

John Kennedy

From: Emmett Fitch [emmettfitch@gmail.com]
Sent: Friday, April 06, 2007 2:47 PM
To: John Kennedy
Subject: Re: FCC File # 0124-EX-PL-2007

Below are the bandwidths that are needed for each frequency.

10 MHz of spread in the 900 MHz range
20 MHz of spread in the 2.4 GHz range
20 MHz of spread in the 5 GHz range

On 4/6/07, **John Kennedy** <John.Kennedy@fcc.gov> wrote:

What is the necessary bandwidth(s) for each of the frequency bands?

From: Emmett Fitch [mailto:emmettfitch@gmail.com]
Sent: Friday, April 06, 2007 2:16 PM
To: John Kennedy
Subject: Re: FCC File # 0124-EX-PL-2007

John,
Here are the answers to the questions.

Should I delete the first antenna in the application since it contains no frequency data?

Yes

The area of mobile operations appears to be Dutch Harbor, AK, with a 660 km radius. Please verify that this is correct.

Yes, this is needed as this is the maximum range of our vessels.

Will all ships used in this experiment be US registered vessels?

Yes

Please report complete emission designators (necessary bandwidth and the three alphanumeric symbols in accordance with 47 CFR, Part 2.201) for each frequency band requested.

All frequencies will be F7W.

Please justify the need for 600 equipment units.

The need for 600 equipment units is justified by looking at the number of vessels being used in the experiment. There will be between 100 and 200 vessels that will voluntarily be participating in the experiment. By using the different frequencies requested and the number of vessels participating, a total of 600 pieces of equipment will be needed to conduct the experiment.

Please justify the need for a five-year license as opposed to a two-year license.

There are three reasons for having a five year license period.

- **The length of a government grant for research is five years.**
- **In this time we hope to develop new solutions to communications problems, some of which have never been attempted and may take several years on their own.**
- **In addition it is also due to the need to mix and match all equipment on the boats, during each season of the year, to determine robustness of the network under different environmental circumstances.**

Emmett

On 4/6/07, **John Kennedy** <John.Kennedy@fcc.gov> wrote:

[Please respond to the attached questions.](#)

From: Emmett Fitch [mailto:emmettfitch@gmail.com]

Sent: Friday, April 06, 2007 1:19 PM

To: John Kennedy

Subject: Emmett at Optimera

John,

I just received your message. This is an alternate email to use for me. If you could, when you send me the email to this address, could you also CC to my optimera account. There must be some issue with our hosting company and I would like to see if they have fixed the problem yet.

Best regards,

Emmett

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Emmett J. Fitch

CEO

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Emmett J. Fitch

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