

## **Region 51 Application for Radio Spectrum From Montgomery County**

### SYSTEM DESIGN

Montgomery County is applying for an STA to operate a 5 site 10 channel rebanded simulcast system

### FUNDING STATEMENT

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

### IMPLEMENTATION SCHEDULE

The system is installed and the county is looking to turn on the repeaters mid to late September.

### EXISTING FREQUENCY STATEMENT

The frequencies are filed with the FCC under file number 0006013411 with call sign WPJY381.

### THE FOLLOWING ITEMS WILL BE INCLUDED:

1. Name of Applicant: Montgomery, County of
2. Name of Preparer: David Park
3. Title: Lieutenant
4. Mailing Address: #1 Criminal Justice Dr. Conroe, TX 77301
5. Telephone Number: (936) 538-3450
6. Residential Population: 420,000
7. Business/Tourist Population:
8. Square Mile Area: 1088
9. Unique Geographic Considerations: County is ranges from open plains to heavy woods.

10. Unique Demographic Considerations: Interstate 45 runs through the county which serves as a major Hurricane evacuation route for residents in the Houston/Galveston area.
11. 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 Applicant: Montgomery, County of
2. Name of Department/Division: Montgomery County Sheriff's Office
3. Number of personnel in this Department/division which regularly use radios (excluding dispatchers):

Approximately 1800 users

4. Carrier Frequency:868/823.5750  
853/808.8375  
853/808.2750  
852/807.8000  
852/807.7750  
852/807.3250  
852/807.3000  
851/806.8250  
851/806.3250  
851/806.7750

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): WPJY381
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 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):

811

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:

893

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): 650,000 Est.

11. How many of these transmissions occur per hour during peak periods?(Indicate estimated or measured): 28,000 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**

PRODUCE ONE SECTION C FOR EACH DEPARTMENT/DIVISION:

1. Name of Applicant: Montgomery, County of
2. Name of Department/Division: Montgomery County Sheriff's 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):  
  
N/A
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:  
  
N/A

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: Montgomery County Sheriff's Office  
Mailing Address: #1 Criminal Justice Dr  
City, State, Zip: Conroe, TX 77301

Authorized Signature \_\_\_\_\_

David Park  
Lieutenant (Title)

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?

N/A

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

N/A

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

None

Please list your existing frequencies and briefly describe their use.

Existing Frequencies

853/808.8375

852/807.3000

852/807.3250

853/808.2750

851/806.8250  
851/806.3250  
851/806.7750

852/807.8000  
852/807.7750  
868/823.5750

These frequencies are currently being used by county wide Ma/Com System

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?

September 2008

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.

Montgomery 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

	Conroe	Tamina	Grangerland	Magnolia	Montgomery
LAT	30:16:18.0 N	30:11:20.9 N	30:15:16.1 N	30:13:26.8 N	30:25:27 N
LONG	95:29:45.0 W	95:26:17.7 W	95:20:51.5 W	95:41:43.0 W	95:41:12.0 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.

Conroe	Tamina	Grangerland	Magnolia	Montgomery
~20	~15	~15	~15	~12

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

Conroe	Tamina	Grangerland	Magnolia	Montgomery
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121.39 ft	118.11 ft	154.20 ft	209.97 ft	259.19 ft
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Please give the average ground elevation for the radius that you expect to cover.

Conroe	Tamina	Grangerland	Magnolia	Montgomery
~111.39 ft	~108.11 ft	~144.20 ft	~199.97 ft	~249.19 ft

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

Conroe	Tamina	Grangerland	Magnolia	Montgomery
680 ft	460 ft	470 ft	440 ft	380 ft