



*Office of Emergency
Management*

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Mayor Glenn Johnson
DIRECTOR OF EMERGENCY MANAGEMENT
Stephen L. Curran
EMERGENCY MANAGEMENT COORDINATOR
Taylor Shelton
ASSISTANT EMERGENCY MANAGEMENT
COORDINATOR

March 29, 2010

Mr. Doug Frankhouser, Chairman
NPSPAC Region 51

Dear Chairman Frankhouser:

The City of Port Neches, City of Port Arthur, City of Beaumont, Jefferson County, and Hardin County respectfully requests the modification of its existing licenses with frequency call signs WNVF965, WPHA900, WPMJ575, WQBH267, WQKB845 for merger and implementation of a countywide trunked Regional Radio System.

This frequency modification is required to provide the coverage and loading for the expected number of users in this regional radio system.

Jefferson County, Hardin County, the City of Beaumont, City of Port Neches, City of Port Arthur, City of Nederland, and the City of Groves, through the execution of an inter-local agreement, have become participating members of the Jefferson County Regional Radio System.

The appropriate APCO and FCC forms have been completed and are attached.

The equipment for the system has been purchased and is in the process of being installed. Implementation will be complete within six (6) months after the FCC has authorized the requested frequencies.

Respectfully Submitted,

Stephen L. Curran, Fire Chief/EMC
City of Port Neches

Bart Bartkowiak, Chief Technology Officer
City of Beaumont

Larry Richard, Fire Chief
City of Port Arthur

Mark Dubois, Deputy Chief
Jefferson County Sheriffs Office

Wayne McDaniel Jr., Constable
Hardin County Sheriffs Office

Region 51 Application for Radio Spectrum From the City of Port Neches

SYSTEM DESIGN

The City of Port Neches is applying for a license modification to merge with and operate on a Regional Radio System located in Jefferson and Hardin Counties as described in an Inter-local Agreement. When the merger is complete, the Regional Radio System will have 4 simulcast towers with 21 channels located in Jefferson County; and two 5 channel IR tower locations in Hardin County shared jointly with the City of Beaumont, Jefferson County, and Hardin County, Texas. The Port Neches license currently on a single tower located in Port Arthur, Texas is used by four cities – Port Neches, Port Arthur, Nederland, & Groves. Licenses between the stakeholders in the Inter-local Agreement have now been redefined to specific locations in the Regional Radio System (see attached spreadsheet for layout). Port Neches will be applying for a license modification as described on Page 1 of the attached spreadsheet.

Note 1: The City of Beaumont, City of Port Arthur, Jefferson County, and Hardin County are making applications for license modifications at the same time as the City of Port Neches license modification to complete the merger.

Note 2: A Sprint/Nextel Rebanding Change Order is pending approval of the Port Neches license modification. There are two rebanded frequencies involved in this application. The FCC is monitoring this license application for completion.

Note 3: Port Neches and Port Arthur will be trading one frequency to complete the system.

FUNDING STATEMENT

This project has been purchased and implementation is currently in progress.

IMPLEMENTATION SCHEDULE

The City of Port Neches intends to have these additional sites and repeaters fully implemented with six (6) months of receiving the license.

EXISTING FREQUENCY STATEMENT

The frequencies are filed with the FCC under file numbers:

| | | |
|------------------|----------|------------------|
| Port Neches | 1667237 | WNVF965. |
| Port Arthur | 13198551 | WPHA900 |
| Beaumont | 1672070 | WPMJ575, WPDM948 |
| Jefferson County | 1672039 | WQBH267 |
| Hardin County | 4542163 | WQKB845 |

THE FOLLOWING ITEMS WILL BE INCLUDED:

1. Name of Applicants: City of Port Neches, City of Port Arthur, City of Beaumont, Jefferson County, and Hardin County

2. Name of Preparers:

Stephen L. Curran, Fire Chief/EMC
1209 Merriman
Port Neches, TX 77651
409-719-2458
scurran@ci.port-neches.tx.us

Bart Bartkowiak, Chief Technology Officer
620 Marina Drive
Beaumont, TX 77703
409-880-3752
bbartkowiak@ci.beaumont.tx.us

3. Residential Population: Regional Radio System- 2000 Census population 300,124 (Jefferson County 252,051 & Hardin County 48,073)

4. Business/Tourist Population:

5. Square Mile Area: Regional Radio System- 1,798 sq. mi. (Jefferson County 903.6 sq. mi. & Hardin County 894.4 square mi.)

6. Unique Geographic Considerations: The Regional Radio System's elevation at its southern end is at or near sea level in a flood zone. The region has numerous large industrial chemical and refining facilities. The Areas at the northern end of the region are heavily wooded.

7. Unique Demographic Considerations: Interstate 10 runs E/W through the County and US 69 runs N/S through the County which also serves as a major Hurricane evacuation route for residents in the Beaumont/Port Arthur area. There are two large Kansas City Rail yards located in Beaumont and Port Arthur and their associated tracks. The region includes two designated Military out-load Ports – Port of Beaumont (primary) and Port of Port Arthur (over flow).

8. List all Department/Divisions within above Applicant which have separate Communications Systems:

None

**DEPARTMENT/DIVISION FREQUENCY USE
SECTION B**

PRODUCE ONE SECTION B FOR EACH EXISTING CHANNEL:

1. Name of Applicants: City of Port Neches, City of Port Arthur, City of Beaumont, Jefferson County, and Hardin County

3. Number of personnel in this Regional Radio System which regularly use radios (excluding dispatchers):

Approximately 3274 users

| | | |
|-----------------------------------|--------------|----------------------------|
| 4. Port Neches Carrier Frequency: | 855/810.4875 | WNVF965 |
| | 856/811.2375 | WNVF965 |
| | 856/811.7125 | WNVF965 |
| | 857/812.7125 | WNVF965 |
| | 858/813.7125 | WNVF965 |
| | 859/814.2625 | WNVF965 |
| | 859/814.7125 | WNVF965 |
| Rebanded | 858/813.5125 | WNVF965 (Old 860/815.2375) |
| Rebanded | 854/809.3375 | WNVF965 (Old 860/815.7125) |
| | 855/810.9875 | WNVF965 (Old PAFD Conv.) |

Port Arthur Carrier Frequency: 857/812.2375 WPHA900 (Old PN Simulcast)

| | | |
|-----------------------------|--------------|---------|
| Beaumont Carrier Frequency: | 851/806.2750 | WPMJ575 |
| | 851/806.5375 | WPMJ575 |
| | 851/806.7875 | WPMJ575 |
| | 852/807.2875 | WPMJ575 |
| | 855/810.9625 | WPDM948 |

| | | |
|-------------------------------------|--------------|---------|
| Jefferson County Carrier Frequency: | 851/806.2500 | WQBH267 |
| | 852/807.1250 | WQBH267 |
| | 853/808.5000 | WQBH267 |
| | 853/808.7375 | WQBH267 |

Hardin County Carrier Frequency: 854/809.3875 WQKB845 (New license)

If Mobile Relay or Duplex Channel, Indicate paired frequency:

Is this part of a trunked system? Yes

Is this part of a mutual aid system? Yes

5. FCC assigned call sign(s): WNVF965, WPHA900, WPDM948, WPMJ575, WQBH267 WPMG304, WQKB845

6. FCC Part 90 Service Category: (Local Government Radio Service, Police Radio

Service, Fire Radio Service, Highway Maintenance Radio Service, Forestry-Conservation Radio Service, Special Emergency Radio Service, Other)

Police/Fire/Public Works Radio Service

7. Station Classification from License (include all that apply):(Voice, Data/Telemetry, Base Station [FB], Mobile Relay [Repeater] [FB2], Mobile [MO], Control Station [FX1], other-indicate specifics)

FB2, FX1, MO

8. Number of Mobiles in service and in operation at this time on this frequency (not including "Convertacom" units):

1263

Are these same units listed on another frequency? NO

9. Number of Portables (handhelds) in service and in operation at this time on this frequency not including spare units:

2011

How many of these are used with a convertacom? None

How many of these same units are listed on other frequencies? List quantity and frequencies: None

10. How many individual radio transmissions occur during an average 24 hour period? (Indicate estimated or measured):

20,000 Est.

11. How many of these transmissions occur per hour during peak periods?(Indicate estimated of measured):

1,000 Est.

12: If this is a Voice Channel, what is the typical air time per individual transmission?: (Less than five seconds, More than five but less than ten seconds, More than ten seconds)

4 Seconds

ADDITIONAL INFORMATION
SECTION C [1 of 5]

PRODUCE ONE SECTION C FOR EACH DEPARTMENT/DIVISION:

1. Name of Applicant: Port Neches, City of
2. Name of Department/Division: Port Neches Emergency Management
3. How many channels are being requested for this division? None
4. State the intended use of the requested frequencies and the proposed system structure and spectrum considerations (interoperability):

The City of Port Neches is not requesting any new frequencies

5. What frequency band is desired for the new frequency?

N/A

6. Explain requirements for the selected band and reason why others spectrum will not suffice:

The City of Port Neches is requesting a license modification to the existing license in order to participate in a countywide Regional Radio System. This will provide the City with greater interoperability.

ADDITIONAL INFORMATION
SECTION C [2 of 5]

PRODUCE ONE SECTION C FOR EACH DEPARTMENT/DIVISION:

1. Name of Applicant: Port Arthur, City of
2. Name of Department/Division: Port Arthur Fire Department
3. How many channels are being requested for this division? None
4. State the intended use of the requested frequencies and the proposed system structure and spectrum considerations (interoperability):

The City of Port Arthur is not requesting any new frequencies

5. What frequency band is desired for the new frequency?

N/A

6. Explain requirements for the selected band and reason why others spectrum will not suffice:

The City of Port Arthur is requesting a license modification to the existing license in order to participate in a countywide Regional Radio System. This will provide the City with greater interoperability.

ADDITIONAL INFORMATION
SECTION C [3 of 5]

PRODUCE ONE SECTION C FOR EACH DEPARTMENT/DIVISION:

1. Name of Applicant: Beaumont, City of
2. Name of Department/Division: Beaumont Technology Division
3. How many channels are being requested for this division? None
4. State the intended use of the requested frequencies and the proposed system structure and spectrum considerations (interoperability):

The City of Beaumont is not requesting any new frequencies

5. What frequency band is desired for the new frequency?

N/A

6. Explain requirements for the selected band and reason why others spectrum will not suffice:

The City of Beaumont is requesting a license modification to the existing license in order to participate in a countywide Regional Radio System. This will provide the City with greater interoperability.

ADDITIONAL INFORMATION
SECTION C [4 of 5]

PRODUCE ONE SECTION C FOR EACH DEPARTMENT/DIVISION:

1. Name of Applicant: Jefferson County
2. Name of Department/Division: Jefferson County Sheriffs Office
3. How many channels are being requested for this division? None
4. State the intended use of the requested frequencies and the proposed system structure and spectrum considerations (interoperability):

The Jefferson County is not requesting any new frequencies

5. What frequency band is desired for the new frequency?

N/A

6. Explain requirements for the selected band and reason why others spectrum will not suffice:

Jefferson County is requesting a license modification to the existing license in order to participate in a countywide Regional Radio System. This will provide the County with greater interoperability.

ADDITIONAL INFORMATION
SECTION C [5 of 5]

PRODUCE ONE SECTION C FOR EACH DEPARTMENT/DIVISION:

1. Name of Applicant: Hardin County
2. Name of Department/Division: Hardin County Sheriffs Office
3. How many channels are being requested for this division? None
4. State the intended use of the requested frequencies and the proposed system structure and spectrum considerations (interoperability):

The Hardin County is requesting one new frequency

5. What frequency band is desired for the new frequency?

854.3875

6. Explain requirements for the selected band and reason why others spectrum will not suffice:

Hardin County is requesting a license modification to the existing license in order to participate in a countywide Regional Radio System. This will provide the County with greater interoperability.

**SHORT FORM
PUBLIC SAFETY PLANNING COMMITTEE FREQUENCY ASSIGNMENT
REQUEST**

For the 821/866-869 Mhz band
For inclusion as part of the
REGION 51 Public Safety Communications initial Frequency
Assignment

Name of applicant: Port Neches, City of
Mailing Address: 1209 Merriman
City, State, Zip: Port Neches, TX 77651

Authorized Signature _____
Stephen L. Curran
Fire Chief/EMC

Name of applicant: Port Arthur, City of
Mailing Address: 300 Waco Avenue
City, State, Zip: Port Arthur, TX 77641

Authorized Signature _____
Larry D. Richard
Fire Chief

Name of applicant: Beaumont, City of
Mailing Address: 620 Marina Drive
City, State, Zip: Beaumont, TX 77703

Authorized Signature _____
Bart Bartkowiak
Chief Technology Officer

Name of applicant: Jefferson County
Mailing Address: 1001 Pearl Street
City, State, Zip: Beaumont, TX 77701

Authorized Signature _____
Mark Dubois
Deputy Chief, Jefferson County Sheriff's Office

Name of applicant: Hardin County
Mailing Address: P. O. Box 1990
City, State, Zip: Kountze, TX 77625

Authorized Signature _____
Wayne McDaniel Jr.
Constable, Hardin County Sheriff's Office

Is this a request for a new station?

No

If for a new station, will it be trunked or conventional?

Is this a request for expansion of an existing system?

Yes, the City of Port Neches, Port Arthur, Beaumont, Jefferson County, and Hardin County existing frequencies are being merged and incorporated into the new countywide trunked Regional Radio System.

If for expansion of an existing 800 MHz station, how many RF channels are there in the existing system?

10

How many RF channels are you requesting from the new 821/866 MHz band?

None. All 5 entities are requesting modifications to the existing license only.

Please list your existing frequencies and briefly describe their use.

Port Neches Existing Frequencies – Located on single tower; Flint Hill Resource Sharenet System on Savannah Avenue in Port Arthur, TX used by Port Neches, Port Arthur, Nederland, and Groves for Public Safety & Public Works.

855/810.4875 WNVF965
856/811.2375 WNVF965
856/811.7125 WNVF965
857/812.2375 WNVF965
857/812.7125 WNVF965
858/813.7125 WNVF965
859/814.2625 WNVF965
859/814.7125 WNVF965
860/815.2375 WNVF965
860/815.7125 WNVF965

Port Arthur Existing Frequency – Conventional Repeater located behind the Port Arthur Police Station used by Fire Department.

855/810.9875 WPHA900

Beaumont Existing Frequencies – Used on Jefferson County Regional System at IR sites on Hwy 73 and Crown locations in Jefferson County for Public Safety & Public Works.

851/806.2750 WPMJ575
851/806.5375 WPMJ575

851/806.7875 WPMJ575
 852/807.2875 WPMJ575
 Data Frequency for the City of Beaumont
 855/810.9625 WPDM948

Jefferson County Existing Frequencies – Used on Jefferson County Regional System at IR sites on Hwy 73 and Crown towers in Jefferson County for Public Safety & Public Works.

851/806.2500 WQBH267
 852/807.1250 WQBH267
 853/808.5000 WQBH267
 853/808.7375 WQBH267

Hardin County New Frequency: 854/809.3875 WQKB845 (New license – not in use)

Will the use of the requested frequencies replace use of existing frequencies currently licensed?

No.

If use of the requested frequencies will replace the use of existing frequencies currently licensed, you may be required to “give back” some current frequencies. Please list the frequencies you would consider as “give back” after your new channels are in operation.

N/A

Please give a month and year estimate for when you would expect the channels to become operational?

June 2010

Please describe any actions that your entity has taken to fund the purchase of equipment for the requested channels. If no action has occurred, please indicate that no action has been accomplished and indicate how you expect your entity to fund the purchase of new equipment and what date you expect it to occur.

Jefferson County’s countywide trunked system has been purchased and implementation is already under way.

Please give the proposed latitude and longitude where the requested frequency transmitters will be located

| | Beaumont | Pine Street | Crown | Hwy 73 | Bragg | Silsbee | Port Arthur |
|-----------|--------------|-------------|--------------|------------|--------------|-------------|--------------|
| Latitude | 30:05:53.7 N | 29:58:36 N | 30:03:31.7 N | 29:49:37 N | 30:26:01.0 N | 30:21:5.8 N | 29:52:20.8 N |
| Longitude | 94:05:58.6 W | 93:56:03 W | 94:15:40.0 W | 94:13:45 W | 94:35:02.0W | 94:13:29.7W | 93:56:02.6 W |

Keeping in mind the jurisdictional boundary restrictions, please give the approximate radius (in miles) that you expect to cover from the proposed transmitter site.

| Beaumont | Pine Street | Crown | Hwy 73 | Bragg | Silsbee | Port Arthur |
|----------|-------------|-------|--------|-------|---------|-------------|
| 15 | 17 | 15 | 13 | 14.5 | 14 | 15 |

Please give the ground elevation at the site where the transmitting antenna will be located.

| Beaumont | Pine Street | Crown | Hwy 73 | Bragg | Silsbee | Port Arthur |
|----------|-------------|----------|---------|---------|---------|-------------|
| 20.0 ft. | 9.8 ft. | 30.8 ft. | 6.6 ft. | 125 ft. | 43 ft. | 7 ft. |

Please give the average ground elevation for the radius that you expect to cover.

| Beaumont | Pine Street | Crown | Hwy 73 | Bragg | Silsbee | Port Arthur |
|----------|-------------|----------|---------|---------|---------|-------------|
| 24.0 ft. | 9.8 ft. | 30.8 ft. | 6.6 ft. | 125 ft. | 43 ft. | 7 ft. |

Please give the height the transmitting antenna will be mounted above average elevation

| Beaumont | Pine Street | Crown | Hwy 73 | Bragg | Silsbee | Port Arthur |
|----------|-------------|-------|--------|-------|---------|-------------|
| 400 | 479 | 300 | 350 | 280 | 435 | 100 |