

Notice of Public Meeting

February 12, 2020

9:00AM

COMMUNICATION  
ADVISORY TECHNICAL  
SUB-COMMITTEE

Justice Center Multi-Purpose Room  
1201 S Duluth Ave  
Sturgeon Bay, WI 54235

*Technology Services is the Oversight Committee for Communication Advisory Technical Sub-Committee*

AGENDA

1. Call Meeting to Order
2. Establish a Quorum
3. Adopt Agenda / Properly Noticed
4. Approve Minutes of the 10/28/2019 Communication Advisory Technical Sub-Committee
5. Approve Minutes of the 1/20/2020 Joint Public Safety & CATS Committee
6. Public Comment
7. Old Business
  - 7.1 DCMC/First Net update
  - 7.2 Door/Kewaunee Dispatch Study
  - 7.3 FCC License Update
8. New Business
  - 8.1 LaSalle Park Cell Tower Proposal
  - 8.2 LCC Telecom Services Tower Proposal
  - 8.3 Update alarm system server
9. Review Vouchers, Claims and Bills – None
10. Matters to be Placed on a Future Agenda or Referred to a Committee, Official, or Employee
11. Next CATS Committee Meeting Date: To be determined
12. Set Per Diem Code
13. Adjourn

*Deviation from the order shown may occur*

Members of the Door County Board of Supervisors and/or its sub-units may be in attendance at this meeting to listen and gather information. Notice is hereby given that the above meeting may constitute a meeting of the Door County Board of Supervisors or one of its sub-units. However no official action will be taken except by the Communication Advisory Technical Sub-Committee. .

Notice of Public Meeting

October 28, 2019  
10:00AM

**COMMUNICATION  
ADVISORY TECHNICAL  
SUB-COMMITTEE**

*Justice Center Multi-Purpose Room  
1201 S Duluth Ave  
Sturgeon Bay, WI 54235*

*Technology Services is the Oversight Committee for Communication Advisory Technical Sub-Committee*

**AGENDA**

**Call Meeting to Order**

CATS Chairman Jon Koch called the October 28, 2019 meeting to order at 10:00AM

**Establish a Quorum**

Dan Kane, Jon Koch, Tim Dietman, Aaron LeClair, Howie Hathaway, Greg Diltz, Pat McCarty

Others Present: Jason Rouer, Jason Baudhuin, Ken Pabich, Jeff Conoley

**Adopt Agenda / Properly Noticed**

Motion made by Diltz second by Hathaway to adopt the agenda

**Approve Minutes of the 9/10//2019 Communication Advisory Technical Sub-Committee**

Motion made by Diltz second by LeClair to approve the minutes

**Public Comment**

None

**Old Business**

DCMC/First Net update

Dietman talked about First Net testing that was conducted with several public safety partners. Due to the success of the testing, the City has decided to remove any funding for the hospital project. The City has purchased First Net devices for both police and fire. The testing consisted of utilizing WIFI capability within a structure to get connectivity to the repeated channels on the Door County system. The City is pursuing funding sources to get it off the ground. The County Sheriffs Office is waiting on final numbers from First Net to determine if and when to switch. The testing conducted by the Sheriffs Office was also found to be successful. Aaron Leclair referenced many large events where First Net was tested with success in the County.

First Net currently is not meant to replace mission critical communications. This is meant to supplement the County system to fill gaps that currently exist.

Recommended to be forwarded to public safety committee for an FYI.

**New Business**

FYI Door/Kewaunee Dispatch Study

Ken Pabich discussed about a proposed study that would look into whether Kewaunee and Door Counties could share dispatch operations. This had been discussed several years ago. Kewaunee will be redoing their jail and reached out to Door County to share the cost of this study. Funds are built in to do the study for next year to show if the technology will be compatible. Jason B described that the project would be feasible from a technical standpoint.

### **Radio system interference**

Jason B discussed issues with the tower in Fish Creek. Bay Electronics did testing and found that the Fish Creek tower was having issue receiving and transmitting radio traffic. Jason mentioned that there is a lot of site noise due to that tower having too much other equipment on it. The noise has gone up by about 20db since Door equipment was first installed. This has implications on the other towers within the County that are not owned by the County. Future build outs at these towers could have a significant impact on the communications going forward. Discussion around using the FEMA portable tower recently purchased by Sister Bay/Liberty Grove Fire Department as a short term fix were discussed. This item will be left on the agenda for future discussion and updates.

Tower inspections were completed on Friday 10/25 at the Sunnyslope tower. The lights at station 1 and 3 need to be replaced. They are under warranty. They have been ordered and will be replaced, but not until after the October 30<sup>th</sup> deadline from the FAA. The FAA will be notified of this to ensure compliance.

The Egg Harbor tower site building will be delivered 10/29. The site should be up and running by Thanksgiving depending on when WPS can get power into the site.

### **Review Vouchers, Claims and Bills**

None

### **Matters to be Placed on a Future Agenda or Referred to a Committee, Official, or Employee**

Radio System Interference

### **Next CATS Committee Meeting Date**

To be determined

### **Set Per Diem Code**

### **Adjourn**

Motion to adjourn made by Dietman second by Diltz at 11:10AM

**NOTE: These minutes have not been approved by the Communications and Advisory Technical Subcommittee**

**Minutes respectfully submitted by: Daniel Kane**

*Deviation from the order shown may occur*

Members of the Door County Board of Supervisors and/or its sub-units may be in attendance at this meeting to listen and gather information. Notice is hereby given that the above meeting may constitute a meeting of the Door County Board of Supervisors or one of its sub-units. However no official action will be taken except by the Communication Advisory Technical Sub-Committee. .

Notice of Public Meeting  
January 20, 2020  
10:30 AM

JOINT MEETING  
PUBLIC SAFETY  
COMMITTEE  
&  
COMMUNICATION  
ADVISORY TECHNICAL  
SUB-COMMITTEE

Justice Center Multi-Purpose Room  
1201 S Duluth Ave  
Sturgeon Bay, WI 54235

*Technology Services is the Oversight Committee for Communication Advisory Technical Sub-Committee*

**Call Meeting to Order**

CATS Chairman Jon Koch called the January 20, 2020 Joint Public Safety and CATS Committee Meeting to order at 10:32AM.

**Establish a Quorum**

CATS Members Present: Jon Koch, David Enigl, Dan Kane, Aaron LeClair, Pat McCarty, Greg Diltz, Chris Hecht, Howie Hathaway

Public Safety Committee Members Present: Joel Gunnlaugsson, David Englebert, Roy Englebert, Jon Koch, Linda Wait, Megan Lundahl, Laura Viles Wotacheck

Others Present: Ken Pabich, Jason Baudhuin, Wayne Spritka, Jason Rouer, Len Koehnen (by phone)

**Adopt Agenda / Properly Noticed**

Motion by Koch, seconded by Enigl to adopt the agenda. Motion carried by unanimous voice vote.

**Public Comment**

None.

**Old Business**

None.

**New Business**

FCC Licenses

Pabich explained that around 2010 Bay Electronics bid on a pair of frequencies 931 and 932 from an FCC auction. These frequencies were eventually transferred to Door County. A requirement to be able to keep the frequencies was to update the FCC on the buildout and eventual completion and coverage of those frequencies. A new rule change was put into effect requiring the County to show additional information on the project. Within 3 years of the license term the licensee needed to show 1/3 population coverage in the selected Counties and within 5 years 2/3 coverage needed to be shown. Neither the County or Bay Electronics provided all of the documentation the new FCC rule required and therefore, the FCC has issued a final deadline of January 30th 2020 to file the appropriate documentation or the licenses would be canceled. Neither the County nor Bay Electronics felt as though they could complete the work by the deadline. A recommendation was made by Koehnen and Grant Thomas to hire the attorney firm Keller and Heckman out of Washington DC to assist the County in working through the issue with the FCC. Frequency 931 is used by the County to page first responders and 932 is not being used as of today.

*In compliance with the Americans with Disabilities Act, any person needing assistance to participate in this meeting, should contact the Office of the County Clerk at (920)746 2200. Notification 48 hours prior to a meeting will enable the County to make reasonable arrangements to ensure accessibility to that meeting.*

Posted \_\_\_\_\_, 2020 \_\_\_\_\_

Koehnen went into greater detail about FCC regulations and provided technical specifics to the group. He also provided additional history on the situation and what was occurring similarly around the County with this same issue.

Group discussion held on whether to keep frequency 932.

Recommendation by Wotachek to have CATS come up with a policy to move forward on these types of issues.

Motion to relinquish frequency 932 made by Wotachek second by Lundahl. No discussion. Carried unanimous by voice vote.

Motion to proceed with keeping frequency 931 as it is currently partitioned. Motion made by Enigl second by Wotachek. No discussion. Carried by unanimous voice vote.

Motion by Enigl second by R. Englebert for the County to retain the specified law firm Keller and Heckman to proceed with assistance in retaining frequency 931 with a dollar amount not to exceed \$9,999.99. Discussion on renewal fees. Koehnen mentioned that there are no renewal fees for public safety. Motion carried by unanimous voice vote.

Motion made by Enigl second by Gunnlaugsson to pursue alternate choices as recommend by the attorney in the best interest in the County. Carried by unanimous voice vote.

Introductions of the group were given.

#### **Matters to be Placed on a Future Agenda or Referred to a Committee, Official, or Employee**

None.

#### **Per Diem Code**

120

#### **Adjourn**

Motion made by Wotachek second by Enigl to adjourn at 11:41AM. Carried by unanimous voice vote.

**NOTE: These minutes have not been approved by the Communications and Advisory Technical Subcommittee**

Minutes respectfully submitted by: Daniel Kane

*Deviation from the order shown may occur*

## PETITION FOR RECONSIDERATION

Pursuant to Section 1.106 of the Rules and Regulations of the Federal Communications Commission (“Commission”), this is to request reconsideration of the pending termination of authority for station WQUV931 (the “License”) licensed to Door County, WI (“Door County”). The License appeared on the Wireless Telecommunications Bureau’s “Termination Pending” Public Notice on December 31, 2019, for failure to submit the required Notification of Construction. The License is fully constructed and currently in operation.

The License was placed into operation prior to the expiration of the build-out period ending July 3, 2017. Door County timely filed a construction notification with the Commission.<sup>1</sup> That construction notification was returned by the Commission by letter dated October 8, 2019 (“Return Notice”) with a request that additional information be submitted within 60 days. Due to administrative oversight, Door County did not respond to the Return Notice but instead filed a new construction notification on December 12, 2019, three days after a response to the Return Notice was due. Because a timely response to the Return Notice was not received, the License entered the auto-termination process.

While Door County regularly utilizes procedures to ensure that it complies with regulatory obligations in a timely manner, in this instance the due date to respond to the Return Notice was inadvertently overlooked.

The License is currently used to support Public Safety communications. A substantial service showing demonstrating Door County’s significant use of the License is attached hereto. In light of the fact that the facilities are fully constructed and operational, and used to support Public Safety, Door County respectfully submits that reconsideration of the pending termination of authority for the License is in the public interest and asks the Commission to amend the ULS records to return the License to “Active” status. Door County believes that terminating the License would be an inequitable outcome given the critical use of the License and the fact that the information requested by the Return Notice was submitted within a few days of the deadline.

Such action is consistent with prior Commission statements that the purpose of the construction notification procedures is to “verify whether licensees have in fact met their construction and coverage obligations, not to terminate licenses for legitimately operating facilities based on a failure to notify by the licensee.”<sup>2</sup>

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<sup>1</sup> See ULS File No. 0007827013.

<sup>2</sup> See Amendment of Parts 0, 1, 13, 22, 24, 26, 27, 80, 87, 90, 95, 97, and 101 of the Commission’s Rules to Facilitate the Development and Use of the Universal Licensing System in the Wireless Telecommunications Service, WT Docket No. 98-20, *Report and Order*, 13 FCC Rcd 21027 at ¶ 106 (1998).

Door County, WI  
WQUV931

Should the Commission require additional information, it is requested to contact:  
Greg Kunkle, Keller and Heckman LLP, 1001 G Street NW, Suite 500 West,  
Washington, DC 20001; 202.434.4178; e-mail: [kunkle@khlaw.com](mailto:kunkle@khlaw.com).

## **SUBSTANTIAL SERVICE SHOWING**

Door County, WI (“Door County”) provides this substantial service showing regarding the license for station WQUV931 (the “License”).<sup>1</sup> As demonstrated herein, Door County uses the License to provide coverage for critical public safety purposes. The License is clearly being used in the Public interest and Door County requests the Commission confirm the requirements of substantial service have been met.

### **A. Background**

Section 22.503(k)(3) of the FCC’s rules provides that to satisfy coverage requirements, a licensee “may demonstrate that, no later than five years after the initial grant of its paging geographic area authorization, it provides substantial service to the paging geographic area.”<sup>2</sup>

“Substantial service” is generally described in the rules as “service that is sound, favorable, and substantially above a level of mediocre service that would barely warrant renewal.”<sup>3</sup> Beyond that, substantial service is not defined in the Commission’s rules. The Commission generally considers substantial service showings on a case-by-case basis taking into account factors such whether the licensee is offering specialized or technologically sophisticated service that does not require a high level of coverage to be of benefit to customers, and whether the licensee’s operations serve niche markets.

Door County uses the license as part of a state-of-the-art Public Safety radio paging and voice simulcast communications system located in Door County, WI. The system provides paging for Emergency Services personnel, including more than 400 fire fighters and EMS personnel. The system also provides mission critical voice communications for more than 430 fire fighters and EMS personnel as well as up to 50 County Sheriff Deputies. The system also provides critical communications to approximately 25 City and Township police officers within Door County. In summary, the License is used exclusively for Public Safety critical communications to ensure the safety and health of Door County, WI residents and visitors (Door County attracts approximately 2 million visitors per year).

### **B. Coverage**

Door County’s use of the License covers 429,873 persons – 98.3% of the total licensed area population of 436,873 persons. All service coverage calculations were calculated using the Okumura propagation model at RSSI of -110dBm. Actual “as-built” technical parameters for base stations (i.e., coordinates, antenna height, and ERP) were used. Calculations were based upon USGS 3 arc-second terrain data. Population was considered as covered by the software when Door County’s service contour overlapped a 2010 Census population centroid. Population was only counted that was within the area authorized under the License.

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<sup>1</sup> Door County has determined it will no longer need WQUV932 and that license is being allowed to terminate.

<sup>2</sup> 47 C.F.R. § 22.503(k)(3).

<sup>3</sup> *Id.*

A map depicting the coverage from Door County's use of the License is attached hereto.

**C. Technical Information**

The following link budget describes Door County's use of the License. The link budget uses downlink and uplink technical parameters that are representative of Door County's deployed base station sites and subscriber units. The link budget below validates the -110 dBm RSSI coverage area.

**System Parameters and Link Budget Breakdown**

		<u>DOWNLINK</u>	<u>Uplink</u>
<b>Operating Bandwidth</b>	<b>kHz</b>	12.5	12.5
<b>Tx Power</b>	<b>dBm</b>	50	46.5
<b>Tx Loss</b>	<b>dB</b>	6	1.5
<b>Tx Antenna Gain</b>	<b>dBi</b>	6	3
<b>EIRP Out</b>	<b>dBm</b>	50	48
<b>Rx Antenna Gain</b>	<b>dBi</b>	3	6
<b>Rx Feeder Loss</b>	<b>dB</b>	1.5	2.5
<b>Radio Min Required Signal Level (sensitivity)</b>	<b>dBm</b>	-116	-119
<b>Fade Margin for Reliability</b>	<b>dB</b>	6	6
<b>Min Coverage level</b>	<b>dBm</b>	-110	-113
<b>MAPL</b>	<b>dB</b>	161.5	164.5

- Base Station technical specifications for Harris MASTR III.
- Several make/models of mobile, portable, and paging radios are used on the system. Technical specifications reflect typical mobile technical specs (based on Kenwood TK-790 with vehicle mounted antenna). Voice radios use an 11K2F3E emission.
- Base Station transmit loss includes combiner loss (3.5 dB) and line/connector loss (2.5 dB). Combiner is passive element on receive side and not included in uplink receive loss calculation.

**D. Conclusion**

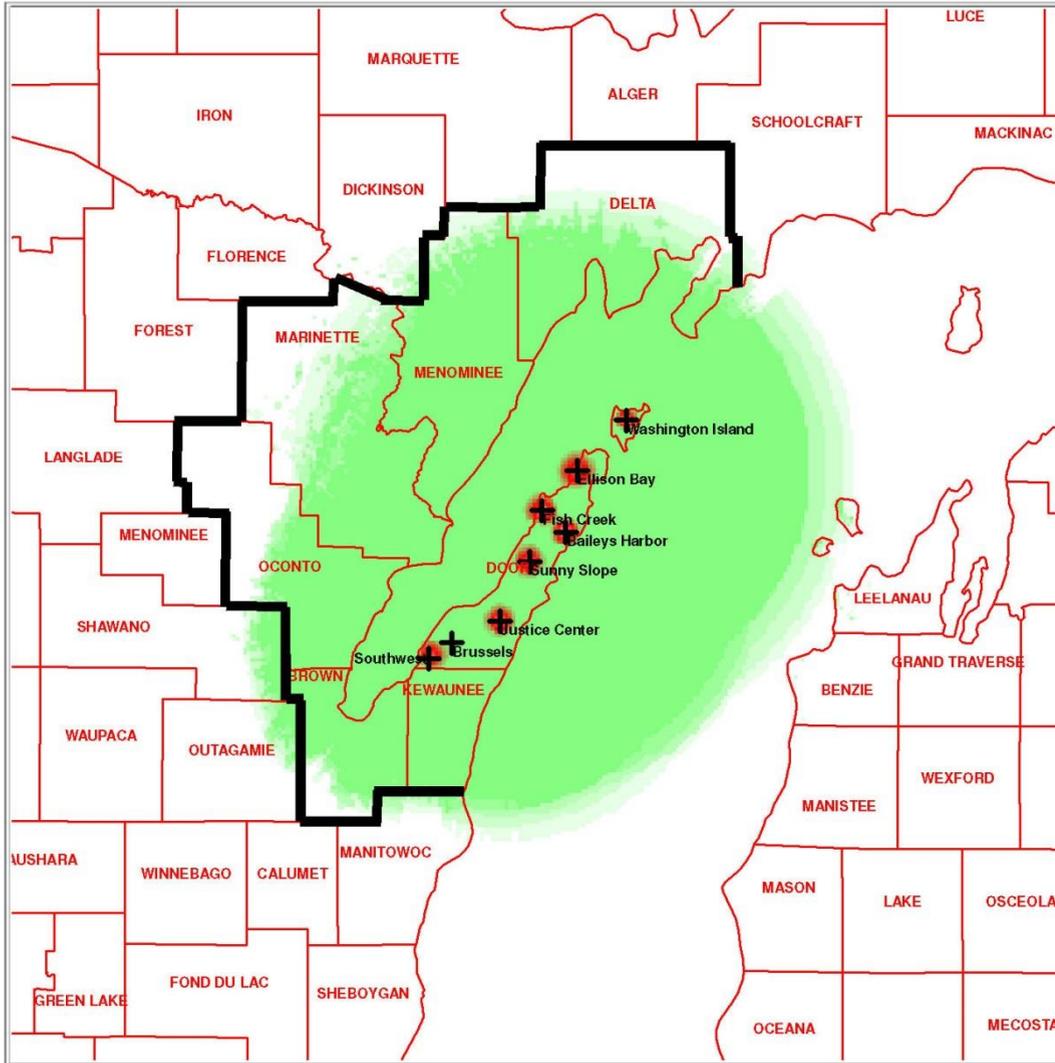
The service provided by Door County is completely sound and favorable and substantially above a level of mediocrity. Door County's use of the License is an indispensable tool for ensuring public safety in the Door County, WI area. Door County has fully complied with the Commission's substantial service requirements for the License.

Should the Commission require additional information, it is asked to contact Greg Kunkle, Keller and Heckman LLP, 1001 G Street NW, Washington, D.C. 20001, 202-434-4178; e-mail: [kunkle@khlaw.com](mailto:kunkle@khlaw.com).

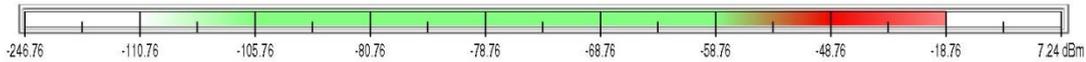
**COVERAGE MAP**

# License WQUV931 Coverage

Door County Part 22 Coverage



RX signal strength -110dBm



Map Scale: 1:1711904 1 cm = 17.12 km VIH Size: 330.37 x 325.31 km

- Coverage Area
- County Lines
- License Boundary

Hi Dan, a gentleman that lives near LaSalle County Park asked that a cell tower be reviewed for building and use near LaSalle Park on county land.

The Facilities & Parks Committee opted to pass this to CATS to ask if there is County need for a cell tower in that part of the county.

#### Meeting minutes

Cell Tower – La Salle County Park CC Thomas reported the request should be referred to the CATS Committee to review to determine if there is any benefit to the County to have a tower in this location. The first question to answer is there a benefit from a technological and/or service point. Motion by Virlee, seconded by Kohout to refer this matter to the CATS Committee. Motion carried by unanimous voice vote.

The Facilities an Parks Dept is indifferent to the idea of tower on Park lands at this point. The initial land acquisition would require research if that is an option if CATS makes a recommendation for a Cell Site.

Wayne J. Spritka

Door County Facilities and Parks Director

421 Nebraska St

Sturgeon Bay, WI 54235

920-746-2211



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Site Reference #: TI-OPP- 17547

**RE: Tillman – Wireless Telecommunications Tower Letter of Interest**

Dear Property Owner,

I am with a company called LCC Telecom Services working as an agent for Tillman Infrastructure. Tillman is interested in possibly leasing a 100' x 100' or similar portion of your property to install a wireless telecommunications tower. The proposed lease will provide a monthly rent for a term of 10 years, with up to (16) automatically renewing terms of 5 years each, with increases in the rent after each term.

If you are interested in leasing to Tillman, please contact me at your earliest convenience to discuss this opportunity at the number or email address below.

Best Regards,

James French  
Senior Project Manager  
LCC Telecom Services  
10700 W. Higgins Rd., Ste. 240  
Rosemont, IL 60018  
Cell: (224) 704-7901  
Office: (847) 608-6300  
Email: [jfrench@lcctelecom.com](mailto:jfrench@lcctelecom.com)