



 (866) 304-3830

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IMPORTANT DISCLAIMER

This guide is provided for informational purposes only. While Lexico has made every effort to compile accurate and up-to-date information from official sources, regulations, requirements, and standards may have changed since publication. This document should not be relied upon as the sole source of information for compliance purposes. **Always verify current requirements directly with the Authority Having Jurisdiction (AHJ)** for your specific project location. Requirements can vary by municipality, building type, and may be subject to local amendments or updates. Lexico assumes no liability for errors, omissions, or changes in regulations. For the most current requirements and professional ERRCS compliance services, contact Lexico at (866) 304-3830.

Tampa Bay Area ERRCS Grid Testing Guide 2025

Your Complete Multi-Jurisdiction Emergency Responder Radio Communication Systems
Resource

Comprehensive Requirements for the counties in the Tampa Bay area

Brought to you by **Lexico** - Your Trusted ERRCS Partner

Navigate Complex ERRCS Requirements with Confidence

With varying standards across jurisdictions, ERRCS compliance can be overwhelming.

Let Lexico's experienced team guide you through every step of the process.

(866) 304-3830

From initial signal surveys to system design, installation, maintenance and final certification
- We handle it all.

Hillsborough County (Unincorporated Areas)

Managed by HCSO Radio Services | AHJ: Hillsborough County Fire Rescue (HCFR)

 **IMPORTANT:** Send site address to HCSO first to determine if project location is in Hillsborough County or City of Tampa jurisdiction, and which system (East/West) applies.

 **LEXICO TIP:** Navigating HCSO's jurisdiction determination can be complex. Our team has established relationships with HCSO personnel and can expedite this process for you. Call us at **(866) 304-3830** to get started.

System Overview

HCSO Radio Systems	Code Requirements
EDACS West: 7 sites, 20 channels	Fire Code: Florida Fire Prevention Code 7th Edition
EDACS East: 10 sites, 15 channels	NFPA Standards: NFPA 1221-2016, Chapter 9.6
P25 West: 9 sites, 10 channels	Signal Strength: -95 dBm minimum
P25 East: 9 sites, 10 channels	General Areas: 95% coverage
Coverage: All unincorporated Hillsborough County	Critical Areas: 99% coverage

Critical Areas

Fire Command Centers

Mechanical and Utility Rooms

Public Bathrooms

"Employee Only" Access Areas

Stairwells

Exit Stairs

Exit Passageways

Police Holding Areas

Elevator Lobbies

Fire Pump Rooms

Sprinkler Sectional Valve Locations

Other Areas Considered by HCFR

Building Thresholds

Existing buildings being modified meeting any of these criteria:

→ 3+ stories in height or

→ 30,000+ sq ft total area or

→ Type I or II construction and $\geq 10,000$ sq ft or

→ Has a basement/level below grade

Testing required for all new construction

Frequency Information

System	Technology	TX Range (MHz)	RX Range (MHz)	Channels
P25 West	P25 Phase II Digital	769.28 - 774.63	799.28 - 804.63	10
P25 East	P25 Phase II Digital	769.56 - 851.83	799.56 - 806.83	14
EDACS West	EDACS ProVoice	851.23 - 853.74	806.23 - 808.74	20
EDACS East	EDACS ProVoice	851.70 - 853.83	806.70 - 808.83	11

Submission Process

☐ **Step 1:** Contact HCSO to determine jurisdiction and system assignment Lexico handles this

☐ **Step 2:** Submit survey prior to BDA installation Lexico handles this

☐ **Step 3:** Submit certified design and signed Hillsborough County application
Lexico handles this

☐ **Step 4:** Complete FCC Signal Booster Registration Lexico handles this

☐ **Step 5:** Obtain Provisional Retransmission Authorization (1 year validity) Lexico handles this

☐ **Step 6:** Complete installation and testing Lexico handles this

☐ **Step 7:** Submit to HCFR Fire Marshal for inspection Lexico handles this

☐ **Step 8:** Obtain 5-Year Retransmission Authorization Lexico handles this

Hillsborough County Contact Information

HCSO Radio Services:

 (813) 247-0020 / (813) 247-0080

 2214 N. Falkenburg Rd, Tampa, FL 33619

City of Tampa

Managed by HCSO Radio Services | AHJ: City of Tampa Fire Marshal

 **IMPORTANT:** City of Tampa uses the same HCSO radio systems but has separate fire marshal requirements. Contact HCSO first to confirm jurisdiction.

System Overview

Radio Systems

Uses HCSO's four radio systems

Same frequencies as Hillsborough County

Separate permit process through City

Technology & Innovation (CT&I) review required

Code Requirements

Adopting: NFPA 72-2019

Also: NFPA 1221-2019

Signal Strength: -95 dBm minimum

DAQ: 3.4 or better

Propagation Delay: ≤28 microseconds @ 25KHz

Testing Requirements

Grid pattern testing based on building size

Small: 5 test points (100% pass required)

Medium: 25 ft intervals (90/99% pass)

Large: 50 ft intervals (90/99% pass)

Heat maps required for all floors

💡 **LEXICO ADVANTAGE:** City of Tampa's dual submission requirements (CT&I and HCSO) can delay projects. Our team manages both submissions simultaneously, saving you weeks of processing time. Contact us at sales@lexicocom.com to streamline your Tampa project.

Submission Requirements

- ☐ **City of Tampa Fire Miscellaneous Permit** - Required before any work
- ☐ **Submit to CT&I:** ELE-Email@tampagov.net
- ☐ **Submit to HCSO:** smitchel@hcsotampa.fl.us
- ☐ **Sealed design plans and color-coded floor heat maps (PDF)**
- ☐ **City of Tampa application form** (separate from Hillsborough County)
- ☐ **City of Tampa Fire Marshal inspection**
- ☐ **Certificate of Radio Coverage Compliance (CORCC)**

City of Tampa Contacts

Technology & Innovation (CT&I):

✉ **ELE-Email@tampagov.net**

Need help navigating City of Tampa requirements?

Call Lexico: **(866) 304-3830**

Pinellas County

Managed by Pinellas County Radio & Technology (PCR&T) | Multiple Municipal AHJs

 **DID YOU KNOW?** Pinellas County has 24+ municipalities, each with its own building department and potential variations in requirements. Lexico maintains relationships with all major municipalities and can help determine exactly which permits you need. Save time and avoid costly mistakes - call **(866) 304-3830**.

System Overview

Radio Systems

County: 800 MHz Intergovernmental System

County: 700 MHz Digital Overlay

Clearwater: Separate 800 MHz System

Frequency Range: 769-861 MHz

Tower Sites: 11 County + 2 Clearwater

Code Requirements

Standard: NFPA 72-2013 Edition

Chapter: 24 Emergency Communications

Signal Strength: -95 dBm minimum

General Areas: 90% coverage

Critical Areas: 99% coverage

FCC Call Signs

WPJR956

WPWX247

WPVM761

KNJU723

KNJH386

Pinellas County Municipalities (Each has its own building department):

Belleair	Kenneth City	St. Pete Beach
Belleair Beach	Largo	St. Petersburg
Belleair Bluffs	Madeira Beach	Seminole
Belleair Shore	N. Redington Beach	South Pasadena
Clearwater*	Oldsmar	Tarpon Springs
Dunedin	Pinellas Park	Treasure Island
Gulfport	Redington Beach	Unincorporated Areas
Indian Rocks Beach	Redington Shores	
Indian Shores	Safety Harbor	

**Clearwater has its own separate 800 MHz system*

Tower Locations

County Tower Sites

Ridgecrest - Largo

PSC - Largo

Courthouse - Clearwater

Tarpon - Palm Harbor

Eldridge Wilde - Tarpon Springs

Safety Harbor

Highway - Clearwater

Toy Town - St Pete

St Petersburg

Ft Desoto - St Pete

The Fountains - St Pete

Clearwater Tower Sites

Missouri - 1417 S. Missouri Ave

580 - 3290 SR 580

Clearwater projects require special coordination. Lexico's team is experienced with both County and Clearwater systems.

Pinellas County Contacts

Radio & Technology Department (PCR&T):

 [**ratsupport@pinellascounty.org**](mailto:ratsupport@pinellascounty.org)

 (727) 464-3879

 440 Court St, 3rd Floor, Clearwater, FL

Building Services: (727) 464-3888

Let Lexico navigate Pinellas County's 24+ jurisdictions for you!

 [**sales@lexicom.com**](mailto:sales@lexicom.com)

Pasco County

Managed by Pasco County Fire Rescue | Florida Fire Prevention Code Requirements

 **UNIQUE REQUIREMENTS:** Pasco County allows Class A and Class B BDAs and -115 dBm signal strength (not -95 dBm). These differences can significantly impact system design and cost.

System Overview

P25 System Requirements

Technology: P25 Digital System

Signal Strength: -115 dBm minimum

General Areas: 95% coverage

Critical Areas: 99% coverage

DAQ Standard: NTIA Report 99-358

Code Requirements

FFPC: Chapter 11.10

Florida Statute: 633.202

New Buildings: Compliance by Jan 1, 2022

Existing Buildings: Varies by type

Apartments: By Jan 1, 2025

Important Notes

GROL License required for work

FCC registration by Pasco County

Do NOT energize without Fire Inspector

24-hour contact info required

 **PASCO COUNTY ALERT:** The unique Class B BDA and -115 dBm requirements mean equipment specified for other counties might not be required here. Lexico maintains inventory specifically for Pasco County projects. Avoid costly change orders and minimize system costs - call us first at **(866) 304-3830**.

Pasco County P25 Frequencies

Channel	Receive (MHz)	Transmit (MHz)
1	810.1625	855.1625
2	810.3625	855.3625
3	810.6375	855.6375
4	810.8625	855.8625
5	811.3625	856.3625
6	811.8875	856.8875
7	812.3875	857.3875
8	813.3125	858.3125

Service Areas:

- Land O' Lakes: (813) 929-2750
- New Port Richey: (727) 847-2411 Ext. 2750
- Dade City: (352) 521-4274 Ext. 2750

Pasco County Contact

Fire Marshal / LEO:

J. Frum

 **jfrum@pascocountyfl.net**

 (813) 929-2750 ext. 2643

 (727) 207-5946

 4111 Land O' Lakes Blvd., #208, Land O' Lakes, FL 34639

East Lake Tarpon Special Fire Control District

Part of Pinellas County System | Independent Fire District Requirements

System Overview

Requirements

Uses: Pinellas County 911 System

Standard: NFPA 1 Chapter 11.10

Testing: NFPA 72-2013

Signal: -95 dBm minimum

Coverage: Per NFPA 72-2013

Testing Process

Third-party integrator required

Spectrum analysis grid test

iBWAVE predictive analysis accepted for permits

Final testing at construction completion

Deputy Chief approval required

Coverage Area

Palm Harbor

East Lake area

Parts of Tarpon Springs

Unincorporated north Pinellas

East Lake Tarpon Contact

Special Fire Control District:

 (727) 784-8668

 (727) 474-5830

 3375 Tarpon Lake Blvd., Palm Harbor, FL 34685

 www.elfr.org

Why Navigate These Complex Requirements Alone?

Lexico has successfully completed hundreds of ERRCS projects across all Tampa Bay jurisdictions.

- ✓ Licensed and certified technicians
- ✓ PE-sealed documentation
- ✓ Current calibrated test equipment
- ✓ Heat map generation
- ✓ Established AHJ relationships
- ✓ Annual testing services

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Ready to Ensure ERRCS Compliance?

Trust the Tampa Bay Area's Leading ERRCS Testing Specialist

(866) 304-3830

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 **www.lexicocom.com**

Our Services Include:

- Initial Site Surveys
- System Design
- BDA Installation
- Grid Testing
- Heat Map Generation
- PE-Sealed Documentation
- AHJ Coordination
- Annual Testing
- 1,3, and 5-Year Retransmission Renewals

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This document does not constitute professional engineering or legal advice

Information compiled from official sources including HCSO, City of Tampa, Pinellas County, Pasco County, and local fire districts.

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