



Administration

Telephone: 701-241-5770

Fax: 701-241-5776

wilsonro@casscountynd.gov

MEMO

TO: County Commission

FROM: Robert W. Wilson

Date: January 30, 2024

Subject: County/RRRDC Objection to Pending Microwave Coordination Application

Brian Zastoupil with Red River Regional Dispatch Center (RRRDC) reached out to me recently about a proposed microwave project, unrelated to RRRDC, that if completed as designed could impact 9-1-1 communications signals.

The project Mr. Zastoupil contacted me about is in the planning and public comment phase, and Brian asked me to co-sign a letter objecting to the proposed project as designed. This is unlike any request I have seen in my time with Cass County. A response was required by January 30, 2024.

I checked with Chair Peterson and we agreed that I would sign and submit the letter as requested and present this as a Consent agenda item for Commission awareness.

I have attached the letter and supporting documentation provided by Mr. Zastoupil.

SUGGESTED MOTION: Retroactively authorize County Administrator and Radio Systems Coordinator to send a letter of objection to Intelpath.



Administration

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January 24, 2024

Company: Intelpath

Dear Sir or Madam,

Regarding Job Code CMS9166C.

Cass County North Dakota (Cass County) and support staff have reviewed this Prior Coordination Notice (PCN).

Based upon review and Comsearch analysis^a, Cass County objects to this PCN.

Respectfully,

A handwritten signature in black ink, appearing to read "Brian Zastoupil", with a long horizontal flourish extending to the right.

Brian Zastoupil
Radio Systems Coordinator

A handwritten signature in blue ink, appearing to read "Robert W. Wilson", with a long horizontal flourish extending to the right.

Robert W. Wilson
Cass County Administrator

^a Comsearch Interference Case Analysis-Appendix

Wilson, Robert

From: Brian Zastoupil <BZastoupil@RRRDC.com>
Sent: Thursday, January 18, 2024 4:36 PM
To: Wilson, Robert
Cc: Kaushagen, Taylor; Amanda Glasoe
Subject: Caas County- Objection Letter
Attachments: CASCNT Cass County of Case.pdf; CMS9166C 2-week PCN Cover Letter.pdf; Cass County ND PCN Objection 1-18-2024.docx

Importance: High

Follow Up Flag: Follow up

Flag Status: Completed

CAUTION: EXTERNAL EMAIL

Robert

Per phone call. I have drafted a letter which concisely states Cass County's objection to the pending microwave coordination application. If language meets your approval, I am asking for this draft to be placed on county letterhead and returned to me. (I will submit objection to licensing coordinator)

I attached the Comsearch report (for reference and which will be included with letter to coordinator)

Lastly, I have attached the coordinator outreach letter (for reference) which notes the required notice period. (By 1/30/2024) IE Justification to expedite drafting a objection/notice.

Please feel free to reach out if you have any questions/concerns. Thanks in advance.

Brian Zastoupil
Radio Systems Coordinator
Red River Regional Dispatch Center
300 NP Avenue Suite 206
Fargo, ND 58102
701 451-7683



Job Code: CMS9166C

Link1: XTower – Remote Unit, MN
Link2: XTower – Remote Unit, MN
Link3: XTower – Remote Unit, MN
Link4: XTower – Remote Unit, MN
Link5: XTower – Remote Unit, MN
Link6: XTower – Remote Unit, MN
Link7: XTower – Remote Unit, MN
Link8: XTower – Remote Unit, MN

Company: X-Tech

Dear Sir or Madam,

Pursuant to Section 101.103(d) of the FCC rules and regulations, please review our Prior Coordination Notice (PCN) for the proposed microwave system referenced above and attached. We have done the Interference Study that indicates that no unacceptable interference will result with existing, proposed, or prior coordinated radio facilities. This PCN is being circulated to the licensees and applicants (or their designated agents) of all existing or proposed terrestrial facilities potentially affected by the proposed system.

We respectfully request that you review this data for its interference potential with your system(s) and send your approval or objection by replying to this letter. If you object to this PCN, it is important that you include the technical details supporting your objection in your response. Coordination was performed on the following dates:

01/16/2024 Original PCN (Expedited response requested by 01/30/2024)
There were no unresolved interference objections.

In case you need to contact me, my phone number is 312-841-9188. Please send all electronic mails to epcn@intelpath.com.

Sincerely,

Frequency Coordinator
Intelpath

ADMINISTRATIVE	INTERFERING PATH		VICTIM PATH	
Licensee	X-Tech		Cass, County of	
Site Names	A) TEMPY LOC	B) TEMPY LOC N	C) FELTON	D) 315 Main Tower
Call Signs			WREP630	WQGY520
PCN Ext Date / RCN	/ --		02/25/2022 / 2202258A	

SITE INFORMATION				
Latitude (NAD 83)	47 02 53.1 N	47 00 54.2 N	47 03 50.0 N	46 52 27.8 N
Longitude (NAD 83)	96 34 39.8 W	96 30 31.6 W	96 35 10.2 W	96 47 03.8 W
Ground Elevation	0.0 m / 0.0 ft	0.0 m / 0.0 ft	274.299 m / 899.93 ft	275.6 m / 904.2 ft
Path Length	6.40 km / 3.98 mi		25.91 km / 16.10 mi	

ANTENNA INFORMATION		
Manufacturer	OMNI	RFS
Model / Diameter	OMNI / 0.0 ft	PAD6-59B / 6.0 ft
Gain	24.4 dBi	38.7 dBi
Centerline	6.1 m / 20.01 ft	40.538 m / 133.0 ft
Type	Primary	Primary

RADIO INFORMATION		
Manufacturer	ALL MANUFACTURERS	Aviat Networks, Inc.
Model	AFC 80 MHz	I6V4EHL6-30M 128Q 155 R70
Modulation / Data Rate	1024 QAM / 100.00 Mbps	128 QAM / 155.00 Mbps
Emission	80M0D7W	30M0D7W
Tx Power	27.00 dBm	Threshold = -73.75 dBm
Loss	0.00 dB (Tx + Common)	1.50 dB (Rx + Common)
Receive Signal Level	RX _B = -48.64 dBm	RX _D = -28.18 dBm

TRANSMIT FREQUENCIES (MHz)				
	5965.0000B	6045.0000B	6125.0000B	6063.8000V
	6205.0000B	6285.0000B	6365.0000B	
	6385.0000B			

INTERFERENCE CALCULATIONS					
Interfering Path Distance	24.91 km / 15.48 mi	Far Field Distance	0.14 km / 0.09 mi	Free Space Loss	136.19 dB
Azimuth	219.24°			Atmospheric Loss	0.24 dB

Antenna Model	Azimuth	Discrimination Angle	VV	VH	HH	HV
Site A: OMNI	124.99°	94.25°	0.00	0.00	0.00	0.00
Site D: PAD6-59B	35.53°	3.64°	20.46	35.46	20.46	35.46
Azimuth Difference	89.46°	Total Discrimination (dB)	20.46	20.46	20.46	20.46
Interference Level (Clear Air)		Terrain Loss (dB)	-68.29	-68.29	-68.29	-68.29
Long Term (20%)			-68.29	-68.29	-68.29	-68.29
Short Term (0.01%)			-68.29	-68.29	-68.29	-68.29

Summary				Margin to Objective (dB)			
Separation (MHz)	T/I (dB)	Long Term Obj (dBm)	Short Term Obj (dBm)	VV	VH	HH	HV
18.80	23.74	-97.49	-82.49	-29.20			-29.20