824	1	31-13-19.5	102-16-27.5	154.4450	FB2	37	100	234	20K0F3E
	2	40 km around location 1		153.8300 154.4450	MO		50		20K0F3E
WNFI461	1	31-7-13.5	102-13-6.5	155.2800 155.3400	FB	21	60	75	20K0F3E
	2	64 km around location 1		155.2800 155.3400	MO		100		20K0F3E
WPMD406	1	31-9-20.5	102-12-8.5	155.1150	FB2	59	25	75	20K0F3E
	2	20 km around location 1		158.9550 155.1150 158.9550	FX1 MO MO	59	25	75	20K0F3E
WNAT424	1	31-14-9.5	101-56-33.5	153.7700	FB	46	350	750	20K0F3E
	2	64 km around location 1		153.7700	MO		80		20K0F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
				154.2800					

The active FCC licenses belonging to Upton County can be found in **Appendix O**.

18.1.6.1 KNGH377

This is the license for the primary Sheriff's Office dispatch and operations. This license has not been modified for narrowband use.

18.1.6.2 KKE471

This license covers VHF low band operation on 37.18 MHz. The license covers base station operations.

18.1.6.3 KNCJ824

This license is for the Upton County VFD. This license has not been modified for narrowband use.

18.1.6.4 WNFI461

This license covers base station operation 155.2800 MHz and 155.3400 MHz, which are assigned for nationwide operation in the medical pool. The channels are utilized by McCamey Hospital. The stations reflect wideband operation and must be updated with narrowband emissions prior to January 1, 2013.

18.1.6.5 WPMD406

This license covers operation on a single repeater frequency with associated 6.1 m control stations and mobile talk around. The channel is utilized by the water department. The stations reflect wideband operation and must be updated with narrowband emissions prior to January 1, 2013.

18.1.6.6 WNAT424

This license is for the Rankin VFD. This license has not been modified for narrowband use.

18.1.7 System Coverage

Users report that coverage is acceptable in the populated areas around McCamey and Rankin. It is poor in the rural areas.

Table 155 – Upton County Predicted Coverage

Radio System Coverage	
Mobile Coverage	90%
Portable Coverage	50%
In-building Coverage	50%

The coverage map below depicts the predicted “talk out” portable coverage for Upton County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

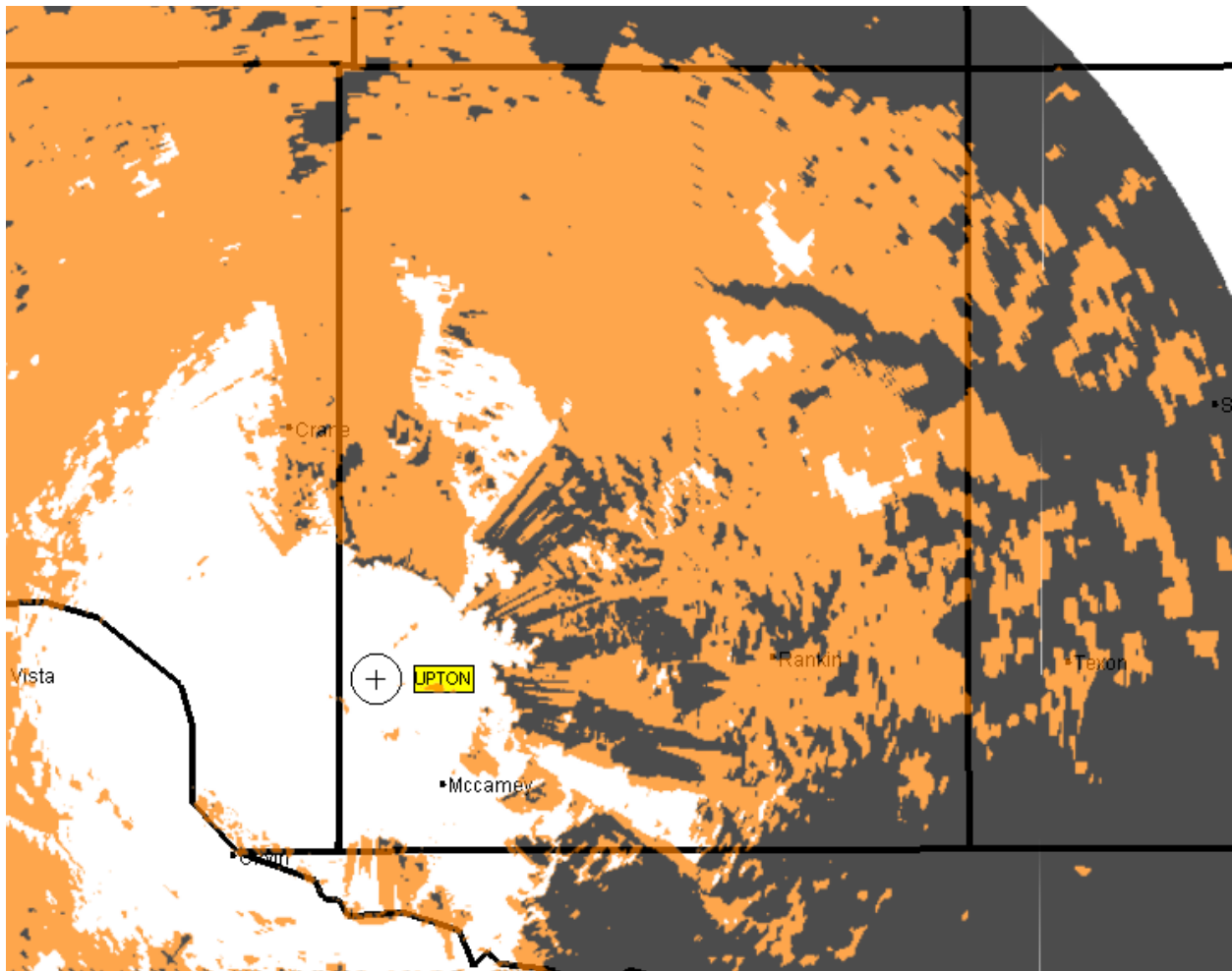


Figure 43 – Predicted Radio Coverage for Upton County Sheriff’s Office Wideband Analog

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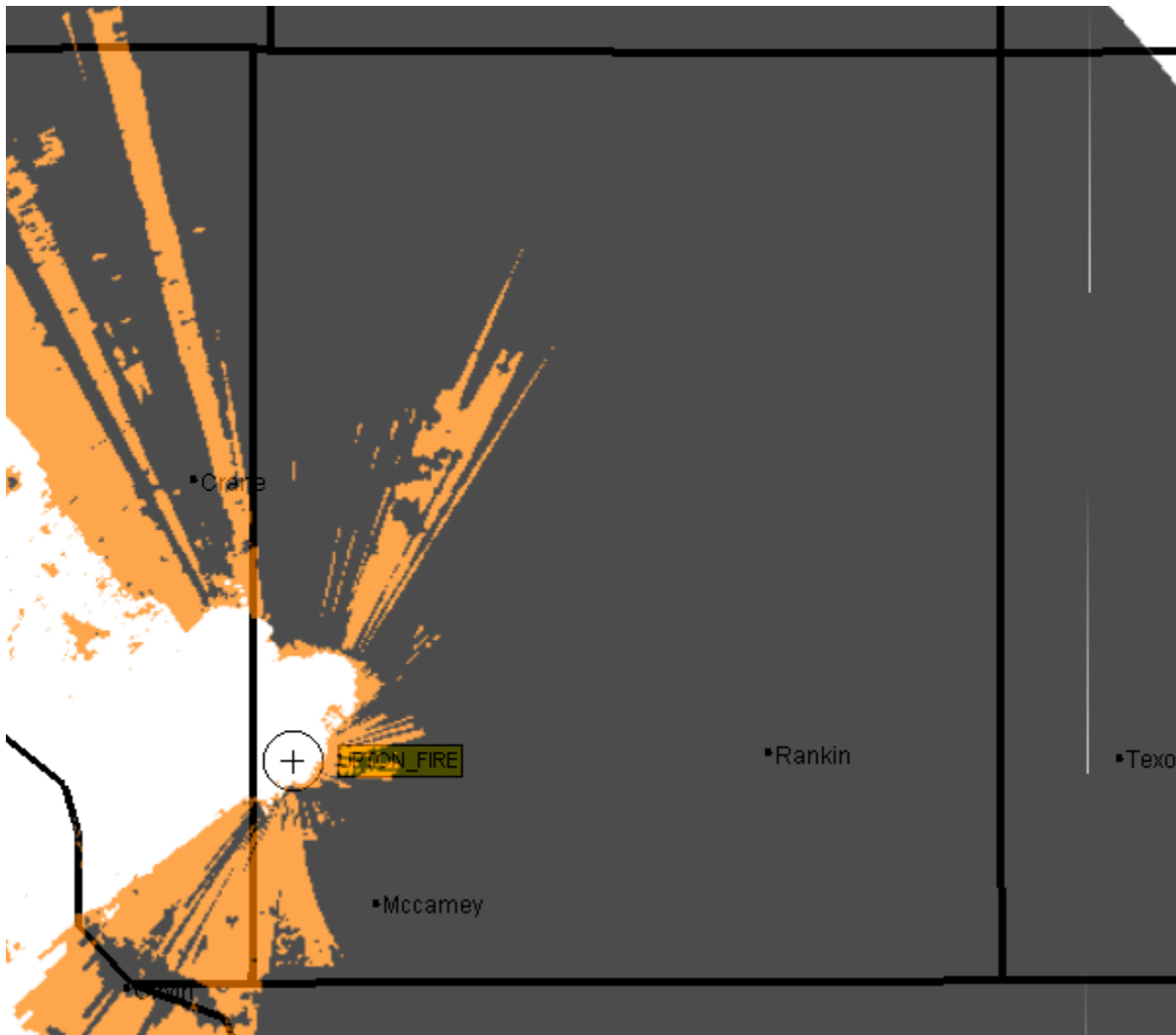


Figure 44 – Predicted Radio Coverage for Upton County Fire Wideband Analog

Coverage maps confirm that the terrain in Upton County limits coverage of the radios. The location of the transmitters in the southeast corner of the county limits coverage throughout most of the geographic area. Coverage is further impeded by challenging terrain and limited antenna height.

18.1.8 Future Plans

The only future plans discussed relate to improved coverage, especially for portables. The Sheriff's Office would like to add mobile data capabilities.

18.1.9 Past Expenditures

Table 156 lists radio expenditures by Upton County since 2007.

Table 156 – Upton County Past Expenditures

Year	Project Description	Total Cost	Funding Source
2008	Replaced County Tower	\$125,000	County funds
2009	New mobile radio	\$3,200	County funds
2010	Two mobile radios	\$6,400	Rankin VFD
Total		\$134,600	

18.1.10 Future Funding

Upton County did not identify future funding opportunities.

18.1.11 Assessment

Upton County operates on VHF analog radios for all public safety services. Interoperability is limited with shared channels in user radios. There is a need for interoperability with adjacent counties.

Coverage – Coverage problems experienced within the county are a major concern. Although the population density is low, there is still a public safety requirement. Coverage outside of Upton is limited throughout much of the county. Separate channels in the McCamey and Rankin areas provide expanded coverage in those areas.

Subscribers – Subscriber radios utilized within Upton County include a variety of Motorola radios. Most VHF units are narrowband capable and can be upgraded to P25. The Spectra and Radius radios will require replacement.

Narrowbanding – All radios reported on the inventory are capable of narrowband operation. Narrowbanding will primarily require the reprogramming of subscriber equipment and base stations. FCC licenses require updates to meet narrowband requirements.

Conventional Architecture – The present system requires multiple radio sites in the McCamey and Rankin areas. Introduction of additional radio sites to fill coverage gaps will further complicate coverage by requiring users to switch channels as they roam between tower sites. The PBRICS system should address these problems by permitting unit roaming between tower sites.

Interoperability – Interoperability within Upton County is achieved primarily through the use of shared VHF frequencies. While most interoperability partners operate in the VHF band, connectivity is limited with 800 MHz systems. The population center within the Permian Basin region is located in the cities of Midland and Odessa, which operate 800 MHz trunking systems. If 800 MHz users respond to Upton County, cross-band connectivity will depend in the localized coverage area provided by a deployable mobile gateway.

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19. WARD COUNTY FINDINGS

Ward County, with an estimated population of 10,528, is approximately 835 square miles. The city of Monahans is the main population center. There are three smaller cities along the I-20 corridor, which bisects the county from northeast to southwest. Information for Ward County was obtained from Petro Communications.

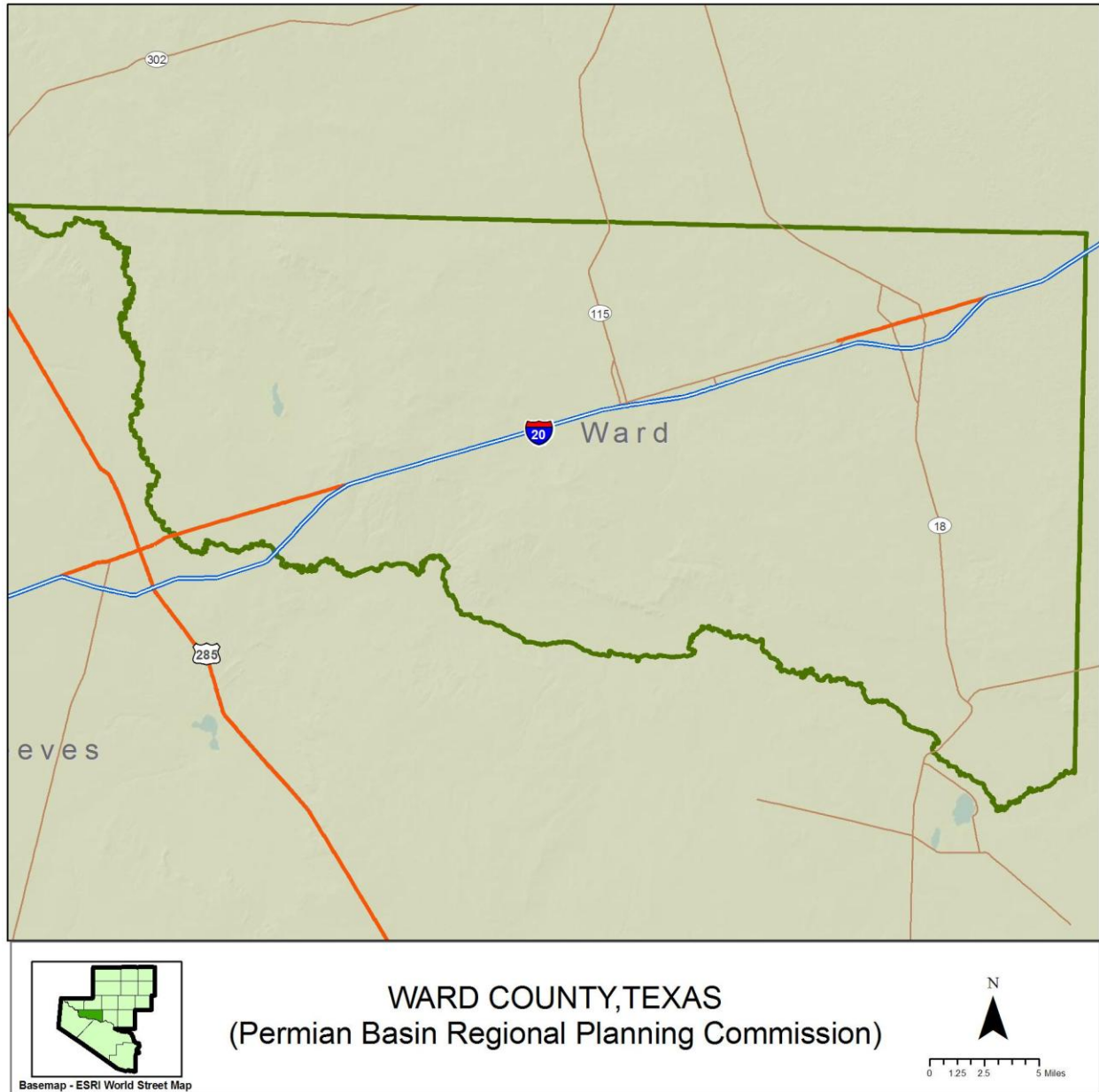


Figure 45 – Ward County

19.1 Ward County Radio System

19.1.1 System Description

Ward County and Monahans operate the public safety VHF communications systems. Ward County operates a single repeater station that is shared for Sheriff's Office and VFD operations. A separate repeater is used for EMS operations. The system was installed in 2008 and primarily utilizes Motorola equipment. Separate towers are utilized for the Sheriff's Office and EMS repeaters. Paging operations are maintained on the system.

19.1.2 User Agencies

Table 157 outlines the user groups that utilize the Ward County radio system.

Table 157 – Ward County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Ward County Sheriff's Office	Law	Mike Strickland	432-943-6703	
Barstow VFD	Fire	Alex Luna	432-445-7479	
Grandfalls VFD	Fire	JD Stocks	432-547-2320	
Wickett VFD	Fire	Norman Luckie	432-943-6766	
Ward EMS	EMS	Michael Enriquez	432-943-8622	

The Sheriff's Office, police and fire departments and EMS services all operate on the same system.

19.1.3 Dispatch Facilities

Ward County dispatches all services from a Motorola Command Star console at the Sheriff's Office.

Table 158 summarizes the channels as they appear on the dispatch console.

Table 158 – Ward County Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Ward	Sheriff primary and County VFD paging
Monahans	Police and City Fire primary
Inter Op	State interoperability channels

19.1.4 Radio Sites

Tables 159 and 160 detail information provided by Ward County regarding the radio sites.

Table 159 – Ward County Radio Site

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Ward County Tower	.9 km E of fm1219&120 Wickett	County	35	N

Table 160 – Ward County Radio Shelter

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Ward County Tower	8x8	Metal	1975		Y	N

19.1.5 Radio Inventory

Tables 161 and 162 reflect fixed infrastructure and subscriber inventories for the Ward County radio system.

Table 161 – Ward County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Ward County Sheriff's Office	Repeater	Motorola	Quantar	155.79
Ward County EMS	Repeater	Motorola	Quantar	150.805

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Table 162 – Ward County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Sheriff's Office	Motorola	XTL2500	Mobile	14
	Motorola	XTS1500	Portable	14
	Motorola	XTL5000	Control Station	4
VFD	Motorola	XTL2500	Mobile	4
	Motorola	Maratrac Syntor	Mobile	16
	Motorola	XTS1500	Portable	6
EMS	Motorola	XTL2500	Mobile	4
	Motorola	XTS1500	Portable	10
	Motorola	CM300	Control Station	1
Total Mobiles				38
Total Portables				30
Total Control Stations				5
Total				73

19.1.6 FCC Licenses

Table 163 – Ward County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
KMA934	1	31-35-32.5	102-53-22.6	154.8600	FB	14	50	158	20K0F2E
	2	31-33-54.5	102-59-22.6	155.7900	FB2	99	350	441	20K0F2E
	3	6.1 m control stations		154.7250	FX1		50	158	20K0F2E
	4	80.5 km around location 1		154.7250 154.8600 154.9500	MO		120	300	20K0F3E
	5	31-34-38	102-53-18	155.1450 155.8650	FB	10	100	398	20K0F2D 20K0F3E
	6	40 km around location 5		155.1450 155.8650	MO		100	100	20K0F2D 20K0F3E
WPMD526	1	31-33-54.5	102-59-22.6	154.1600	FB2	61	100	172	20K0F3E
	2	31-35-30.5	102-53-19.6	150.8050 154.1600	FX1	12	10	30	20K0F3E
	3	40 km around location 1		150.8050 154.1600	MO		35		20K0F3E

The active FCC licenses belonging to Ward County can be found in **Appendix P**.

19.1.6.1 KMA934

This is the Sheriff's Office license, which covers the dispatch repeater, car-to-car and the County public works radios. The license has not been modified for narrowband use.

19.1.6.2 WPMD526

This is the County fire and EMS license. It is a VHF licensee and has not been modified for narrowband use.

19.1.7 System Coverage

Countywide coverage is limited, but performance in Monahans is very good.

Table 164 – Ward County Predicted Coverage

Radio System Coverage	
Mobile Coverage	60%
Portable Coverage	40%
In-building Coverage	50%

The coverage map below depicts the predicted “talk out” portable coverage for Ward County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

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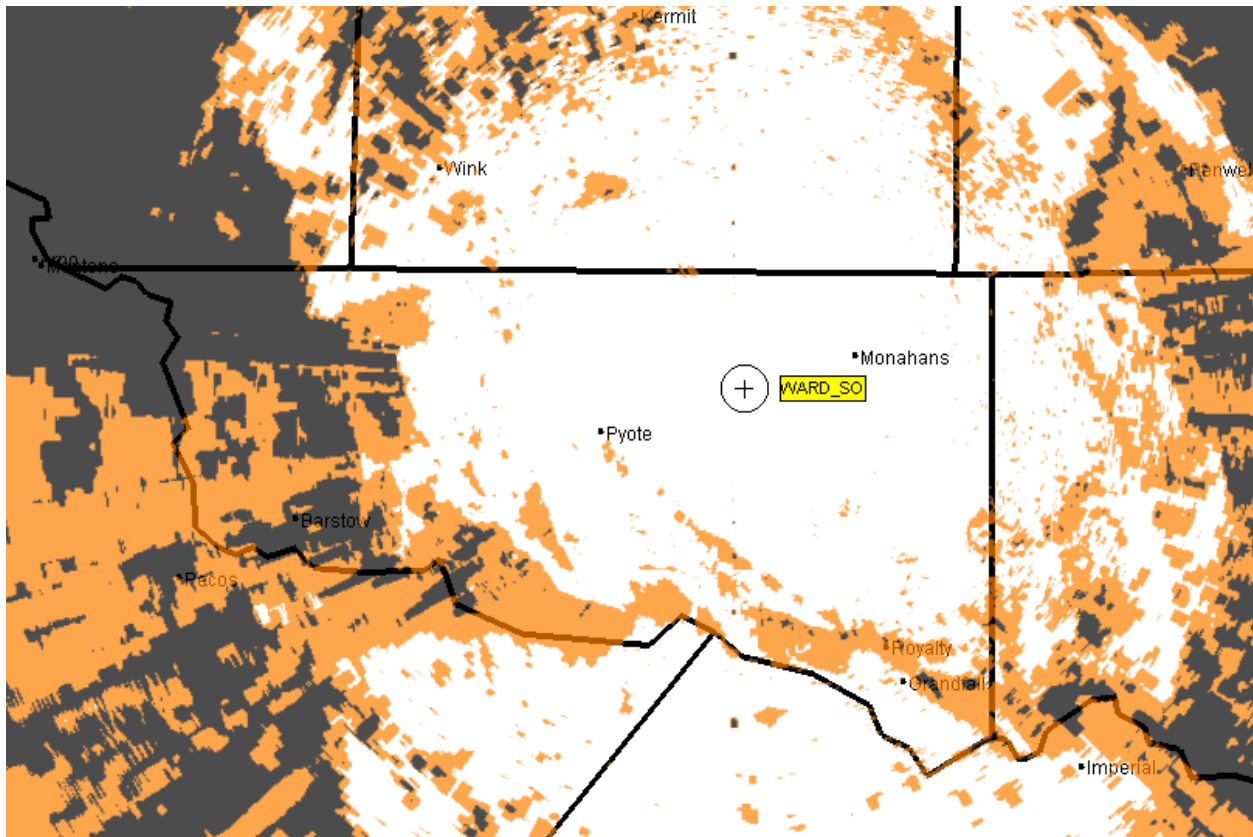


Figure 46 – Predicted Radio Coverage for Ward County Sheriff's Office Wideband Analog

Coverage is good in the eastern populated areas of the county. Coverage in the western portion of the county and the western part of I-20 needs improvement. Coverage in the western portion of the county is limited by challenging terrain.

19.1.8 Future Plans

The County has plans to upgrade radios to P25 and add mobile data capabilities.

19.1.9 Past Expenditures

Ward County did not provide past radio expenditures.

19.1.10 Future Funding

Ward County did not identify future funding opportunities.

19.1.11 Assessment

Ward County operates its VHF radio systems over a wide area. The addition of the equipment in Monahans helps to improve the system performance.

Coverage – Coverage problems experienced within the County are a concern. Radio coverage along I-20 in the western portion of the county should be improved. Although no funding has been identified, users have plans to add channels and repeaters to improve coverage. Coverage in the western portion of the county is complicated by challenging terrain.

Subscribers – Subscriber radios utilized within Ward County include a variety of Motorola radios. Most of the VHF units are narrowband capable and can be upgraded to P25. County Fire does have some radios that are not capable of narrowbanding and will require replacement.

Narrowbanding – Most radios are ready for narrowband operation with the exception of some radios used by VFD.

Conventional Architecture – The present system utilizes a single radio site to provide coverage throughout the county. Introduction of additional radio sites to fill coverage gaps will further complicate coverage by requiring users to switch channels as they roam between tower sites. The PBRICS system should address these problems by permitting unit roaming between tower sites.

Interoperability – Interoperability within Ward County is achieved primarily through the use of shared VHF frequencies. While most interoperability partners operate in the VHF band, connectivity is limited with 800 MHz systems. The population center within the Permian Basin region is located in the cities of Midland and Odessa, which operate 800 MHz trunking systems. If 800 MHz users respond to Ward County, cross-band connectivity will depend on the localized coverage area provided by a deployable mobile gateway.

19.2 Monahans Radio System

19.2.1 System Description

Ward County and Monahans operate the public safety VHF communications systems. The city of Monahans operates two VHF conventional repeater channels. The first channel is used for primary police and fire dispatch and the second channel is used for fire tactical operations. The system operates in the analog mode. The present repeater equipment was installed in 2002.

19.2.2 User Agencies

Table 165 outlines the user groups that utilize the Monahans radio system.

Table 165 – Monahans User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Monahans PD	Law	Orlando Arona	432-943-3254	
Monahans FD	Fire	Billy Riley	432-943-2100	

19.2.3 Dispatch Facilities

Monahans PD dispatches using a Motorola Command Star console.

Table 166 summarizes the channels as they appear on the dispatch console.

Table 166 – Monahans Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Monahans	Police and Fire primary
Monahans Fire	Fire tactical
Ward	Sheriff primary
EMS	EMS primary
City PW	City Public Works

19.2.4 Radio Sites

Tables 167 and 168 detail information provided by Monahans regarding the radio sites.

Table 167 – Monahans Radio Site

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Monahans Water Tower	801 S. Faye Street	City of Monahans	40	N

Table 168 – Monahans Radio Shelter

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Monahans Water Tower	Cabinet		1999		N	N

19.2.5 Radio Inventory

Tables 169 and 170 reflect fixed infrastructure and subscriber inventories for the Monahans radio system.

Table 169 – Monahans Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Monahans PD	Repeater	Motorola	MTR2000	154.860

Table 170 – Monahans Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Monahans PD	Motorola	XTL2500	Mobile	14
	Motorola	XTS2500	Portable	16
	Motorola	XTL5000	Control Station	4
Monahans FD	Motorola	XTL1500/2500	Mobile	12
	Motorola	XTS1500/2500	Portable	12
	Motorola	XTL5000	Control Station	1
Total Mobiles				26
Total Portables				28
Total Control Stations				5
Total				59

19.2.6 FCC Licenses

Table 171 – Monahans FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
WNKN391	1	31-35-40.2	102-53-24	155.3700	FB	32.3	40	108	20K0F3E
	2	31-35-8.5	102-53-18.6	154.8600	FB2	47	45	100	20K0F3E
	3	6.1 m control stations		158.9400	FX1		40		20K0F3E
	4	24 km around location 1		154.8600 154.9500	MO		100 40	38	20K0F3E
	5	24 km around location 2		158.9400	MO		100		20K0F3E
KB27997	1	11 MIRA MONAHANS TX		458.0625 458.2625	MO		2		20K0F9W
KKQ524	1	VIC: MONAHANS TX		153.5300	MO		350		20K0F3E
	2	31-35-7.5	102-53-31.6	153.5300	FB	47	250		20K0F3E
WPYS902	1	31-35-35	102-53-36	158.8050	FB2	32.3	100	100	20K0F3E
	2	40 km around location 1		158.8050 153.9500	MO		35	35	20K0F3E
	3	6.1 m control stations		153.9500	MO		30	30	20K0F3E

The active FCC licenses belonging to Monahans can be found in **Appendix P**.

19.2.6.1 WNKN391

This license covers the primary repeater channel for the Monahans PD. The license also covers fixed operation on TXLAW2 and mobile operation on TXLAW1. The license has not been updated for narrowband use.

19.2.6.2 KB27997

This license covers the operation of two UHF mobile-only frequencies. The channels are licensed for low power operation. The use of the channels is unknown. The license has not been updated for narrowband use.

19.2.6.3 KKQ524

This license covers the operation of a VHF simplex base station. The channel appears as MonSim in Ward County radios. The license has not been updated for narrowband use.

19.2.6.4 WPYS902

This license is for the Monahans FD and EMS. It is for VHF use and has not been modified for narrowband use.

19.2.7 System Coverage

Coverage in Monahans is very good. The transmitter location is centrally located within the city and provides adequate coverage throughout the primary response area.

Table 172 – Monahans Predicted Coverage

Radio System Coverage	
Mobile Coverage	100%
Portable Coverage	90%
In-building Coverage	80%

The coverage map below depicts the predicted “talk out” portable coverage for Ward County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

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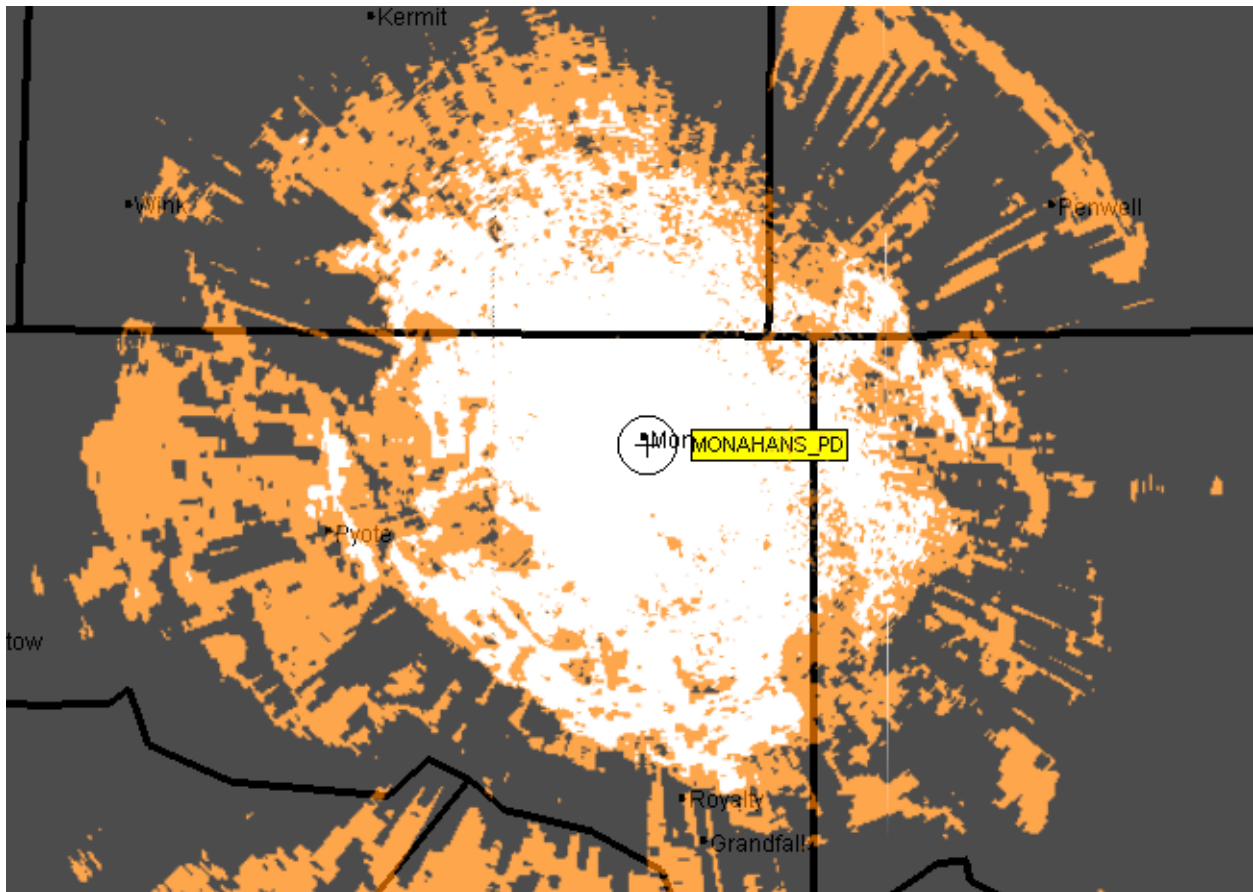


Figure 47 – Predicted Radio Coverage for Monahans PD VHF Wideband

Coverage is very good within the City. It does not extend to the western portion of the county.

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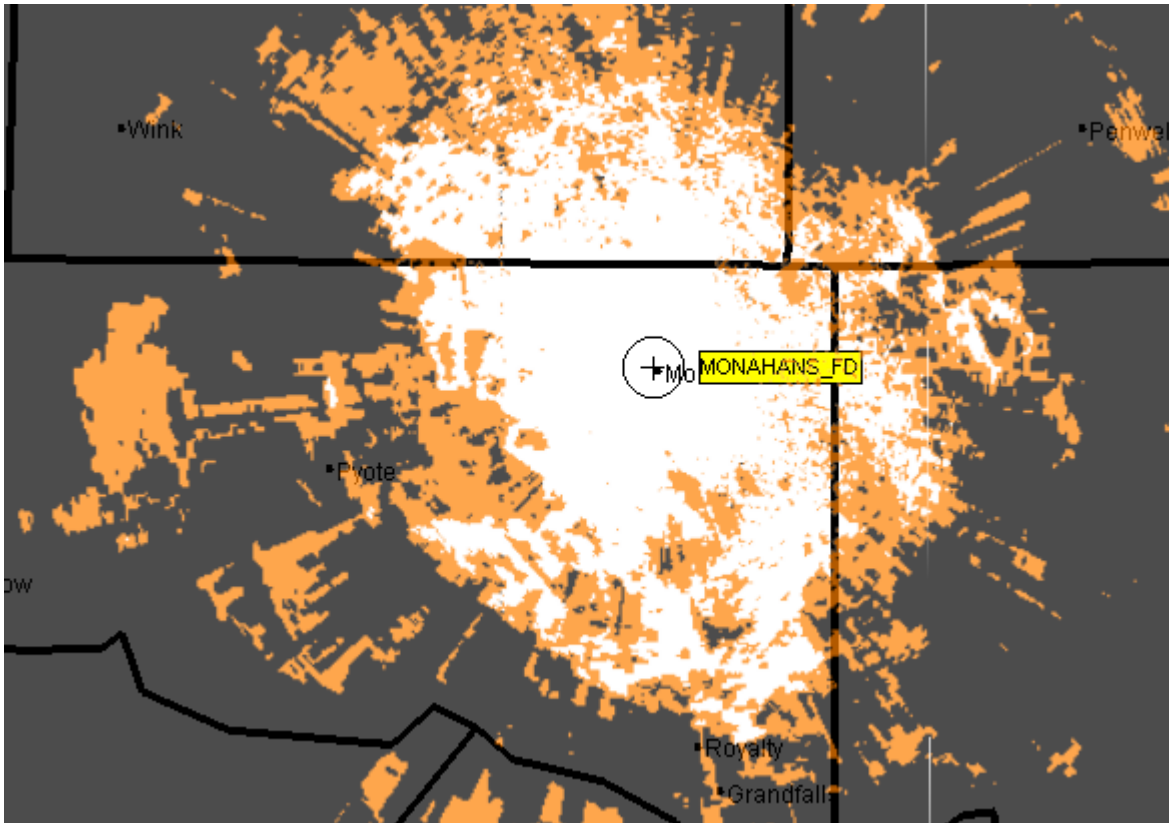


Figure 48 – Predicted Radio Coverage for Monahans FD VHF Wideband

Coverage in the Monahans area is good. The radio system only provides coverage for approximately half of the county.

19.2.8 Future Plans

The City has plans to upgrade radios to P25, add mobile data capabilities, and upgrade the console to an IP based console.

19.2.9 Past Expenditures

Table 173 lists radio expenditures by Monahans since 2007.

Table 173 – Monahans Past Expenditures

Year	Project Description	Total Cost	Funding Source
2010	Monahans – added radios	\$10,000	City funds
	Total	\$10,000	

19.2.10 Future Funding

Monahans did not identify future funding opportunities.

19.2.11 Assessment

The city of Monahans system provides adequate coverage and capacity in the Monahans area and generally meets the needs of the users.

Coverage – Coverage on the Monahans system is adequate in the Monahans area, but limited throughout the western portions of Ward County.

Subscribers – Subscriber equipment utilized by Monahans is all P25 capable and can be upgraded to support trunking on the PBRICS system.

Narrowbanding – All subscriber radios used by Monahans are narrowband capable. Meeting narrowbanding criteria will require reprogramming all VHF channels in the narrowband mode and updating FCC licenses with narrowband emissions.

P25 – The City stated a desire to upgrade to P25. The current MTR2000 repeater will not support P25 operation and will need to be replaced to support P25 operation. The City will utilize the PBRICS on an operational basis as its subscriber radios are upgraded, along with Ward County public safety disciplines.

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20. WINKLER COUNTY FINDINGS

Winkler County, with an estimated population of 6,772, is approximately 841 square miles and is located adjacent to New Mexico on the western side of the PBRPC. The county has two primary population centers: the cities of Kermit and Wink. Information for Winkler County was obtained from Petro Communications.

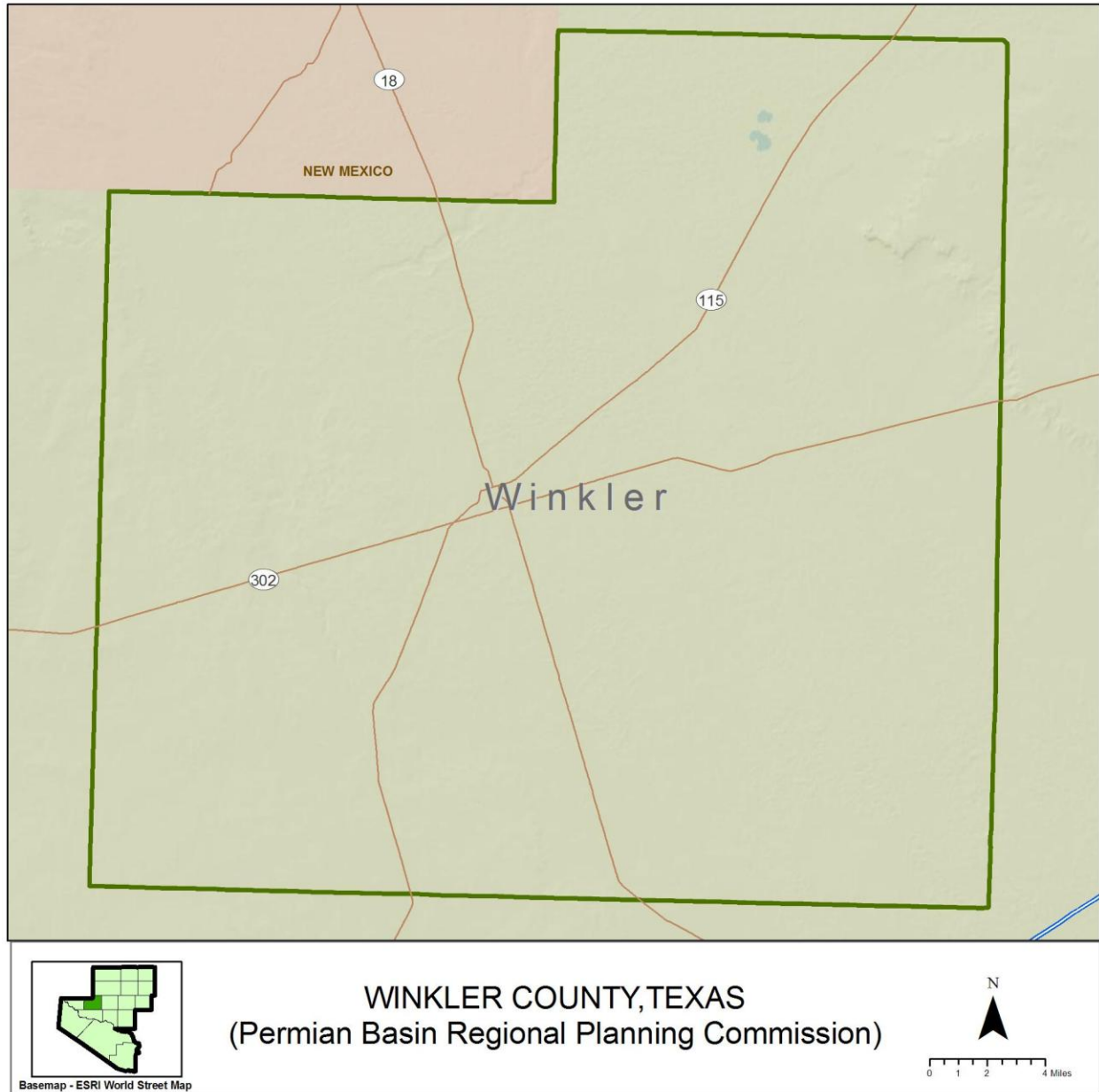


Figure 49 – Winkler County

20.1 Winkler County Radio System

20.1.1 System Description

The radio systems in Winkler County are run by the Sheriff's Office and the Kermit PD. All operations are on the VHF band in the conventional analog mode. Transmitters are located in the cities of Kermit and Wink. The Sheriff's Office maintains its own PSAP and operates on a single repeater channel. The Sheriff's Office repeater equipment was installed in 2006.

The city of Kermit operates its own PSAP with a total of five repeater channels used by the Kermit PD, public works, fire, EMS, and Wink FD respectively. Repeater equipment was installed in 2005.

Radio equipment for both systems is primarily Motorola. Subscriber equipment is all capable of P25 operation.

20.1.2 User Agencies

Table 174 outlines the user groups that utilize the Winkler County radio system.

Table 174 – Winkler County User Agencies

Agency Name	Agency Category (Law Enforcement, Fire, EMS, etc.)	Point of Contact		
		Name	Phone Number	E-mail
Sheriff's Office	Law Enforcement	Robert Roberts	432-586-3461	wco@apex2000.net
EMS	EMS	Robert Roberts	432-586-3461	wco@apex2000.net
Kermit Police	Law Enforcement	Scott Williams	432-586-2577	pchief@cityofkermit.com
Kermit FD	Fire	Odie Marshall	432-566-3130	
Wink PD	Law Enforcement	Sherrell Glenn	432-527-3413	
Wink FD	Fire	Robbie Wolf	432-527-3333	
Winkler EMS	EMS	James Everett	432-586-2055	

20.1.3 Dispatch Facilities

Winkler County does not use a radio console. The Sheriff's Office has two tone remotes controlling the repeater. The Kermit PD operates a Motorola Command Star console and dispatches for the fire and EMS services.

Table 175 summarizes the channels as they appear on the dispatch console.

Table 175 – Kermit PD Dispatch Console Channels

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Kermit PD	Police primary
Public Works	Kermit Public Works

Channel Names Appearing on Consoles	Description (e.g., Sheriff Primary Dispatch, Volunteer Fire Tactical, etc.)
Fire	Kermit FD primary
EMT	Winkler EMS
Wink FD	Wink FD

20.1.4 Radio Sites

Tables 176 and 177 detail information provided by Winkler County regarding the radio sites.

Table 176 – Winkler County Radio Sites

Site Name	Address	Tower Owner	Tower Age	Available for Expanded Use (Y/N)
Winkler	1.1 M NE of Courthouse	County	40	N
Kermit Water Tower	Tornillo & Bryan Street	City of Kermit	50	N
Kermit Water Tower 2	East Ave & Midland Ave	City of Kermit	40	N
Apache Tower	299 Stanolind Road	Apache Corp.	35	N
Wink City Hall	213 Hendricks Blvd	City of Wink	50	N

Table 177 – Winkler County Radio Shelters

Site Name	Shelter Dimension (Feet)	Shelter Construction (Concrete, wood, etc.)	Year Shelter Installed	UPS, Generator, or Both	HVAC Systems (Y/N)	Room for Additional Systems (Y/N)
Winkler	Outdoor cabinet				N	N
Kermit Water Tower	Outdoor cabinet				N	N
Kermit Water Tower 2	Outdoor cabinet				N	N
Apache Tower	8x8	Portable Metal	1975		Y	N
Wink City Hall	In PD Office				Y	N

20.1.5 Radio Inventory

Tables 178 and 179 reflect fixed infrastructure and subscriber inventories for the Winkler County radio system.

Table 178 – Winkler County Fixed Radio Equipment

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Winkler	Repeater	Motorola	Quantar	
Kermit Water Tower	Repeater	Motorola	Quantar	TX: 155.7150
Kermit water tower 2	Base	Motorola	MTR2000	TX: 158.7450

Owning Agency	Equipment Type (Repeater, combiner, etc.)	Equipment Manufacturer	Equipment Model	Frequency
Apache Tower	Repeater	Motorola	Quantar	TX: 154.3850
Wink City Hall	Base	Motorola	XTL5000	TX: 154.9800

Table 179 – Winkler County Subscriber Radio Equipment

Owner Agency	Subscriber Manufacturer	Subscriber Model	Portable, Mobile or Control Station	Quantity
Sheriff's Office	Motorola	XTL2500	Mobile	12
	Motorola	XTS1500	Portable	12
	Motorola	XTL5000	Control Station	2
Kermit PD	Motorola	XTL2500	Mobile	12
	Motorola	XTS1500	Portable	14
	Motorola	XTL5000	Control Station	3
Kermit FD	Motorola	XTL2500/100	Mobile	10
	Motorola	XTS1500	Portable	10
Wink PD	Motorola	XTL2500	Mobile	4
	Motorola	XTS1500	Portable	4
Wink FD	Motorola	XTL2500	Mobile	8
	Motorola	XTS1500/2500	Mobile	8
	Motorola	XTL500	Control Station	2
Winkler EMS	Motorola	XTL5000	Mobile	4
	Motorola	XTS1500	Portable	10
Total Mobiles				58
Total Portables				50
Total Control Stations				7
Total				115

20.1.6 FCC Licenses

Table 180 – Winkler County FCC Licenses

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
KNBV938	1	WINKLER COUNTY TX		154.7550 154.9500	MO		100		20K0F3E
	2	31-52-13.5	103-5-1.6	155.3700 155.6400	FB FB2	76	100 300		20K0F3E
KNGD536	1	25 MIRA KERMIT TX		154.0400	MO		110		20K0F3E
	2	31-52-4.5	103-5-49.6	154.0400	FB	24	80		20K0F3E

Call Sign	Location	Latitude (N)/ Area of Operation	Longitude (W)	Frequencies (MHz)	Station Class	Antenna Height (m)	Output Power (W)	ERP (W)	Emission
WPNW778	1	31-51-16.5	103-5-48.6	155.7150	FB2	55	100	125	20K0F3E
	2	40 km around location 1		150.7750 155.7150	MO		75	81	20K0F3E
WPJG913	1	31-42-2.5	103-9-31.6	154.1750 154.3850	FB FB2	12	110	275 120	11K2F3E 20K0F3E
	2	24 km around location 1		153.8900 154.1750 154.3850	MO		100	100	11K2F3E 20K0F3E
	3	31-44-59.4	103-9-31.5	154.3850	FB2	92	110	200	11K2F3E 20K0F3E
	4	40 km around location 3		153.8900 154.3850	MO		100	100	11K2F3E 20K0F3E
	5	6.1 m control stations		153.8900	FX1		40	55	11K2F3E 20K0F3E

The active FCC licenses belonging to Winkler County can be found in **Appendix Q**.

20.1.6.1 KNBV938

This is the Sheriff's Office license. The primary repeater operates on 155.640 MHz from just outside Kermit. The license reflects wideband operation and must be updated with narrowband emissions prior to January 1, 2013.

20.1.6.2 KNGD536

This license covers operation on the simplex frequency 154.0400 MHz. The license holder is the Winkler County Courthouse. The license reflects wideband operation and must be updated with narrowband emissions prior to January 1, 2013.

20.1.6.3 WPNW778

This is a County license. It is used for EMS services on 155.715 MHz.

20.1.6.4 WPJG913

The city of Wink uses this license for its base station on 154.385 MHz.

20.1.7 System Coverage

According to reports, coverage for mobiles is good for most of the County. The areas of concern are the northeast along Route 115 and the northwest where the county is adjacent to New Mexico.

Table 181 – Winkler County Predicted Coverage

Radio System Coverage	
Mobile Coverage	85%
Portable Coverage	75%
In-building Coverage	75%

The coverage map below depicts the predicted “talk out” portable coverage for Winkler County. The map displays the strongest signal strength from all conventional tower sites. White indicates satisfactory coverage, orange indicates marginal coverage, and gray indicates limited to no coverage.

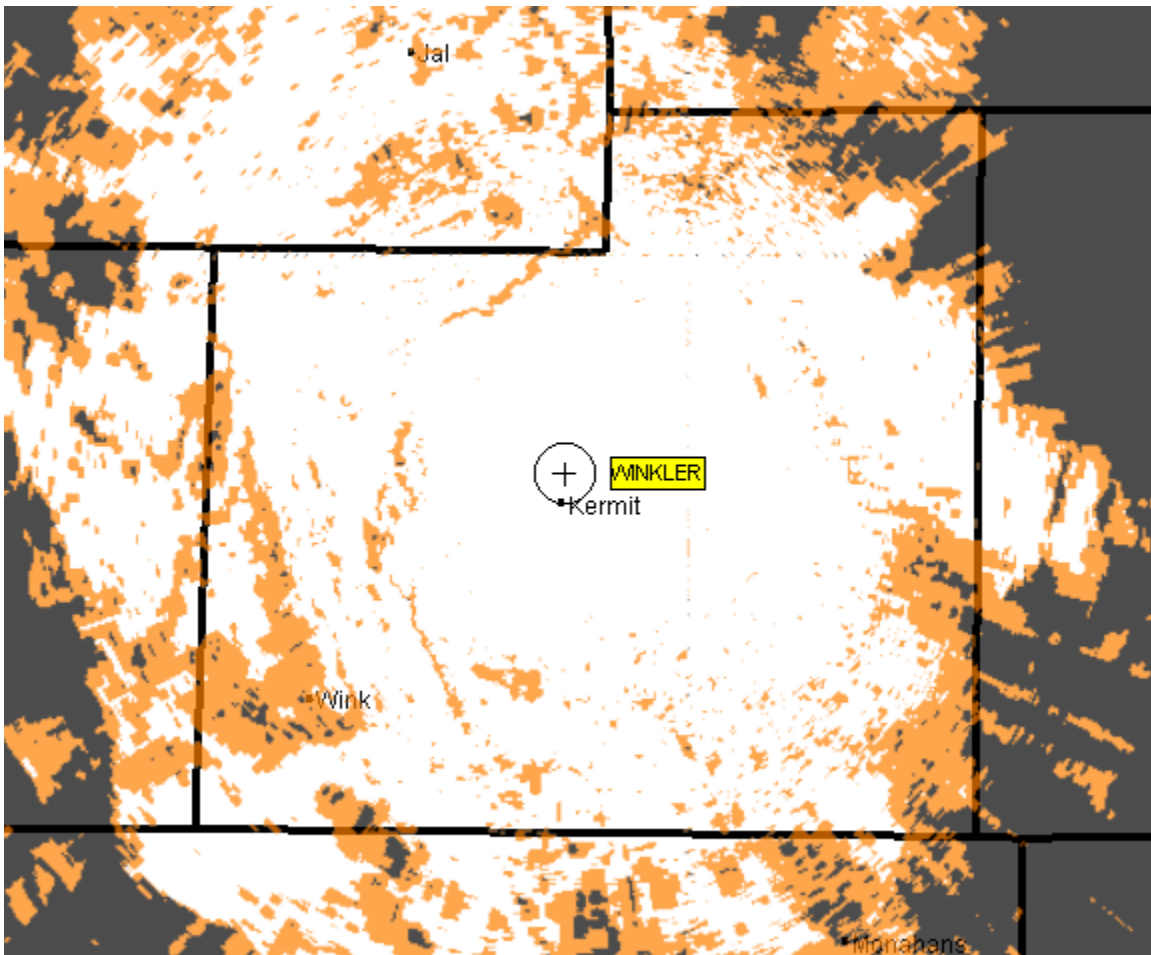


Figure 50 – Predicted Radio Coverage for Winkler County VHF Wideband

The Sheriff’s Office repeater is located in the center of the county and provides mobile coverage for most of the county. The weakest areas are in the northeast where highway coverage along Route 115 suffers. Predicted coverage levels are slightly higher than those reported.

20.1.8 Future Plans

Winkler County has plans to narrowband their equipment, upgrade to P25, and relocate the transmitter location to provide better coverage. Kermit PD plans to narrowband their equipment, upgrade to P25, and implement a mobile data solution. The City would like to add another repeater channel, as does the fire department.

20.1.9 Past Expenditures

Winkler County has had no radio expenditures since 2007.

20.1.10 Future Funding

Winkler County did not identify future funding opportunities.

20.1.11 Assessment

Winkler County operates its VHF radio systems over a wide area.

Interoperability with the adjacent New Mexico State Police is limited, as is the ability to communicate with adjacent counties.

Subscribers – Subscriber radios utilized within Winkler County include a variety of Motorola radios. All reported VHF units are narrowband capable and can be upgraded to P25.

Narrowbanding – All radios are capable of narrowband operation, but will require reprogramming to operate in the narrowband mode. Some FCC licenses require the addition of narrowband emissions.

Console – The two-tone remote utilized by the Sheriff's Office for dispatch operations is not ideal. A more appropriate configuration would utilize a dispatch console that would permit the Sheriff's Office to monitor the Kermit primary channels.

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APPENDIX A – ANDREWS COUNTY FCC LICENSES

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Federal Communications Commission
Public Safety and Homeland Security Bureau

RADIO STATION AUTHORIZATION

LICENSEE: ANDREWS, COUNTY OF

ATTN: COUNTY SHERIFF
ANDREWS, COUNTY OF
COUNTY COURTHOUSE RM 113
ANDREWS, TX 79714

Table with 2 columns: Call Sign (KVM232), File Number, Radio Service (PW - Public Safety Pool, Conventional), Regulatory Status (PMRS), Frequency Coordination Number.

FCC Registration Number (FRN): 0001652239

Table with 4 columns: Grant Date (01-22-2004), Effective Date (07-09-2009), Expiration Date (03-31-2014), Print Date.

STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Area of operation: Other: VIC:ANDREWS COUNTY TX
Loc. 2 Address: .25 MI W OF CITY LIMITS & .65 MI N OF ST HWY 176
Loc. 3 Address: 28M WEST ANDREWS HWY 176
Loc. 4 Area of operation: Operating within a 40.0 km radius around fixed location 3
Loc. 5 Area of operation: Land Mobile Control Station meeting the 6.1 Meter Rule: ANDREWS county, TX

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

Licensee Name: ANDREWS, COUNTY OF

Call Sign: KVM232

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.78500000	MO	50		11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E	144.000	144.000			
1	1	000154.95000000	MO	50		11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E	144.000	144.000			
2	1	000155.37000000	FB	1		11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E	350.000	350.000	107.0	114.3	
2	1	000155.67000000	FB	1		11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E	350.000	350.000	107.0	114.3	
2	1	000155.67000000	FB2	1		11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E	350.000	350.000	107.0	114.3	
3	1	000155.67000000	FB2	1		11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E	125.000	250.000	118.8	134.2	07-09-2010
4	1	000155.67000000	MO	50		11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E	110.000	160.000			07-09-2010

Licensee Name: ANDREWS, COUNTY OF

Call Sign: KVM232

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
4	1	000154.78500000	MO	50		11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E	110.000	160.000			07-09-2010
5	1	000154.78500000	FX1	3		11K2F2D 11K2F3E 20K0F3E 8K10F1D 8K10F1E	100.000	200.000			

Control Points

Control Pt. No. 1

Address: SHERIFFS OFFICE & ANDREWS POLICE DEPT

City: ANDREWS **County:** ANDREWS **State:** TX **Telephone Number:** (432)523-5545

Associated Call Signs

Waivers/Conditions:

NONE

REFERENCE COPY

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ANDREWS, COUNTY OF

ATTN: CTY JUDGES OFC
ANDREWS, COUNTY OF
COURTHOUSE RM 104
ANDREWS, TX 79714

Call Sign KNJY743	File Number 0001852227
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001652239

Grant Date 06-05-2002	Effective Date 08-26-2004	Expiration Date 07-28-2012	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 2 Address: 201 N MAIN
City: ANDREWS **County:** ANDREWS **State:** TX
Lat (NAD83): 32-19-12.4 N **Long (NAD83):** 102-32-48.6 W **ASR No.:** N/A **Ground Elev:** 969.0

Loc. 3 Area of operation
Operating within a 80.0 km radius around fixed location 2

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000155.9850000	FB	1		20K0F3E	75.000	125.000	23.0	0.0	
3	1	000155.9850000	MO	39		20K0F3E	50.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ANDREWS, COUNTY OF

Call Sign: KNJY743

File Number: 0001852227

Print Date:

Control Points

Control Pt. No. 1

Address: COURTHOUSE RM 104

City: ANDREWS **County:** **State:** TX **Telephone Number:** (915)524-1401

Associated Call Signs

Waivers/Conditions:

Authorization on a secondary basis.

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Federal Communications Commission
Public Safety and Homeland Security Bureau

RADIO STATION AUTHORIZATION

LICENSEE: ANDREWS COUNTY VOLUNTEER FIRE DEPARTMENT

ATTN: MICHAEL K COOK
ANDREWS COUNTY VOLUNTEER FIRE DEPARTMENT
111 LOGSDON
ANDREWS, TX 79714-6515

Table with 2 columns: Call Sign (WPFJ927), File Number, Radio Service (PW - Public Safety Pool, Conventional), Regulatory Status (PMRS), Frequency Coordination Number.

FCC Registration Number (FRN): 0001652239

Table with 4 columns: Grant Date (08-13-2004), Effective Date (06-08-2009), Expiration Date (09-27-2014), Print Date.

STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address: .25 MI W .65 MI N ON HWY 176
City: ANDREWS County: ANDREWS State: TX
Lat (NAD83): 32-19-26.4 N Long (NAD83): 102-34-16.6 W ASR No.: Ground Elev: 868.0
Loc. 2 Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
Loc. 3 Area of operation
Countywide: ANDREWS, TX
Loc. 4 Address: 28M WEST ANDREWS ON HWY176
City: ANDREWS County: ANDREWS State: TX
Lat (NAD83): 32-25-26.3 N Long (NAD83): 103-00-45.9 W ASR No.: 1267043 Ground Elev: 1053.3
Loc. 5 Area of operation
Operating within a 40.0 km radius around fixed location 4

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ANDREWS COUNTY VOLUNTEER FIRE

Call Sign: WPFJ927

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.23500000	FB2	1	44	11K2F2D 11K2F3E 20K0F1D 20K0F3E 8K10F1D 8K10F1E	100.000	80.000	76.0		
2	1	000153.83000000	FX1	4		11K2F2D 11K2F3E 20K0F1D 20K0F3E 8K10F1D 8K10F1E	10.000	10.000			
3	1	000153.83000000	MO	50		11K2F2D 11K2F3E 20K0F1D 20K0F3E 8K10F1D 8K10F1E	100.000	100.000			
3	1	000154.23500000	MO	50		11K2F2D 11K2F3E 20K0F1D 20K0F3E 8K10F1D 8K10F1E	100.000	100.000			
4	1	000154.23500000	FB2	1	44	11K2F2D 11K2F3E 20K0F1D 8K10F1D 8K10F1E	125.000	250.000	111.0	126.4	06-08-2010
5	1	000154.23500000	MO	50		11K2F2D 11K2F3E 20K0F1D 8K10F1D 8K10F1E	110.000	160.000			06-08-2010
5	1	000153.83000000	MO	50		11K2F2D 11K2F3E 20K0F1D 8K10F1D 8K10F1E	100.000	100.000			06-08-2010

Licensee Name: ANDREWS COUNTY VOLUNTEER FIRE

Call Sign: WPFJ927

File Number:

Print Date:

Control Points

Control Pt. No. 1

Address: 201 E BROADWAY

City: ANDREWS **County:** ANDREWS **State:** TX **Telephone Number:** (915)523-3833

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

APPENDIX B – BORDEN COUNTY FCC LICENSES

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: BORDEN, COUNTY OF

ATTN: VAN YORK CTY JUDGE
BORDEN, COUNTY OF
CTY COURTHOUSE
GAIL, TX 79738

Call Sign WNQZ868	File Number 0001893257
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001652155

Grant Date 10-07-2004	Effective Date 10-07-2004	Expiration Date 12-21-2014	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 2 Address:** CTY COURTHOUSE
City: GAIL **County:** BORDEN **State:** TX
Lat (NAD83): 32-46-11.4 N **Long (NAD83):** 101-26-42.5 W **ASR No.:** **Ground Elev:** 780.0
- Loc. 4 Address:** 1 1/8 MI W OF COURTHOUSE ON GAIL MOUNTAIN
City: GAIL **County:** BORDEN **State:** TX
Lat (NAD83): 32-45-37.4 N **Long (NAD83):** 101-27-32.5 W **ASR No.:** **Ground Elev:** 884.0
- Loc. 6 Area of operation**
Countywide: BORDEN, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000458.0000000	FX1	1		20K0F3E	10.000	39.900	5.0		
2	2	000155.7300000	FB	1		20K0F3E	45.000	152.200	18.0		
2	2	000156.0300000	FX1	1		20K0F3E	45.000	152.200	18.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: BORDEN, COUNTY OF

Call Sign: WNQZ868

File Number: 0001893257

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
4	1	000453.00000000	FX1	1		20K0F3E	10.000	39.900	5.0		
4	1	000458.00000000	FX1	1		20K0F3E	10.000	39.900	5.0		
4	2	000155.37000000	FB	1		20K0F3E	110.000	254.000	73.0		
4	3	000155.73000000	FB2	1		20K0F3E	110.000	240.700	76.0		
6	1	000154.95000000	MO	25		20K0F3E	110.000				
6	1	000155.73000000	MO	25		20K0F3E	110.000				
6	1	000156.03000000	MO	25		20K0F3E	110.000				

Control Points

Control Pt. No. 1

Address: CTY COURTHOUSE

City: GAIL County: State: TX Telephone Number: (915)856-4391

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: BORDEN COUNTY EMS

ATTN: CARRIE HART
BORDEN COUNTY EMS
PO BOX 342
GAIL, TX 79738

Call Sign WPHV234	File Number 0002141102
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653955

Grant Date 05-10-2005	Effective Date 05-10-2005	Expiration Date 07-19-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** S END OF GAIL MOUNTAIN
City: GAIL **County:** BORDEN **State:** TX
Lat (NAD83): 32-45-37.4 N **Long (NAD83):** 101-27-32.5 W **ASR No.:** **Ground Elev:** 884.0
- Loc. 2 Area of operation**
Operating within a 48.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.3250000	FB2	1		20K0F3E	100.000	215.000	21.0		
2	1	000150.7750000	MO	5		20K0F3E	100.000				
2	1	000150.7750000	MO	25		20K0F3E	5.000				
2	1	000155.3250000	MO	5		20K0F3E	100.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: BORDEN COUNTY EMS

Call Sign: WPHV234

File Number: 0002141102

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000155.32500000	MO	25		20K0F3E	5.000				

Control Points

Control Pt. No. 1

Address: 240 W KINCAID

City: GAIL County: State: TX Telephone Number: (806)759-5111

Associated Call Signs

Waivers/Conditions:

NONE

APPENDIX C – CRANE COUNTY FCC LICENSES

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: CRANE, COUNTY OF

ATTN: SHERIFFS OFFICE
CRANE, COUNTY OF
CTY COURTHOUSE
PO BOX 1175
CRANE, TX 79731-1175

Call Sign KVJ786	File Number 0001867111
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001651793

Grant Date 09-11-2004	Effective Date 09-11-2004	Expiration Date 12-07-2014	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** .25 MI N HWY 329 W
City: CRANE **County:** CRANE **State:** TX
Lat (NAD83): 31-23-50.5 N **Long (NAD83):** 102-21-36.5 W **ASR No.:** **Ground Elev:** 870.0
- Loc. 2 Area of operation**
Operating within a 121.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.37000000	FB2	1		20K0F3E	300.000		91.0		
1	1	000155.56500000	FB2	1		20K0F3E	300.000		91.0		
2	1	000154.81500000	MO	10		20K0F3E	100.000				
2	1	000154.95000000	MO	10		20K0F3E	100.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CRANE, COUNTY OF

Call Sign: KVVJ786

File Number: 0001867111

Print Date:

Control Points

Control Pt. No. 1

Address: SHERIFFS OFF 6TH & ALFORD ST

City: CRANE **County:** CRANE **State:** TX **Telephone Number:** (432)558-3571

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: CRANE, CITY OF

ATTN: RICK MCCOY - CHIEF OF PO
CRANE, CITY OF
115 W 6TH ST
CRANE, TX 79731

Call Sign WNAS687	File Number 0001891511
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001654995

Grant Date 10-05-2004	Effective Date 10-05-2004	Expiration Date 12-21-2014	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation
Cities:CRANE TX

Loc. 2 Address: .25 MI N HWY 329 W
City: CRANE **County:** CRANE **State:** TX
Lat (NAD83): 31-23-50.5 N **Long (NAD83):** 102-21-36.5 W **ASR No.:** **Ground Elev:** 779.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000158.88000000	MO	20		20K0F3E	100.000				
2	1	000155.80500000	FB	1		20K0F3E	100.000	25.000	79.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CRANE, CITY OF

Call Sign: WNAS687

File Number: 0001891511

Print Date:

Control Points

Control Pt. No. 1

Address: 115 W 6TH ST

City: CRANE **County:** CRANE **State:** TX **Telephone Number:** (915)558-3563

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: CRANE, CITY OF

ATTN: RICK MCCOY - CHIEF OF PO
CRANE, CITY OF
115 W 6TH ST
CRANE, TX 79731

Call Sign KD52233	File Number 0001911645
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001654995

Grant Date 10-26-2004	Effective Date 10-26-2004	Expiration Date 01-11-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Operating within a 3.0 km radius around 31-23-50.5 N, 102-21-02.5 W,
CRANE county, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000458.93750000	MO	1		16K0F2D	2.000	20.000			

Control Points

Control Pt. No. 1

Address: 115 W 6TH ST

City: CRANE **County:** **State:** TX **Telephone Number:** (915)558-3563

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CRANE, CITY OF

Call Sign: KD52233

File Number: 0001911645

Print Date:

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: CRANE, CITY OF

ATTN: POLICE DEPT
CRANE, CITY OF
115 W 6TH ST
CRANE, TX 79731

Call Sign KR5769	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001654995

Grant Date 08-21-2004	Effective Date 08-21-2004	Expiration Date 10-30-2014	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation
Other: VIC:CRANE TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.81500000	MO	16		20K0F3E	100.000				
1	1	000154.95000000	MO	16		20K0F3E	100.000				
1	1	000155.37000000	MO	16		20K0F3E	100.000				

Control Points

Control Pt. No. 2

Address: 115 W. 6th St.

City: Crane **County:** CRANE **State:** TX **Telephone Number:** (432)558-2212

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CRANE, CITY OF

Call Sign: KR5769

File Number:

Print Date:

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: CRANE VOLUNTEER FIRE DEPARTMENT

ATTN: GARY MC QUERRY
CRANE VOLUNTEER FIRE DEPARTMENT
PO BOX 627
CRANE, TX 79731

Call Sign WNLQ627	File Number 000508697
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0005635933

Grant Date 07-03-2001	Effective Date 07-03-2001	Expiration Date 08-21-2011	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 115 W 6TH ST
City: CRANE **County:** CRANE **State:** TX
Lat (NAD83): 31-23-50.5 N **Long (NAD83):** 102-21-34.5 W **ASR No.:** N/A **Ground Elev:** 870.0

Loc. 2 Area of operation
Operating within a 40.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.13000000	FB2	1	35	20K0F3E	60.000	75.000	41.0	122.0	
2	1	000154.13000000	MO	30		20K0F3E	100.000	100.000			
2	1	000159.06000000	MO	30		20K0F3E	100.000	100.000			

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CRANE VOLUNTEER FIRE DEPARTMENT

Call Sign: WNLQ627

File Number: 0000508697

Print Date:

Control Points

Control Pt. No. 1

Address: 115 W 6TH ST

City: CRANE **County:** **State:** TX **Telephone Number:** (915)558-3567

Associated Call Signs

Waivers/Conditions:

NONE

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APPENDIX D – DAWSON COUNTY FCC LICENSES

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: DAWSON, COUNTY OF

ATTN: JOHNNY GARCIA
DAWSON, COUNTY OF
PO BOX 1268
LAMESA, TX 79331-1268

Call Sign KVJ787	File Number 0001176814
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001651702

Grant Date 01-29-2003	Effective Date 01-29-2003	Expiration Date 04-25-2013	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: 302 S 2ND
City: LAMESA County: DAWSON State: TX
Lat (NAD83): 32-43-30.4 N Long (NAD83): 101-57-11.6 W ASR No.: N/A Ground Elev: 899.0
- Loc. 2** Address: HWY 180 3KM E OF HWY 829
City: LAMESA County: DAWSON State: TX
Lat (NAD83): 32-43-22.4 N Long (NAD83): 102-01-51.6 W ASR No.: Ground Elev: 914.0
- Loc. 3** Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
- Loc. 4** Area of operation
Operating within a 40.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.37000000	FB	1		20K0F3E	110.000	94.000	12.0	8.0	
2	1	000155.56500000	FB2	1		20K0F3E	110.000	145.000	147.0	155.0	

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: DAWSON, COUNTY OF

Call Sign: KJVJ787

File Number: 0001176814

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000154.81500000	FX1	1		20K0F3E	2.000				
4	1	000154.81500000	MO	20		20K0F3E	110.000				
4	1	000154.95000000	MO	20		20K0F3E	110.000				

Control Points

Control Pt. No. 1

Address: DAWSON CO LAW ENFORCEMENT CENTER

City: LAMESA County: State: TX Telephone Number: (806)872-7560

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: DAWSON, COUNTY OF

DAWSON, COUNTY OF
PO BOX 1268
LAMESA, TX 79331

Call Sign WQBH312	File Number 0003771624
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001651702

Grant Date 10-05-2004	Effective Date 03-14-2009	Expiration Date 10-05-2014	Print Date 03-14-2009
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** .5 MI N FM 2592 % HWY 87
City: LAMESA **County:** DAWSON **State:** TX
Lat (NAD83): 32-45-48.4 N **Long (NAD83):** 101-56-37.6 W **ASR No.:** **Ground Elev:** 913.0
- Loc. 2 Area of operation**
 Operating within a 32.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000462.95000000	FB2	1		20K0F3E	75.000	250.000	14.0	16.9	10-05-2005
2	1	000462.95000000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000462.97500000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000463.00000000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000463.02500000	MO	30		20K0F3E	100.000	100.000			10-05-2005

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: DAWSON, COUNTY OF

Call Sign: WQBH312

File Number: 0003771624

Print Date: 03-14-2009

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000463.05000000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000463.07500000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000463.10000000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000463.12500000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000463.15000000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000463.17500000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000467.95000000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000467.97500000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000468.00000000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000468.02500000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000468.05000000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000468.07500000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000468.10000000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000468.12500000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000468.15000000	MO	30		20K0F3E	100.000	100.000			10-05-2005
2	1	000468.17500000	MO	30		20K0F3E	100.000	100.000			10-05-2005

Control Points

Control Pt. No. 1

Address: LAMESA POLICE DEPT 601 S 1ST STREET

City: LAMESA County: DAWSON State: TX Telephone Number: (806)872-2121

Licensee Name: DAWSON, COUNTY OF

Call Sign: WQBH312

File Number: 0003771624

Print Date: 03-14-2009

Associated Call Signs
KNAJ357

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: LAMESA, CITY OF

ATTN: FRED VERA
LAMESA, CITY OF
601 S. 1ST
LAMESA, TX 79331

Call Sign WPZQ227	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001654029

Grant Date 02-18-2004	Effective Date 02-18-2004	Expiration Date 02-18-2014	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: 4 1/4 MI W 180
City: LAMESA County: DAWSON State: TX
Lat (NAD83): 32-43-22.0 N Long (NAD83): 102-01-52.0 W ASR No.: 1054494 Ground Elev: 917.5
- Loc. 2** Area of operation
Countywide: DAWSON, TX
- Loc. 3** Address: 304 S 1ST WATER TOWER
City: LAMESA County: DAWSON State: TX
Lat (NAD83): 32-42-52.4 N Long (NAD83): 101-55-23.6 W ASR No.: Ground Elev: 916.0
- Loc. 4** Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule: TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.5650000	FB2	1		20K0F3E	125.000	95.000	147.8	149.0	02-18-2005
1	2	000154.2500000	FB2	1		20K0F3E	125.000	95.000	147.0	149.0	02-18-2005

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: LAMESA, CITY OF

Call Sign: WPZQ227

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000153.95000000	MO	90		20K0F3E	100.000	100.000			02-18-2005
2	1	000154.81500000	MO	90		20K0F3E	100.000	100.000			02-18-2005
3	1	000153.95000000	FX1	1		20K0F3E	40.000	40.000	43.0	61.0	02-18-2005
4	1	000153.95000000	FX1	1		20K0F3E	10.000	20.000			

Control Points

Control Pt. No. 1

Address: 601 S 1ST STREET

City: LAMESA County: DAWSON State: TX Telephone Number: (806)872-2124

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: LAMESA, CITY OF

ATTN: FRED VERA
LAMESA, CITY OF
601 S 1ST
LAMESA, TX 79331

Call Sign WQCG880	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001654029

Grant Date 03-02-2005	Effective Date 03-02-2005	Expiration Date 03-02-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 302 S 1ST
City: LAMESA **County:** DAWSON **State:** TX
Lat (NAD83): 32-42-52.0 N **Long (NAD83):** 101-55-22.0 W **ASR No.:** **Ground Elev:** 899.1

Loc. 2 Area of operation
Operating within a 30.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.1450000	FB	1		20K0F3E	160.000	200.000	41.0	44.5	03-02-2006
1	1	000154.9950000	FB	1	200	20K0F3E	160.000	200.000	41.0	44.5	03-02-2006
2	1	000154.9950000	MO	31		20K0F3E	100.000	150.000			03-02-2006
2	1	000155.1450000	MO	31		20K0F3E	100.000	150.000			03-02-2006

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: LAMESA, CITY OF

Call Sign: WQCG880

File Number:

Print Date:

Control Points

Control Pt. No. 1

Address: 601 S. 1ST STREET

City: LAMESA **County:** DAWSON **State:** TX **Telephone Number:** (806)872-2124

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

APPENDIX E – ECTOR COUNTY FCC LICENSES

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ECTOR, COUNTY OF

ATTN: TRENT NORMAN
ECTOR, COUNTY OF
1010 E 8TH ST
ODESSA, TX 79761

Call Sign KVJ783	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001651611

Grant Date 07-28-2005	Effective Date 08-02-2005	Expiration Date 10-13-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** HWY 80 & FM 866
City: ODESSA **County:** ECTOR **State:** TX
Lat (NAD83): 31-45-33.0 N **Long (NAD83):** 102-33-36.0 W **ASR No.:** 1041630 **Ground Elev:** 946.7
- Loc. 2 Area of operation**
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
- Loc. 3 Area of operation**
Operating within a 35.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.70000000	FB2	1		20K0F3E	100.000	151.000	107.0	76.0	
1	1	000155.58750000	FB2	1		11K2F1D	100.000	151.000	107.0	76.0	08-02-2006
2	1	000154.84500000	FX1	1		20K0F3E	50.000	50.000			
3	1	000154.84500000	MO	43		20K0F3E	100.000	100.000			

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ECTOR, COUNTY OF

Call Sign: KVVJ783

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000154.95000000	MO	19		20K0F3E	100.000	100.000			
3	1	000156.09000000	MO	19		20K0F3E	100.000	100.000			
3	1	000453.63750000	MO3	25		11K0F3E	2.000	2.000			
3	1	000458.63750000	MO	25		11K0F3E	2.000	2.000			
3	1	000154.03250000	MO	43		11K2F1D	100.000	100.000			08-02-2006

Control Points

Control Pt. No. 2

Address: 2500 S Hwy 385

City: Odessa County: ECTOR State: TX Telephone Number: (432)385-1100

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ECTOR, COUNTY OF

ATTN: ROAD & BRIDGE DEPT TRENT NORMAN
ECTOR, COUNTY OF
1010 E 8TH ST
ODESSA, TX 79761

Call Sign KNBW375	File Number 0001630538
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001651611

Grant Date 02-26-2004	Effective Date 02-26-2004	Expiration Date 05-14-2014	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** HWY 80 & FM866
City: ODESSA **County:** ECTOR **State:** TX
Lat (NAD83): 31-45-36.5 N **Long (NAD83):** 102-35-31.5 W **ASR No.:** 1041630 **Ground Elev:** 879.0
- Loc. 2 Area of operation**
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
- Loc. 3 Area of operation**
Operating within a 35.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000453.4750000	FB2	1		20K0F3E	100.000	100.000	122.0	91.0	
2	1	000458.4750000	FX1	2		20K0F3E	40.000	63.000			
3	1	000458.4750000	MO	50		20K0F3E	35.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ECTOR, COUNTY OF

Call Sign: KNBW375

File Number: 0001630538

Print Date:

Control Points

Control Pt. No. 1

Address: 2500 S HWY 385

City: ODESSA **County:** **State:** TX **Telephone Number:** (915)337-0158

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ECTOR, COUNTY OF

ATTN: PUBLIC WORKS MARTHA P FIERRO
ECTOR, COUNTY OF
1010 EAST 8TH ST
ODESSA, TX 79761

Call Sign KNGZ413	File Number 0000860299
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001651611

Grant Date 04-24-2002	Effective Date 04-24-2002	Expiration Date 07-02-2012	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Land Mobile Control Station meeting the 6.1 Meter Rule: TX

Loc. 2 Address: TISDALE RD 554 OFF MOSS AVE

City: ODESSA **County:** ECTOR **State:** TX

Lat (NAD83): 31-48-52.5 N **Long (NAD83):** 102-29-11.5 W **ASR No.:** **Ground Elev:** 906.0

Loc. 3 Area of operation

Countywide: ECTOR, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.88000000	FX1	2		20K0F3E	20.000	29.000			
2	1	000155.05500000	FB2	1		20K0F3E	100.000	210.000	82.0		
3	1	000155.88000000	MO	20		20K0F3E	110.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ECTOR, COUNTY OF

Call Sign: KNGZ413

File Number: 0000860299

Print Date:

Control Points

Control Pt. No. 1

Address: 910 W 42ND

City: ODESSA **County:** **State:** TX **Telephone Number:** (915)362-8789

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ECTOR COUNTY COLISEUM

ECTOR COUNTY COLISEUM
PO BOX 4124
ODESSA, TX 79761

Call Sign WGJ395	File Number 0002185514
Radio Service IG - Industrial/Business Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001651611

Grant Date 06-04-2005	Effective Date 06-04-2005	Expiration Date 08-28-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: CORNER OF 42ND & ANDREWS HWY
City: ODESSA **County:** ECTOR **State:** TX
Lat (NAD83): 31-53-02.4 N **Long (NAD83):** 102-23-13.5 W **ASR No.:** **Ground Elev:** 897.0

Loc. 2 Area of operation
Other: 10 MIRA ODESSA TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000464.4750000	FB	1	30	20K0F3E	35.000		30.0		
2	1	000464.4750000	MO	10		20K0F3E	10.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ECTOR COUNTY COLISEUM

Call Sign: WGJ395

File Number: 0002185514

Print Date:

Control Points

Control Pt. No. 1

Address: CORNER OF 42ND AND ANDREWS HWY

City: ODESSA **County:** **State:** TX **Telephone Number:** (915)366-3541

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ECTOR, COUNTY OF

ATTN: PUBLIC WORKS
ECTOR, COUNTY OF
1010 E 8TH ST
ODESSA, TX 79761

Call Sign WNBN876	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001651611

Grant Date 05-23-2001	Effective Date 05-23-2001	Expiration Date 05-23-2011	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: KLONDIKE & APPLE
City: SOUTH ECTOR County: ECTOR State: TX
Lat (NAD83): 31-35-07.5 N Long (NAD83): 102-22-03.5 W ASR No.: N/A Ground Elev: 898.0
- Loc. 2** Address: TRIPP & ALBERT ST
City: ODESSA County: ECTOR State: TX
Lat (NAD83): 31-50-54.4 N Long (NAD83): 102-28-06.5 W ASR No.: N/A Ground Elev: 899.0
- Loc. 3** Address: HWY 302 & MARIONS
City: NOTREES County: ECTOR State: TX
Lat (NAD83): 31-55-00.4 N Long (NAD83): 102-45-23.5 W ASR No.: N/A Ground Elev: 1017.0
- Loc. 4** Address: 216 N SCARBAUR
City: GOLDSMITH County: ECTOR State: TX
Lat (NAD83): 31-58-58.4 N Long (NAD83): 102-36-52.5 W ASR No.: N/A Ground Elev: 960.0
- Loc. 5** Address: GARDENDALE & LARKSPUR
City: GARDENDALE County: ECTOR State: TX
Lat (NAD83): 32-01-22.4 N Long (NAD83): 102-23-03.5 W ASR No.: N/A Ground Elev: 908.0
- Loc. 6** Address: 18.5 KM W ON FM 866
City: ODESSA County: ECTOR State: TX
Lat (NAD83): 31-51-50.4 N Long (NAD83): 102-34-42.5 W ASR No.: Ground Elev: 954.0
- Loc. 7** Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule: TX

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ECTOR, COUNTY OF

Call Sign: WNBC876

File Number:

Print Date:

Fixed Location Address or Mobile Area of Operation

Loc. 8 Area of operation

Operating within a 40.0 km radius around fixed location 1

Loc. 9 Area of operation

Operating within a 40.0 km radius around fixed location 2

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.40000000	FB	1	110	20K0F3E	75.000	335.000	15.0	64.0	
2	1	000154.40000000	FB	1	110	20K0F3E	75.000	421.000	21.0	8.0	
3	1	000154.40000000	FB	1	110	20K0F3E	75.000	335.000	15.0	68.0	
4	1	000154.40000000	FB	1	110	20K0F3E	75.000	421.000	21.0	29.0	
5	1	000154.40000000	FB	1	110	20K0F3E	75.000	421.000	21.0	25.0	
6	1	000154.14500000	FB2	1	110	20K0F3E	100.000	125.000	152.0	199.0	
6	1	000154.40000000	FB	1	110	20K0F3E	100.000	125.000	152.0	199.0	
7	1	000150.79000000	FX1	1		20K0F3E	100.000	100.000			
8	1	000154.40000000	MO	20		20K0F3E	75.000	143.000			
9	1	000150.79000000	MO	65		20K0F3E	100.000	100.000			
9	1	000154.14500000	MO	65		20K0F3E	100.000	100.000			

Control Points

Control Pt. No. 1

Address: 119 W 14TH ST

City: ODESSA County: State: TX Telephone Number: (915)381-3033

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ECTOR, COUNTY OF

ATTN: SHERIFFS OFFICE MARTHA P FIERRO
ECTOR, COUNTY OF
COURTHOUSE
ODESSA, TX 79760

Call Sign WNJE398	File Number 0000860300
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001651611

Grant Date 04-24-2002	Effective Date 04-24-2002	Expiration Date 07-02-2012	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: COR 3RD ST & GRANT COURTHOUSE BLDG
City: ODESSA **County:** ECTOR **State:** TX
Lat (NAD83): 31-50-53.5 N **Long (NAD83):** 102-22-04.5 W **ASR No.:** **Ground Elev:** 888.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.37000000	FB	1		20K0F3E	100.000	210.000	15.0		

Control Points

Control Pt. No. 1

Address: 3RD ST & GRANT
City: ODESSA **County:** **State:** TX **Telephone Number:** (915)335-3050

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ECTOR, COUNTY OF

Call Sign: WNJE398

File Number: 0000860300

Print Date:

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ECTOR, COUNTY OF

ECTOR, COUNTY OF
1010 E 8TH ST
ODESSA, TX 79761

Call Sign WPLX326	File Number 0001166788
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001651611

Grant Date 01-23-2003	Effective Date 01-23-2003	Expiration Date 03-30-2013	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** 2500 S HIGHWAY 385
City: ODESSA **County:** ECTOR **State:** TX
Lat (NAD83): 31-49-19.5 N **Long (NAD83):** 102-21-42.5 W **ASR No.:** N/A **Ground Elev:** 876.0
- Loc. 2 Area of operation**
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
- Loc. 3 Area of operation**
Operating within a 16.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000453.8250000	FB2	1		20K0F3E	25.000	25.000	8.0	-3.0	
2	1	000458.8250000	FX1	1		20K0F3E	10.000				
3	1	000453.8250000	MO	50		20K0F3E	4.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ECTOR, COUNTY OF

Call Sign: WPLX326

File Number: 0001166788

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000458.82500000	MO	50		20K0F3E	4.000				

Control Points

Control Pt. No. 1

Address: 1010 E 8TH ST

City: ODESSA County: State: TX Telephone Number: (915)385-1100

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ECTOR, COUNTY OF

ATTN: TRENT NORMAN
ECTOR, COUNTY OF
1010 E 8TH
ODESSA, TX 79761

Call Sign WPMK773	File Number 0001349500
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001651611

Grant Date 06-17-2003	Effective Date 06-17-2003	Expiration Date 08-26-2013	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Operating within a 8.0 km radius around 31-55-25.4 N, 102-23-17.5 W,
ECTOR county, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000453.57500000	MO	20		20K0F3E	4.000				

Control Points

Control Pt. No. 1

Address: 1010 E 8TH

City: ODESSA **County:** **State:** TX **Telephone Number:** (915)385-1100

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ECTOR, COUNTY OF

Call Sign: WPMK773

File Number: 0001349500

Print Date:

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MEDICAL CENTER HOSPITAL

ATTN: GARY BARNES
MEDICAL CENTER HOSPITAL
500 W 4TH ST
ODESSA, TX 79761

Call Sign WQCY659	File Number 0003893769
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0011328358

Grant Date 06-23-2005	Effective Date 07-09-2009	Expiration Date 06-23-2015	Print Date 07-09-2009
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: DIXIE BLVD & POOL RD
City: ODESSA County: ECTOR State: TX
Lat (NAD83): 31-49-52.0 N Long (NAD83): 102-20-53.0 W ASR No.: 1056842 Ground Elev: 879.4
- Loc. 2** Address: 500 W 4TH ST
City: ODESSA County: ECTOR State: TX
Lat (NAD83): 31-50-44.8 N Long (NAD83): 102-22-27.9 W ASR No.: Ground Elev: 884.8
- Loc. 3** Address: 119 W 4TH STREET
City: ODESSA County: ECTOR State: TX
Lat (NAD83): 31-50-48.8 N Long (NAD83): 102-22-11.5 W ASR No.: Ground Elev: 884.9
- Loc. 4** Area of operation
Operating within a 40.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.2650000	FB2	1		11K2F3E	100.000	150.000	158.5	149.8	06-23-2006
2	1	000153.8525000	FX1	1		11K2F3E	25.000	30.000	10.6	2.2	06-23-2006

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MEDICAL CENTER HOSPITAL

Call Sign: WQCY659

File Number: 0003893769

Print Date: 07-09-2009

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000153.85250000	FX1	1		11K2F3E	25.000	30.000	22.8	15.3	06-23-2006
4	1	000155.26500000	MO	1		11K2F3E	10.000	10.000			06-23-2006
4	1	000153.85250000	MO	1		11K2F3E	10.000	10.000			06-23-2006
4	2	000153.85250000	MO	25		11K2F3E	45.000	45.000			06-23-2006
4	2	000155.26500000	MO	25		11K2F3E	45.000	45.000			06-23-2006

Control Points

Control Pt. No. 1

Address: 500 W 4TH STREET

City: ODESSA County: ECTOR State: TX Telephone Number: (432)335-3855

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: TEXAS, STATE OF

ATTN: UNIV OF TX PERMIAN BASIN T MC MAHAN
TEXAS, STATE OF
4901 E UNIVERSITY
ODESSA, TX 79762-8301

Call Sign KKW248	File Number 0000574498
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001669142

Grant Date 08-30-2001	Effective Date 08-30-2001	Expiration Date 09-30-2011	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Land Mobile Control Station meeting the 6.1 Meter Rule: TX

Loc. 2 Address: PHASE I BLDG UT PERMIAN BASIN CAMPUS

City: ODESSA **County:** ECTOR **State:** TX

Lat (NAD83): 31-53-23.4 N **Long (NAD83):** 102-19-46.5 W **ASR No.:** **Ground Elev:** 885.0

Loc. 3 Area of operation

Operating within a 32.0 km radius around fixed location 2

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000153.8000000	FX1	1		20K0F3E	45.000				
2	1	000155.8200000	FB2	1		20K0F3E	85.000	165.000	36.0		
3	1	000153.8000000	MO	20		20K0F3E	110.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: TEXAS, STATE OF

Call Sign: KKW248

File Number: 0000574498

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000155.82000000	MO	20		20K0F3E	110.000				

Control Points

Control Pt. No. 1

Address: PHASE I BLDG UT PERMIAN BASIN CAMPUS

City: ODESSA County: State: TX Telephone Number: (915)367-2123

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ATTN: DON CARLTON
ODESSA, CITY OF
PO BOX 4398
ODESSA, TX 79760

Call Sign WPJL555	File Number 0003832203
Radio Service YP - Public Safety/Spec Emerg, 806-821/851-866 MHz, Trunked	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 07-12-2001	Effective Date 06-04-2009	Expiration Date 07-17-2011	Print Date 06-05-2009
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** 801 POOL RD
City: ODESSA **County:** ECTOR **State:** TX
Lat (NAD83): 31-49-51.5 N **Long (NAD83):** 102-20-52.5 W **ASR No.:** **Ground Elev:** 879.0
- Loc. 2 Address:** 2632 E PEARL
City: ODESSA **County:** ECTOR **State:** TX
Lat (NAD83): 31-51-42.5 N **Long (NAD83):** 102-19-44.5 W **ASR No.:** **Ground Elev:** 883.0
- Loc. 3 Area of operation**
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
- Loc. 4 Area of operation**
Operating within a 64.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000855.48750000	FB2	1		20K0F1D 20K0F1E 20K0F3E	100.000	307.000	158.0	170.0	07-17-2001

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: WPJL555

File Number: 0003832203

Print Date: 06-05-2009

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000855.98750000	FB2	1		20K0F1D 20K0F1E 20K0F3E	100.000	307.000	158.0	170.0	07-17-2001
1	1	000856.48750000	FB2	1		20K0F1D 20K0F1E 20K0F3E	100.000	307.000	158.0	170.0	07-17-2001
1	1	000856.98750000	FB2	1		20K0F1D 20K0F1E 20K0F3E	100.000	307.000	158.0	170.0	07-17-2001
1	1	000857.48750000	FB2	1		20K0F1D 20K0F1E 20K0F3E	100.000	307.000	158.0	170.0	07-17-2001
1	1	000857.98750000	FB2	1		20K0F1D 20K0F1E 20K0F3E	100.000	307.000	158.0	170.0	07-17-2001
1	1	000858.98750000	FB2	1		20K0F1D 20K0F1E 20K0F3E	100.000	307.000	158.0	170.0	07-17-2001
1	1	000859.98750000	FB2	1		20K0F1D 20K0F1E 20K0F3E	100.000	307.000	158.0	170.0	07-17-2001
2	1	000855.98750000	FB2S	1		20K0F1D 20K0F1E 20K0F3E	100.000	393.000	122.0	140.0	07-17-2001
2	1	000856.98750000	FB2S	1		20K0F1D 20K0F1E 20K0F3E	100.000	393.000	122.0	140.0	07-17-2001
2	1	000857.98750000	FB2S	1		20K0F1D 20K0F1E 20K0F3E	100.000	393.000	122.0	140.0	07-17-2001
2	1	000858.98750000	FB2S	1		20K0F1D 20K0F1E 20K0F3E	100.000	393.000	122.0	140.0	07-17-2001

Licensee Name: ODESSA, CITY OF

Call Sign: WPJL555

File Number: 0003832203

Print Date: 06-05-2009

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000859.98750000	FB2S	1		20K0F1D 20K0F1E 20K0F3E	100.000	393.000	122.0	140.0	07-17-2001
3	1	000810.48750000	FX1	31		20K0F1D 20K0F1E 20K0F3E	15.000	15.000			
3	1	000810.98750000	FX1	31		20K0F1D 20K0F1E 20K0F3E	15.000	15.000			
3	1	000811.48750000	FX1	31		20K0F1D 20K0F1E 20K0F3E	15.000	15.000			
3	1	000811.98750000	FX1	31		20K0F1D 20K0F1E 20K0F3E	15.000	15.000			
3	1	000812.48750000	FX1	31		20K0F1D 20K0F1E 20K0F3E	15.000	15.000			
3	1	000812.98750000	FX1	31		20K0F1D 20K0F1E 20K0F3E	15.000	15.000			
3	1	000813.98750000	FX1	31		20K0F1D 20K0F1E 20K0F3E	15.000	15.000			
3	1	000814.98750000	FX1	31		20K0F1D 20K0F1E 20K0F3E	15.000	15.000			
4	1	000810.48750000	MO	703		20K0F1D 20K0F1E 20K0F3E	15.000	10.000			
4	1	000810.98750000	MO	703		20K0F1D 20K0F1E 20K0F3E	15.000	10.000			

Licensee Name: ODESSA, CITY OF

Call Sign: WPJL555

File Number: 0003832203

Print Date: 06-05-2009

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
4	1	000811.48750000	MO	703		20K0F1D 20K0F1E 20K0F3E	15.000	10.000			
4	1	000811.98750000	MO	703		20K0F1D 20K0F1E 20K0F3E	15.000	10.000			
4	1	000812.48750000	MO	703		20K0F1D 20K0F1E 20K0F3E	15.000	10.000			
4	1	000812.98750000	MO	703		20K0F1D 20K0F1E 20K0F3E	15.000	10.000			
4	1	000813.98750000	MO	703		20K0F1D 20K0F1E 20K0F3E	15.000	10.000			
4	1	000814.98750000	MO	703		20K0F1D 20K0F1E 20K0F3E	15.000	10.000			

Control Points

Control Pt. No. 1

Address: 411 W 8TH ST

City: ODESSA County: State: TX Telephone Number: (915)335-4860

Associated Call Signs

Waivers/Conditions:

Secondary site subject to the condition that no interference is caused to co-channel users in an adjacent communications area.

Authorization on a secondary basis.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ATTN: POLICE DEPT
ODESSA, CITY OF
BOX 4398
ODESSA, TX 79760

Call Sign WQL938	File Number 0002146058
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 05-04-2005	Effective Date 05-04-2005	Expiration Date 07-06-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 411 8TH
City: ODESSA **County:** ECTOR **State:** TX
Lat (NAD83): 31-50-56.5 N **Long (NAD83):** 102-22-31.5 W **ASR No.:** **Ground Elev:** 888.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000460.20000000	FB2	1		20K0F3E	100.000		30.0		

Control Points

Control Pt. No. 1

Address:
City: **County:** **State:** **Telephone Number:** (915)335-3275

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: WQL938

File Number: 0002146058

Print Date:

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ODESSA, CITY OF
PO BOX 4398
ODESSA, TX 79760

Call Sign KA34392	File Number 0001603654
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 02-04-2004	Effective Date 02-04-2004	Expiration Date 03-09-2014	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation
Other: VIC:ODESSA TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000458.02500000	MO	12	12	20K0F3E	1.000	60.000			
1	1	000458.07500000	MO	12	12	20K0F3E	1.000	60.000			
1	1	000458.12500000	MO	12	12	20K0F3E	1.000	60.000			
1	1	000458.17500000	MO	12	12	20K0F3E	1.000	60.000			
1	1	000463.00000000	MO	12	12	20K0F3E	30.000	60.000			
1	1	000463.02500000	MO	12	12	20K0F3E	30.000	60.000			
1	1	000463.05000000	MO	12	12	20K0F3E	30.000	60.000			

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: KA34392

File Number: 0001603654

Print Date:

1	1	000463.07500000	MO	12	12	20K0F3E	30.000	60.000
1	1	000463.10000000	MO	12	12	20K0F3E	30.000	60.000
1	1	000463.12500000	MO	12	12	20K0F3E	30.000	60.000
1	1	000463.15000000	MO	12	12	20K0F3E	30.000	60.000
1	1	000463.17500000	MO	12	12	20K0F3E	30.000	60.000
1	1	000467.95000000	MO	12	12	20K0F3E	30.000	60.000
1	1	000467.97500000	MO	12	12	20K0F3E	30.000	60.000
1	1	000468.00000000	MO	12	12	20K0F3E	30.000	60.000
1	1	000468.02500000	MO	12	12	20K0F3E	30.000	60.000
1	1	000468.05000000	MO	12	12	20K0F3E	30.000	60.000
1	1	000468.07500000	MO	12	12	20K0F3E	30.000	60.000
1	1	000468.10000000	MO	12	12	20K0F3E	30.000	60.000
1	1	000468.12500000	MO	12	12	20K0F3E	30.000	60.000
1	1	000468.15000000	MO	12	12	20K0F3E	30.000	60.000
1	1	000468.17500000	MO	12	12	20K0F3E	30.000	60.000

Control Points

Control Pt. No. 1

Address:

City: **County:** **State:** **Telephone Number:** (915)337-7381

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: CITY OF ODESSA

ATTN: DON CARLTON
CITY OF ODESSA
411 W. 8TH
PO BOX 4398
ODESSA, TX 79761

Call Sign KA62411	File Number 0002107664
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 04-01-2005	Effective Date 04-01-2005	Expiration Date 05-07-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation
Other: VIC:ECTOR COUNTY TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000458.10000000	MO	30		20K0F3E	45.000				

Control Points

Control Pt. No. 1

Address:

City: County: State: Telephone Number: (915)335-3275

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CITY OF ODESSA

Call Sign: KA62411

File Number: 0002107664

Print Date:

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ATTN: DON CARLTON
ODESSA, CITY OF
411 W. 8TH
PO BOX 4398
ODESSA, TX 79761

Call Sign KGU590	File Number 0004230537
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number 100430001039	

FCC Registration Number (FRN): 0001653427

Grant Date 04-01-2005	Effective Date 06-11-2010	Expiration Date 05-07-2015	Print Date 06-12-2010
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Other:30 MIRA ODESSA TX

Loc. 2 Address: COMMUNICATIONS BLDG DIXIE & POOL RD

City: ODESSA County: ECTOR State: TX

Lat (NAD83): 31-49-51.5 N Long (NAD83): 102-20-52.5 W ASR No.: Ground Elev: 879.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.34000000	MO	20		11K0F3E 20K0F3E	90.000	90.000			
2	1	000155.34000000	FB	1		11K0F3E 20K0F3E	90.000	90.000	146.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: KGU590

File Number: 0004230537

Print Date: 06-12-2010

Control Points

Control Pt. No. 1

Address: 504 W 4TH

City: ODESSA **County:** ECTOR **State:** TX **Telephone Number:** (915)335-3275

Associated Call Signs

Waivers/Conditions:

Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.209(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ATTN: DON CARLTON
ODESSA, CITY OF
PO BOX 4398
ODESSA, TX 79760-4398

Call Sign KJI420	File Number 0004124243
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number 100209000363	

FCC Registration Number (FRN): 0001653427

Grant Date 10-29-2002	Effective Date 02-16-2010	Expiration Date 10-29-2012	Print Date 02-17-2010
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Land Mobile Control Station meeting the 6.1 Meter Rule: TX

Loc. 2 Address: CITY HALL BLDG 411 W 8TH

City: ODESSA County: ECTOR State: TX

Lat (NAD83): 31-51-00.5 N Long (NAD83): 102-22-31.5 W ASR No.: Ground Elev: 888.0

Loc. 3 Area of operation

Operating within a 16.0 km radius around fixed location 2

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.9550000	FX1	2		11K0F3E 20K0F3E	25.000	25.000			
2	1	000153.7550000	FB2	1		11K0F3E 20K0F3E	60.000	240.000	30.0	0.0	
3	1	000153.7550000	MO	40		11K0F3E 20K0F3E	25.000	25.000			

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: KJI420

File Number: 0004124243

Print Date: 02-17-2010

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000155.95500000	MO	40		11K0F3E 20K0F3E	25.000	25.000			

Control Points

Control Pt. No. 1

Address: 1100 W 42ND ST

City: ODESSA County: ECTOR State: TX Telephone Number: (915)367-9007

Associated Call Signs

Waivers/Conditions:

Authorization on a secondary basis.

(FB2)

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ATTN: DON CARLTON
ODESSA, CITY OF
PO BOX 4398
ODESSA, TX 79760

Call Sign KKA490	File Number 0004230543
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number 100430001037	

FCC Registration Number (FRN): 0001653427

Grant Date 10-30-2001	Effective Date 06-11-2010	Expiration Date 12-19-2011	Print Date 06-12-2010
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Other: VIC: ECTOR COUNTY TX

Loc. 2 Address: COMMUNICATIONS BLDG DIXIE & POOL RD

City: ODESSA County: ECTOR State: TX

Lat (NAD83): 31-49-51.5 N Long (NAD83): 102-20-52.5 W ASR No.: Ground Elev: 880.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.01000000	MO	50		11K0F3E 20K0F3E	120.000	120.000			
2	1	000155.01000000	FB	1		11K0F3E 20K0F3E	120.000	120.000	82.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: KKA490

File Number: 0004230543

Print Date: 06-12-2010

Control Points

Control Pt. No. 1

Address: 210 N LINCOLN

City: ODESSA **County:** ECTOR **State:** TX **Telephone Number:** (915)335-3275

Associated Call Signs

Waivers/Conditions:

Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.209(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ODESSA, CITY OF
PO BOX 4398
ODESSA, TX 79760

Call Sign KKG474	File Number 0000957699
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 07-11-2002	Effective Date 07-11-2002	Expiration Date 08-20-2012	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Area of operation**
Other:30 MIRA ODESSA TX
- Loc. 2 Address: DIXIE & POOL RD**
City: ODESSA County: ECTOR State: TX
Lat (NAD83): 31-49-51.5 N Long (NAD83): 102-20-52.5 W ASR No.: Ground Elev: 879.0
- Loc. 3 Area of operation**
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
- Loc. 4 Address: 93RD & RAINBOW**
City: ODESSA County: ECTOR State: TX
Lat (NAD83): 31-57-00.4 N Long (NAD83): 102-24-03.5 W ASR No.: Ground Elev: 913.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000465.60000000	MO	65		20K0F3E	100.000				
1	1	000465.62500000	MO	65		20K0F3E	100.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: KKG474

File Number: 0000957699

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000460.60000000	FB2	1		20K0F3E	100.000		146.0		
3	1	000465.60000000	FX1	9		20K0F3E	40.000				
3	1	000465.62500000	FX1	9		20K0F3E	40.000				
4	1	000460.62500000	FB2	1		20K0F3E	100.000		52.0		

Control Points

Control Pt. No. 1

Address: 411 W 8TH

City: ODESSA County: State: TX Telephone Number: (915)337-1197

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: CITY OF ODESSA

ATTN: DON CARLTON
CITY OF ODESSA
411 W. 8TH
PO BOX 4398
ODESSA, TX 79761

Call Sign KN3521	File Number 0002107666
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 04-01-2005	Effective Date 04-01-2005	Expiration Date 06-14-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation
Other: VIC:ECTOR COUNTY TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000460.05000000	MO	200		20K0F3E	100.000				
1	1	000460.10000000	MO	200		20K0F3E	100.000				
1	1	000460.15000000	MO	200		20K0F3E	100.000				
1	1	000460.20000000	MO	200		20K0F3E	100.000				
1	1	000465.05000000	MO	200		20K0F3E	100.000				
1	1	000465.10000000	MO	200		20K0F3E	100.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CITY OF ODESSA

Call Sign: KN3521

File Number: 0002107666

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000465.15000000	MO	200		20K0F3E	100.000				
1	1	000465.20000000	MO	200		20K0F3E	100.000				

Control Points

Control Pt. No. 1

Address:

City: County: State: Telephone Number: (915)335-3275

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ATTN: JERRY MC GUIRE
ODESSA, CITY OF
PO BOX 4398
ODESSA, TX 79760

Call Sign KNNJ348	File Number 0000957794
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 07-11-2002	Effective Date 07-11-2002	Expiration Date 09-02-2012	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 1279 FT E NE OF INT HWY 20 & US HWY 385 INTERCHANGE
City: ODESSA **County:** ECTOR **State:** TX
Lat (NAD83): 31-49-51.5 N **Long (NAD83):** 102-20-50.5 W **ASR No.:** N/A **Ground Elev:** 879.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000000.53000000	FB	1		6K00A3E	10.000	10.000	15.0	0.0	

Control Points

Control Pt. No. 1

Address: 700 N GRANT STE 200
City: ODESSA **County:** **State:** TX **Telephone Number:** (915)333-7871

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: KNNJ348

File Number: 0000957794

Print Date:

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ATTN: DON CARLTON
ODESSA, CITY OF
PO BOX 4398
ODESSA, TX 79760

Call Sign KNNN539	File Number 0004559065
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 01-05-2011	Effective Date 01-05-2011	Expiration Date 03-12-2021	Print Date 01-05-2011
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 2 Area of operation

Operating within a 19.0 km radius around 31-53-59.4 N, 102-21-52.5 W,
ECTOR county, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000453.38750000	MO	1		20K0F1D	2.000				

Control Points

Control Pt. No. 1

Address: 811 W 42ND ST

City: ODESSA **County:** ECTOR **State:** TX **Telephone Number:** (915)368-3543

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: KNNN539

File Number: 0004559065

Print Date: 01-05-2011

Waivers/Conditions:

Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.209(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ATTN: POLICE DEPT
ODESSA, CITY OF
BOX 4398
ODESSA, TX 79760

Call Sign KRL427	File Number 0002146055
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 05-04-2005	Effective Date 05-04-2005	Expiration Date 07-09-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: DIXIE & POOL ROAD
City: ODESSA **County:** ECTOR **State:** TX
Lat (NAD83): 31-49-51.5 N **Long (NAD83):** 102-20-52.5 W **ASR No.:** **Ground Elev:** 879.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000460.10000000	FB2	1		20K0F3E	100.000		134.0		

Control Points

Control Pt. No. 1

Address:
City: **County:** **State:** **Telephone Number:** (915)335-3275

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: KRL427

File Number: 0002146055

Print Date:

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ATTN: DON CARLTON, DIR INFO SERV
ODESSA, CITY OF
411 W 8TH
ODESSA, TX 79760

Call Sign WQDY563	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 12-01-2005	Effective Date 12-01-2005	Expiration Date 12-01-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation
Countywide: ECTOR, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000453.41250000	MO	1		11K0F3E 9K30F1D	5.000	5.000			12-01-2006
1	1	000453.53750000	MO	1		11K0F3E 9K30F1D	5.000	5.000			12-01-2006

Control Points

Control Pt. No. 1

Address: 205 N GRANT

City: ODESSA **County:** ECTOR **State:** TX **Telephone Number:** (432)335-4860

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: WQDY563

File Number:

Print Date:

Waivers/Conditions:

NONE

Preferred
Reference
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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ODESSA, CITY OF
PO BOX 4398
ODESSA, TX 79760

Call Sign KVV738	File Number 0000957700
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 07-11-2002	Effective Date 07-11-2002	Expiration Date 08-20-2012	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Area of operation**
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
- Loc. 2 Area of operation**
Other:30 MIRA ODESSA TX
- Loc. 3 Address: DIXIE & POOL RD**
City: ODESSA County: ECTOR State: TX
Lat (NAD83): 31-49-51.5 N Long (NAD83): 102-20-52.5 W ASR No.: Ground Elev: 879.0
- Loc. 4 Address: 54TH & DAWN**
City: ODESSA County: ECTOR State: TX
Lat (NAD83): 31-53-30.4 N Long (NAD83): 102-22-31.5 W ASR No.: Ground Elev: 903.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000467.95000000	FX1	10		20K0F3E	40.000				
1	1	000467.97500000	FX1	10		20K0F3E	40.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: KVV738

File Number: 0000957700

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000467.95000000	MO	31		20K0F3E	100.000				
2	1	000467.97500000	MO	31		20K0F3E	100.000				
3	1	000462.95000000	FB2	1		20K0F3E	100.000		158.0		
4	1	000462.97500000	FB2	1		20K0F3E	100.000		52.0		

Control Points

Control Pt. No. 1

Address: 411 W 8TH

City: ODESSA County: State: TX Telephone Number: (915)335-3275

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ATTN: DON CARLTON
ODESSA, CITY OF
411 W. 8TH
PO BOX 4398
ODESSA, TX 79761

Call Sign KXM806	File Number 0004230540
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number 100430001038	

FCC Registration Number (FRN): 0001653427

Grant Date 04-01-2005	Effective Date 06-11-2010	Expiration Date 05-07-2015	Print Date 06-12-2010
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: COMMUNICATIONS BLDG DIXIE & POOL RD
City: ODESSA **County:** ECTOR **State:** TX
Lat (NAD83): 31-49-51.5 N **Long (NAD83):** 102-20-52.5 W **ASR No.:** **Ground Elev:** 880.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000453.10000000	FB2	1	50	11K0F3E 20K0F3E	100.000	100.000	146.0		
1	1	000453.10000000	FB	1	50	11K0F3E 20K0F3E	100.000	100.000	146.0		

Control Points

Control Pt. No. 1

Address: 411 W 8TH
City: ODESSA **County:** ECTOR **State:** TX **Telephone Number:** (915)335-3275

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: KXM806

File Number: 0004230540

Print Date: 06-12-2010

Associated Call Signs

Waivers/Conditions:

Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.209(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ATTN: POLICE DEPT
ODESSA, CITY OF
BOX 4398
ODESSA, TX 79760

Call Sign WGT447	File Number 0002146056
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 05-04-2005	Effective Date 05-04-2005	Expiration Date 07-06-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 211 NORTH LEE
City: ODESSA **County:** ECTOR **State:** TX
Lat (NAD83): 31-50-53.5 N **Long (NAD83):** 102-22-11.5 W **ASR No.:** **Ground Elev:** 888.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000465.05000000	FX1	1		20K0F3E	40.000		10.0		
1	1	000465.10000000	FX1	1		20K0F3E	40.000		10.0		
1	1	000465.15000000	FX1	1		20K0F3E	40.000		10.0		
1	1	000465.20000000	FX1	1		20K0F3E	40.000		10.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: WGT447

File Number: 0002146056

Print Date:

Control Points

Control Pt. No. 1

Address: 211 NORTH LEE ODESSA

City: TE **County:** **State:** AS **Telephone Number:** (915)335-3275

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ATTN: POLICE DEPT
ODESSA, CITY OF
BOX 4398
ODESSA, TX 79760

Call Sign WGT448	File Number 0002146057
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 05-04-2005	Effective Date 05-04-2005	Expiration Date 07-06-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 411 WEST 8TH
City: ODESSA **County:** ECTOR **State:** TX
Lat (NAD83): 31-50-56.5 N **Long (NAD83):** 102-22-31.5 W **ASR No.:** **Ground Elev:** 888.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000465.05000000	FX1	1		20K0F3E	40.000		25.0		
1	1	000465.10000000	FX1	1		20K0F3E	40.000		25.0		
1	1	000465.15000000	FX1	1		20K0F3E	40.000		25.0		
1	1	000465.20000000	FX1	1		20K0F3E	40.000		25.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: WGT448

File Number: 0002146057

Print Date:

Control Points

Control Pt. No. 1

Address: 411 WEST 8TH ODESSA

City: TE **County:** **State:** AS **Telephone Number:** (915)335-3275

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ODESSA, CITY OF
411 W 8TH ST
ODESSA, TX 79761

Call Sign WPIS437	File Number 0002294332
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 08-30-2005	Effective Date 08-30-2005	Expiration Date 10-18-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Operating within a 15.0 km radius around 31-49-15.5 N, 102-16-11.5 W, ECTOR county, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000453.68750000	MO	8		13K0F3E	2.000				
1	1	000458.68750000	MO	8		13K0F3E	2.000				

Control Points

Control Pt. No. 1

Address: 9600 S CR

City: ODESSA **County:** ECTOR **State:** TX **Telephone Number:** (432)561-9605

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: WPIS437

File Number: 0002294332

Print Date:

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ATTN: JAN GRAHAM
ODESSA, CITY OF
411 W. 8TH STREET
PO BOX 4398
ODESSA, TX 79760

Call Sign WQDY493	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 11-30-2005	Effective Date 11-30-2005	Expiration Date 11-30-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation
Countywide: ECTOR, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	002460.00000000	MO	1	1	17M6F8W	5.000	5.433			11-30-2006

Control Points

Control Pt. No. 1

Address: 411 W. 8Th St.
City: ODESSA **County:** ECTOR **State:** TX **Telephone Number:** (432)335-3245

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: WQDY493

File Number:

Print Date:

Waivers/Conditions:

Blanket clearance 0103-91

Preferred Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ATTN: INFORMATION SERVICES
ODESSA, CITY OF
411 W 8TH ST
ODESSA, TX 79761

Call Sign WQHB979	File Number 0003128488
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 06-25-2007	Effective Date 08-03-2007	Expiration Date 06-25-2017	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Operating within a 5.0 km radius around 31-55-25.0 N, 102-21-41.8 W,
ODESSA, ECTOR county, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000453.98750000	MO	20		11K2F1D 11K2F3E	2.000	2.000			06-25-2008
1	1	000458.98750000	MO	20		11K2F1D 11K2F3E	2.000	2.000			06-25-2008

Control Points

Control Pt. No. 1

Address: 7500 N GRANDVIEW

City: ODESSA **County:** ECTOR **State:** TX **Telephone Number:** (432)530-8181

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: WQHB979

File Number: 0003128488

Print Date:

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: CITY OF ODESSA

ATTN: JAN GRAHAM
CITY OF ODESSA
411 W 8TH ST
ODESSA, TX 79761

Call Sign WQIH290	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 02-11-2008	Effective Date 02-11-2008	Expiration Date 02-11-2018	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation
Countywide: ECTOR, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	002459.00000000	MO	1		17M0F8W	5.000	48.417			02-11-2009
1	1	002475.00000000	MO	1		17M0F8W	5.000	48.417			02-11-2009

Control Points

Control Pt. No. 1

Address: 411 W 8TH ST

City: ODESSA **County:** ECTOR **State:** TX **Telephone Number:** (432)335-3245

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CITY OF ODESSA

Call Sign: WQIH290

File Number:

Print Date:

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: ODESSA, CITY OF

ODESSA, CITY OF
PO BOX 4398
ODESSA, TX 79760

Call Sign WYG234	File Number 0001603655
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653427

Grant Date 02-04-2004	Effective Date 02-04-2004	Expiration Date 03-09-2014	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: DIXIE & POOL RD
City: ODESSA **County:** ECTOR **State:** TX
Lat (NAD83): 31-49-51.5 N **Long (NAD83):** 102-20-52.5 W **ASR No.:** **Ground Elev:** 879.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000463.0000000	FB	1		20K0F3E	75.000	150.000	158.0	0.0	
1	1	000463.0250000	FB	1		20K0F3E	75.000	150.000	158.0	0.0	
1	1	000463.0500000	FB	1		20K0F3E	75.000	150.000	158.0	0.0	
1	1	000463.0750000	FB	1		20K0F3E	75.000	150.000	158.0	0.0	

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: ODESSA, CITY OF

Call Sign: WYG234

File Number: 0001603655

Print Date:

Control Points

Control Pt. No. 1

Address: MEDICAL CENTER HOSPITAL 4TH & ALLEGHANEY

City: ODESSA **County:** **State:** TX **Telephone Number:** (915)333-7111

Associated Call Signs

Waivers/Conditions:

Authorization on a secondary basis.

(463.000 4663.025 463.050)

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APPENDIX F – GAINES COUNTY FCC LICENSES

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: GAINES, COUNTY OF

ATTN: CIVIL DEFENSE MAX TOWNSEND
GAINES, COUNTY OF
PO BOX 847
SEMINOLE, TX 79360

Call Sign WXR274	File Number 0004197174
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number 100401000781	

FCC Registration Number (FRN): 0001604644

Grant Date 06-05-2002	Effective Date 05-13-2010	Expiration Date 07-21-2012	Print Date 05-14-2010
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Land Mobile Control Station meeting the 6.1 Meter Rule: TX

Loc. 2 Address: 1.27 MI E OF COURTHOUSE S SIDE HWY 180

City: SEMINOLE **County:** GAINES **State:** TX

Lat (NAD83): 32-42-30.4 N **Long (NAD83):** 102-37-46.7 W **ASR No.:** **Ground Elev:** 1005.0

Loc. 3 Area of operation

Operating within a 64.0 km radius around fixed location 2

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.08500000	FX1	1		11K0F1E 11K0F3E 20K0F3E 8K10F1E	40.000	40.000			
2	1	000155.08500000	FB2	1		11K0F1E 11K0F3E 20K0F3E 8K10F1E	45.000	52.000	85.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: GAINES, COUNTY OF

Call Sign: WXR274

File Number: 0004197174

Print Date: 05-14-2010

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000154.08500000	MO	70		11K0F1E 11K0F3E 20K0F3E 8K10F1E	40.000	40.000			
3	1	000155.08500000	MO	70		11K0F1E 11K0F3E 20K0F3E 8K10F1E	40.000	40.000			

Control Points

Control Pt. No. 1

Address: LAW ENFORCEMENT BLDG 2ND ST & AVE B SE

City: SEMINOLE County: GAINES State: TX Telephone Number: (915)758-3311

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: GAINES, COUNTY OF

ATTN: SHERIFF DEPT. JON KEY
GAINES, COUNTY OF
301 E. AVE A
PO BOX P.O. BOX 847
SEMINOLE, TX 79360

Call Sign WPTN910	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0005773080

Grant Date 11-13-2001	Effective Date 11-13-2001	Expiration Date 11-13-2011	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 305 SW THIRD ST
City: SEMINOLE County: GAINES State: TX
Lat (NAD83): 32-42-57.0 N Long (NAD83): 102-38-50.0 W ASR No.: 1047018 Ground Elev: 1008.0

Loc. 2 Area of operation
Countywide: GAINES, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.62500000	FB2	1		20K0F3E	200.000	224.000	97.5	96.3	11-13-2002
2	1	000154.65000000	MO	20		20K0F3E	5.000	5.000			11-13-2002
2	1	000154.65000000	MO	25		20K0F3E	110.000	112.000			11-13-2002

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: GAINES, COUNTY OF

Call Sign: WPTN910

File Number:

Print Date:

Control Points

Control Pt. No. 1

Address: 301 E. AVENUE A

City: SEMINOLE **County:** GAINES **State:** TX **Telephone Number:** (915)758-9871

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: NORTHEAST GAINES COUNTY EMERGENCY SERVICES , DISTRICT #1

NORTHEAST GAINES COUNTY EMERGENCY SERVICES ,
DISTRICT #1
RT 1 BOX 125
SEAGRAVES, TX 79359

Call Sign WQGY673	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0005775887

Grant Date 05-26-2007	Effective Date 05-26-2007	Expiration Date 05-26-2017	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** 1 KM N ON HWY 385 FROM HWY 385 & HWY 83
City: SEAGRAVES **County:** GAINES **State:** TX
Lat (NAD83): 32-57-01.0 N **Long (NAD83):** 102-33-03.0 W **ASR No.:** 1062797 **Ground Elev:** 1020.2
- Loc. 2 Area of operation**
 Operating within a 40.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.37000000	FB2	1		11K2F3E 20K0F3E	75.000	200.000	93.0	82.6	05-26-2008
2	1	000153.77000000	MO	50		11K2F3E 20K0F3E	50.000	50.000			05-26-2008
2	1	000154.37000000	MO	50		11K2F3E 20K0F3E	50.000	50.000			05-26-2008

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: NORTHEAST GAINES COUNTY EMERGENCY

Call Sign: WQGY673

File Number:

Print Date:

Control Points

Control Pt. No. 1

Address: 1406 AVE E

City: SEAGRAVES **County:** GAINES **State:** TX **Telephone Number:** (806)387-3440

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: NORTHEAST GAINES COUNTY EMERGENCY SERVICES DISTRICT

ATTN: DANE SMITH
NORTHEAST GAINES COUNTY EMERGENCY SERVICES DISTRICT
1406 AVE E
SEAGRAVES, TX 79359

Call Sign WPYN386	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0005775887

Grant Date 09-15-2003	Effective Date 09-15-2003	Expiration Date 09-15-2013	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** 1406 AVE E
City: SEAGRAVES **County:** GAINES **State:** TX
Lat (NAD83): 32-56-49.0 N **Long (NAD83):** 102-33-47.0 W **ASR No.:** 1227953 **Ground Elev:** 1019.8
- Loc. 2 Area of operation**
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
- Loc. 3 Area of operation**
Countywide: GAINES, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.70750000	FB2	1		11K0F3E	100.000	250.000	43.0	39.0	09-15-2004
1	2	000154.65000000	FX1	1		20K0F3E	45.000	100.000	15.0	12.0	09-15-2004
2	1	000153.74750000	FX1	1		11K0F3E	25.000	20.000			

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: NORTHEAST GAINES COUNTY EMERGENCY

Call Sign: WPYN386

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000153.74750000	MO	60		11K0F3E	100.000	100.000			09-15-2004
3	1	000155.70750000	MO	60		11K0F3E	100.000	100.000			09-15-2004

Control Points

Control Pt. No. 1

Address: 1406 AVE E

City: SEAGRAVES County: GAINES State: TX Telephone Number: (806)387-3440

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: NORTHEAST GAINES COUNTY EMERGENCY SERVICES DISTRICT

ATTN: BANE SMITH
NORTHEAST GAINES COUNTY EMERGENCY SERVICES DISTRICT
1406 AVE E
SEAGRAVES, TX 79359

Call Sign WPTH244	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0005775887

Grant Date 10-02-2001	Effective Date 10-02-2001	Expiration Date 10-02-2011	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 1406 AVE E
City: SEAGRAVES County: GAINES State: TX
Lat (NAD83): 32-56-49.0 N Long (NAD83): 102-33-47.0 W ASR No.: 1227953 Ground Elev: 1019.8

Loc. 2 Area of operation
Operating within a 30.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.96500000	FB2	1		20K0F3E	50.000	100.000	43.0	39.0	10-02-2002
2	1	000158.83500000	MO	50		20K0F3E	100.000	100.000			10-02-2002

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: NORTHEAST GAINES COUNTY EMERGENCY

Call Sign: WPTH244

File Number:

Print Date:

Control Points

Control Pt. No. 1

Address: 1406 AVE E

City: SEAGRAVES **County:** GAINES **State:** TX **Telephone Number:** (806)387-3440

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: SEMINOLE, CITY OF

ATTN: PUBLIC WORKS GARY DUNCAN
SEMINOLE, CITY OF
409 NW AVE F
SEMINOLE, TX 79360

Call Sign WNYG639	File Number 0004535512
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number 101215002660	

FCC Registration Number (FRN): 0001652924

Grant Date 04-27-2004	Effective Date 12-16-2010	Expiration Date 07-16-2014	Print Date 12-17-2010
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 409 NW AVE F
City: SEMINOLE **County:** GAINES **State:** TX
Lat (NAD83): 32-43-32.4 N **Long (NAD83):** 102-39-01.7 W **ASR No.:** N/A **Ground Elev:** 1008.0

Loc. 2 Area of operation
Operating within a 20.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.8050000	FB2	1		11K0F3E 20K0F3E	45.000	112.000	24.0	24.0	
2	1	000153.9350000	MO	45		11K0F3E 20K0F3E	100.000	100.000			
2	1	000155.8050000	MO	45		11K0F3E 20K0F3E	100.000	100.000			

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: SEMINOLE, CITY OF

Call Sign: WNYG639

File Number: 0004535512

Print Date: 12-17-2010

Control Points

Control Pt. No. 1

Address: CITY HALL

City: SEMINOLE **County:** GAINES **State:** TX **Telephone Number:** (432)758-3705

Associated Call Signs

Waivers/Conditions:

Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.209(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.

APPENDIX G – GLASSCOCK COUNTY FCC LICENSES

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: GLASSCOCK, COUNTY OF

ATTN: SHERIFFS DEPT
GLASSCOCK, COUNTY OF
GLASSCOCK CTY COURTHOUSE
GARDEN CITY, TX 79739

Call Sign KVJ915	File Number 0001158672
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0008262255

Grant Date 01-16-2003	Effective Date 01-16-2003	Expiration Date 03-21-2013	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: NE COR OF COURTHOUSE ON ST HWY 158
City: GARDEN CITY County: GLASSCOCK State: TX
Lat (NAD83): 31-51-47.5 N Long (NAD83): 101-28-50.4 W ASR No.: Ground Elev: 803.0

Loc. 3 Area of operation
Countywide: GLASSCOCK, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.37000000	FB	1		20K0F3E	350.000	1156.000	53.0		
1	2	000155.65500000	FB2	1		20K0F3E	350.000	1128.000	59.0		
3	1	000154.86000000	MO	20		20K0F3E	110.000				
3	1	000154.95000000	MO	20		20K0F3E	110.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: GLASSCOCK, COUNTY OF

Call Sign: KVVJ915

File Number: 0001158672

Print Date:

Control Points

Control Pt. No. 1

Address: SHERIFFS OFC AND RESIDENCE

City: GARDEN CITY **County:** **State:** TX **Telephone Number:** (915)354-2404

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

APPENDIX H – HOWARD COUNTY FCC LICENSES

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: HOWARD, COUNTY OF

ATTN: SHERIFF
HOWARD, COUNTY OF
3611 WEST HWY 80
PO BOX 1949
BIG SPRING, TX 79720

Call Sign KNFR291	File Number 0004410561
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number 31PWAP70022021	

FCC Registration Number (FRN): 0004541058

Grant Date 04-13-2002	Effective Date 12-07-2010	Expiration Date 05-14-2012	Print Date 12-08-2010
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 2 Area of operation**
Countywide: HOWARD, TX
- Loc. 3 Address:** NORTH EDGE OF SOUTH MOUNTAIN (ON TOP)
City: BIG SPRING **County:** HOWARD **State:** TX
Lat (NAD83): 32-13-21.4 N **Long (NAD83):** 101-27-34.4 W **ASR No.:** 1065159 **Ground Elev:** 844.3
- Loc. 4 Address:** 3611 WEST HIGHWAY 80
City: BIG SPRING **County:** HOWARD **State:** TX
Lat (NAD83): 32-14-06.0 N **Long (NAD83):** 101-30-43.5 W **ASR No.:** 1276030 **Ground Elev:** 776.0
- Loc. 5 Address:** NORTH PARK ROAD 9
City: BIG SPRING **County:** HOWARD **State:** TX
Lat (NAD83): 32-13-50.2 N **Long (NAD83):** 101-29-30.3 W **ASR No.:** **Ground Elev:** 857.0
- Loc. 6 Address:** 300 N MAIN
City: BIG SPRING **County:** HOWARD **State:** TX
Lat (NAD83): 32-15-05.9 N **Long (NAD83):** 101-28-37.7 W **ASR No.:** **Ground Elev:** 741.9

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: HOWARD, COUNTY OF

Call Sign: KNFR291

File Number: 0004410561

Print Date: 12-08-2010

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000154.72500000	MO	120		11K0F3E 20K0F3E 8K10F1D 8K10F1E	100.000	100.000			
3	1	000155.41500000	FB2	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	125.000	300.000	71.4	136.4	
3	2	000458.05000000	FX1	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	3.5	68.5	12-07-2011
3	3	000453.30000000	FX2	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	3.5	68.5	12-07-2011
4	1	000458.30000000	FX1	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	15.2	13.4	12-07-2011
4	2	000155.49000000	FB	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	7.7	6.0	12-07-2011
4	3	000154.72500000	FX1	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	6.2	4.4	12-07-2011
4	4	000458.25000000	FX1	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	6.2	4.4	12-07-2011
5	1	000155.41500000	FB2	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	125.000	300.000	8.4	87.4	12-07-2011

Licensee Name: HOWARD, COUNTY OF

Call Sign: KNFR291

File Number: 0004410561

Print Date: 12-08-2010

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
5	2	000453.25000000	FX2	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	4.0	83.0	12-07-2011
5	3	000453.05000000	FX2	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	4.0	83.0	12-07-2011
6	1	000154.72500000	FX1	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	15.000	15.000	2.0	-32.0	12-07-2011
6	2	000458.25000000	FX1	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	2.0	-32.0	12-07-2011
6	3	000458.30000000	FX1	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	2.0	-32.0	12-07-2011

Control Points

Control Pt. No. 1

Address: 300 SOUTH MAIN ST.

City: BIG SPRING County: HOWARD State: TX Telephone Number: (432)264-2244

Control Pt. No. 2

Address: 3611 WEST HWY 80

City: BIG SPRING County: HOWARD State: TX Telephone Number: (432)264-2244

Control Pt. No. 3

Address: NORTH PARK ROAD 9

City: BIG SPRING County: HOWARD State: TX Telephone Number: (432)264-2244

Associated Call Signs

Licensee Name: HOWARD, COUNTY OF

Call Sign: KNFR291

File Number: 0004410561

Print Date: 12-08-2010

Waivers/Conditions:

Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.209(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: HOWARD, COUNTY OF

ATTN: SHERIFFS DEPT
HOWARD, COUNTY OF
HOWARD CTY COURTHOUSE
BIG SPRING, TX 79720

Call Sign KVJ916	File Number 0001766543
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0004541058

Grant Date 06-11-2004	Effective Date 06-11-2004	Expiration Date 08-24-2014	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Countywide: HOWARD, TX

Loc. 2 Address: SOUTH MTN 2.3 MI S CITY HALL

City: BIG SPRINGS County: HOWARD State: TX

Lat (NAD83): 32-13-21.4 N Long (NAD83): 101-27-32.4 W ASR No.: Ground Elev: 846.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.75500000	MO	21		20K0F3E	350.000				
1	1	000154.95000000	MO	21		20K0F3E	350.000				
2	1	000155.37000000	FB2	1		20K0F3E	350.000	400.000	76.0		
2	1	000155.53500000	FB2	1		20K0F3E	350.000	400.000	76.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: HOWARD, COUNTY OF

Call Sign: KVJ916

File Number: 0001766543

Print Date:

Control Points

Control Pt. No. 1

Address: SHERIFFS OFC & BIG SPRING POLICE DEPT BIG

City: Big SPRINGS **County:** **State:** TX **Telephone Number:** (432)264-2244

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: HOWARD, COUNTY OF

ATTN: HOWARD COUNTY VFD CHIEF T SULLIVAN
HOWARD, COUNTY OF
PO BOX 1949
BIG SPRING, TX 79721-1949

Call Sign WQHB953	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0016354524

Grant Date 06-25-2007	Effective Date 09-04-2007	Expiration Date 06-25-2017	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 1.75M E OF US87 OFF DRIVER RD
City: BIG SPRING **County:** HOWARD **State:** TX
Lat (NAD83): 32-12-05.0 N **Long (NAD83):** 101-26-42.0 W **ASR No.:** 1055404 **Ground Elev:** 856.0

Loc. 2 Area of operation
Operating within a 40.0 km radius around fixed location 1

Loc. 3 Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule: HOWARD county, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.1150000	FB2	1	100	11K2F9W 20K0F3E	125.000	150.000	128.0	200.8	06-25-2008
1	2	000155.76750000	FB2	1		11K2F9W	125.000	150.000	100.0	172.8	09-04-2008
2	1	000155.1150000	MO	100		11K2F9W 20K0F3E	110.000	160.000			06-25-2008

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: HOWARD, COUNTY OF

Call Sign: WQHB953

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000159.04500000	MO	100		11K2F9W 20K0F3E	110.000	160.000			06-25-2008
2	1	000155.76750000	MO	100		11K2F9W	110.000	160.000			09-04-2008
2	1	000158.85750000	MO	100		11K2F9W	110.000	160.000			09-04-2008
3	1	000159.04500000	FX1	5		11K2F9W 20K0F3E	50.000	100.000			
3	1	000158.85750000	FX1	100		11K2F9W	50.000	100.000			

Control Points

Control Pt. No. 1

Address: 400 E. 4TH STREET

City: BIG SPRING County: HOWARD State: TX Telephone Number: (432)264-2550

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: BIG SPRING CITY OF

ATTN: LT. TERRY CHAMNESS
BIG SPRING CITY OF
400 EAST FOURTH
BIG SPRING, TX 79720

Call Sign WPWK985	File Number 0004414788
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number 31PWAP40022029	

FCC Registration Number (FRN): 0006832018

Grant Date 12-10-2002	Effective Date 12-09-2010	Expiration Date 12-10-2012	Print Date 12-10-2010
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: NORTH EDGE OF SOUTH MOUNTAIN (ON TOP)
City: BIG SPRING County: HOWARD State: TX
Lat (NAD83): 32-13-21.4 N Long (NAD83): 101-27-34.4 W ASR No.: 1065159 Ground Elev: 844.3
- Loc. 2** Area of operation
Countywide: HOWARD, TX
- Loc. 3** Address: 400 EAST FOURTH
City: BIG SPRING County: HOWARD State: TX
Lat (NAD83): 32-15-09.7 N Long (NAD83): 101-28-21.0 W ASR No.: Ground Elev: 740.0
- Loc. 4** Address: 3611 WEST HIGHWAY 80
City: BIG SPRING County: HOWARD State: TX
Lat (NAD83): 32-14-06.0 N Long (NAD83): 101-30-43.5 W ASR No.: 1276030 Ground Elev: 776.0
- Loc. 5** Address: 1110 NORTH SAN ANTONIO
City: BIG SPRING County: HOWARD State: TX
Lat (NAD83): 32-15-41.4 N Long (NAD83): 101-29-34.2 W ASR No.: Ground Elev: 759.5

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: BIG SPRING CITY OF

Call Sign: WPWK985

File Number: 0004414788

Print Date: 12-10-2010

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000158.94000000	FB2	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	120.000	180.000	77.4	140.3	12-10-2003
1	2	000465.52500000	FX1	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	3.5	66.0	12-09-2011
2	1	000153.92000000	MO	245		11K0F3E 20K0F3E 8K10F1D 8K10F1E	45.000	90.000			12-10-2003
2	1	000158.94000000	MO	245		11K0F3E 20K0F3E 8K10F1D 8K10F1E	45.000	90.000			12-10-2003
3	1	000153.92000000	FX1	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	9.0	-30.0	12-09-2011
3	2	000465.55000000	FX1	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	10.0	-29.0	12-09-2011
4	1	000465.55000000	FX1	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	2.000	25.000	4.5	3.0	12-09-2011
5	1	000158.94000000	FB2	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	120.000	180.000	10.0	-19.0	12-09-2011
5	2	000460.55000000	FX2	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	6.0	-13.0	12-09-2011

Licensee Name: BIG SPRING CITY OF

Call Sign: WPWK985

File Number: 0004414788

Print Date: 12-10-2010

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
5	3	000460.52500000	FX2	1		11K0F3E 20K0F3E 8K10F1D 8K10F1E	5.000	25.000	6.0	-13.0	12-09-2011

Control Points

Control Pt. No. 1

Address: 400 EAST FOURTH

City: BIG SPRING County: HOWARD State: TX Telephone Number: (915)264-2550

Control Pt. No. 2

Address: 100 WRIGHT AVENUE

City: BIG SPRING County: HOWARD State: TX Telephone Number: (915)264-2401

Control Pt. No. 3

Address: 3611 WEST HWY 80

City: BIG SPRING County: HOWARD State: TX Telephone Number: (915)264-2244

Associated Call Signs

Waivers/Conditions:

Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.209(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: BIG SPRING, CITY OF

ATTN: TERRY CHAMNESS ADMIN LIEUTENANT
BIG SPRING, CITY OF
400 E 4TH ST
BIG SPRING, TX 79720

Call Sign WQGJ671	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0006832018

Grant Date 02-07-2007	Effective Date 12-11-2007	Expiration Date 02-07-2017	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: NORTH EDGE OF SOUTH MOUNTAIN (ON TOP)
City: BIG SPRING County: HOWARD State: TX
Lat (NAD83): 32-13-21.4 N Long (NAD83): 101-27-34.4 W ASR No.: 1065159 Ground Elev: 844.3
- Loc. 2** Address: 400 E 4TH STREET
City: BIG SPRING County: HOWARD State: TX
Lat (NAD83): 32-15-10.1 N Long (NAD83): 101-28-20.7 W ASR No.: Ground Elev: 741.2
- Loc. 3** Address: 300 S MAIN STREET
City: BIG SPRING County: HOWARD State: TX
Lat (NAD83): 32-15-05.8 N Long (NAD83): 101-28-37.4 W ASR No.: Ground Elev: 742.8
- Loc. 4** Address: N. EDGE OF S. MTN, 2.3KM S. OF CITY HALL
City: BIG SPRING County: HOWARD State: TX
Lat (NAD83): 32-13-21.4 N Long (NAD83): 101-27-34.4 W ASR No.: 1065159 Ground Elev: 844.3
- Loc. 5** Area of operation
Operating within a 40.0 km radius around fixed location 4
- Loc. 6** Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule: HOWARD county, TX

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: BIG SPRING, CITY OF

Call Sign: WQGJ671

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000453.30000000	FXO	1		20K0F3E	10.000	50.000	6.1	71.0	02-07-2008
2	1	000453.30000000	FXO	1		20K0F3E	10.000	50.000	6.1	-34.5	02-07-2008
3	1	000453.30000000	FXO	1		20K0F3E	10.000	50.000	6.1	-31.0	02-07-2008
4	1	000155.53500000	FB2	1		11K2F9W 20K0F3E	125.000	250.000	77.4	125.7	12-11-2008
5	1	000155.53500000	MO	100		11K2F9W 20K0F3E	110.000	160.000			12-11-2008
5	1	000154.75500000	MO	100		11K2F9W 20K0F3E	110.000	160.000			12-11-2008
6	1	000154.75500000	FX1	5		11K2F9W 20K0F3E	50.000	100.000			

Control Points

Control Pt. No. 1

Address: BIG SPRING POLICE DEPT, 400 E 4TH STREET

City: BIG SPRING County: HOWARD State: TX Telephone Number: (432)264-2550

Control Pt. No. 2

Address: HOWARD COUNTY SHERIFFS OFC, 300 S MAIN STREET

City: BIG SPRING County: HOWARD State: TX Telephone Number: (432)264-2244

Associated Call Signs

KVJ916

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: BIG SPRING, CITY OF

ATTN: FIRE CHIEF
BIG SPRING, CITY OF
310 NOLAN ST
BIG SPRING, TX 79720

Call Sign KNGZ306	File Number 0003666939
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number C0805151614050	

FCC Registration Number (FRN): 0005773742

Grant Date 08-08-2001	Effective Date 12-09-2008	Expiration Date 08-09-2011	Print Date 12-10-2008
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Land Mobile Control Station meeting the 6.1 Meter Rule: TX

Loc. 2 Address: 2.3 MI S OF CITY HALL

City: BIG SPRING County: HOWARD State: TX

Lat (NAD83): 32-13-21.4 N Long (NAD83): 101-27-32.4 W ASR No.: Ground Elev: 846.0

Loc. 3 Area of operation

Operating within a 48.0 km radius around fixed location 2

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000153.89000000	FX1	2		11K3F2E 11K3F3E 20K0F3E	45.000	45.000			
2	1	000154.31000000	FB2	1		11K3F2E 11K3F3E 20K0F3E	100.000	245.000	75.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: BIG SPRING, CITY OF

Call Sign: KNGZ306

File Number: 0003666939

Print Date: 12-10-2008

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000153.89000000	MO	35		11K3F2E 11K3F3E 20K0F3E	100.000	100.000			
3	1	000154.31000000	MO	35		11K3F2E 11K3F3E 20K0F3E	100.000	100.000			

Control Points

Control Pt. No. 1

Address: FIRE STA NO 1 4TH AND NOLAN

City: BIG SPRING **County:** **State:** TX **Telephone Number:** (915)263-8311

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: BIG SPRING, CITY OF

ATTN: JIM PIPER
BIG SPRING, CITY OF
310 NOLAN
BIG SPRING, TX 79720

Call Sign KCX944	File Number 0001946259
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001655489

Grant Date 11-23-2004	Effective Date 11-23-2004	Expiration Date 02-01-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 3.7 KM S OF CITY HALL
City: BIG SPRING **County:** HOWARD **State:** TX
Lat (NAD83): 32-13-21.4 N **Long (NAD83):** 101-27-34.4 W **ASR No.:** 1065159 **Ground Elev:** 844.0

Loc. 2 Area of operation
 Operating within a 40.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.98000000	FB2	1		20K0F3E	50.000	100.000	46.0	112.0	
2	1	000154.98000000	MO	90		20K0F3E	110.000	110.000			
2	1	000158.79000000	MO	90		20K0F3E	110.000	110.000			

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: BIG SPRING, CITY OF

Call Sign: KCX944

File Number: 0001946259

Print Date:

Control Points

Control Pt. No. 2

Address: 310 Nolan

City: Big Spring **County:** HOWARD **State:** TX **Telephone Number:** (432)264-2550

Control Pt. No. 1

Address: 1380 AIRPARK DR E

City: BIG SPRING **County:** HOWARD **State:** TX **Telephone Number:** (432)264-2392

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: BIG SPRING, CITY OF

ATTN: JIM PIPER
BIG SPRING, CITY OF
310 NOLAN ST
BIG SPRING, TX 79720

Call Sign WXP544	File Number 0001742803
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0010943454

Grant Date 09-08-2004	Effective Date 09-08-2004	Expiration Date 05-11-2014	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Other: VIC:BIG SPRING TX

Loc. 2 Address: FRONT ST BLDG 3

City: BIG SPRING **County:** HOWARD **State:** TX

Lat (NAD83): 32-13-00.4 N **Long (NAD83):** 101-31-01.4 W **ASR No.:** **Ground Elev:** 781.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000158.7450000	MO	16		20K0F3E	100.000				
2	1	000158.7450000	FB	1		20K0F3E	100.000	250.000	9.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: BIG SPRING, CITY OF

Call Sign: WXP544

File Number: 0001742803

Print Date:

Control Points

Control Pt. No. 1

Address: BLDG 3 BIG SPRING INDUSTRIAL PARK AIRPORT TERMINAL BLDG

City: BIG SPRING **County:** **State:** TX **Telephone Number:** (915)264-2500

Associated Call Signs

Waivers/Conditions:

Waiver of rule 1.949 granted 9/8/04.

APPENDIX I – LOVING COUNTY FCC LICENSES

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: LOVING, COUNTY OF

ATTN: RICHARD PUTNAM
LOVING, COUNTY OF
121 N PECOS ST
PO BOX 104
MENTONE, TX 79754

Call Sign WPUS217	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001648815

Grant Date 04-22-2002	Effective Date 04-22-2002	Expiration Date 04-22-2012	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: COURTHOUSE SQUARE BELL ST AND SH302
City: MENTONE County: LOVING State: TX
Lat (NAD83): 31-42-23.5 N Long (NAD83): 103-35-55.7 W ASR No.: Ground Elev: 818.0
- Loc. 2** Area of operation
Operating within a 40.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.5950000	FB2	1		20K0F3E	100.000	100.000	37.0	14.0	04-22-2003
2	1	000154.8750000	MO	10		20K0F3E	40.000	40.000			04-22-2003
2	1	000155.5950000	MO	10		20K0F3E	40.000	40.000			04-22-2003

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: LOVING, COUNTY OF

Call Sign: WPUS217

File Number:

Print Date:

Control Points

Control Pt. No. 1

Address: COURTHOUSE BELL ST SH 302

City: MENTONE **County:** LOVING **State:** TX **Telephone Number:** (915)377-2411

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

APPENDIX J – MARTIN COUNTY FCC LICENSES

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MARTIN, COUNTY OF

ATTN: SHERIFFS DEPT
MARTIN, COUNTY OF
BOX 355
PO BOX 355
STANTON, TX 79782

Call Sign KNBC401	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001648773

Grant Date 02-27-2002	Effective Date 08-31-2009	Expiration Date 03-19-2012	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** 2.5 MI SE
City: STANTON **County:** MARTIN **State:** TX
Lat (NAD83): 32-05-48.0 N **Long (NAD83):** 101-46-27.0 W **ASR No.:** 1204666 **Ground Elev:** 817.5
- Loc. 2 Address:** COUNTY COURTHOUSE
City: STANTON **County:** MARTIN **State:** TX
Lat (NAD83): 32-07-57.4 N **Long (NAD83):** 101-47-28.5 W **ASR No.:** **Ground Elev:** 812.0
- Loc. 3 Area of operation**
Operating within a 80.0 km radius around fixed location 1
- Loc. 4 Area of operation**
Operating within a 40.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.5950000	FB2	1		20K0F3E	85.000	260.000	13.0	27.4	
2	1	000154.8750000	FX1	1		20K0F3E	35.000	52.000	24.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MARTIN, COUNTY OF

Call Sign: KNBC401

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000155.37000000	FB	1		20K0F3E	110.000	380.000	24.0		
2	1	000155.59500000	FB	1		20K0F3E	35.000	52.000	24.0		
3	1	000154.95000000	MO	25		20K0F3E	110.000				
4	1	000154.87500000	MO	25		20K0F3E	110.000	110.000			08-31-2010
4	1	000155.59500000	MO	25		20K0F3E	110.000	110.000			08-31-2010

Control Points

Control Pt. No. 1

Address: 200 N SAINT PETER

City: STANTON County: MARTIN State: TX Telephone Number: (432)756-3336

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: COUNTY OF MARTIN

ATTN: H D HOWARD
COUNTY OF MARTIN
PO BOX 778
STANTON, TX 79782

Call Sign WNQH633	File Number 0001839904
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001648773

Grant Date 08-30-2004	Effective Date 08-30-2004	Expiration Date 09-12-2014	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** 1 MI W ON HWY 176
City: LENORAH **County:** MARTIN **State:** TX
Lat (NAD83): 32-18-12.4 N **Long (NAD83):** 101-53-02.5 W **ASR No.:** **Ground Elev:** 864.0
- Loc. 2 Area of operation**
Operating within a 32.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.8350000	FB	1		20K0F3E	50.000	90.000	24.0		
2	1	000155.8350000	MO	6		20K0F3E	50.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: COUNTY OF MARTIN

Call Sign: WNQH633

File Number: 0001839904

Print Date:

Control Points

Control Pt. No. 1

Address: 1 MI W ON HWY 176

City: LENORAH **County:** **State:** TX **Telephone Number:** (915)459-2405

Associated Call Signs

Waivers/Conditions:

APPLICANT MUST USE TONE CODE OF 179.9 FOR TRANSMIT AND RECEIVE SQUELCH.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: STANTON, CITY OF

ATTN: DANNY FRYAR
STANTON, CITY OF
PO BOX 370
STANTON, TX 79782

Call Sign WNSW678	File Number 0002155603
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001652791

Grant Date 05-11-2005	Effective Date 05-11-2005	Expiration Date 07-31-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 102 W SCHOOL RD
City: STANTON **County:** MARTIN **State:** TX
Lat (NAD83): 32-07-29.4 N **Long (NAD83):** 101-47-31.5 W **ASR No.:** **Ground Elev:** 812.0

Loc. 2 Area of operation
Operating within a 40.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.9850000	FB	1	1	20K0F3E	45.000	100.000	6.0		
2	1	000155.9850000	MO	15		20K0F3E	45.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: STANTON, CITY OF

Call Sign: WNSW678

File Number: 0002155603

Print Date:

Control Points

Control Pt. No. 1

Address: 102 W SCHOOL ST.

City: STANTON **County:** MARTIN **State:** TX **Telephone Number:** (432)756-3301

Associated Call Signs

Waivers/Conditions:

Authorization on a secondary basis.

(FB)

APPENDIX K – MIDLAND COUNTY FCC LICENSES

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MIDLAND COUNTY SHERIFF'S OFFICE

ATTN: SHERIFF GARY PAINTER
MIDLAND COUNTY SHERIFF'S OFFICE
400 S. MAIN STREET
PO BOX 11287
MIDLAND, TX 79702

Call Sign KVJ918	File Number 0004518906
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number 101130002606	

FCC Registration Number (FRN): 0001648740

Grant Date 04-02-2003	Effective Date 02-03-2011	Expiration Date 06-05-2013	Print Date 02-04-2011
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: NW COR TAYLOR & HENDERSON
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 31-59-00.4 N Long (NAD83): 102-03-03.5 W ASR No.: Ground Elev: 839.0
- Loc. 2** Address: 3718 E HWY 158
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 31-58-35.0 N Long (NAD83): 102-01-06.0 W ASR No.: 1057247 Ground Elev: 839.1
- Loc. 3** Address: 601 N LORAIN
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 32-00-13.4 N Long (NAD83): 102-04-34.5 W ASR No.: N/A Ground Elev: 844.0
- Loc. 4** Address: 400 S MAIN
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 31-59-40.4 N Long (NAD83): 102-04-28.5 W ASR No.: N/A Ground Elev: 846.0
- Loc. 5** Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
- Loc. 6** Area of operation
Operating within a 50.0 km radius around fixed location 1

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: KVVJ918

File Number: 0004518906

Print Date: 02-04-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.37000000	FB	1		11K2F1D 11K2F1E 20K0F3E 8K10F1D 8K10F1E	100.000	160.000	61.0	55.0	
1	2	000453.15000000	FB2	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 7K60FXD 7K60FXE 8K10F1D 8K10F1E	100.000	62.000	76.0	70.0	
1	3	000155.61000000	FB2	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	100.000	209.000	82.0	75.0	
1	1	000155.47500000	FB	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	110.000	220.000	61.0	55.0	07-03-2004
1	1	000155.75250000	FB	1		11K2F1D 11K2F1E 11K2F9W	100.000	209.000	61.0	55.0	10-23-2008
<p>Frequency 000155.75250000 Special Condition This interoperability frequency is dedicated for the express purpose of nationwide interoperability calling.</p>											
1	3	000155.61750000	FB2	1		11K2F1D 11K2F1E 11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	100.000	209.000	82.0	75.0	10-23-2010

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: KVVJ918

File Number: 0004518906

Print Date: 02-04-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000155.07000000	FB2	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	100.000	196.000	152.0	150.0	
2	1	000158.92500000	FB2	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	100.000	196.000	152.0	150.0	
2	1	000155.02500000	FB	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	50.000	80.000	152.0	150.0	07-03-2004
2	1	000155.07750000	FB2	1		11K0F1E 11K0F3E 11K2F1D 11K2F1E 8K10F1D 8K10F1E	100.000	196.000	152.0	150.0	07-03-2004
2	1	000158.93250000	FB2	1		11K0F1E 11K0F3E 11K2F1D 11K2F1E 8K10F1D 8K10F1E	100.000	196.000	152.0	150.0	07-03-2004
<p>Frequency 000158.93250000 Special Condition Authorization on a secondary basis.</p>											
2	1	000154.37000000	FB2	1		11K0F1E 11K0F3E 11K2F1D 11K2F1E 8K10F1D 8K10F1E	100.000	196.000	152.0	150.0	04-26-2008

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: KVVJ918

File Number: 0004518906

Print Date: 02-04-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000158.97000000	FB	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	100.000	72.000	26.0	19.0	
3	2	000153.87500000	FX1	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	30.000	108.000	31.0	24.0	
3	2	000154.77000000	FX1	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	30.000	108.000	31.0	24.0	
3	2	000156.09000000	FB	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	30.000	108.000	31.0	24.0	
<p>Frequency 000156.09000000 Special Condition Authorization on a secondary basis.</p>											
3	2	000156.15000000	FX1	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	30.000	108.000	31.0	24.0	
3	1	000153.88250000	FX1	1		11K0F1E 11K0F3E 11K2F1D 11K2F1E 8K10F1D 8K10F1E	30.000	108.000	26.0	19.0	07-03-2004

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: KVVJ918

File Number: 0004518906

Print Date: 02-04-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000156.15750000	FX1	1		11K0F1E 11K0F3E 11K2F1D 11K2F1E 8K10F1D 8K10F3E	30.000	108.000	26.0	19.0	07-03-2004
3	2	000154.77750000	FX1	1		11K2F1D 11K2F1E 11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	30.000	108.000	31.0	24.0	10-23-2010
4	1	000158.97000000	FB	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	40.000	75.000	15.0	11.0	
<p>Frequency 000158.97000000 Special Condition Authorization on a secondary basis.</p>											
4	2	000156.09000000	FB	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	30.000	110.000	21.0	17.0	
<p>Frequency 000156.09000000 Special Condition Authorization on a secondary basis.</p>											
5	1	000153.87500000	FX1	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	30.000	113.000			
5	1	000154.77000000	FX1	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	30.000	108.000			

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: KVVJ918

File Number: 0004518906

Print Date: 02-04-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
5	1	000156.15000000	FX1	1		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	30.000	108.000			
5	1	000153.88250000	FX1	1		11K0F1E 11K0F3E 11K2F1D 11K2F1E 8K10F1D 8K10F1E	30.000	113.000			
5	1	000156.15750000	FX1	1		11K0F1E 11K0F3E 11K2F1D 11K2F1E 8K10F1D 8K10F1E	30.000	108.000			
5	1	000156.20250000	FX1	5		11K2F1D 11K2F1E 8K10F1D 8K10F1E	50.000	100.000			
5	1	000158.87250000	FX1	5		11K2F1D 11K2F1E 8K10F1D 8K10F1E	50.000	100.000			
5	1	000155.75250000	FX1	5		11K2F1D 11K2F1E 8K10F1D 8K10F1E	50.000	100.000			
Frequency 000155.75250000 Special Condition											
This interoperability frequency is dedicated for the express purpose of nationwide interoperability calling.											
5	1	000154.77750000	FX1	1		11K2F1D 11K2F1E 11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	30.000	108.000			

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: KVVJ918

File Number: 0004518906

Print Date: 02-04-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
6	1	000153.87500000	MO	500		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	110.000	220.000			
6	1	000154.77000000	MO	500		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	110.000	220.000			
6	1	000154.95000000	MO	500		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	110.000	220.000			
6	1	000155.07000000	MO	500		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	110.000	220.000			
6	1	000155.61000000	MO	500		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	110.000	220.000			
6	1	000156.01500000	MO	500		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	110.000	220.000			

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: KVVJ918

File Number: 0004518906

Print Date: 02-04-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
6	1	000156.09000000	MO	500		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	110.000	220.000			
6	1	000158.92500000	MO	500		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	110.000	220.000			
6	1	000158.97000000	MO	500		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	110.000	220.000			
6	1	000453.15000000	MO	500		11K2F1D 11K2F1E 20K0F3E 7K60FXD 7K60FXE 8K10F1D 8K10F1E	110.000	220.000			
6	1	000458.15000000	MO	500		11K2F1D 11K2F1E 20K0F3E 7K60FXD 7K60FXE 8K10F1D 8K10F1E	110.000	220.000			
6	1	000153.88250000	MO	500		11K0F1E 11K0F3E 11K2F1D 11K2F1E 8K10F1D 8K10F1E	110.000	220.000			07-03-2004

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: KVVJ918

File Number: 0004518906

Print Date: 02-04-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
6	1	000155.07750000	MO	500		11K0F1E 11K0F3E 11K2F1D 11K2F1E 8K10F1D 8K10F1E	110.000	220.000			07-03-2004
6	1	000155.47500000	MO	500		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	110.000	220.000			07-03-2004
<p>Frequency 000155.47500000 Special Condition Frequency 155.475 is authorized on a secondary non-interference basis to Canadian RCMP stations. Frequency 155.475 is authorized on a secondary non-interference basis to Canadian RCMP stations. Frequency 155.475 is authorized on a secondary non-interference basis to Canadian RCMP stations. Frequency 155.475 is authorized on a secondary non-interference basis to Canadian RCMP stations.</p>											
6	1	000156.15000000	MO	500		11K2F1D 11K2F1E 20K0F1E 20K0F3E 8K10F1D 8K10F1E	110.000	220.000			07-03-2004
6	1	000156.15750000	MO	500		11K0F1E 11K0F3E 11K2F1D 11K2F1E 8K10F1D 8K10F1E	110.000	220.000			07-03-2004
6	1	000158.93250000	MO	500		11K0F1E 11K0F3E 11K2F1D 11K2F1E 8K10F1D 8K10F1E	110.000	220.000			07-03-2004
6	1	000158.87250000	MO	500		11K2F1D 11K2F1E 8K10F1D 8K10F1E	110.000	220.000			10-23-2008

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: KVVJ918

File Number: 0004518906

Print Date: 02-04-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
6	1	000156.20250000	MO	500		11K2F1D 11K2F1E 8K10F1D 8K10F1E	110.000	220.000			10-23-2008
6	1	000154.77750000	MO	500		11K2F1D 11K2F1E 11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	110.000	220.000			10-23-2010
6	1	000155.61750000	MO	500		11K2F1D 11K2F1E 11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	110.000	220.000			10-23-2010

Control Points

Control Pt. No. 1

Address: 400 S MAIN ST

City: MIDLAND County: MIDLAND State: TX Telephone Number: (432)688-4600

Control Pt. No. 2

Address: 601 N LORAIN

City: MIDLAND County: MIDLAND State: TX Telephone Number: (432)688-1040

Associated Call Signs

WNMV711, WNLK292

Waivers/Conditions:

Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.209(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MIDLAND COUNTY SHERIFF'S OFFICE

ATTN: SHERIFF GARY PAINTER
MIDLAND COUNTY SHERIFF'S OFFICE
400 S. MAIN STREET
PO BOX 11287
MIDLAND, TX 79702

Call Sign WNHI779	File Number 0004515882
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number 101130002605	

FCC Registration Number (FRN): 0001648740

Grant Date 08-28-2001	Effective Date 02-01-2011	Expiration Date 11-03-2011	Print Date 02-02-2011
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: CR1130 N 1 MI N OF US 80E
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 32-04-04.4 N Long (NAD83): 101-59-05.5 W ASR No.: Ground Elev: 853.0
- Loc. 2** Address: SW COR OF VIRGINIA & KAREN STS GREENWOOD
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 32-01-30.5 N Long (NAD83): 101-45-43.5 W ASR No.: Ground Elev: 823.0
- Loc. 3** Address: 1.8 MI SW OF MIDLAND CO COURTHOUSE NW COR OF TAYLOR & HENDERSON ST
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 31-59-00.4 N Long (NAD83): 102-03-03.5 W ASR No.: Ground Elev: 839.0
- Loc. 4** Area of operation
Countywide: MIDLAND, TX

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: WNHI779

File Number: 0004515882

Print Date: 02-02-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.28000000	FB	1	100	11K2F1D 11K2F1E 20K0F3E 8K10F1D 8K10F1E	30.000	240.000	17.0		
1	1	000154.37000000	FB	1	100	11K2F1D 11K2F1E 20K0F3E 8K10F1D 8K10F1E	30.000	240.000	17.0		
2	1	000154.28000000	FB	1	100	11K2F1D 11K2F1E 20K0F3E 8K10F1D 8K10F1E	30.000	240.000	17.0		
2	1	000154.37000000	FB	1	100	11K2F1D 11K2F1E 20K0F3E 8K10F1D 8K10F1E	30.000	240.000	17.0		
3	1	000154.28000000	FB	1	100	11K2F1D 11K2F1E 20K0F3E 8K10F1D 8K10F1E	100.000	600.000	30.0		
3	1	000154.37000000	FB	1	100	11K2F1D 11K2F1E 20K0F3E 8K10F1D 8K10F1E	100.000	600.000	30.0		
4	1	000154.28000000	MO		500	11K2F1D 11K2F1E 20K0F3E 8K10F1D 8K10F1E	100.000	200.000			

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: WNHI779

File Number: 0004515882

Print Date: 02-02-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
4	1	000154.37000000	MO	500		11K2F1D 11K2F1E 20K0F3E 8K10F1D 8K10F1E	100.000	200.000			

Control Points

Control Pt. No. 1

Address: MIDLAND CTY SHERIFFS DEPT COMMUNICATIONS MIDLAND CO COURTHOUSE

City: MIDLAND County: MIDLAND State: TX Telephone Number: (432)688-1040

Associated Call Signs

Waivers/Conditions:

Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.209(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.

(154.280)

REFERENCE COPY

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Federal Communications Commission
Public Safety and Homeland Security Bureau

RADIO STATION AUTHORIZATION

LICENSEE: MIDLAND COUNTY SHERIFF'S OFFICE

ATTN: SHERIFF GARY PAINTER
MIDLAND COUNTY SHERIFF'S OFFICE
400 S. MAIN STREET
PO BOX 11287
MIDLAND, TX 79702

Table with 2 columns: Call Sign (WNLK292), File Number (0004515883), Radio Service (PW - Public Safety Pool, Conventional), Regulatory Status (PMRS), Frequency Coordination Number (101130002604)

FCC Registration Number (FRN): 0001648740

Table with 4 columns: Grant Date (04-02-2003), Effective Date (02-01-2011), Expiration Date (06-09-2013), Print Date (02-02-2011)

STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address: SE CORNER GERALDINE & SHELL
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 32-00-25.4 N Long (NAD83): 102-08-01.5 W ASR No.: N/A Ground Elev: 858.0
Loc. 2 Area of operation
Counties: ANDREWS CRANE DAWSON ECTOR MIDLAND MARTIN PECOS REEVES TERRELL UPTON WARD WINKLER HOWARD GLASCOCK BORDEN LOVING TX
Loc. 3 Area of operation
Counties: ANDREWS CRANE DAWSON ECTOR MIDLAND MARTIN PECOS REEVES TERRELL UPTON WARD WINKLER HOWARD GLASCOCK BORDEN LOVING TX
Loc. 4 Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule: TX

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: WNLK292

File Number: 0004515883

Print Date: 02-02-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000158.89500000	FB2	1		11K2F1D 11K2F1E 11K2F9W 20K0F1E 20K0F3E 8K10F1D 8K10F1E	100.000	200.000	59.0	194.0	
2	1	000153.93500000	MO	500		11K2F1D 11K2F1E 11K2F9W 20K0F1E 20K0F3E 8K10F1D 8K10F1E	100.000	200.000			
2	1	000153.98000000	MO	500		11K2F1D 11K2F1E 11K2F9W 20K0F1E 20K0F3E 8K10F1D 8K10F1E	100.000	200.000			
2	1	000158.85000000	MO	500		11K2F1D 11K2F1E 11K2F9W 20K0F1E 20K0F3E 8K10F1D 8K10F1E	100.000	200.000			
2	1	000158.89500000	MO	500		11K2F1D 11K2F1E 11K2F9W 20K0F1E 20K0F3E 8K10F1D 8K10F1E	100.000	200.000			

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: WNLK292

File Number: 0004515883

Print Date: 02-02-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000153.93500000	FBT	1		11K2F1D 11K2F1E 11K2F9W 20K0F1E 20K0F3E 8K10F1D 8K10F1E	100.000	200.000			
3	1	000153.98000000	FBT	1		11K2F1D 11K2F1E 11K2F9W 20K0F1E 20K0F3E 8K10F1D 8K10F1E	100.000	200.000			
3	1	000158.85000000	FB2T	1		11K2F1D 11K2F1E 11K2F9W 20K0F1E 20K0F3E 8K10F1D 8K10F1E	100.000	200.000			
4	1	000153.98000000	FX1	1		11K2F1D 11K2F1E 11K2F9W 20K0F1E 20K0F3E 8K10F1D 8K10F1E	30.000	75.000			

Control Points

Control Pt. No. 1

Address: 400 S MAIN ST

City: MIDLAND County: MIDLAND State: TX Telephone Number: (432)688-4600

Associated Call Signs

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: WNLK292

File Number: 0004515883

Print Date: 02-02-2011

Waivers/Conditions:

Antenna structures for land, base and fixed stations authorized for operation at temporary unspecified locations may be erected without specific prior approval of the Commission where such antenna structures do not exceed a height of 60.96 meters (200 feet) above ground level; provided that the overall height of such antennas more than 6.10 meters (20 feet) above ground, including their supporting structures (whether natural formation or man-made), do not exceed any of the slope ratios set forth in Section 17.7(b). Any antenna to be erected in excess of the foregoing limitations requires prior Commission approval. Licensees seeking such approval should file application for modification of license. In addition, notification to the Federal Aviation Administration is required whenever the antenna will exceed 60.96 meters (200 feet) above the ground and whenever notification is otherwise required by Section 17.7 of the Commission's Rules. Such notification should be given by filing FAA Form 7460-1, Notice of Proposed Construction or Alteration, in duplicate, with the nearest office of the Federal Aviation Administration, which form is available from that office.

Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.209(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.

(FBT FB2T)

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MIDLAND COUNTY SHERIFF'S OFFICE

ATTN: SHERIFF GARY PAINTER
MIDLAND COUNTY SHERIFF'S OFFICE
400 S. MAIN STREET
PO BOX 11287
MIDLAND, TX 79702

Call Sign WQAC487	File Number 0003734345
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number 090202000101	

FCC Registration Number (FRN): 0001648740

Grant Date 05-04-2004	Effective Date 02-18-2009	Expiration Date 05-04-2014	Print Date 02-19-2009
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: 9506 LA FORCE AVE. MIDLAND AIR TERMINAL
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 31-56-14.4 N Long (NAD83): 102-12-39.5 W ASR No.: Ground Elev: 871.0
- Loc. 2** Address: 300 N LORAIN
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 31-59-59.4 N Long (NAD83): 102-04-30.5 W ASR No.: Ground Elev: 846.0
- Loc. 3** Area of operation
Operating within a 40.0 km radius around fixed location 2
- Loc. 4** Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule: TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline
1	1	000155.6100000	FB2	1		11K2F9W 20K0F3E 8K10F1D 8K10F3E	100.000	209.000	43.0	46.2	05-04-2005

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: WQAC487

File Number: 0003734345

Print Date: 02-19-2009

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000158.77500000	FB2	1		11K2F9W 20K0F3E 8K10F1D 8K10F1E	125.000	500.000	18.0	15.1	01-19-2008
3	1	000158.77500000	MO	500		11K2F9W 20K0F3E 8K10F1D 8K10F1E	110.000	160.000			01-19-2008
3	1	000154.07000000	MO	500		11K2F9W 20K0F3E 8K10F1D 8K10F1E	110.000	160.000			01-19-2008
4	1	000158.77500000	FX1	2		11K2F9W 20K0F3E 8K10F1D 8K10F1E	100.000	100.000			
4	1	000154.07000000	FX1	2		11K2F9W 20K0F3E 8K10F1D 8K10F1E	100.000	100.000			

Control Points

Control Pt. No. 2

Address: 601 N. LORAIN STREET

City: MIDLAND County: MIDLAND State: TX Telephone Number: (432)688-1040

Control Pt. No. 1

Address: 400 S. MAIN STREET

City: MIDLAND County: MIDLAND State: TX Telephone Number: (432)688-1228

Associated Call Signs

KVJ918

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MIDLAND COUNTY SHERIFF'S OFFICE

ATTN: SHERIFF GARY PAINTER
MIDLAND COUNTY SHERIFF'S OFFICE
400 S. MAIN STREET
PO BOX 11287
MIDLAND, TX 79702

Call Sign WQJY456	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001648740

Grant Date 02-13-2009	Effective Date 02-13-2009	Expiration Date 02-13-2019	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** NW COR TAYLOR & HENDERSON
City: MIDLAND **County:** MIDLAND **State:** TX
Lat (NAD83): 31-59-00.0 N **Long (NAD83):** 102-03-03.0 W **ASR No.:** 1056042 **Ground Elev:** 839.0
- Loc. 2 Area of operation**
Operating within a 32.0 km radius around fixed location 1
- Loc. 3 Area of operation**
Land Mobile Control Station meeting the 6.1 Meter Rule: MIDLAND county, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000453.41250000	FB2	1		7K60FXD 7K60FXE 8K10F1D 8K10F1E	110.000	300.000	61.0	56.2	02-13-2010
2	1	000453.41250000	MO	100		7K60FXD 7K60FXE 8K10F1D 8K10F1E	100.000	200.000			02-13-2010

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MIDLAND COUNTY SHERIFF'S OFFICE

Call Sign: WQJY456

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000458.41250000	MO	100		7K60FXD 7K60FXE 8K10F1D 8K10F1E	100.000	200.000			02-13-2010
3	1	000458.41250000	FX1	5		7K60FXD 7K60FXE 8K10F1D 8K10F1E	50.000	100.000			

Control Points

Control Pt. No. 1

Address: 400 S MAIN ST

City: MIDLAND County: MIDLAND State: TX Telephone Number: (432)688-4600

Control Pt. No. 2

Address: 601 N LORAIN

City: MIDLAND County: MIDLAND State: TX Telephone Number: (432)688-1040

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MIDLAND, CITY OF

ATTN: COMMUNICATIONS DIRECTOR
MIDLAND, CITY OF
601 N LORAIN
PO BOX 1152
MIDLAND, TX 79702

Call Sign WNSS433	File Number
Radio Service YE - PubSafty/SpecEmer/PubSaftyNtlPlan,806-817/851 -862MHz,Trunked	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653609

Grant Date 09-30-2005	Effective Date 02-20-2009	Expiration Date 10-06-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: 303 W WALL ST NCNB BANK BLDG
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 31-59-49.4 N Long (NAD83): 102-04-39.5 W ASR No.: N/A Ground Elev: 847.0
- Loc. 2** Address: 601 N LORAIN PSCC BLDG
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 32-00-13.4 N Long (NAD83): 102-04-34.5 W ASR No.: N/A Ground Elev: 844.0
Location 2 Special Condition
Secondary site subject to the condition that no interference is caused to co-channel users in an adjacent communications area.
- Loc. 3** Address: 9506 LA FORCE AVE MIDLAND AIR TERMINAL
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 31-56-14.4 N Long (NAD83): 102-12-39.5 W ASR No.: Ground Elev: 871.0
- Loc. 4** Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
- Loc. 5** Area of operation
Operating within a 64.0 km radius around fixed location 1

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MIDLAND, CITY OF

Call Sign: WNSS433

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000856.26250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	251.000	110.0	101.0	
1	1	000856.71250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	251.000	110.0	101.0	
1	1	000857.26250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	251.000	110.0	101.0	
1	1	000857.71250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	251.000	110.0	101.0	
1	1	000858.26250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	251.000	110.0	101.0	
1	1	000858.71250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	251.000	110.0	101.0	
1	1	000859.26250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	251.000	110.0	101.0	
1	1	000859.71250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	251.000	110.0	101.0	
1	1	000860.26250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	251.000	110.0	101.0	

Licensee Name: MIDLAND, CITY OF

Call Sign: WNSS433

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000860.71250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	251.000	110.0	101.0	
1	1	000854.06250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	251.000	110.0	101.0	02-20-2010
1	1	000854.46250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	251.000	110.0	101.0	02-20-2010
2	1	000858.71250000	FB2S	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	398.000	34.0	25.0	
2	1	000859.71250000	FB2S	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	398.000	34.0	25.0	
2	1	000860.71250000	FB2S	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	398.000	34.0	25.0	
2	1	000854.46250000	FB2S	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	398.000	34.0	25.0	02-20-2010
3	1	000855.46250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	398.000	46.0	48.0	
3	1	000856.46250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	398.000	46.0	48.0	

Licensee Name: MIDLAND, CITY OF

Call Sign: WNSS433

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000857.46250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	398.000	46.0	48.0	
3	1	000858.46250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	398.000	46.0	48.0	
3	1	000859.46250000	FB2C	1		20K0F1D 20K0F1E 20K0F2D 20K0F3E	100.000	398.000	46.0	48.0	
4	1	000810.46250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
4	1	000811.26250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
4	1	000811.46250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
4	1	000811.71250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
4	1	000812.26250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
4	1	000812.46250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			

Licensee Name: MIDLAND, CITY OF

Call Sign: WNSS433

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
4	1	000812.71250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
4	1	000813.26250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
4	1	000813.46250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
4	1	000813.71250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
4	1	000814.26250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
4	1	000814.46250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
4	1	000814.71250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
4	1	000815.26250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
4	1	000815.71250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			

Licensee Name: MIDLAND, CITY OF

Call Sign: WNSS433

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
4	1	000809.06250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
4	1	000809.46250000	FX1	53		20K0F1D 20K0F1E 20K0F2D 20K0F3E	12.000	40.000			
5	1	000810.46250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000811.26250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000811.46250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000811.71250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000812.26250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000812.46250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000812.71250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			

Licensee Name: MIDLAND, CITY OF

Call Sign: WNSS433

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
5	1	000813.26250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000813.46250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000813.71250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000814.26250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000814.46250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000814.71250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000815.26250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000815.71250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000855.46250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			

Licensee Name: MIDLAND, CITY OF

Call Sign: WNSS433

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
5	1	000856.26250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000856.46250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000856.71250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000857.26250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000857.46250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000857.71250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000858.26250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000858.46250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000858.71250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			

Licensee Name: MIDLAND, CITY OF

Call Sign: WNSS433

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
5	1	000859.26250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000859.46250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000859.71250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000860.26250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000860.71250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			
5	1	000809.06250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			02-20-2010
5	1	000809.46250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			02-20-2010
5	1	000854.06250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			02-20-2010
5	1	000854.46250000	MO	1317		20K0F1D 20K0F1E 20K0F2D 20K0F3E	35.000	100.000			02-20-2010

Licensee Name: MIDLAND, CITY OF

Call Sign: WNSS433

File Number:

Print Date:

Control Points

Control Pt. No. 1

Address: 601 N LORAIN PSCC BLDG

City: MIDLAND **County:** MIDLAND **State:** TX **Telephone Number:** (432)685-7127

Associated Call Signs

Waivers/Conditions:

Authorization on a secondary basis.

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MIDLAND, CITY OF

ATTN: COMMUNICATIONS DIRECTOR
MIDLAND, CITY OF
601 N LORAIN
PO BOX 1152
MIDLAND, TX 79702

Call Sign WPEH502	File Number
Radio Service GE - PubSafty/SpecEmer/PubSaftyNtlPlan,806-817/851 -862MHz,Conv	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653609

Grant Date 04-19-2004	Effective Date 05-14-2009	Expiration Date 02-28-2014	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Area of operation**
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
- Loc. 2 Address:** 303 W WALL ST NCNB BANK BLDG
City: MIDLAND **County:** MIDLAND **State:** TX
Lat (NAD83): 31-59-49.4 N **Long (NAD83):** 102-04-39.5 W **ASR No.:** **Ground Elev:** 847.0
- Loc. 3 Address:** 601 N LORAIN PSCC BLDG
City: MIDLAND **County:** MIDLAND **State:** TX
Lat (NAD83): 32-00-13.4 N **Long (NAD83):** 102-04-34.5 W **ASR No.:** **Ground Elev:** 844.0
- Loc. 4 Address:** 9506 LA FORCE AVE MIDLAND AIR TERMINAL
City: MIDLAND **County:** MIDLAND **State:** TX
Lat (NAD83): 31-56-14.4 N **Long (NAD83):** 102-12-39.5 W **ASR No.:** **Ground Elev:** 871.0
- Loc. 5 Area of operation**
Operating within a 64.0 km radius around fixed location 2

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000806.01250000	FX1	53		12K0F1D 13K0F2D	12.000	40.000			

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MIDLAND, CITY OF

Call Sign: WPEH502

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000806.01250000	FX1	53		12K0F1E 13K0F1B 14K0F3E	12.000	40.000			
1	1	000806.51250000	FX1	53		12K0F1D 13K0F2D	12.000	40.000			
1	1	000806.51250000	FX1	53		12K0F1E 13K0F1B 14K0F3E	12.000	40.000			
1	1	000807.01250000	FX1	53		12K0F1D 13K0F2D	12.000	40.000			
1	1	000807.01250000	FX1	53		12K0F1E 13K0F1B 14K0F3E	12.000	40.000			
1	1	000807.51250000	FX1	53		12K0F1D 13K0F2D	12.000	40.000			
1	1	000807.51250000	FX1	53		12K0F1E 13K0F1B 14K0F3E	12.000	40.000			
1	1	000808.01250000	FX1	53		12K0F1D 13K0F2D	12.000	40.000			
1	1	000808.01250000	FX1	53		12K0F1E 13K0F1B 14K0F3E	12.000	40.000			
2	1	000851.01250000	FB2	1		12K0F1D 13K0F2D	100.000	251.000	110.0	101.0	02-20-2010
2	1	000851.01250000	FB2	1		12K0F1E 13K0F1B 14K0F3E	100.000	251.000	110.0	101.0	02-20-2010
2	1	000851.51250000	FB2	1		12K0F1D 13K0F2D	10.000	251.000	110.0	101.0	02-20-2010
2	1	000851.51250000	FB2	1		12K0F1E 13K0F1B 14K0F3E	100.000	251.000	110.0	101.0	02-20-2010

Licensee Name: MIDLAND, CITY OF

Call Sign: WPEH502

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000852.01250000	FB2	1		12K0F1D 13K0F2D	100.000	251.000	110.0	101.0	02-20-2010
2	1	000852.01250000	FB2	1		12K0F1E 13K0F1B 14K0F3E	100.000	251.000	110.0	101.0	02-20-2010
2	1	000852.51250000	FB2	1		12K0F1D 13K0F2D	100.000	251.000	110.0	101.0	02-20-2010
2	1	000852.51250000	FB2	1		12K0F1E 13K0F1B 14K0F3E	100.000	251.000	110.0	101.0	02-20-2010
2	1	000853.01250000	FB2	1		12K0F1D 13K0F2D	100.000	251.000	110.0	101.0	02-20-2010
2	1	000853.01250000	FB2	1		12K0F1E 13K0F1B 14K0F3E	100.000	251.000	110.0	101.0	02-20-2010
3	1	000851.01250000	FB2S	1		12K0F1D 13K0F2D	100.000	398.000	34.0	25.0	02-20-2010
3	1	000851.01250000	FB2S	1		12K0F1E 13K0F1B 14K0F3E	100.000	398.000	34.0	25.0	02-20-2010
3	1	000851.51250000	FB2S	1		12K0F1D 13K0F2D	100.000	398.000	34.0	25.0	02-20-2010
3	1	000851.51250000	FB2S	1		12K0F1E 13K0F1B 14K0F3E	100.000	398.000	34.0	25.0	02-20-2010
3	1	000852.01250000	FB2S	1		12K0F1D 13K0F2D	100.000	398.000	34.0	25.0	02-20-2010
3	1	000852.01250000	FB2S	1		12K0F1E 13K0F1B 14K0F3E	100.000	398.000	34.0	25.0	02-20-2010
3	1	000852.51250000	FB2S	1		12K0F1D 13K0F2D	100.000	398.000	34.0	25.0	02-20-2010

Licensee Name: MIDLAND, CITY OF

Call Sign: WPEH502

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000852.51250000	FB2S	1		12K0F1E 13K0F1B 14K0F3E	100.000	398.000	34.0	25.0	02-20-2010
3	1	000853.01250000	FB2S	1		12K0F1D 13K0F2D	100.000	398.000	34.0	25.0	02-20-2010
3	1	000853.01250000	FB2S	1		12K0F1E 13K0F1B 14K0F3E	100.000	398.000	34.0	25.0	02-20-2010
4	1	000851.01250000	FB2	1		12K0F1D 13K0F2D	100.000	398.000	46.0	48.0	02-20-2010
4	1	000851.01250000	FB2	1		12K0F1E 13K0F1B 14K0F3E	100.000	398.000	46.0	48.0	02-20-2010
4	1	000851.51250000	FB2	1		12K0F1D 13K0F2D	100.000	398.000	46.0	48.0	02-20-2010
4	1	000851.51250000	FB2	1		12K0F1E 13K0F1B 14K0F3E	100.000	398.000	46.0	48.0	02-20-2010
4	1	000852.01250000	FB2	1		12K0F1D 13K0F2D	100.000	398.000	46.0	48.0	02-20-2010
4	1	000852.01250000	FB2	1		12K0F1E 13K0F1B 14K0F3E	100.000	398.000	46.0	48.0	02-20-2010
4	1	000852.51250000	FB2	1		12K0F1D 13K0F2D	100.000	398.000	46.0	48.0	02-20-2010
4	1	000852.51250000	FB2	1		12K0F1E 13K0F1B 14K0F3E	100.000	398.000	46.0	48.0	02-20-2010
4	1	000853.01250000	FB2	1		12K0F1D 13K0F2D	100.000	398.000	46.0	48.0	02-20-2010
4	1	000853.01250000	FB2	1		12K0F1E 13K0F1B 14K0F3E	100.000	398.000	46.0	48.0	02-20-2010

Licensee Name: MIDLAND, CITY OF

Call Sign: WPEH502

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
5	1	000806.01250000	MO	916		12K0F1D 13K0F2D	35.000	100.000			02-20-2010
5	1	000806.01250000	MO	916		12K0F1E 13K0F1B 14K0F3E	35.000	100.000			02-20-2010
5	1	000806.51250000	MO	916		12K0F1D 13K0F2D	35.000	100.000			02-20-2010
5	1	000806.51250000	MO	916		12K0F1E 13K0F1B 14K0F3E	35.000	100.000			02-20-2010
5	1	000807.01250000	MO	916		12K0F1D 13K0F2D	35.000	100.000			02-20-2010
5	1	000807.01250000	MO	916		12K0F1E 13K0F1B 14K0F3E	35.000	100.000			02-20-2010
5	1	000807.51250000	MO	916		12K0F1D 13K0F2D	35.000	100.000			02-20-2010
5	1	000807.51250000	MO	916		12K0F1E 13K0F1B 14K0F3E	35.000	100.000			02-20-2010
5	1	000808.01250000	MO	916		12K0F1D 13K0F2D	35.000	100.000			02-20-2010
5	1	000808.01250000	MO	916		12K0F1E 13K0F1B 14K0F3E	35.000	100.000			02-20-2010
5	1	000851.01250000	MO	916		12K0F1D 13K0F2D	35.000	100.000			02-20-2010
5	1	000851.01250000	MO	916		12K0F1E 13K0F1B 14K0F3E	35.000	100.000			02-20-2010
5	1	000851.51250000	MO	916		12K0F1D 13K0F2D	35.000	100.000			02-20-2010

Licensee Name: MIDLAND, CITY OF

Call Sign: WPEH502

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
5	1	000851.51250000	MO	916		12K0F1E 13K0F1B 14K0F3E	35.000	100.000			02-20-2010
5	1	000852.01250000	MO	916		12K0F1D 13K0F2D	35.000	100.000			02-20-2010
5	1	000852.01250000	MO	916		12K0F1D 13K0F2D	35.000	100.000			02-20-2010
5	1	000852.51250000	MO	916		12K0F1E 13K0F1B 14K0F3E	35.000	100.000			02-20-2010
5	1	000852.51250000	MO	916		12K0F1D 13K0F2D	35.000	100.000			02-20-2010
5	1	000853.01250000	MO	916		12K0F1D 13K0F2D	35.000	100.000			02-20-2010
5	1	000853.01250000	MO	916		12K0F1E 13K0F1B 14K0F3E	35.000	100.000			02-20-2010

Control Points

Control Pt. No. 1

Address: 601 N LORAIN PSCC BLDG

City: MIDLAND County: State: TX Telephone Number: (432)685-7100

Associated Call Signs

Waivers/Conditions:

Waiver request of Rule 1.949 granted on 4-19-04.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MIDLAND, CITY OF

MIDLAND, CITY OF
601 N. LORAIN
MIDLAND, TX 79702

Call Sign KVJ919	File Number 0002037499
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653609

Grant Date 02-08-2005	Effective Date 02-08-2005	Expiration Date 04-28-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: 2 KM E OF I 20 ON COUNTY RD 307
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 31-59-58.4 N Long (NAD83): 102-00-47.5 W ASR No.: Ground Elev: 834.0
- Loc. 2** Address: 4300 SHELL ST
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 32-00-25.4 N Long (NAD83): 102-08-01.5 W ASR No.: N/A Ground Elev: 844.0
- Loc. 3** Address: 303 W WALL ST NCNB BANK BLDG
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 31-59-49.4 N Long (NAD83): 102-04-39.5 W ASR No.: N/A Ground Elev: 847.0
- Loc. 4** Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
- Loc. 5** Area of operation
Operating within a km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp (meters)	Ant. AAT (meters)	Construct Deadline
1	1	000155.13000000	FB2	1		20K0F3E	100.000	160.000	87.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MIDLAND, CITY OF

Call Sign: KVVJ919

File Number: 0002037499

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000155.19000000	FB2	1		20K0F3E	100.000	160.000	55.0		
3	1	000155.13000000	FB2	1		20K0F3E	100.000	160.000	110.0		
4	1	000155.85000000	FX1	3		20K0F3E	25.000				
4	1	000155.91000000	FX1	3		20K0F3E	25.000				
5	1	000154.95000000	MO	250		20K0F3E	110.000				
5	1	000155.85000000	MO	250		20K0F3E	110.000				
5	1	000155.91000000	MO	250		20K0F3E	110.000				

Control Points

Control Pt. No. 1

Address: 3910 FM 307

City: MIDLAND County: MIDLAND State: TX Telephone Number: (432)685-7484

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MIDLAND, CITY OF

ATTN: DAVID FLORES
MIDLAND, CITY OF
601 N LORAIN
MIDLAND, TX 79702

Call Sign WPGU506	File Number 0001998783
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653609

Grant Date 01-11-2005	Effective Date 01-11-2005	Expiration Date 03-23-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 1500 I20 W
City: MIDLAND County: MIDLAND State: TX
Lat (NAD83): 31-58-20.4 N Long (NAD83): 102-05-08.5 W ASR No.: N/A Ground Elev: 850.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000001.6100000	FB	1		6K00A3E	10.000	10.000	12.0		

Control Points

Control Pt. No. 1

Address: 1500 I20 W
City: MIDLAND County: MIDLAND State: TX Telephone Number: (432)685-7550

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MIDLAND, CITY OF

Call Sign: WPGU506

File Number: 0001998783

Print Date:

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MIDLAND, CITY OF

ATTN: CHARLES GIBSON
MIDLAND, CITY OF
601 N LORAIN
MIDLAND, TX 79702

Call Sign WPWW300	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653609

Grant Date 01-28-2003	Effective Date 01-28-2003	Expiration Date 01-28-2013	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 303 W WALL
City: MIDLAND **County:** MIDLAND **State:** TX
Lat (NAD83): 31-59-50.0 N **Long (NAD83):** 102-04-39.0 W **ASR No.:** **Ground Elev:** 846.7

Loc. 2 Area of operation
Operating within a 32.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000453.2750000	FB2	1		20K0F3E	25.000	63.000	108.5	105.3	01-28-2004
2	1	000458.2750000	MO	20		20K0F3E	5.000	10.000			01-28-2004

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MIDLAND, CITY OF

Call Sign: WPWW300

File Number:

Print Date:

Control Points

Control Pt. No. 1

Address: 601 N LORAIN

City: MIDLAND **County:** MIDLAND **State:** TX **Telephone Number:** (915)682-7483

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MIDLAND, CITY OF

ATTN: DAVID FLORES
MIDLAND, CITY OF
601 N LORAIN
MIDLAND, TX 79701

Call Sign WQGH362	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653609

Grant Date 01-17-2007	Effective Date 01-17-2007	Expiration Date 01-17-2017	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

MIDLAND, TX will be the primary area of operation, but will also respond to the following counties: TERREL, PECOS, REEVES, LOVING, WINKLER, WARD, CRANE, ECTOR, ANDREWS, GAINES, DAWSON, MARTIN, UPTON, BORDEN, HOWARD and GLASSCOCK, TX.

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	002471.00000000	MO	1		17M6F8W	5.000	5.433			01-17-2008

Control Points

Control Pt. No. 1

Address: 601 N LORAIN

City: MIDLAND **County:** MIDLAND **State:** TX **Telephone Number:** (432)685-7550

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MIDLAND, CITY OF

Call Sign: WQGH362

File Number:

Print Date:

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MIDLAND, CITY OF

ATTN: DAVID FLORES
MIDLAND, CITY OF
601 N. LORAIN
MIDLAND, TX 79701

Call Sign WQGH745	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653609

Grant Date 01-22-2007	Effective Date 01-22-2007	Expiration Date 01-22-2017	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation
Countywide: MIDLAND, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000453.3000000	MO	1		9K30F1D	5.000	5.000			01-22-2008
1	2	000460.1500000	MO	1		11K0F3E	5.000	5.000			01-22-2008

Control Points

Control Pt. No. 1

Address: 601 N LORRAINE
City: MIDLAND **County:** MIDLAND **State:** TX **Telephone Number:** (432)685-7550

Associated Call Signs

Conditions:
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MIDLAND, CITY OF

Call Sign: WQGH745

File Number:

Print Date:

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MIDLAND, CITY OF

ATTN: CISD
MIDLAND, CITY OF
601 N. LORAIN
MIDLAND, TX 79702-1152

Call Sign WZX833	File Number 0003316367
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653609

Grant Date 05-14-2003	Effective Date 02-07-2008	Expiration Date 06-17-2013	Print Date 02-07-2008
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** **Address:** 1500 W WALL
City: MIDLAND **County:** MIDLAND **State:** TX
Lat (NAD83): 31-59-43.4 N **Long (NAD83):** 102-05-28.5 W **ASR No.:** **Ground Elev:** 853.0
- Loc. 2** **Address:** 4317 THOMASON DR
City: MIDLAND **County:** MIDLAND **State:** TX
Lat (NAD83): 31-59-45.4 N **Long (NAD83):** 102-08-21.5 W **ASR No.:** **Ground Elev:** 868.0
- Loc. 3** **Address:** ATOP WATER TOWER 4300 BLOCK OF SHELL AVE
City: MIDLAND **County:** MIDLAND **State:** TX
Lat (NAD83): 32-00-25.4 N **Long (NAD83):** 102-08-01.5 W **ASR No.:** **Ground Elev:** 868.0
- Loc. 4** **Address:** 2210 W GOLF COURSE
City: MIDLAND **County:** MIDLAND **State:** TX
Lat (NAD83): 32-01-14.4 N **Long (NAD83):** 102-05-51.5 W **ASR No.:** **Ground Elev:** 853.0
- Loc. 5** **Address:** 3301 W HAYNES ST
City: MIDLAND **County:** MIDLAND **State:** TX
Lat (NAD83): 32-01-34.4 N **Long (NAD83):** 102-07-58.5 W **ASR No.:** **Ground Elev:** 855.0

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MIDLAND, CITY OF

Call Sign: WZX833

File Number: 0003316367

Print Date: 02-07-2008

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.43000000	FB	1		20K0F3E	35.000	49.000	9.0		
2	1	000154.43000000	FB	1		20K0F3E	35.000	44.000	9.0		
3	1	000154.43000000	FB	1		20K0F3E	35.000	70.000	55.0		
4	1	000154.43000000	FB	1		20K0F3E	55.000	87.000	9.0		
5	1	000154.43000000	FB	1		20K0F3E	35.000	55.000	11.0		

Control Points

Control Pt. No. 2

Address: 3912 FM 307

City: Midland **County:** MIDLAND **State:** TX **Telephone Number:** (423)685-7550

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MIDLAND, CITY OF

ATTN: MIDLAN JUDICIAL DISTRICT C R T C
MIDLAND, CITY OF
PO BOX 3471
MIDLAND, TX 79702-3471

Call Sign WPKD658	File Number 0001458636
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001661164

Grant Date 09-23-2003	Effective Date 09-23-2003	Expiration Date 10-13-2013	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 215 W INDUSTRIAL
City: MIDLAND **County:** MIDLAND **State:** TX
Lat (NAD83): 31-59-40.4 N **Long (NAD83):** 102-04-10.5 W **ASR No.:** N/A **Ground Elev:** 846.0

Loc. 2 Area of operation
Operating within a 24.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.7450000	FB	1		20K0F3E	45.000	75.000	23.0		
2	1	000155.7450000	MO	15		20K0F3E	45.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MIDLAND, CITY OF

Call Sign: WPKD658

File Number: 0001458636

Print Date:

Control Points

Control Pt. No. 1

Address: 215 W INDUSTRIAL

City: MIDLAND **County:** **State:** TX **Telephone Number:** (915)688-1282

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

APPENDIX L – PECOS COUNTY FCC LICENSES

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: PECOS, COUNTY OF

ATTN: SHERIFF'S OFFICE
PECOS, COUNTY OF
1774 N HWY 285
FT STOCKTON, TX 79735

Call Sign KVJ784	File Number 0004508436
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001670165

Grant Date 05-24-2001	Effective Date 11-24-2010	Expiration Date 07-15-2011	Print Date 11-24-2010
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 8 MI S OF TOWN BETWEEN US 385 & US 285
City: FORT STOCKTON **County:** PECOS **State:** TX
Lat (NAD83): 30-46-18.6 N **Long (NAD83):** 102-51-17.6 W **ASR No.:** **Ground Elev:** 998.0

Loc. 2 Area of operation
Countywide: PECOS, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.37000000	FB	1		20K0F3E	100.000	115.000	128.0		
1	1	000155.53500000	FB2	1		20K0F3E	250.000	287.000	128.0		
2	1	000154.78500000	MO	35		20K0F3E	100.000				
2	1	000154.95000000	MO	35		20K0F3E	100.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: PECOS, COUNTY OF

Call Sign: KVVJ784

File Number: 0004508436

Print Date: 11-24-2010

Control Points

Control Pt. No. 1

Address: 8 MI S OF TOWN BETWEEN US 385 & 285 SHERIFFS OFC & FORT STOCKTON POLICE DEPT

City: FORT STOCKTON **County:** **State:** TX **Telephone Number:** (915)336-3521

Associated Call Signs

Waivers/Conditions:

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: PECOS, COUNTY OF

ATTN: SHERIFF'S OFFICE
PECOS, COUNTY OF
1774 N HWY 285
FT STOCKTON, TX 79735

Call Sign KB54200	File Number 0004508431
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001670165

Grant Date 01-30-2004	Effective Date 11-24-2010	Expiration Date 03-17-2014	Print Date 11-24-2010
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation
Counties:PECOS WARD REEVES CRANE UPTON IA

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000037.18000000	MO	35		20K0F3E	100.000				

Control Points

Control Pt. No. 1

Address:

City: **County:** **State:** **Telephone Number:** (915)336-3369

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: PECOS, COUNTY OF

Call Sign: KB54200

File Number: 0004508431

Print Date: 11-24-2010

Waivers/Conditions:

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: PECOS, COUNTY OF

ATTN: SHERIFF'S OFFICE
PECOS, COUNTY OF
1774 N HWY 285
FT STOCKTON, TX 79735

Call Sign KNIS714	File Number 0004508433
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001670165

Grant Date 01-30-2004	Effective Date 11-24-2010	Expiration Date 03-17-2014	Print Date 11-24-2010
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 2.6 MI SW
City: IRAN **County:** PECOS **State:** TX
Lat (NAD83): 30-53-52.6 N **Long (NAD83):** 101-56-47.5 W **ASR No.:** **Ground Elev:** 896.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000457.97500000	FX2	1		20K0F3E	100.000	130.000	46.0		

Control Points

Control Pt. No. 1

Address: 2.6 MI SW
City: IRAAN **County:** PECOS **State:** TX **Telephone Number:** (432)336-3369

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: PECOS, COUNTY OF

Call Sign: KNIS714

File Number: 0004508433

Print Date: 11-24-2010

Waivers/Conditions:

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: PECOS, COUNTY OF

ATTN: SHERIFF'S OFFICE
PECOS, COUNTY OF
1774 N HWY 285
FT STOCKTON, TX 79735

Call Sign KNIS715	File Number 0004508434
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001670165

Grant Date 01-30-2004	Effective Date 11-24-2010	Expiration Date 03-17-2014	Print Date 11-24-2010
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: US385 & US285 8 MI S
City: FORT STOCKTON **County:** PECOS **State:** TX
Lat (NAD83): 30-46-18.6 N **Long (NAD83):** 102-51-17.6 W **ASR No.:** **Ground Elev:** 998.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000452.9750000	FX1	1		20K0F3E	100.000	130.000	61.0		

Control Points

Control Pt. No. 1

Address: SHERIFFS OFC & POLICE DEPT PECOS CTY COURTHOUSE
City: FORT STOCKTON **County:** **State:** TX **Telephone Number:**

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: PECOS, COUNTY OF

Call Sign: KNIS715

File Number: 0004508434

Print Date: 11-24-2010

Waivers/Conditions:

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: PECOS, COUNTY OF

ATTN: SHERIFF'S OFFICE
PECOS, COUNTY OF
1774 NORTH HIGHWAY 285
FT STOCKTON, TX 79735

Call Sign KNIS789	File Number 0004410686
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number 100921002279	

FCC Registration Number (FRN): 0001670165

Grant Date 01-30-2004	Effective Date 12-13-2010	Expiration Date 03-17-2014	Print Date 12-14-2010
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Area of operation**
Operating within a 40.0 km radius around fixed location 2
- Loc. 2 Address:** 2.6 MI SW
City: IRAAN **County:** PECOS **State:** TX
Lat (NAD83): 30-53-53.0 N **Long (NAD83):** 101-56-47.0 W **ASR No.:** 1056936 **Ground Elev:** 897.0
- Loc. 3 Area of operation**
Land Mobile Control Station meeting the 6.1 Meter Rule: PECOS county, TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.8450000	MO	20		11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E	100.000	100.000			

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: PECOS, COUNTY OF

Call Sign: KNIS789

File Number: 0004410686

Print Date: 12-14-2010

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.49750000	MO	1000		11K2F2E 11K2F3E 8K10F1D 8K10F1E	110.000	160.000			12-13-2011
1	1	000150.80500000	MO	1000		11K2F2E 11K2F3E 8K10F1D 8K10F1E	110.000	160.000			12-13-2011
2	1	000155.37000000	FB	1		11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E	100.000	320.000	52.0	178.0	
2	1	000155.58000000	FB2	1		11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E	100.000	320.000	52.0	178.0	
2	2	000155.49750000	FB2	1		11K2F2E 11K2F3E 8K10F1D 8K10F1E	100.000	190.000	52.0	178.0	12-13-2011
3	1	000150.80500000	FX1	2		11K2F2E 11K2F3E 8K10F1D 8K10F1E	50.000	100.000			

Control Points

Control Pt. No. 1

Address: SHERIFFS OFC & POLICE DEPT PECOS CTY COURTHOUSE

City: FORT STOCKTON County: PECOS State: TX Telephone Number: (432)336-3521

Associated Call Signs

Licensee Name: PECOS, COUNTY OF

Call Sign: KNIS789

File Number: 0004410686

Print Date: 12-14-2010

Waivers/Conditions:

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.209(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: PECOS, COUNTY OF

ATTN: SHERIFF'S OFFICE
PECOS, COUNTY OF
1774 N HWY 285
FT STOCKTON, TX 79735

Call Sign KNIS793	File Number 0004508432
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001670165

Grant Date 01-30-2004	Effective Date 11-24-2010	Expiration Date 03-17-2014	Print Date 11-24-2010
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 1.5 MI WSW
City: FORT STOCKTON **County:** PECOS **State:** TX
Lat (NAD83): 30-53-08.6 N **Long (NAD83):** 102-55-41.6 W **ASR No.:** **Ground Elev:** 959.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000037.18000000	FB	1		20K0F3E	50.000	100.000	45.0		

Control Points

Control Pt. No. 1

Address: COUNTY COURTHOUSE
City: FORT STOCKTON **County:** **State:** TX **Telephone Number:**

Associated Call Signs

Conditions:
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: PECOS, COUNTY OF

Call Sign: KNIS793

File Number: 0004508432

Print Date: 11-24-2010

Waivers/Conditions:

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

Preferred Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: PECOS, COUNTY OF

ATTN: SHERIFF'S OFFICE
PECOS, COUNTY OF
1774 N HWY 285
FT STOCKTON, TX 79735

Call Sign WPJG968	File Number 0004684839
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001670165

Grant Date 04-09-2011	Effective Date 04-09-2011	Expiration Date 07-07-2021	Print Date 04-09-2011
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 44TH LN & HWY 1053
City: FORT STOCKTON **County:** PECOS **State:** TX
Lat (NAD83): 30-55-44.6 N **Long (NAD83):** 102-52-05.6 W **ASR No.:** **Ground Elev:** 885.0

Loc. 2 Area of operation
Operating within a 40.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.7750000	FB2	1		20K0F3E	25.000	45.000	98.0	185.0	
2	1	000153.9800000	MO	25		20K0F3E	45.000	100.000			

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: PECOS, COUNTY OF

Call Sign: WPJG968

File Number: 0004684839

Print Date: 04-09-2011

Control Points

Control Pt. No. 1

Address: 44TH LN AND HWY 1053

City: FORT STOCKTON **County:** PECOS **State:** TX **Telephone Number:** (432)336-6281

Associated Call Signs

Waivers/Conditions:

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.209(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.

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Federal Communications Commission
Public Safety and Homeland Security Bureau

RADIO STATION AUTHORIZATION

LICENSEE: PECOS, COUNTY OF

ATTN: SHERIFF'S OFFICE
PECOS, COUNTY OF
1774 N HWY 285
FT STOCKTON, TX 79735

Table with 2 columns: Call Sign (WQIQ413), File Number (0004539254), Radio Service (PW - Public Safety Pool, Conventional), Regulatory Status (PMRS), Frequency Coordination Number (101208002639)

FCC Registration Number (FRN): 0001670165

Table with 4 columns: Grant Date (04-14-2008), Effective Date (02-18-2011), Expiration Date (04-14-2018), Print Date (02-19-2011)

STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address: 14M NORTH OF MARATHON, City: MARATHON, County: BREWSTER, State: TX, Lat (NAD83): 30-23-42.8 N, Long (NAD83): 103-08-14.9 W, ASR No.: 1231470, Ground Elev: 1681.6
Loc. 2 Area of operation: TO BE USED IN NORTHERN AND NORTHEASTERN BREWSTER COUNTY AND ALL OF PECOS COUNTY, TEXAS
Loc. 3 Address: COATES RANCH TOWER, City: IRAAN, County: PECOS, State: TX, Lat (NAD83): 30-39-19.6 N, Long (NAD83): 102-11-34.2 W, ASR No.: 1274605, Ground Elev: 895.0
Loc. 4 Area of operation: Countywide: PECOS, TX
Loc. 5 Area of operation: Land Mobile Control Station meeting the 6.1 Meter Rule: TX

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: PECOS, COUNTY OF

Call Sign: WQIQ413

File Number: 0004539254

Print Date: 02-19-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.92500000	FB2	1		11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	125.000	377.000	130.0	374.2	04-14-2009
1	2	000453.30000000	FXO	1		11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	50.000	200.000	120.0	364.2	04-14-2009
2	1	000155.92500000	MO	100		11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	100.000	160.000			04-14-2009
2	1	000153.83750000	MO	100		11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	100.000	160.000			04-14-2009
3	1	000155.84250000	FB2	1		11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	50.000	200.000	106.0	132.6	04-14-2009
3	2	000458.30000000	FXO	1		11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	125.000	500.000	101.0	127.6	04-14-2009
4	1	000155.84250000	MO	100		11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	110.000	160.000			04-14-2009

Licensee Name: PECOS, COUNTY OF

Call Sign: WQIQ413

File Number: 0004539254

Print Date: 02-19-2011

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
4	1	000153.92000000	MO	100		11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	110.000	160.000			04-14-2009
5	1	000153.92000000	FX1	5		11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	100.000	250.000			
5	1	000153.83750000	FX1	5		11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	100.000	250.000			

Control Points

Control Pt. No. 1

Address: 123 N. MAIN

City: FORT STOCKTON County: PECOS State: TX Telephone Number: (432)336-4600

Associated Call Signs

Waivers/Conditions:

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: FORT STOCKTON, CITY OF

ATTN: PENNY SMITH
FORT STOCKTON, CITY OF
PO BOX 1000
FORT STOCKTON, TX 79735

Call Sign WNB351	File Number 0002059320
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001670181

Grant Date 02-25-2005	Effective Date 02-25-2005	Expiration Date 04-09-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Land Mobile Control Station meeting the 6.1 Meter Rule: TX

Loc. 2 Address: .5 MI SW I 10

City: FORT STOCKTON **County:** PECOS **State:** TX
Lat (NAD83): 30-53-08.6 N **Long (NAD83):** 102-55-41.6 W **ASR No.:** **Ground Elev:** 928.0

Loc. 3 Area of operation

Operating within a 64.0 km radius around fixed location 2

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000153.89000000	FX1	1		20K0F3E	60.000	75.000			
2	1	000154.43000000	FB2	1	45	20K0F3E	110.000	145.000	55.0		
3	1	000153.89000000	MO	30		20K0F3E	75.000	95.000			

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: FORT STOCKTON, CITY OF

Call Sign: WNB351

File Number: 0002059320

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000154.28000000	MO	30		20K0F3E	75.000	95.000			

Control Points

Control Pt. No. 1

Address: 116 W SECOND ST

City: FORT STOCKTON **County:** **State:** TX **Telephone Number:** (915)336-8525

Associated Call Signs

Waivers/Conditions:

NONE

APPENDIX M – REEVES COUNTY FCC LICENSES

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Federal Communications Commission
Public Safety and Homeland Security Bureau

RADIO STATION AUTHORIZATION

LICENSEE: REEVES, COUNTY OF

ATTN: SHERIFF
REEVES, COUNTY OF
PO BOX 910
PECOS, TX 79772-0910

Table with 2 columns: Call Sign (WPMF842), File Number, Radio Service (PW - Public Safety Pool, Conventional), Regulatory Status (PMRS), Frequency Coordination Number.

FCC Registration Number (FRN): 0007913981

Table with 4 columns: Grant Date (07-02-2005), Effective Date (02-25-2010), Expiration Date (06-30-2015), Print Date.

STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address: SE CORNER SEC 41 BLK 58 TWP 9
City: RURAL County: JEFF DAVIS State: TX
Lat (NAD83): 30-54-32.5 N Long (NAD83): 104-03-45.7 W ASR No.: N/A Ground Elev: 1996.0
Loc. 2 Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
Loc. 3 Area of operation
Operating within a 40.0 km radius around fixed location 1
Loc. 4 Address: 18 MILES SE OF PECOS, TX.
City: PECOS County: REEVES State: TX
Lat (NAD83): 31-12-03.0 N Long (NAD83): 103-21-14.0 W ASR No.: 1054063 Ground Elev: 852.0
Loc. 5 Area of operation
Operating within a 40.0 km radius around fixed location 4
Loc. 6 Address: 12.8M E. OF MENTONE ON SH302
City: METONE County: LOVING State: TX
Lat (NAD83): 31-46-42.0 N Long (NAD83): 103-23-47.0 W ASR No.: 1049001 Ground Elev: 905.3
Loc. 7 Area of operation
Operating within a 40.0 km radius around fixed location 6

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: REEVES, COUNTY OF

Call Sign: WPMF842

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.61000000	FB2	1		11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E	65.000	100.000	9.0	457.0	
1	2	000453.16250000	FX2	1		11K2F2E 11K2F3E 8K10F1D 8K10F1E	30.000	150.000	9.0	450.8	02-25-2011
2	1	000154.77000000	FX1	1		11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E	100.000	100.000			
2	1	000153.86000000	FX1	1		11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	50.000	100.000			
2	1	000158.87250000	FX1	5		11K2F2E 11K2F3E 8K10F1D 8K10F1E	50.000	100.000			
3	1	000154.77000000	MO	70		11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E	100.000	100.000			
3	1	000155.61000000	MO	70		11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E	100.000	100.000			
3	1	000458.16250000	MO	5		11K2F2E 11K2F3E 8K10F1D 8K10F1E	50.000	150.000			02-25-2011

Licensee Name: REEVES, COUNTY OF

Call Sign: WPMF842

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
4	1	000155.82750000	FB2	1		11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	110.000	250.000	67.0	91.9	10-10-2007
4	2	000458.16250000	FX1	1		11K2F2E 11K2F3E 8K10F1D 8K10F1E	30.000	150.000	63.0	87.9	02-25-2011
5	1	000155.82750000	MO	70		11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	110.000	110.000			10-10-2007
5	1	000153.86000000	MO	70		11K2F2E 11K2F3E 11K2F9W 8K10F1D 8K10F1E	110.000	160.000			10-10-2007
5	1	000453.16250000	MO	5		11K2F2E 11K2F3E 8K10F1D 8K10F1E	50.000	150.000			02-25-2011
6	1	000155.18250000	FB2	1		11K2F2E 11K2F3E 8K10F1D 8K10F1E	110.000	250.000	75.0	105.8	02-25-2011
6	2	000453.16250000	FX2	1		11K2F2E 11K2F3E 8K10F1D 8K10F1E	30.000	150.000	75.0	105.8	02-25-2011
7	1	000155.18250000	MO	200		11K2F2E 11K2F3E 8K10F1D 8K10F1E	110.000	160.000			02-25-2011

Licensee Name: REEVES, COUNTY OF

Call Sign: WPMF842

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
7	1	000158.87250000	MO	200		11K2F2E 11K2F3E 8K10F1D 8K10F1E	110.000	160.000			02-25-2011
7	1	000458.16250000	MO	5		11K2F2E 11K2F3E 8K10F1D 8K10F1E	50.000	150.000			02-25-2011

Control Points

Control Pt. No. 1

Address: 5TH AND OAK STREETS

City: PECOS County: REEVES State: TX Telephone Number: (432)445-4901

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: PECOS, CITY OF

ATTN: POLICE DEPT CHIEF CLAY MCKENNEY
PECOS, CITY OF
3100 MANAHAN STREET MUNICIPAL AIRPORT
PO BOX P.O. BOX 1761
PECOS, TX 79772

Call Sign KVJ920	File Number 0002037003
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0005072095

Grant Date 02-16-2005	Effective Date 02-16-2005	Expiration Date 04-06-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 172 RAUL FLOREZ BLVD
City: PECOS **County:** REEVES **State:** TX
Lat (NAD83): 31-23-54.7 N **Long (NAD83):** 103-30-38.2 W **ASR No.:** 1231854 **Ground Elev:** 795.8

Loc. 2 Area of operation
Operating within a 25.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.37000000	FB	1		20K0F3E	100.000	185.000	31.0	31.2	
1	1	000155.52000000	FB2	1		20K0F3E	100.000	185.000	31.0	31.2	
2	1	000154.95000000	MO	20		20K0F3E	100.000	200.000			
2	1	000155.52000000	MO	20		20K0F3E	100.000	200.000			

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: PECOS, CITY OF

Call Sign: KVVJ920

File Number: 0002037003

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000158.97000000	MO	20		20K0F3E	100.000	200.000			

Control Points

Control Pt. No. 1

Address: 510 S OAK

City: PECOS **County:** **State:** TX **Telephone Number:** (915)445-4911

Associated Call Signs

Waivers/Conditions:

NONE

APPENDIX N – TERRELL COUNTY FCC LICENSES

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Federal Communications Commission
Public Safety and Homeland Security Bureau

RADIO STATION AUTHORIZATION

LICENSEE: TERRELL, COUNTY OF

ATTN: SHERIFFS DEPT CLINT MC DONALD
TERRELL, COUNTY OF
PO BOX 320
SANDERSON, TX 79848

Table with 2 columns: Call Sign (KVJ921), File Number (0004400297), Radio Service (PW - Public Safety Pool, Conventional), Regulatory Status (PMRS), Frequency Coordination Number (100914002246)

FCC Registration Number (FRN): 0010700078

Table with 4 columns: Grant Date (04-28-2004), Effective Date (12-02-2010), Expiration Date (07-10-2014), Print Date (12-03-2010)

STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Area of operation: Countywide: TERRELL, TX
Loc. 2 Address: NE INT US 285 & 90, City: SANDERSON, County: TERRELL, State: TX, Lat (NAD83): 30-09-30.7 N, Long (NAD83): 102-23-46.5 W, ASR No.: , Ground Elev: 961.0
Loc. 3 Address: .6 MILE NW SANDERSON, City: SANDERSON, County: TERRELL, State: TX, Lat (NAD83): 30-09-00.7 N, Long (NAD83): 102-24-10.7 W, ASR No.: 1053621, Ground Elev: 959.8
Loc. 4 Area of operation: Land Mobile Control Station meeting the 6.1 Meter Rule: TERRELL county, TX
Loc. 5 Area of operation: Operating within a 40.0 km radius around fixed location 3

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: TERRELL, COUNTY OF

Call Sign: KVVJ921

File Number: 0004400297

Print Date: 12-03-2010

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.86000000	MO	6		11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E	144.000	144.000			
1	1	000154.95000000	MO	6		11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E	144.000	144.000			
2	1	000155.37000000	FB	1		11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E	350.000	350.000	134.0		
2	1	000155.65500000	FB2	1		11K2F2E 11K2F3E 20K0F3E 8K10F1D 8K10F1E	350.000	350.000	134.0		
3	1	000155.81250000	FB2	1		11K2F2E 11K2F3E 8K10F1D 8K10F1E	125.000	250.000	92.4	149.1	12-02-2011
4	1	000153.86750000	FX1	2		11K2F2E 11K2F3E 8K10F1D 8K10F1E	50.000	100.000			
5	1	000155.81250000	MO	1000		11K2F2E 11K2F3E 8K10F1D 8K10F1E	110.000	160.000			12-02-2011
5	1	000153.86750000	MO	1000		11K2F2E 11K2F3E 8K10F1D 8K10F1E	110.000	160.000			12-02-2011

Licensee Name: TERRELL, COUNTY OF

Call Sign: KVVJ921

File Number: 0004400297

Print Date: 12-03-2010

Control Points

Control Pt. No. 1

Address: SHERIFFS OFFICE TERRELL COUNTY COURTHOUSE

City: SANDERSON **County:** **State:** TX **Telephone Number:** (915)345-2525

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

APPENDIX O – UPTON COUNTY FCC LICENSES

The remainder of this page intentionally left blank.

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Federal Communications Commission
Public Safety and Homeland Security Bureau

RADIO STATION AUTHORIZATION

LICENSEE: UPTON, COUNTY OF

ATTN: SHERIFF DAN BROWN
UPTON, COUNTY OF
PO BOX 27
RANKIN, TX 79778

Table with 2 columns: Call Sign (KNGH377), File Number (0003827741), Radio Service (PW - Public Safety Pool, Conventional), Regulatory Status (PMRS), Frequency Coordination Number.

FCC Registration Number (FRN): 0001648260

Table with 4 columns: Grant Date (08-22-2005), Effective Date (05-05-2009), Expiration Date (09-21-2015), Print Date (05-05-2009).

STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address: 10 KM N, City: MCCAMEY, County: UPTON, State: TX, Lat (NAD83): 31-12-42.5 N, Long (NAD83): 102-16-15.5 W, ASR No.: 1040266, Ground Elev: 950.0
Loc. 2 Address: SHERIFF S OFFICE 10THST, City: RANKIN, County: UPTON, State: TX, Lat (NAD83): 31-13-26.5 N, Long (NAD83): 101-56-30.5 W, ASR No.: N/A, Ground Elev: 787.0
Loc. 3 Address: SHERIFF S SUBSTATION 310 W 5TH ST, City: MCCAMEY, County: UPTON, State: TX, Lat (NAD83): 31-08-26.5 N, Long (NAD83): 102-13-55.5 W, ASR No.: N/A, Ground Elev: 751.0
Loc. 4 Address: MCCAMEY HOSPITAL HWY 385 S, City: MCCAMEY, County: UPTON, State: TX, Lat (NAD83): 31-07-12.5 N, Long (NAD83): 102-13-05.5 W, ASR No.: N/A, Ground Elev: 742.0
Loc. 5 Area of operation: Operating within a 40.0 km radius around fixed location 1

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: UPTON, COUNTY OF

Call Sign: KNGH377

File Number: 0003827741

Print Date: 05-05-2009

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.55000000	FB2	1	5	20K0F3E	100.000	83.000	122.0	269.0	
2	1	000154.83000000	FX1	1		20K0F3E	60.000	75.000	21.0	-7.0	
2	1	000155.37000000	FB	1	5	16K0F3E	100.000	135.000	21.0	-7.0	
3	1	000154.83000000	FX1	1		20K0F3E	60.000	75.000	21.0	-7.0	
3	1	000155.37000000	FB	1	5	16K0F3E	100.000	135.000	21.0	-7.0	
4	1	000154.83000000	FX1	1		16K0F3E	60.000	75.000	21.0	-5.0	
5	1	000154.83000000	MO	30		20K0F3E	110.000	120.000			
5	1	000154.95000000	MO	30		16K0F3E	110.000	120.000			
5	1	000155.55000000	MO	30		20K0F3E	110.000	120.000			

Control Points

Control Pt. No. 1

Address: 1106 N. Grand Street

City: RANKIN County: UPTON State: TX Telephone Number: (915)693-2422

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: UPTON, COUNTY OF

UPTON, COUNTY OF
BOX 27
RANKIN, TX 79778

Call Sign KKE471	File Number 0003827745
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001648260

Grant Date 04-23-2002	Effective Date 05-05-2009	Expiration Date 06-18-2012	Print Date 05-05-2009
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: HWY 349
City: RANKIN **County:** UPTON **State:** TX
Lat (NAD83): 31-14-14.5 N **Long (NAD83):** 101-56-31.5 W **ASR No.:** **Ground Elev:** 830.6

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000037.18000000	FB	1		20K0F3E	300.000		61.0		

Control Points

Control Pt. No. 1

Address: COUNTY COURTHOUSE
City: RANKIN **County:** UPTON **State:** TX **Telephone Number:** (915)693-2422

Associated Call Signs

Conditions:
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: UPTON, COUNTY OF

Call Sign: KKE471

File Number: 0003827745

Print Date: 05-05-2009

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: UPTON COUNTY EMERGENCY SERVICE
DISTRICT 2

ATTN: WARREN KNEUPPER
UPTON COUNTY EMERGENCY SERVICE DISTRICT 2
PO BOX 975
MC CAMEY, TX 79752

Call Sign KNCJ824	File Number 0003981424
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001661362

Grant Date 08-19-2002	Effective Date 10-01-2009	Expiration Date 07-11-2012	Print Date 10-01-2009
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 10 MI NE ON KING MOUNTAIN
City: MC CAMEY **County:** UPTON **State:** TX
Lat (NAD83): 31-13-19.5 N **Long (NAD83):** 102-16-27.5 W **ASR No.:** **Ground Elev:** 951.0

Loc. 2 Area of operation
Operating within a 40.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.44500000	FB2	1	25	20K0F3E	100.000	234.000	37.0		
2	1	000153.83000000	MO	25		20K0F3E	50.000				
2	1	000154.44500000	MO	25		20K0F3E	50.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: UPTON COUNTY EMERGENCY SERVICE

Call Sign: KNCJ824

File Number: 0003981424

Print Date: 10-01-2009

Control Points

Control Pt. No. 1

Address: 400 S BURLESON

City: MCCAMEY **County:** UPTON **State:** TX **Telephone Number:** (915)652-8794

Associated Call Signs

Waivers/Conditions:

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MC CAMEY HOSPITAL

ATTN: JAIME RAMIREZ
MC CAMEY HOSPITAL
PO BOX 1200
MC CAMEY, TX 79752

Call Sign WNFI461	File Number 0004532480
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001672930

Grant Date 02-08-2011	Effective Date 02-08-2011	Expiration Date 02-21-2021	Print Date 02-09-2011
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: MC CAMEY HOSPITAL
City: MC CAMEY **County:** UPTON **State:** TX
Lat (NAD83): 31-07-13.5 N **Long (NAD83):** 102-13-06.5 W **ASR No.:** **Ground Elev:** 742.0

Loc. 2 Area of operation
Operating within a 64.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.28000000	FB	1	10	20K0F3E	60.000	75.000	21.0	0.0	
1	1	000155.34000000	FB	1	10	20K0F3E	60.000	75.000	21.0	0.0	
2	1	000155.28000000	MO	5		20K0F3E	100.000				
2	1	000155.34000000	MO	5		20K0F3E	100.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MC CAMEY HOSPITAL

Call Sign: WNFI461

File Number: 0004532480

Print Date: 02-09-2011

Control Points

Control Pt. No. 1

Address: HOSPITAL HWY 305

City: MC CAMEY **County:** UPTON **State:** TX **Telephone Number:** (432)652-8626

Associated Call Signs

Waivers/Conditions:

Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.209(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MC CAMEY, CITY OF

ATTN: LOU ANN WATSON, CITY SECRETARY WATER
MC CAMEY, CITY OF
PO DRAWER R
MC CAMEY, TX 79752-1118

Call Sign WPMD406	File Number 0001250861
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653724

Grant Date 03-27-2003	Effective Date 03-27-2003	Expiration Date 06-09-2013	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 207 E SIXTH ST
City: MC CAMEY **County:** UPTON **State:** TX
Lat (NAD83): 31-09-20.5 N **Long (NAD83):** 102-12-08.5 W **ASR No.:** **Ground Elev:** 802.0

Loc. 2 Area of operation
Operating within a 20.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.1150000	FB2	1		20K0F3E	25.000	75.000	59.0	60.0	
1	1	000158.9550000	FX1	1		20K0F3E	25.000	75.000	59.0	60.0	
2	1	000155.1150000	MO	1		20K0F3E	25.000	75.000			
2	1	000158.9550000	MO	1		20K0F3E	25.000	25.000			

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MC CAMEY, CITY OF

Call Sign: WPMD406

File Number: 0001250861

Print Date:

Control Points

Control Pt. No. 1

Address:

City: **County:** **State:** **Telephone Number:** (915)652-3333

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: RANKIN VOLUNTEER FIRE DEPT

RANKIN VOLUNTEER FIRE DEPT
PO BOX 602
RANKIN, TX 79778

Call Sign WNAT424	File Number 0001312558
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001661016

Grant Date 05-15-2003	Effective Date 05-15-2003	Expiration Date 07-09-2013	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 1.22 MI N HWY 67 ON HWY 349
City: RANKIN **County:** UPTON **State:** TX
Lat (NAD83): 31-14-09.5 N **Long (NAD83):** 101-56-33.5 W **ASR No.:** N/A **Ground Elev:** 817.0

Loc. 2 Area of operation
Operating within a 64.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000153.77000000	FB	1		20K0F3E	350.000	750.000	46.0		
2	1	000153.77000000	MO	16		20K0F3E	80.000				
2	1	000154.28000000	MO	16		20K0F3E	80.000				

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: RANKIN VOLUNTEER FIRE DEPT

Call Sign: WNAT424

File Number: 0001312558

Print Date:

Control Points

Control Pt. No. 1

Address: SHERIFFS OFC 10TH ST

City: RANKIN **County:** **State:** TX **Telephone Number:** (915)693-2241

Associated Call Signs

Waivers/Conditions:

Authorization on a secondary basis.

(154.28)

Reference Copy

APPENDIX P – WARD COUNTY FCC LICENSES

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: WARD, COUNTY OF

ATTN: SHERIFF'S OFFICE
WARD, COUNTY OF
300 EAST 4TH STREET
MONAHANS, TX 79756

Call Sign KMA934	File Number 0002320193
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0013988845

Grant Date 09-20-2005	Effective Date 09-20-2005	Expiration Date 09-21-2015	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: 300 E 4TH ST
City: MONAHANS County: WARD State: TX
Lat (NAD83): 31-35-32.5 N Long (NAD83): 102-53-22.6 W ASR No.: N/A Ground Elev: 798.0
- Loc. 2** Address: 0.97 KM E OF FM 1219 & 3.2 KM N I20
City: WICKETT County: WARD State: TX
Lat (NAD83): 31-33-54.5 N Long (NAD83): 102-59-22.6 W ASR No.: Ground Elev: 805.0
- Loc. 3** Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
- Loc. 4** Area of operation
Operating within a 80.5 km radius around fixed location 1
- Loc. 5** Address: 300 EAST 4TH STREET
City: MONAHANS County: WARD State: TX
Lat (NAD83): 31-34-38.0 N Long (NAD83): 102-53-18.0 W ASR No.: Ground Elev: 865.0
- Loc. 6** Area of operation
Operating within a 40.0 km radius around fixed location 5

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: WARD, COUNTY OF

Call Sign: KMA934

File Number: 0002320193

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.86000000	FB	1		20K0F2E	50.000	158.000	14.0	0.0	
2	1	000155.79000000	FB2	1		20K0F2E	350.000	441.000	99.0	0.0	
3	1	000154.72500000	FX1	2		20K0F2E	50.000	158.000			
4	1	000154.72500000	MO	50		20K0F2E	120.000	300.000			
4	1	000154.86000000	MO	50		20K0F2E	120.000	300.000			
4	1	000154.95000000	MO	50		20K0F2E	120.000	300.000			
5	1	000155.14500000	FB	1		20K0F2D	100.000	398.000	10.0	56.0	09-04-2002
5	1	000155.86500000	FB	1		20K0F3E	100.000	398.000	10.0	56.0	09-04-2002
6	1	000155.14500000	MO	30		20K0F2D	100.000	100.000			09-04-2002
6	1	000155.86500000	MO	30		20K0F3E	100.000	100.000			09-04-2002

Control Points

Control Pt. No. 1

Address: 300 E 4TH ST

City: MONAHANS County: WARD State: TX Telephone Number: (915)943-6703

Control Pt. No. 2

Address: 300 E 4th Street

City: Monahans County: WARD State: TX Telephone Number: (432)943-6703

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: WARD MEMORIAL HOSPITAL

WARD MEMORIAL HOSPITAL
406 S GARY
MONAHANS, TX 79756

Call Sign WPMD526	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN):

Grant Date 06-10-1998	Effective Date 06-10-1998	Expiration Date 06-10-2003	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: 6 MI E OF FM1219 & 2 MI N OF I20
 City: WICKET County: WARD State: TX
 Lat (NAD83): 31-33-54.5 N Long (NAD83): 102-59-22.6 W ASR No.: Ground Elev: 805.0
- Loc. 2** Address: 703 E 4TH ST
 City: MONAHANS County: WARD State: TX
 Lat (NAD83): 31-35-30.5 N Long (NAD83): 102-53-19.6 W ASR No.: N/A Ground Elev: 798.0
- Loc. 3** Area of operation
 Operating within a 40.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.1600000	FB2	1		20K0F3E	100.000	172.000	61.0	64.0	
2	1	000150.8050000	FX1	1		20K0F3E	10.000	30.000	12.0	0.3	
2	1	000154.1600000	FB	1		20K0F3E	25.000	75.000	12.0	0.3	

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: WARD MEMORIAL HOSPITAL

Call Sign: WPMD526

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000150.80500000	MO	20		20K0F3E	35.000				
3	1	000154.16000000	MO	20		20K0F3E	35.000				

Control Points

Control Pt. No. 1

Address: 703 E 4TH

City: MONAHANS County: State: TX Telephone Number: (915)953-2511

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MONAHANS, CITY OF

ATTN: POLICE DEPT
MONAHANS, CITY OF
112 W 2ND ST
MONAHANS, TX 79756

Call Sign WKNK391	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653542

Grant Date 05-06-2004	Effective Date 05-06-2004	Expiration Date 01-14-2014	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** 114 S BRUCE ST
City: MONAHANS **County:** WARD **State:** TX
Lat (NAD83): 31-35-40.2 N **Long (NAD83):** 102-53-24.0 W **ASR No.:** 1237672 **Ground Elev:** 800.1
- Loc. 2 Address:** 801 S FAYE ST
City: MONOHANS **County:** WARD **State:** TX
Lat (NAD83): 31-35-08.5 N **Long (NAD83):** 102-53-18.6 W **ASR No.:** N/A **Ground Elev:** 795.0
- Loc. 3 Area of operation**
Land Mobile Control Station meeting the 6.1 Meter Rule: TX
- Loc. 4 Area of operation**
Operating within a 24.0 km radius around fixed location 1
- Loc. 5 Area of operation**
Operating within a 24.0 km radius around fixed location 2

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.37000000	FB	1		20K0F3E	40.000	108.000	32.3	0.0	

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MONAHANS, CITY OF

Call Sign: WNKN391

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
2	1	000154.86000000	FB2	1		20K0F3E	45.000	100.000	47.0	34.0	
3	1	000158.94000000	FX1	1		20K0F3E	40.000				
4	1	000154.86000000	MO	30		20K0F3E	100.000				
4	1	000154.95000000	MO	30		20K0F3E	40.000	38.000			
5	1	000158.94000000	MO	30		20K0F3E	100.000				

Control Points

Control Pt. No. 1

Address: 114 S Bruce ST

City: MONAHANS County: WARD State: TX Telephone Number: (915)943-3254

Associated Call Signs

Waivers/Conditions:

NONE

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MONAHANS, CITY OF

MONAHANS, CITY OF
112 W 2ND ST
MONAHANS, TX 79756

Call Sign KB27997	File Number 0001074368
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653542

Grant Date 10-31-2002	Effective Date 10-31-2002	Expiration Date 01-27-2013	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation
Other: 11 MIRA OF SERVICE CENTER MONAHANS TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000458.06250000	MO	1		20K0F9W	2.000				
1	1	000458.26250000	MO	1		20K0F9W	2.000				

Control Points

Control Pt. No. 1

Address:

City: **County:** **State:** **Telephone Number:** (916)943-4343

Associated Call Signs

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MONAHANS, CITY OF

Call Sign: KB27997

File Number: 0001074368

Print Date:

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MONAHANS, CITY OF

MONAHANS, CITY OF
112 W 2ND ST
MONAHANS, TX 79756

Call Sign KKQ524	File Number 0001145588
Radio Service IG - Industrial/Business Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653542

Grant Date 01-08-2003	Effective Date 01-08-2003	Expiration Date 01-08-2013	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Other: VIC:MONAHANS TX

Loc. 2 Address: 112 W 2ND ST

City: MONAHANS County: WARD State: TX

Lat (NAD83): 31-35-07.5 N Long (NAD83): 102-53-31.6 W ASR No.: Ground Elev: 798.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta.Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000153.53000000	MO	25		20K0F3E	350.000				
2	1	000153.53000000	FB	1		20K0F3E	350.000		47.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MONAHANS, CITY OF

Call Sign: KKQ524

File Number: 0001145588

Print Date:

Control Points

Control Pt. No. 1

Address: 112 W 2ND ST

City: MONAHANS **County:** **State:** TX **Telephone Number:**

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: MONAHANS, CITY OF

ATTN: CHARLES SEBASTIAN
MONAHANS, CITY OF
112 WEST 2ND STREET
MONAHANS, TX 79756

Call Sign WPYS902	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001653542

Grant Date 10-17-2003	Effective Date 10-17-2003	Expiration Date 10-17-2013	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** 112 W 2ND ST
City: MONAHANS **County:** WARD **State:** TX
Lat (NAD83): 31-35-35.0 N **Long (NAD83):** 102-53-36.0 W **ASR No.:** 1237158 **Ground Elev:** 798.9
- Loc. 2 Area of operation**
Operating within a 40.0 km radius around fixed location 1
- Loc. 3 Area of operation**
Land Mobile Control Station meeting the 6.1 Meter Rule: TX

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000158.80500000	FB2	1	30	20K0F3E	100.000	100.000	32.3	20.0	10-17-2004
2	1	000158.80500000	MO	50		20K0F3E	35.000	35.000			10-17-2004
2	1	000153.95000000	MO	50		20K0F3E	35.000	35.000			10-17-2004

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: MONAHANS, CITY OF

Call Sign: WPYS902

File Number:

Print Date:

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000153.95000000	FX1	2		20K0F3E	30.000	30.000			

Control Points

Control Pt. No. 1

Address: 112 WEST 2ND

City: MONAHANS County: WARD State: TX Telephone Number: (432)943-3254

Associated Call Signs

Waivers/Conditions:

NONE

APPENDIX Q – WINKLER COUNTY FCC LICENSES

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: WINKLER, COUNTY OF

ATTN: ROBERT L ROBERTS SHERIFF
WINKLER, COUNTY OF
PO BOX 860
KERMIT, TX 79745

Call Sign KNBV938	File Number 0000586253
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001648179

Grant Date 09-08-2001	Effective Date 09-08-2001	Expiration Date 11-05-2011	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Other: VIC: WINKLER COUNTY TX

Loc. 2 Address: 875 YDS NW OF TX 115 1.1 MI NE OF COURTHOUSE

City: KERMIT County: WINKLER State: TX

Lat (NAD83): 31-52-13.5 N Long (NAD83): 103-05-01.6 W ASR No.: Ground Elev: 878.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.75500000	MO	27		20K0F3E	100.000				
1	1	000154.95000000	MO	27		20K0F3E	100.000				
2	1	000155.37000000	FB	1		20K0F3E	100.000		76.0		
2	1	000155.64000000	FB2	1		20K0F3E	300.000		76.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: WINKLER, COUNTY OF

Call Sign: KNBV938

File Number: 0000586253

Print Date:

Control Points

Control Pt. No. 1

Address: SHERIFFS OFFICE POLICE DEPT

City: KERMIT **County:** **State:** TX **Telephone Number:** (915)586-3461

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: WINKLER, COUNTY OF

WINKLER, COUNTY OF
WINKLER CTY COURTHOUSE
KERMIT, TX 79745

Call Sign KNGD536	File Number 0001140824
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001648179

Grant Date 01-03-2003	Effective Date 01-03-2003	Expiration Date 03-22-2013	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of operation

Other:25 MIRA KERMIT TX

Loc. 2 Address: CORNER N PINE & MIDLAND STS

City: KERMIT County: WINKLER State: TX

Lat (NAD83): 31-52-04.5 N Long (NAD83): 103-05-49.6 W ASR No.: Ground Elev: 875.0

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000154.04000000	MO	12		20K0F3E	110.000				
2	1	000154.04000000	FB	1		20K0F3E	80.000		24.0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: WINKLER, COUNTY OF

Call Sign: KNGD536

File Number: 0001140824

Print Date:

Control Points

Control Pt. No. 1

Address: CORNER N PINE & MIDLAND STS

City: KERMIT **County:** **State:** TX **Telephone Number:**

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy

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**Federal Communications Commission
Public Safety and Homeland Security Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: WINKLER, COUNTY OF

ATTN: MEMORIAL HOSPITAL BONNIE LECK
WINKLER, COUNTY OF
821 JEFFEE DR
PO BOX DRAWER H
KERMIT, TX 79745

Call Sign WPNW778	File Number 0001805375
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001648179

Grant Date 07-15-2004	Effective Date 07-15-2004	Expiration Date 07-20-2014	Print Date
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: TORNILLO ST AT BRYAN ST
City: KERMIT **County:** WINKLER **State:** TX
Lat (NAD83): 31-51-16.5 N **Long (NAD83):** 103-05-48.6 W **ASR No.:** N/A **Ground Elev:** 871.0

Loc. 2 Area of operation
Operating within a 40.0 km radius around fixed location 1

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000155.7150000	FB2	1		20K0F3E	100.000	125.000	55.0	53.0	
2	1	000150.7750000	MO	28		20K0F3E	75.000	81.000			
2	1	000155.7150000	MO	28		20K0F3E	75.000	81.000			

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: WINKLER, COUNTY OF

Call Sign: WPNW778

File Number: 0001805375

Print Date:

Control Points

Control Pt. No. 2

Address: 821 Jeffee Drive

City: Kermit **County:** WINKLER **State:** TX **Telephone Number:** (432)586-5864

Associated Call Signs

Waivers/Conditions:

NONE

Reference Copy