

**jzipfel@anpc.com**

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**From:** Hughes, Dennis R CTR (FAA) <Dennis.R-CTR.Hughes@faa.gov>  
**Sent:** Friday, August 23, 2019 11:29 AM  
**To:** jzipfel@anpc.com  
**Subject:** RE: ILS frequency pre-coordination request

Hi Jeff,

I used the same parameters for the ILS band freqs as per your last request at Dalles. If they need to be modified, please let me know. Tom Ahn will be in next week to work on the 1030/1090 freqs.

Frequency	Station Class	Emission Designator	Authorized Power
108.35 MHz	FX	2K04A2A	996.4 mW (ERP)
333.95 MHz	FX	300HA1N	6.098 W (ERP)

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Thanks,

Dennis R. Hughes  
Contract Support (NISC III), Spectrum Engineer, SFMO  
**A**dvantage **C**onsulting & **E**ngineering **S**ervices Corporation  
AJW-1C Spectrum Engineering and Policy  
800 Independence Ave SW #7E-324  
Washington, DC 20591-0004  
202-267-9804  
[dennis.r-ctr.hughes@faa.gov](mailto:dennis.r-ctr.hughes@faa.gov)

**From:** jzipfel@anpc.com <jzipfel@anpc.com>  
**Sent:** Friday, August 23, 2019 1:06 PM  
**To:** Hughes, Dennis R CTR (FAA) <Dennis.R-CTR.Hughes@faa.gov>; Murphy, Rodney (FAA) <rodney.murphy@faa.gov>  
**Cc:** Pawlowitz, Timothy J (FAA) <timothy.j.pawlowitz@faa.gov>; Nellis, Donald (FAA) <donald.nellis@faa.gov>; 'Mike VanDooren' <mvandooren@anpc.com>  
**Subject:** RE: ILS frequency pre-coordination request

Hi Dennis,

The application was submitted and I received an automated confirmation email. The application reference is NFEJZ08/23/2019(1), and the confirmation email included these tracking numbers: TRK 190695,TRK 190696,TRK 190697,TRK 190698.

Cheers,

Jeff Zipfel

Configuration Manager

Advanced Navigation and Positioning Corporation

489 N. Eighth St, Suite 203, Hood River, OR 97031

541-386-1747 x237

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**From:** [jzipfel@anpc.com](mailto:jzipfel@anpc.com)

**Sent:** Friday, August 23, 2019 7:29 AM

**To:** 'Hughes, Dennis R CTR (FAA)' <[Dennis.R-CTR.Hughes@faa.gov](mailto:Dennis.R-CTR.Hughes@faa.gov)>; 'Murphy, Rodney (FAA)' <[rodney.murphy@faa.gov](mailto:rodney.murphy@faa.gov)>

**Cc:** 'Pawlowitz, Timothy J (FAA)' <[timothy.j.pawlowitz@faa.gov](mailto:timothy.j.pawlowitz@faa.gov)>; 'Nellis, Donald (FAA)' <[donald.nellis@faa.gov](mailto:donald.nellis@faa.gov)>; 'Mike VanDooren' <[mvandooren@anpc.com](mailto:mvandooren@anpc.com)>

**Subject:** RE: ILS frequency pre-coordination request

Hi Dennis,

My apologies for stepping out of the standard request process, I initially contacted the email address provided in correspondence with our USAF sponsors. I am in the process of completing the online coordination request, but am waiting for some of my technical experts to arrive so I have accurate info in the request.

I have used the FCC application portal before and submitted the application on 21Aug, the file number is 1540-EX-ST-2019 and confirmation number is EL677905.

Cheers,

Jeff Zipfel

Configuration Manager

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**From:** Hughes, Dennis R CTR (FAA)

**Sent:** Friday, August 23, 2019 6:31 AM

**To:** [jzipfel@anpc.com](mailto:jzipfel@anpc.com); Murphy, Rodney (FAA) <[rodney.murphy@faa.gov](mailto:rodney.murphy@faa.gov)>

**Cc:** Pawlowitz, Timothy J (FAA) <[timothy.j.pawlowitz@faa.gov](mailto:timothy.j.pawlowitz@faa.gov)>; Nellis, Donald (FAA) <[donald.nellis@faa.gov](mailto:donald.nellis@faa.gov)>; 'Mike VanDooren' <[mvandooren@anpc.com](mailto:mvandooren@anpc.com)>

**Subject:** RE: ILS frequency pre-coordination request

Hi Jeff,

I haven't seen a pre-coordination come through WebFCR for any ILS band requests ([webfcr.faa.gov](http://webfcr.faa.gov)) from ANPC. WebFCR is the FAA frequency management website for pre-coordinating frequency requests. Please provide the tracking number if you have one (or submit your requests through WebFCR if you have not). Also, if you have coordinated through the FCC, could you please provide application number filed with the FCC.

Thanks,

Dennis R. Hughes  
Contract Support (NISC III), Spectrum Engineer, SFMO  
**A**dvantage **C**onsulting & **E**ngineering **S**ervices Corporation  
AJW-1C Spectrum Engineering and Policy  
800 Independence Ave SW #7E-324  
Washington, DC 20591-0004  
202-267-9804  
[dennis.r-ctr.hughes@faa.gov](mailto:dennis.r-ctr.hughes@faa.gov)

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**From:** [jzipfel@anpc.com](mailto:jzipfel@anpc.com) <[jzipfel@anpc.com](mailto:jzipfel@anpc.com)>  
**Sent:** Wednesday, August 21, 2019 4:00 PM  
**To:** Murphy, Rodney (FAA) <[rodney.murphy@faa.gov](mailto:rodney.murphy@faa.gov)>  
**Cc:** Pawlowitz, Timothy J (FAA) <[timothy.j.pawlowitz@faa.gov](mailto:timothy.j.pawlowitz@faa.gov)>; Nellis, Donald (FAA) <[donald.nellis@faa.gov](mailto:donald.nellis@faa.gov)>; Hughes, Dennis R CTR (FAA) <[Dennis.R-CTR.Hughes@faa.gov](mailto:Dennis.R-CTR.Hughes@faa.gov)>; 'Mike VanDooren' <[mvandooren@anpc.com](mailto:mvandooren@anpc.com)>  
**Subject:** RE: ILS frequency pre-coordination request

Hi Mr. Murphy,  
Thanks for the quick reply to confirm receipt. Please don't hesitate to contact me if you have any questions. I added Mike van Dooren to the message to ensure a timely reply to any questions you may have.

Best regards,

Jeff Zipfel

Configuration Manager

Advanced Navigation and Positioning Corporation

489 N. Eighth St, Suite 203, Hood River, OR 97031

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**From:** Murphy, Rodney (FAA)  
**Sent:** Wednesday, August 21, 2019 11:23 AM  
**To:** [jzipfel@anpc.com](mailto:jzipfel@anpc.com)  
**Cc:** Pawlowitz, Timothy J (FAA) <[timothy.j.pawlowitz@faa.gov](mailto:timothy.j.pawlowitz@faa.gov)>; Nellis, Donald (FAA) <[donald.nellis@faa.gov](mailto:donald.nellis@faa.gov)>; Hughes, Dennis R CTR (FAA) <[Dennis.R-CTR.Hughes@faa.gov](mailto:Dennis.R-CTR.Hughes@faa.gov)>  
**Subject:** FW: ILS frequency pre-coordination request

Mr. Zipfel,

The FAA is studying this request, and we will try to respond back as soon as possible.

Rodney Murphy  
Federal Aviation Administration  
Spectrum Engineering and Policy  
Fixed/Land Mobile,UAS, Satellite, Experimentals  
FAA FAS Representative  
202-267-9501

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**From:** Pawlowitz, Timothy J (FAA) <[timothy.j.pawlowitz@faa.gov](mailto:timothy.j.pawlowitz@faa.gov)>  
**Sent:** Wednesday, August 21, 2019 1:59 PM  
**To:** [jzipfel@anpc.com](mailto:jzipfel@anpc.com); 'FAA-DoD-Liaison' <[FAA-DoD-Liaison@faa.gov](mailto:FAA-DoD-Liaison@faa.gov)>; Nellis, Donald (FAA) <[donald.nellis@faa.gov](mailto:donald.nellis@faa.gov)>;  
Murphy, Rodney (FAA) <[rodney.murphy@faa.gov](mailto:rodney.murphy@faa.gov)>  
**Cc:** Jones, Christopher CTR (FAA) <[Christopher.CTR.Jones@faa.gov](mailto:Christopher.CTR.Jones@faa.gov)>; Hughes, Dennis R CTR (FAA) <[Dennis.R-CTR.Hughes@faa.gov](mailto:Dennis.R-CTR.Hughes@faa.gov)>; Ahn, Thomas (FAA) <[Thomas.Ahn@faa.gov](mailto:Thomas.Ahn@faa.gov)>  
**Subject:** RE: ILS frequency pre-coordination request

Don/Rodney,

Do you think that we can support what is being requested in the below e-mail?

Please respond to the proponent with guidance.

Thx,  
Tim

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**From:** [jzipfel@anpc.com](mailto:jzipfel@anpc.com) <[jzipfel@anpc.com](mailto:jzipfel@anpc.com)>  
**Sent:** Wednesday, August 21, 2019 1:02 PM  
**To:** 'FAA-DoD-Liaison' <[FAA-DoD-Liaison@faa.gov](mailto:FAA-DoD-Liaison@faa.gov)>  
**Subject:** ILS frequency pre-coordination request

USAF Lt Col Brian Broekemeier and TSgt Daniel Jones are working with my company to plan a system demonstration at USAF facilities in Selah Creek/Yakima WA on the weekend of Sept 14-15. I have been informed that the USAF team tried but was unable to receive temporary permission to broadcast on frequencies reserved for avionics usage and controlled by the FAA. The feedback we received is that the system manufacturer is responsible for the request, and as a representative of Advanced Navigation and Positioning (ANPC) hereby request assistance on how to proceed given that there isn't much time remaining until the demo.

The demo system is a Transponder Landing System with functions very similar to an ILS. The system transmits Mode 3/A/C interrogation pulses at 1030MHz at a 10Hz rate using an omni-directional antenna, at <58dBm power radiated power and <-30dBm spurious emissions (60nm range centered at the system installation). The system broadcasts ILS-like guidance using one of the 40 frequency pairs that can be assigned by designated regulatory agencies, localizer transmit power of 28dBm (25nm range) and glideslope transmit power of 35dBm (12nm range). To verify system integrity, the system includes a transmitter to emulate transponder replies at 1090MHz at a 10Hz rate using an omni-directional antenna, at <44dBm radiated power and <-30dBm spurious emissions.

We are requesting permission to broadcast at 1030MHz, 1090MHz, and an ILS frequency pair assigned by the FAA, at the power noted above, from 0800 on 14Sept2019 until 1800 on 15Sept2019 at the Selah Creek Landing Zone 46°42'39.81"N, 120°19'31.26"W.

If ANPC is granted permission to broadcast the frequencies noted above, only for the dates/times at the location listed, we will apply for a temporary license from the FCC.

Cheers,

Jeff Zipfel

Configuration Manager

Advanced Navigation and Positioning Corporation

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