

RAVEN RADIO
KCAW • 104.7 FM

August 15, 2022

Federal Communications Commission
Enforcement Bureau
Spectrum Enforcement Division
45 L Street NE
Washington DC 20554

To Whom It May Concern,

I am writing to you today to certify that KCAW-FM, licensed to the Raven Radio Foundation, Inc., is operating within our licensed parameters for Frequency 104.7 RF, Channel 284, Facility ID 55213, in accordance with 47 CFR 74.1203(a)(3)(iii).

Additionally, KCAW-FM has used commercially reasonable efforts to inform the relevant translator licensee of the claimed interference and attempted private resolution, in accordance with 47 CFR 74.1203(a)(3)(iv). Please find copies of said correspondence attached.

Again, thank you for your consideration in this matter,

Respectfully,

Becky Meiers
General Manager
KCAW-FM Sitka
The Raven Radio Foundation, Inc.



Becky Meiers <generalmanager@kcaw.org>

[KCAW] Interference Report from Sitka

22 messages

Becky Meiers <generalmanager@kcaw.org>

Thu, Jan 27, 2022 at 3:52 PM

Reply-To: becky@kcaw.org

To: Frontier Media USA Richard Burns <richard@frontiermediausa.com>

Hello Richard! Thanks for chatting with me just now.

I'm writing to follow up with you, as you requested. I've gotten 10 complaints now from KCAW listeners on 104.7 FM that the K272FV channel (102.3 FM) is interfering with ours. Some have experienced the interference in their homes, in their cars, or both. I've investigated the issue over the past few days, and can verify that the interference occurs over 800' up and down Lake Street in Sitka. When I listen for the legal ID, it's definitely the translator ID that I hear.

I think KIFW (and it's FM translator) are an important part of Sitka's radio ecosystem, and I'm hoping that notifying you of the issue will result in a prompt response! As you may know, the FCC rules are clear on FM translator interference (FCC 74.1203). I'd love to hear your plans on how to mitigate the interference so I can share them with the folks who've reached out to me.

On behalf of the impacted listeners of KCAW, I appreciate your help with this! My contact information is in my signature line - feel free to connect with me at any time.



Becky Meiers - KL4YY, SBE CRO #71666

General Manager, **KCAW Raven Radio**

(907) 747-5877 (o)

(971) 300-6168 (c)

becky@kcaw.org

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Richard Burns <richard@frontiermediausa.com>

Thu, Jan 27, 2022 at 4:07 PM

To: "becky@kcaw.org" <becky@kcaw.org>

Hi Becky, we are looking into this now with our engineer and consulting engineers and Hatfield Dawson our RF planning engineers. We are going to investigate and we don't want to interfere with KCAW for sure. As you know close proximity to RF sources can overload receivers front ends depending on the receivers quality. The question here is one of 'deviation' I suspect. Is that correct?

[Quoted text hidden]

Becky Meiers <generalmanager@kcaw.org>

Thu, Jan 27, 2022 at 4:20 PM

Reply-To: becky@kcaw.org

To: Richard Burns <richard@frontiermediausa.com>

Richard, thank you so much for looking into this. I know Ben Dawson from my time at KBOO - let them know I say "hi!"

Without knowing your broadcast chain and the individual components for K272FV, the best I can do is speculate. What I can say is that, with regard to translators and LP licenses, that the full-service station of KCAW, operating within approved parameters (as it is), is the signal that requires protection in our service area. As a result, there aren't any cases (that I know of) that permit K272FV's 'blanketing' effect on Lake Street - and definitely not to the extent being reported.

There are certainly options to address the interference, and I'll be curious to hear what you find out!

[Quoted text hidden]

[Quoted text hidden]

Richard Burns <richard@frontiermediausa.com>
To: "becky@kcaw.org" <becky@kcaw.org>

Sat, Jan 29, 2022 at 6:51 AM

Hi Becky, just circling back to you. We have had a bunch of things happening yesterday looking into the matter. We can only duplicate the issue in our parking lot. We have corrected a faulty processor which was over modulating but we are actively investigating. Could you please tell us who your engineering person is? Is it Rich in Juneau?

Thanks Richard

[Quoted text hidden]

Becky Meiers <generalmanager@kcaw.org>
Reply-To: becky@kcaw.org
To: Richard Burns <richard@frontiermediausa.com>

Mon, Jan 31, 2022 at 9:37 AM

Hey there, Richard. Thanks for the note! Strange about not being able to duplicate the issue - I got a ride with a friend this weekend, and we pretty easily duplicated the interference in her car. And I know a few folks across the street who are getting the interference on a constant basis (they listen to FM frequently in their home.) It sounds like it's still a problem.

And you're correct, we work with the CoastAlaska Director of Engineering, Rich Parker. Do you want me to connect you with him?

[Quoted text hidden]

[Quoted text hidden]

Richard Burns <richard@frontiermediausa.com>
To: "becky@kcaw.org" <becky@kcaw.org>

Mon, Jan 31, 2022 at 9:40 AM

Hi Becky, we could duplicate in the station parking lot...but not beyond that. Yes please connect me with Rich so we can get this resolved.

[Quoted text hidden]

Becky Meiers <generalmanager@kcaw.org>
Reply-To: becky@kcaw.org
To: Richard Burns <richard@frontiermediausa.com>

Mon, Jan 31, 2022 at 9:48 AM

Hey Richard. You can connect with Rich by email: richp@coastalaska.org. He's not in Sitka, however. Do you have plans to send an engineer to town?

[Quoted text hidden]

[Quoted text hidden]

Becky Meiers <generalmanager@kcaw.org>
Reply-To: becky@kcaw.org
To: CoastAlaska Support Engineers <case@coastalaska.org>

Mon, Jan 31, 2022 at 9:57 AM

Hey folks - just an FYI. I've had numerous complaints from listeners that there is interference on 104.7 FM when they drive by KIFW. I believe it's because their FM translator on 102.3 FM is bleeding into our channel (which I've confirmed by listening to the station ID.) I've also documented the interference (<https://drive.google.com/file/d/1la94HtdgQ2gLgrdGQmmCkJ4dloyLzdl/view?usp=sharing>) and am filing complaints with the FCC.

Let me know if you have any questions!

Becky Meiers - KL4YY, SBE CRO #71666
General Manager, **KCAW Raven Radio**
(907) 747-5877 (o)
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becky@kcaw.org

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----- Forwarded message -----

From: **Becky Meiers** <generalmanager@kcaw.org>

Date: Thu, Jan 27, 2022 at 3:52 PM

Subject: [KCAW] Interference Report from Sitka

[Quoted text hidden]

[Quoted text hidden]

Richard Burns <richard@frontiermediausa.com>
To: "becky@kcaw.org" <becky@kcaw.org>

Mon, Jan 31, 2022 at 9:54 AM

Hi yes we do. Right now he has covid...so....

[Quoted text hidden]

Becky Meiers <generalmanager@kcaw.org>
Reply-To: becky@kcaw.org
To: Richard Burns <richard@frontiermediausa.com>

Mon, Jan 31, 2022 at 9:59 AM

Yikes! I hope his case is mild and that he feels better soon!

[Quoted text hidden]

[Quoted text hidden]

Richard Burns <richard@frontiermediausa.com>
To: "becky@kcaw.org" <becky@kcaw.org>

Mon, Jan 31, 2022 at 10:04 AM

Thanks! I'll reach out to Rich and let you know what happens.

[Quoted text hidden]

Rich Parker <richp@coastalaska.org>
To: CoastAlaska Support Engineers <case@coastalaska.org>, Becky Meiers <becky@kcaw.org>

Mon, Jan 31, 2022 at 2:51 PM

First thing I would do is contact them and let them know there is a problem.

No point in contacting the FCC - only listeners can do that - and you can't 'encourage' them to do that 'over the air' ;)

Also, their engineer is out for about 3 weeks, but it wouldn't hurt to let them know of the problem,

Thanks,

Rich Parker
Director of Engineering
CoastAlaska, Inc.
360 Egan Drive
Juneau, AK 99801
(907) 463-6495 (Office)
(907) 209-9620 (Cell or SMS)

From: Becky Meiers <generalmanager@kcaw.org>
Sent: Monday, January 31, 2022 9:57 AM
To: CoastAlaska Support Engineers
Subject: Fwd: [KCAW] Interference Report from Sitka

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On behalf of the impacted listeners of KCAW, I appreciate your help with this! My contact information is in my signature line - feel free to connect with me at any time.

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Becky Meiers <generalmanager@kcaw.org>

Mon, Jan 31, 2022 at 2:58 PM

Reply-To: becky@kcaw.org

To: Rich Parker <richp@coastalaska.org>

Cc: CoastAlaska Support Engineers <case@coastalaska.org>

Heya Rich! I've been in communication with Richard (I'd sent the threaded email on Friday, and had talked to both him and Ken Smith at KIFW on the phone.) And there's no need for me to encourage listeners to complain - they've been in touch with me. I think we're up to 9 complaints now.



Becky Meiers - KL4YY, SBE CRO #71666

General Manager, **KCAW Raven Radio**

(907) 747-5877 (o)

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becky@kcaw.org

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[Quoted text hidden]

Steve Hamlin <steve@coastalaska.org>

Mon, Jan 31, 2022 at 3:41 PM

To: Rich Parker <richp@coastalaska.org>, Becky Meiers <becky@kcaw.org>

Cc: CoastAlaska Support Engineers <case@coastalaska.org>

My two cents,

The burdens of proof and remedy are on the interfering station and they are required to go off the air until they can broadcast without interfering. Not the AM main transmitter but the FM translator needs to be shut off. When they are ready to turn it back on they need to coordinate with you ahead of time and if there is any interference they immediately need to shut it back off. These are the same rules that apply to all of your translators. There shouldn't even be any bad feelings it's just the nature of the business.

Steve.

[Quoted text hidden]

Rich Parker <richp@coastalaska.org>

Mon, Jan 31, 2022 at 3:51 PM

To: Steve Hamlin <steve@coastalaska.org>, Becky Meiers <becky@kcaw.org>

Cc: CoastAlaska Support Engineers <case@coastalaska.org>

Steve is technically correct - and I haven't followed the thread with Richard and others, but if I can help by talking to either one of them I am happy to do so.

Also, what I meant about 'contacting the FCC' - they are rarely interested about hearing from stations and will not act. However, if those 9 people do contact the FCC and express their concerns about interference, that carries a lot more weight - it is how the system 'works' if you will.

Rich Parker
Director of Engineering
CoastAlaska, Inc.
360 Egan Drive
Juneau, AK 99801
(907) 463-6495 (Office)
(907) 209-9620 (Cell or SMS)

From: Steve Hamlin <steve@coastalaska.org>
Sent: Monday, January 31, 2022 3:41 PM
To: Rich Parker; Becky Meiers
Cc: CoastAlaska Support Engineers
Subject: Re: [KCAW] Interference Report from Sitka

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Steve.

On Jan 31, 2022, 15:59 -0800, Becky Meiers <generalmanager@kcaw.org>, wrote:

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On Mon, Jan 31, 2022 at 2:51 PM Rich Parker <richp@coastalaska.org><<mailto:richp@coastalaska.org>>> wrote:

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Thanks,

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From: Becky Meiers <generalmanager@kcaw.org<<mailto:generalmanager@kcaw.org>>>
Sent: Monday, January 31, 2022 9:57 AM
To: CoastAlaska Support Engineers
Subject: Fwd: [KCAW] Interference Report from Sitka

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Let me know if you have any questions!

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Becky Meiers - KL4YY, SBE CRO #71666

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Date: Thu, Jan 27, 2022 at 3:52 PM
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To: Frontier Media USA Richard Burns <richard@frontiermediausa.com<<mailto:richard@frontiermediausa.com>><<mailto:richard@frontiermediausa.com>>>>

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line - feel free to connect with me at any time.

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Rich Parker <richp@coastalaska.org>
To: Becky Meiers <becky@kcaw.org>

Mon, Jan 31, 2022 at 3:54 PM

Hi Becky - I've looked all through my mail and I'm not seeing anywhere I was copied on any conversations with Richard or others about the interference.

Also, when did it start?

Thanks,

Rich Parker
Director of Engineering
CoastAlaska, Inc.
360 Egan Drive
Juneau, AK 99801
(907) 463-6495 (Office)
(907) 209-9620 (Cell or SMS)

From: Rich Parker <richp@coastalaska.org>
Sent: Monday, January 31, 2022 3:51 PM
To: Steve Hamlin; Becky Meiers
[Quoted text hidden]

Becky Meiers <generalmanager@kcaw.org>
Reply-To: becky@kcaw.org
To: Rich Parker <RichP@coastalaska.org>

Mon, Jan 31, 2022 at 4:00 PM

Here's the full thread from Richard at Frontier Media.

Becky Meiers - KL4YY, SBE CRO #71666
General Manager, **KCAW Raven Radio**
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becky@kcaw.org

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[Quoted text hidden]

Becky Meiers <generalmanager@kcaw.org>
Reply-To: becky@kcaw.org
To: Rich Parker <richp@coastalaska.org>

Mon, Jan 31, 2022 at 4:04 PM

Hey there, Rich! So, according to the reports, the interference started between 6-8 weeks ago. I've walked and have been driven by where folks are reporting the interference, and can confirm it (I linked you to a video of it, but here's the link again <https://drive.google.com/file/d/1la94HtdgQ2gLrgrdGQmmCkJ4dloyLzdl/view?usp=sharing>.) I've gone by a few times now, and really carefully listened for the call sign - and so can confirm it's the KIFW translator interfering on KCAW.



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[Quoted text hidden]

Steve Hamlin <steve@coastalaska.org>
To: Becky Meiers <becky@kcaw.org>, Rich Parker <richp@coastalaska.org>
Cc: CoastAlaska Support Engineers <case@coastalaska.org>

Mon, Jan 31, 2022 at 4:11 PM

Concur, Rich. A gentle reminder to shut their transmitter off while they figure out the problem should do the trick. If not, then onto the FCC. The rules are set up so the listeners do not have to suffer the interference for even a short period of time. They ought to be able to continue to listen to the stations that they could hear before the interference happened.

Might not be able to use your airwaves to ask, but you could personally invite folks to say something like, "it was working just fine and I heard it without any problems until such and such a date and then I started hearing name of station interfering with it".

Steve.

[Quoted text hidden]

Rich Parker <richp@coastalaska.org>
To: Steve Hamlin <steve@coastalaska.org>, Becky Meiers <becky@kcaw.org>
Cc: CoastAlaska Support Engineers <case@coastalaska.org>

Mon, Jan 31, 2022 at 4:26 PM

Richard Burns just reached out to me about this - I'll talk to him a bit about what I understand about the possibility of Intermod and how they might be able to fix things. (trying to keep it cordial for now).

He did indicate that they had some overmod issues, which they corrected on Saturday, so I'll make sure we are all in the loop on this.

Thanks,

Rich Parker
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From: Steve Hamlin <steve@coastalaska.org>
Sent: Monday, January 31, 2022 4:11 PM
To: Becky Meiers; Rich Parker
[Quoted text hidden]

Rich Parker <richp@coastalaska.org>
To: Becky Meiers <becky@kcaw.org>

Tue, Feb 1, 2022 at 11:54 AM

Thanks - I did watch the video - I see now that there are a lot of houses close to the station, which are within the area defined as 'blanketing interference'.

One quick note, the 'rules' to not apply to 'mobile devices' so you'll probably want to get cooperation from folks 'in the area' to record problems 'on their home radios' to make a better case.

The broadcaster much make good faith efforts to resolve these cases - (when I was in VT we actually had to pay for cable for someone to get their desired stations next to our tower when we couldn't resolve the issue technically).

Here are some appropriate links

<https://www.broadcastlawblog.com/2008/02/articles/fcc-cases-on-blanketing-interference-the-responsibility-of-broadcasters-to-their-neighbors/>

Also, timing is a bit critical (i.e. 1 year)

<https://www.law.cornell.edu/cfr/text/47/73.318>

and here's something good from Pete's group -

https://www.prometheusradio.org/sites/default/files/transmission_toolkit.pdf

However, the FCC rules are quite clear that it is the other broadcaster's responsibility to correct interference - either blanketing or intermod.

Here are some hopefully helpful links on the updated 'process' (2019)

<https://www.fcc.gov/document/fcc-improves-interference-resolution-process-fm-translators-0>

In addition, here's an article about the process - note that it may be still difficult since the number of complaints is weighed against the total population covered - which is why to some extent the blanketing issue can have good results for those close to the tower.

<https://www.radioworld.com/news-and-business/business-and-law/fcc-finalizes-fm-translator-interference-rules>

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Becky Meiers <generalmanager@kcaw.org>

Fw: KCAW

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To: Becky Meiers <becky@kcaw.org>

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From: Rich Parker <richp@coastalaska.org>
Sent: Monday, January 31, 2022 4:50 PM
To: Richard Burns
Cc: Mollie Kabler
Subject: Re: KCAW

Hi Richard,

Here is a quick chart I ran, showing that the mixing of the two signals lands right on KCAW 104.7.

[cid:f21d1e8a-2e1d-4fcb-9bb5-48277f440e1f]

When we had this issue in Juneau, (105.1Mhz + 630khz > 104.377Mhz) I think maybe Paul J was able to replace some cables or add shielding (or both) to the FM Exciter to resolve the issue. He might remember what they had to do.

Not sure when/if I could get to Sitka myself but it sounds like this is the problem - perhaps KIFW can try shutting off the translator to confirm that this is the mixing that folks are hearing on top of 104.7?

Thanks,

Rich Parker
Director of Engineering
CoastAlaska, Inc.
360 Egan Drive
Juneau, AK 99801
(907) 463-6495 (Office)
(907) 209-9620 (Cell or SMS)

From: Rich Parker <richp@coastalaska.org>
Sent: Monday, January 31, 2022 4:24 PM
To: Richard Burns
Cc: Mollie Kabler
Subject: Re: KCAW

Hi Richard -

Yes, I did hear today from Becky. Often times it isn't an issue so much with power as with some kind of intermodulation (as you may recall, I've worked with your engineer in the past on issues with KTOO 104.3 being interfered with by intermod of 630AM and 105.1FM landing right on 104.5). I think there was some cabling/grounding issues that was allowing the AM to 'get into' the FM exciter, and then mixing.

Also, I just spoke to your Juneau 'temp' engineer and he asked me if I'd be willing to be 'on call' for emergencies while he is down south in February, and I did tell him to let Dano (and you) know that while I have some limitations on when I can respond, I'm happy to be available to help in an emergency. (I live in North Douglas)

I will probably be in Petersburg the week of Feb. 14th but otherwise in Juneau.
CC'ing my boss in Sitka (Mollie Kabler) so she is in the loop on this.

My wife works out in the Valley (at LOVE, I.N.C. - I think she and Guy have been on your morning show before) and I pass by the station when I take her into work, so I'm happy to stop in, if you like, to discuss some options for Sitka.

Thanks,

Rich Parker
Director of Engineering
CoastAlaska, Inc.
360 Egan Drive
Juneau, AK 99801
(907) 463-6495 (Office)
(907) 209-9620 (Cell or SMS)

From: Richard Burns <richard@frontiermediausa.com>
Sent: Monday, January 31, 2022 4:01 PM
To: Rich Parker
Subject: KCAW

Hi Rich, we got a call from Becky at KCAW about some interference from KIFW's lower power FM translator K272FV <<https://radio-locator.com/cgi-bin/url?call=K272FV&service=FX>> on 102.3. The station is at 250 watts and Becky tell us that she has interference reports with 102.3 bleeding over KCAW around the station. We have been unable to duplicate the problem and our manager there as video taken outside the station where KCAW can clearly be heard. There is understandably interference when he is within 50 ft of the tower. We did correct an over modulation issue on Saturday but thought I'd reach out to you. KCAW and our translator are so far apart frequency wise and KCAW has so much more power.

We want to do whatever we can to help get this resolved.

Thanks
Richard

The screenshot shows a web-based "RF Intermodulation Calculator (RF Intermodulation Form)". It has several input fields for frequencies, including "Intermodulator (1) (MHz)", "Intermodulator (2) (MHz)", "Intermodulator (3) (MHz)", and "Intermodulator (4) (MHz)". There are also fields for "Carrier Frequency (MHz)" and "Power (dBm)". A "CALCULATE" button is visible. A red warning box is overlaid on the form, containing the text: "The carrier frequency of 102.3 MHz and 102.3 FM translator lands right on 104.3 FM KCAW, probably due to some leakage or lack of shielding between the AM and the FM Exciter." Below the warning box, there is a field for "KCAW 104.3 MHz FM".

image.png
78K

RF Intermodulation Calculator | RF Intermodulation formula,equation

This page covers RF Intermodulation calculator. The formula/equation for this RF Intermodulation calculator is also mentioned. It is also called as RF IMD calculator.

The calculator calculates IMD (Intermodulation) products based on two fundamental frequencies. In the same way IMD products can be found for more than two frequency inputs. It calculates only 2nd and 3rd order IMD products only as these are the one which are near to the fundamental input frequencies and will have higher power.

Input frequency#1 (F1) (MHz) (input#1) :

1230Khz AM

Input frequency#2 (F2) (MHz) (input#2) :

102.3Mhz FM

CALCULATE

*Note: Keep F2 greater than F1 in this RF IMD calculator.

2nd Order IMD product#1 (Output) :

2nd Order IMD product#2 (Output) :

2nd Order IMD product#3 (Output) :

2nd Order IMD product#4 (Output) :

3rd Order IMD product#1 (Output) :

3rd order harmonic mix of
KIFW 1230AM and
102.3FM translator lands
right on 104.7FM KCAW,
probably due to some
leakage or lack of shielding
between the AM and the FM
Exciter

KCAW 104.7Mhz FM

3rd Order IMD product#2 (Output) :

3rd Order IMD product#3 (Output) :

KCAW

11 messages

Richard Burns <richard@frontiermediausa.com>
To: Rich Parker <richp@coastalaska.org>, "becky@kcaw.org" <becky@kcaw.org>

Thu, Feb 3, 2022 at 1:16 PM

Hi Becky/Rich, we have made a number of adjustments based on our engineering consultants advice. We can't duplicate the issue even in are parking lot. I wonder if you can tell us if you're still experiencing the problem?

Thanks

Richard

Becky Meiers <generalmanager@kcaw.org>
Reply-To: becky@kcaw.org
To: Richard Burns <richard@frontiermediausa.com>
Cc: Rich Parker <richp@coastalaska.org>

Thu, Feb 3, 2022 at 1:21 PM

I'll go out with my handheld tomorrow to check/take a video for you. I've been by a few times, in different vehicles, and have heard it as recently as yesterday. But I'll go out again tomorrow.



Becky Meiers - KL4YY, SBE CRO #71666

General Manager, **KCAW Raven Radio**

(907) 747-5877 (o)

(971) 300-6168 (c)

becky@kcaw.org

Visit our website kcaw.org | Like us on [Facebook](#) | Follow us on [Instagram](#)

[Quoted text hidden]

Richard Burns <richard@frontiermediausa.com>
To: "becky@kcaw.org" <becky@kcaw.org>
Cc: Rich Parker <richp@coastalaska.org>

Thu, Feb 3, 2022 at 1:44 PM

Ok...where exactly are you hearing it?

[Quoted text hidden]

Becky Meiers <generalmanager@kcaw.org>
Reply-To: becky@kcaw.org
To: Richard Burns <richard@frontiermediausa.com>
Cc: Rich Parker <richp@coastalaska.org>

Fri, Feb 4, 2022 at 10:21 AM

On the street (where cars drive, normally headed in the direction of the high school,) and on the sidewalk.

[Quoted text hidden]

[Quoted text hidden]

Richard Burns <richard@frontiermediausa.com>
To: "becky@kcaw.org" <becky@kcaw.org>
Cc: Rich Parker <richp@coastalaska.org>

Fri, Feb 4, 2022 at 10:58 AM

Ok..I'll have our people check also and what for you to circle back. Thanks

[Quoted text hidden]

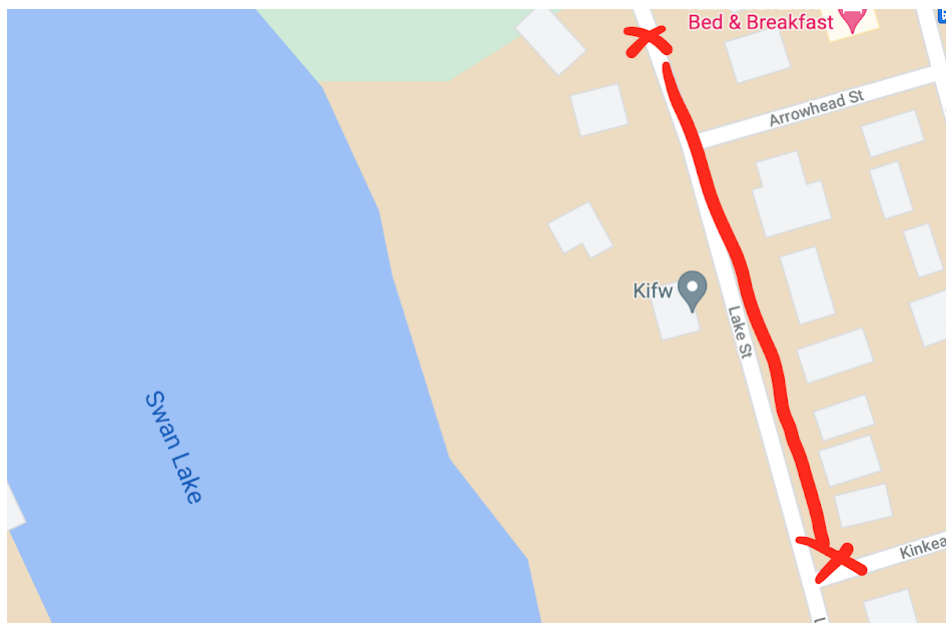
Becky Meiers <generalmanager@kcaw.org>
Reply-To: becky@kcaw.org
To: Richard Burns <richard@frontiermediausa.com>
Cc: Rich Parker <richp@coastalaska.org>

Mon, Feb 7, 2022 at 5:31 PM

Hello again! Thanks for being patient - Friday got away from me.

I just took a walk this afternoon to check the interference, and here's a video of it: <https://drive.google.com/file/d/1NBxb6rf2UZrgMiSdTid5mixt-tl7ytNk/view?usp=sharing>

This is the route I walked, the red 'X'es and lines indicate where I heard interference. I used a super cheapo Baofeng transceiver:



I also checked in the KIFW parking lot. It's definitely replicable there. I'm getting more people complaining about the interference, too. I'd like to know what your plan and timeline is to remedy this issue, please.

[Quoted text hidden]

[Quoted text hidden]

Becky Meiers <generalmanager@kcaw.org>
Reply-To: becky@kcaw.org
To: Richard Burns <richard@frontiermediausa.com>
Cc: Rich Parker <richp@coastalaska.org>

Mon, Feb 7, 2022 at 5:34 PM

Sorry, clarification: the red 'X'es indicate where I *started* to hear the interference. The interference is very obvious the whole length of the red line.

[Quoted text hidden]

[Quoted text hidden]

Richard Burns <richard@frontiermediausa.com>
To: "becky@kcaw.org" <becky@kcaw.org>
Cc: Rich Parker <richp@coastalaska.org>

Tue, Feb 8, 2022 at 6:18 AM

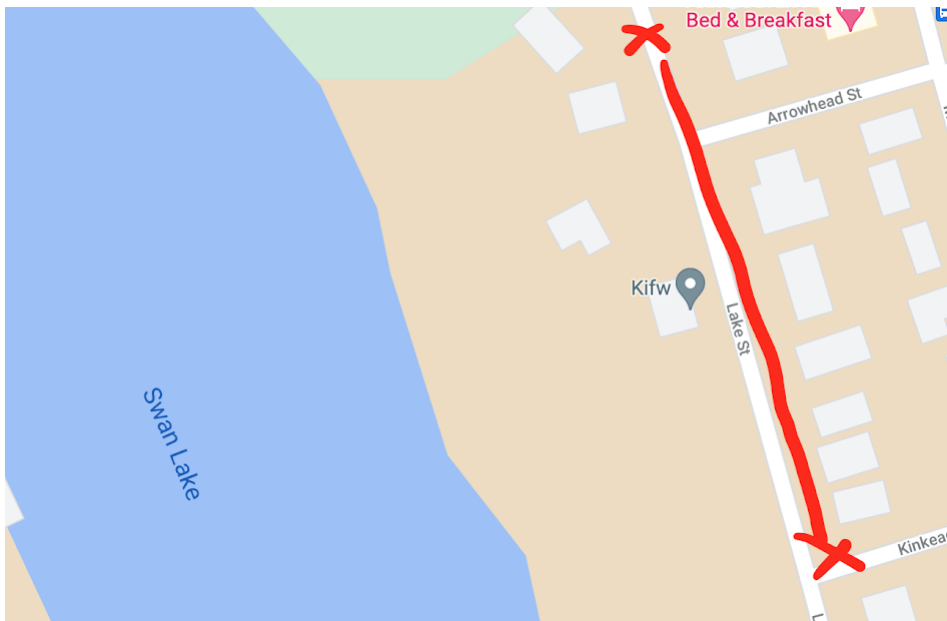
Hi Becky, thanks for getting back to me on this. We are working on it as fast as possible. I have a call with Hat Daw on this again today. I am not an engineer but it seems to me that it is perhaps not an equipment fault for failure but rather intermod which would require us to seek FCC approval for a freq change. I'll know more after I have spoke with Hat Daw and will circle back. Rich, one thing ...I know at the old Prospector (Ramada) I cant get KTKU (105.1) in inside the hotel ..because of KTOO. Is this situation with KCAW similar?

From: Becky Meiers <generalmanager@kcaw.org>
Sent: Monday, February 7, 2022 8:31 PM
To: Richard Burns <richard@frontiermediausa.com>
Cc: Rich Parker <richp@coastalaska.org>
Subject: Re: KCAW

Hello again! Thanks for being patient - Friday got away from me.

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[Quoted text hidden]
[Quoted text hidden]

Becky Meiers <generalmanager@kcaw.org>
Reply-To: becky@kcaw.org
To: Richard Burns <richard@frontiermediausa.com>
Cc: Rich Parker <richp@coastalaska.org>

Tue, Feb 8, 2022 at 10:24 AM

Cool, thank you for the update. Let me know what you come up with. If your mitigation plan will take more than 2 weeks to execute, I'd like us to explore turning off that transmitter until the work can be done.

[Quoted text hidden]

[Quoted text hidden]

Richard Burns <richard@frontiermediausa.com>
To: "becky@kcaw.org" <becky@kcaw.org>
Cc: Rich Parker <richp@coastalaska.org>

Tue, Feb 8, 2022 at 12:29 PM

Had two calls with Hat Daw today. I have just ordered a new isocoupler from Phasetek. Hat Daw are confident this will rectify the problem. It's a case of 1230 getting into the 102.3 transmission and creating that intermod.

I have given Phasetek the approval to put a rush on it and they are commencing construction tomorrow. I'll get a better handle on the time line early next week.

Thanks for your patience.

Richard

[Quoted text hidden]

Rich Parker <richp@coastalaska.org>
To: Richard Burns <richard@frontiermediausa.com>, Becky Meiers <becky@kcaw.org>

Tue, Feb 8, 2022 at 1:50 PM

Thanks Richard!
The folks at Hat Daw are great - glad they put you on the right track!

Rich Parker
Director of Engineering
CoastAlaska, Inc.
360 Egan Drive
Juneau, AK 99801
(907) 463-6495 (Office)
(907) 209-9620 (Cell or SMS)

From: Richard Burns <richard@frontiermediausa.com>
Sent: Tuesday, February 8, 2022 12:29 PM
To: Becky Meiers
Cc: Rich Parker
Subject: RE: KCAW

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[https://lh4.googleusercontent.com/wx5f4bT0_allQt7b2HDh2VOelMCbcuMFI3gGHPV_kGY3VQzspYbFnpQDaYhUPt5NowM46zDWPdnUtNefjDKHkGsaWrJfwQhtm7ABQqf7DDLwWbZnml_fEc0MwW3RVpEdK9wPuT0c]

Becky Meiers - KL4YY, SBE CRO #71666

General Manager, KCAW Raven Radio

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becky@kcaw.org<<mailto:becky@kcaw.org>>

Visit our website kcaw.org<<http://kcaw.org>> | Like us on Facebook<<https://www.facebook.com/RavenRadio>> | Follow us on Instagram<<https://www.instagram.com/kcawradio/>>

On Tue, Feb 8, 2022 at 6:18 AM Richard Burns <richard@frontiermediausa.com<<mailto:richard@frontiermediausa.com>>> wrote:

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From: Becky Meiers <generalmanager@kcaw.org<<mailto:generalmanager@kcaw.org>>>

Sent: Monday, February 7, 2022 8:31 PM

To: Richard Burns <richard@frontiermediausa.com<<mailto:richard@frontiermediausa.com>>>

Cc: Rich Parker <richp@coastalaska.org<<mailto:richp@coastalaska.org>>>

Subject: Re: KCAW

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This is the route I walked, the red 'X'es and lines indicate where I heard interference. I used a super cheapo Baofeng transceiver:

[cid:image001.png@01D81D00.9BE96780]

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Becky Meiers - KL4YY, SBE CRO #71666

General Manager, KCAW Raven Radio

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becky@kcaw.org<mailto:becky@kcaw.org>

Visit our website kcaw.org<http://kcaw.org/> | Like us on Facebook<<https://www.facebook.com/RavenRadio>> | Follow us on Instagram<<https://www.instagram.com/kcawradio/>>

On Fri, Feb 4, 2022 at 10:58 AM Richard Burns <richard@frontiermediausa.com<mailto:richard@frontiermediausa.com>> wrote:

Ok..I'll have our people check also and what for you to circle back. Thanks

From: Becky Meiers <generalmanager@kcaw.org<mailto:generalmanager@kcaw.org>>
Sent: Friday, February 4, 2022 1:22 PM
To: Richard Burns <richard@frontiermediausa.com<mailto:richard@frontiermediausa.com>>
Cc: Rich Parker <richp@coastalaska.org<mailto:richp@coastalaska.org>>
Subject: Re: KCAW

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[https://lh4.googleusercontent.com/wx5f4bT0_allQt7b2HDh2VOelMCbcuMFI3gGHPV_kGY3VQzspYbFnpQDaYhUPt5NowM46zDWPdnUtNefjDKHkGsaWrJfwQhtm7ABQqf7DDLwWbZnml_fEc0MwW3RVpEdK9wPuT0c]

Becky Meiers - KL4YY, SBE CRO #71666

General Manager, KCAW Raven Radio

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becky@kcaw.org<mailto:becky@kcaw.org>

Visit our website kcaw.org<http://kcaw.org/> | Like us on Facebook<<https://www.facebook.com/RavenRadio>> | Follow us on Instagram<<https://www.instagram.com/kcawradio/>>

On Thu, Feb 3, 2022 at 1:44 PM Richard Burns <richard@frontiermediausa.com<mailto:richard@frontiermediausa.com>> wrote:

Ok...where exactly are you hearing it?

From: Becky Meiers <generalmanager@kcaw.org<mailto:generalmanager@kcaw.org>>
Sent: Thursday, February 3, 2022 4:21 PM
To: Richard Burns <richard@frontiermediausa.com<mailto:richard@frontiermediausa.com>>
Cc: Rich Parker <richp@coastalaska.org<mailto:richp@coastalaska.org>>
Subject: Re: KCAW

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[https://lh4.googleusercontent.com/wx5f4bT0_allQt7b2HDh2VOelMCbcuMFI3gGHPV_kGY3VQzspYbFnpQDaYhUPt5NowM46zDWPdnUtNefjDKHkGsaWrJfwQhtm7ABQqf7DDLwWbZnml_fEc0MwW3RVpEdK9wPuT0c]

Becky Meiers - KL4YY, SBE CRO #71666

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becky@kcaw.org<mailto:becky@kcaw.org>

Visit our website kcaw.org<http://kcaw.org/> | Like us on Facebook<<https://www.facebook.com/RavenRadio>> | Follow us on Instagram<<https://www.instagram.com/kcawradio/>>

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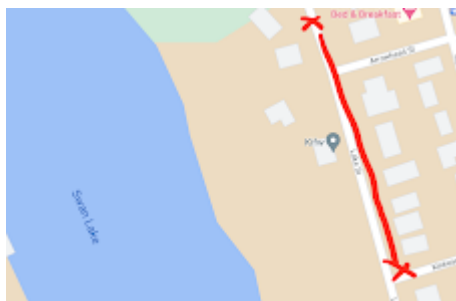


image001.png
148K



Becky Meiers <generalmanager@kcaw.org>

isocoupler

3 messages

Richard Burns <richard@frontiermediausa.com>

Mon, Mar 7, 2022 at 7:54 AM

To: Rich Parker <richp@coastalaska.org>, Becky Meiers <becky@kcaw.org>

Just and update. It arrived in Sitka on Friday. Adam from South Central Tower is going to Sitka to install this week. Not sure of the day yet...but will update you when I know.

Richard

Rich Parker <richp@coastalaska.org>

Mon, Mar 7, 2022 at 10:12 AM

To: Becky Meiers <becky@kcaw.org>, Richard Burns <richard@frontiermediausa.com>

Great, thanks for the update.

Rich Parker

Director of Engineering

[360 Egan Drive](#)

Juneau, AK 99801

907 209 9629 - cell/sms

907 463 6495 - ofc/vm

From: Richard Burns <richard@frontiermediausa.com>

Sent: Monday, March 7, 2022 7:54:06 AM

To: Rich Parker <richp@coastalaska.org>; Becky Meiers <becky@kcaw.org>

Subject: isocoupler

[Quoted text hidden]

Becky Meiers <generalmanager@kcaw.org>

Fri, Mar 11, 2022 at 11:53 AM

Reply-To: becky@kcaw.org

To: Rich Parker <richp@coastalaska.org>

Cc: Richard Burns <richard@frontiermediausa.com>

Thanks for the heads-up, Richard. Is Adam in town yet?

Becky Meiers - KL4YY, SBE CRO #71666

General Manager, **KCAW Raven Radio**

(907) 747-5877 (o)

(971) 300-6168 (c)

becky@kcaw.org

Visit our website kcaw.org | Like us on [Facebook](#) | Follow us on [Instagram](#)

Sitka

4 messages

Richard Burns <richard@frontiermediausa.com>

Mon, Mar 14, 2022 at 6:58 AM

To: Rich Parker <richp@coastalaska.org>, Becky Meiers <becky@kcaw.org>

Adam from South Central tower completed the project on Friday and did more than install the new isocoupler we got from Phasetek. What he did was a major project and capital expense for us - \$14.5k all up. Adam and Ken tell me the issue is fixed. For your info here's what he did.

1. Removed old unused Iso-coupler – which Adam believed was creating an issue.
2. Installed a new iso-coupler from Phasetek
3. Installed 2-Bay FM antenna, splitter and 7/8" feed line.
4. Replaced 3/8" LMR feed with 1/2" LDF feed, hooked up all connections & weatherproofed.
5. Secured all feeds with heavy outdoor rated ty-wraps.
6. Installed ground bus bar to studio & ground rod.
7. Grounded 7/8" feed in 2 spots, 1/2" feed, and Iso-coupler.

Thanks for your patience as we fixed this issue.

Richard

Becky Meiers <generalmanager@kcaw.org>

Fri, Mar 18, 2022 at 11:40 AM

Reply-To: becky@kcaw.org

To: Richard Burns <richard@frontiermediausa.com>

Cc: Rich Parker <richp@coastalaska.org>

Hey folks - and Richard, thank you for the update on this work. I really appreciate the effort you've put into trying to fix this, and the unexpected expense this has proven to be. I've asked the folks who've complained to check to see how it sounds, and unfortunately, they reported that there are still reception issues. So I went to check it out, and I recorded this video: [LINK HERE](#). As you can see/hear, there is still interference on 104.7 FM.

This is a note to Rich Parker: is there anything else that might be causing this problem?

**Becky Meiers** - KL4YY, SBE CRO #71666General Manager, **KCAW Raven Radio**

(907) 747-5877 (o)

(971) 300-6168 (c)

becky@kcaw.orgVisit our website kcaw.org | Like us on [Facebook](#) | Follow us on [Instagram](#)

Rich Parker <richp@coastalaska.org>
To: Becky Meiers <becky@kcaw.org>
Cc: Mollie Kabler <mollie@coastalaska.org>

Fri, Mar 18, 2022 at 12:37 PM

Becky,

Without being there with a spectrum analyzer, at their houses or offices, I really can't say.

There is no protection or resolution required for portable receivers (hand held or auto), so I don't know what to say otherwise.

Thanks,

Rich Parker
Director of Engineering
[360 Egan Drive](#)
[Juneau, AK 99801](#)
907 209 9629 - cell/sms
907 463 6495 - ofc/vm

From: Becky Meiers <generalmanager@kcaw.org>
Sent: Friday, March 18, 2022 11:40:13 AM
To: Richard Burns <richard@frontiermediausa.com>
Cc: Rich Parker <richp@coastalaska.org>
Subject: Re: Sitka

[Quoted text hidden]

Becky Meiers <generalmanager@kcaw.org>
Reply-To: becky@kcaw.org
To: Rich Parker <richp@coastalaska.org>
Cc: Mollie Kabler <mollie@coastalaska.org>

Mon, Mar 21, 2022 at 12:03 PM

Hrm, well - that is indeed tricky. What, if anything, should I ask from Richard in this case? Should he send his engineer with a spectrum analyzer to Sitka to get to the bottom of this?

I feel like I've tried to be accommodating, and the fix ultimately doesn't really cure the issue. The law does protect the direct reception by the public of the off-the-air signals: <http://plaintext.hallikainen.org/org/FCC/FccRules/2021/74/1203/>. I'd hoped to be neighborly, but it sounds like I should tell the folks who are complaining to file interference reports with the FCC.

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