

**From:** [donotreply\\_from\\_webfcr@faa.gov](mailto:donotreply_from_webfcr@faa.gov)  
**To:** [Brookhaus \(US\), Lynn M](#)  
**Cc:** [Rodney.Murphy@faa.gov](mailto:Rodney.Murphy@faa.gov)  
**Subject:** FAA Concurrence of Record TRK 230082, Project: NFEFB01/13/2023(1)  
**Date:** Monday, April 24, 2023 8:57:48 AM  
**Attachments:** [TRK 230082\\_NG T230087\\_Card3\\_Approved.txt](#)  
[NTIA-Card3-Descriptions.pdf](#)

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Dear lynn.m.brookhaus@boeing.com,

The FAA Spectrum Engineering Services has completed the review of your Frequency Coordination Request.

TRK 230082 is assigned an FAA Coordination number NG T230087 that indicates FAA's coordination that may or may not include operational limits/conditions as part of the requirement for FAA concurrence. The FAA Spectrum Engineering Services has provided the following comments:

COMMENTS: NOTCH 976-980 MHZ. CONCURRENCE IS BASED UPON THESE PARAMETERS: 30 MHZ THROUGH 1 GHZ STEP SIZE IS 0.5 MHZ 1 GHZ THROUGH 2 GHZ STEP SIZE IS 1 MHZ DWELL TIME AT EACH FREQUENCY: 10 MS AVG. POWER AT EACH FREQUENCY: 10 MW TOTAL TIME OF SWEEP FROM 10 MHZ TO 18 GHZ- 1 MINUTE APPROXIMATELY 2 SWEEPS TOTAL (ONE HORIZONTAL POLARIZATION, ONE VERTICAL)

Please note that this concurrence does not constitute authority to transmit. Your authority to transmit must be obtained from the FCC.

Please provide this concurrence notice to the FCC as part of your frequency application, to demonstrate completion of the FAA coordination process. The FAA Coordination number is only valid until 10/21/2023; if you need an extension, please submit an inquiry via WebFCR .

The attached file contains a Card 3 format with all technical and operational parameters; operations are required to be contained within these parameters for the FAA's concurrence to remain valid. If any of these parameters change, the license to transmit shall be re-coordinated with the FAA and updated with the FCC. A document that explains each field of the Card 3 format in plain text is attached.

The following Revision Table outlines key parameters of this coordination:

Attribute	Record Parameter
Serial Number	NG T230087
Frequency	M947.0000
Upper Frequency	M1228.0000
City	RENTON
State	WA
Transmitter Latitude	472935.00N
Transmitter Longitude	1221256.00W
Receiver Latitude	472935.00N

Receiver Longitude	1221256.00W
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Best regards,

FAA Spectrum Engineering Services

**From:** [donotreply\\_from\\_webfcr@faa.gov](mailto:donotreply_from_webfcr@faa.gov)  
**To:** [Brookhaus \(US\), Lynn M](#)  
**Cc:** [Rodney.Murphy@faa.gov](mailto:Rodney.Murphy@faa.gov)  
**Subject:** FAA Concurrence of Record TRK 230084, Project: NFELB01/13/2023(3)  
**Date:** Friday, April 14, 2023 12:40:14 PM  
**Attachments:** [TRK 230084\\_NG T230089 Card3 Approved.txt](#)  
[NTIA-Card3-Descriptions.pdf](#)

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Dear lynn.m.brookhaus@boeing.com,

The FAA Spectrum Engineering Services has completed the review of your Frequency Coordination Request.

TRK 230084 is assigned an FAA Coordination number NG T230089 that indicates FAA's coordination that may or may not include operational limits/conditions as part of the requirement for FAA concurrence. The FAA Spectrum Engineering Services has provided the following comments:

COMMENTS: NOTCH OUT 108-137 MHZ

Please note that this concurrence does not constitute authority to transmit. Your authority to transmit must be obtained from the FCC.

Please provide this concurrence notice to the FCC as part of your frequency application, to demonstrate completion of the FAA coordination process. The FAA Coordination number is only valid until 10/11/2023; if you need an extension, please submit an inquiry via WebFCR .

The attached file contains a Card 3 format with all technical and operational parameters; operations are required to be contained within these parameters for the FAA's concurrence to remain valid. If any of these parameters change, the license to transmit shall be re-coordinated with the FAA and updated with the FCC. A document that explains each field of the Card 3 format in plain text is attached.

The following Revision Table outlines key parameters of this coordination:

<b>Attribute</b>	<b>Record Parameter</b>
Serial Number	NG T230089
Frequency	M76.0000
Upper Frequency	M152.0000
City	EVERETT
State	WA
Transmitter Latitude	475422.00N
Transmitter Longitude	1221653.00W
Receiver Latitude	475422.00N
Receiver Longitude	1221653.00W

Best regards,

FAA Spectrum Engineering Services

**From:** [donotreply\\_from\\_webfcr@faa.gov](mailto:donotreply_from_webfcr@faa.gov)  
**To:** [Brookhaus \(US\), Lynn M](mailto:Brookhaus (US), Lynn M)  
**Cc:** [Rodney.Murphy@faa.gov](mailto:Rodney.Murphy@faa.gov)  
**Subject:** FAA Concurrence of Record TRK 230085, Project: NFELB01/13/2023(4)  
**Date:** Monday, April 24, 2023 9:57:47 AM  
**Attachments:** [TRK 230085\\_NG T230090 Card3 Approved.txt](#)  
[NTIA-Card3-Descriptions.pdf](#)

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Dear lynn.m.brookhaus@boeing.com,

The FAA Spectrum Engineering Services has completed the review of your Frequency Coordination Request.

TRK 230085 is assigned an FAA Coordination number NG T230090 that indicates FAA's coordination that may or may not include operational limits/conditions as part of the requirement for FAA concurrence. The FAA Spectrum Engineering Services has provided the following comments:

COMMENTS: NOTCH OUT 108-137 MHZ

Please note that this concurrence does not constitute authority to transmit. Your authority to transmit must be obtained from the FCC.

Please provide this concurrence notice to the FCC as part of your frequency application, to demonstrate completion of the FAA coordination process. The FAA Coordination number is only valid until 10/21/2023; if you need an extension, please submit an inquiry via WebFCR .

The attached file contains a Card 3 format with all technical and operational parameters; operations are required to be contained within these parameters for the FAA's concurrence to remain valid. If any of these parameters change, the license to transmit shall be re-coordinated with the FAA and updated with the FCC. A document that explains each field of the Card 3 format in plain text is attached.

The following Revision Table outlines key parameters of this coordination:

<b>Attribute</b>	<b>Record Parameter</b>
Serial Number	NG T230090
Frequency	M76.0000
Upper Frequency	M152.0000
City	RENTON
State	WA
Transmitter Latitude	472935.00N
Transmitter Longitude	1221256.00W
Receiver Latitude	472935.00N
Receiver Longitude	1221256.00W

Best regards,

FAA Spectrum Engineering Services

**From:** [donotreply\\_from\\_webfcr@faa.gov](mailto:donotreply_from_webfcr@faa.gov)  
**To:** [Brookhaus \(US\), Lynn M](#)  
**Cc:** [Rodney.Murphy@faa.gov](mailto:Rodney.Murphy@faa.gov)  
**Subject:** Return Without Action of Record TRK 230086, Project: NFELB01/13/2023(5)  
**Date:** Friday, April 21, 2023 7:14:35 AM

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Dear [lynn.m.brookhaus@boeing.com](mailto:lynn.m.brookhaus@boeing.com),

FAA Spectrum Engineering Services has reviewed your Frequency Coordination Request. Unfortunately, the FAA is not able to concur to this proposal for the following reason:

Tracking#	Frequency	City	State
TRK 230086	M4185.0000 - M4415.0000	EVERETT	WA

**Reason: EMISSIONS AND FREQUENCY ARE NOT WITHIN EITHER AAG OR RADAR BANDS. FAA PRECOORDINATION NOT REQUIRED.**

If a proposed way forwarded was provided and you wish to revise your proposal based on the comments, please resubmit through WebFCR for reconsideration. If you have any questions for FAA Spectrum Engineering Services, please send an inquiry via WebFCR by using the inquiry function under the corresponding Serial Number of the record.

Thank you,

FAA Spectrum Engineering Services

**From:** [donotreply\\_from\\_webfcr@faa.gov](mailto:donotreply_from_webfcr@faa.gov)  
**To:** [Brookhaus \(US\), Lynn M](#)  
**Cc:** [Rodney.Murphy@faa.gov](mailto:Rodney.Murphy@faa.gov)  
**Subject:** FAA Concurrence of Record TRK 230088, Project: NFELB01/13/2023(7)  
**Date:** Tuesday, April 18, 2023 12:06:58 PM  
**Attachments:** [TRK 230088\\_NG T230093\\_Card3\\_Approved.txt](#)  
[NTIA-Card3-Descriptions.pdf](#)

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Dear lynn.m.brookhaus@boeing.com,

The FAA Spectrum Engineering Services has completed the review of your Frequency Coordination Request.

TRK 230088 is assigned an FAA Coordination number NG T230093 that indicates FAA's coordination that may or may not include operational limits/conditions as part of the requirement for FAA concurrence. The FAA Spectrum Engineering Services has provided the following comments:

COMMENTS: NOTCH OUT 1535-1610 MHZ

Please note that this concurrence does not constitute authority to transmit. Your authority to transmit must be obtained from the FCC.

Please provide this concurrence notice to the FCC as part of your frequency application, to demonstrate completion of the FAA coordination process. The FAA Coordination number is only valid until 10/15/2023; if you need an extension, please submit an inquiry via WebFCR .

The attached file contains a Card 3 format with all technical and operational parameters; operations are required to be contained within these parameters for the FAA's concurrence to remain valid. If any of these parameters change, the license to transmit shall be re-coordinated with the FAA and updated with the FCC. A document that explains each field of the Card 3 format in plain text is attached.

The following Revision Table outlines key parameters of this coordination:

<b>Attribute</b>	<b>Record Parameter</b>
Serial Number	NG T230093
Frequency	M1515.0000
Upper Frequency	M1645.0000
City	MARANA
State	AZ
Transmitter Latitude	323035.00N
Transmitter Longitude	1111921.00W
Receiver Latitude	323035.00N
Receiver Longitude	1111921.00W



Best regards,

FAA Spectrum Engineering Services

**From:** [donotreply\\_from\\_webfcr@faa.gov](mailto:donotreply_from_webfcr@faa.gov)  
**To:** [Brookhaus \(US\), Lynn M](mailto:Brookhaus (US), Lynn M)  
**Cc:** [Rodney.Murphy@faa.gov](mailto:Rodney.Murphy@faa.gov)  
**Subject:** FAA Concurrence of Record TRK 230091, Project: NFELB01/13/2023(10)  
**Date:** Monday, April 24, 2023 9:55:31 AM  
**Attachments:** [TRK 230091\\_NG T230096 Card3 Approved.txt](#)  
[NTIA-Card3-Descriptions.pdf](#)

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Dear lynn.m.brookhaus@boeing.com,

The FAA Spectrum Engineering Services has completed the review of your Frequency Coordination Request.

TRK 230091 is assigned an FAA Coordination number NG T230096 that indicates FAA's coordination that may or may not include operational limits/conditions as part of the requirement for FAA concurrence. The FAA Spectrum Engineering Services has provided the following comments:

COMMENTS: NOTCH OUT 108-137 MHZ

Please note that this concurrence does not constitute authority to transmit. Your authority to transmit must be obtained from the FCC.

Please provide this concurrence notice to the FCC as part of your frequency application, to demonstrate completion of the FAA coordination process. The FAA Coordination number is only valid until 10/21/2023; if you need an extension, please submit an inquiry via WebFCR .

The attached file contains a Card 3 format with all technical and operational parameters; operations are required to be contained within these parameters for the FAA's concurrence to remain valid. If any of these parameters change, the license to transmit shall be re-coordinated with the FAA and updated with the FCC. A document that explains each field of the Card 3 format in plain text is attached.

The following Revision Table outlines key parameters of this coordination:

<b>Attribute</b>	<b>Record Parameter</b>
Serial Number	NG T230096
Frequency	M76.0000
Upper Frequency	M152.0000
City	MARANA
State	AZ
Transmitter Latitude	323035.00N
Transmitter Longitude	1111921.00W
Receiver Latitude	323035.00N
Receiver Longitude	1111921.00W

Best regards,

FAA Spectrum Engineering Services

**From:** [donotreply\\_from\\_webfcr@faa.gov](mailto:donotreply_from_webfcr@faa.gov)  
**To:** [Brookhaus \(US\), Lynn M](#)  
**Cc:** [Rodney.Murphy@faa.gov](mailto:Rodney.Murphy@faa.gov)  
**Subject:** FAA Concurrence of Record TRK 230092, Project: NFEFB01/13/2023(11)  
**Date:** Monday, April 24, 2023 8:59:21 AM  
**Attachments:** [TRK 230092\\_NG T230097\\_Card3\\_Approved.txt](#)  
[NTIA-Card3-Descriptions.pdf](#)

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Dear lynn.m.brookhaus@boeing.com,

The FAA Spectrum Engineering Services has completed the review of your Frequency Coordination Request.

TRK 230092 is assigned an FAA Coordination number NG T230097 that indicates FAA's coordination that may or may not include operational limits/conditions as part of the requirement for FAA concurrence. The FAA Spectrum Engineering Services has provided the following comments:

COMMENTS: NOTCH 976-980 MHZ. CONCURRENCE IS BASED UPON THESE PARAMETERS: 30 MHZ THROUGH 1 GHZ STEP SIZE IS 0.5 MHZ 1 GHZ THROUGH 2 GHZ STEP SIZE IS 1 MHZ DWELL TIME AT EACH FREQUENCY: 10 MS AVG. POWER AT EACH FREQUENCY: 10 MW TOTAL TIME OF SWEEP FROM 10 MHZ TO 18 GHZ- 1 MINUTE APPROXIMATELY 2 SWEEPS TOTAL (ONE HORIZONTAL POLARIZATION, ONE VERTICAL)

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The attached file contains a Card 3 format with all technical and operational parameters; operations are required to be contained within these parameters for the FAA's concurrence to remain valid. If any of these parameters change, the license to transmit shall be re-coordinated with the FAA and updated with the FCC. A document that explains each field of the Card 3 format in plain text is attached.

The following Revision Table outlines key parameters of this coordination:

<b>Attribute</b>	<b>Record Parameter</b>
Serial Number	NG T230097
Frequency	M947.0000
Upper Frequency	M1228.0000
City	MARANA
State	AZ
Transmitter Latitude	323035.00N
Transmitter Longitude	1111921.00W
Receiver Latitude	323035.00N

Receiver Longitude	1111921.00W
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Best regards,

FAA Spectrum Engineering Services

**From:** [donotreply\\_from\\_webfcr@faa.gov](mailto:donotreply_from_webfcr@faa.gov)  
**To:** [Brookhaus \(US\), Lynn M](#)  
**Cc:** [Rodney.Murphy@faa.gov](mailto:Rodney.Murphy@faa.gov)  
**Subject:** FAA Concurrence of Record TRK 230093, Project: NFEFB01/13/2023(12)  
**Date:** Monday, April 24, 2023 8:57:55 AM  
**Attachments:** [TRK 230093\\_NG T230098\\_Card3\\_Approved.txt](#)  
[NTIA-Card3-Descriptions.pdf](#)

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Dear lynn.m.brookhaus@boeing.com,

The FAA Spectrum Engineering Services has completed the review of your Frequency Coordination Request.

TRK 230093 is assigned an FAA Coordination number NG T230098 that indicates FAA's coordination that may or may not include operational limits/conditions as part of the requirement for FAA concurrence. The FAA Spectrum Engineering Services has provided the following comments:

COMMENTS: NOTCH 976-980 MHZ. CONCURRENCE IS BASED UPON THESE PARAMETERS: 30 MHZ THROUGH 1 GHZ STEP SIZE IS 0.5 MHZ 1 GHZ THROUGH 2 GHZ STEP SIZE IS 1 MHZ DWELL TIME AT EACH FREQUENCY: 10 MS AVG. POWER AT EACH FREQUENCY: 10 MW TOTAL TIME OF SWEEP FROM 10 MHZ TO 18 GHZ- 1 MINUTE APPROXIMATELY 2 SWEEPS TOTAL (ONE HORIZONTAL POLARIZATION, ONE VERTICAL)

Please note that this concurrence does not constitute authority to transmit. Your authority to transmit must be obtained from the FCC.

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The attached file contains a Card 3 format with all technical and operational parameters; operations are required to be contained within these parameters for the FAA's concurrence to remain valid. If any of these parameters change, the license to transmit shall be re-coordinated with the FAA and updated with the FCC. A document that explains each field of the Card 3 format in plain text is attached.

The following Revision Table outlines key parameters of this coordination:

<b>Attribute</b>	<b>Record Parameter</b>
Serial Number	NG T230098
Frequency	M947.0000
Upper Frequency	M1228.0000
City	EVERETT
State	WA
Transmitter Latitude	475422.00N
Transmitter Longitude	1221653.00W
Receiver Latitude	475422.00N

Receiver Longitude	1221653.00W
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Best regards,

FAA Spectrum Engineering Services