uAvionix

Christian Ramsey <christian@uavionix.com>

# FAA Concurrence of Record TRK 210652, Project: NFECR07/12/2021(4)

**donotreply_from_webfcr@faa.gov** <donotreply_from_webfcr@faa.gov> Fri, Aug 6, 2021 at 8:47 AM
To: christian@uavionix.com
Cc: Rodney.Murphy@faa.gov, Lorena.Carvajal@faa.gov, Surya.CTR.Kanchiraju@faa.gov, Clifford.CTR.Vines@faa.gov, patrick.ctr.bledzki@faa.gov

Dear christian@uavionix.com,

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

TRK 210652 is assigned an FAA Coordination number NG T210670 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: SUPPORT OF UAVIONIX TESTING OF C-BAND UAS C2 RADIOS FOR COMPLIANCE WITH RTCA DO-362A AND EVENTUAL TSO-C213A. TWO MAIN LOCATIONS FOR GRS (BIGFORK AND SOMERS,MT) WITH SOME LIMITED GROUND MOBILITY UP TO 10 NMI.SIX CHANNELS (M5050.9475;M5051.1625;M5051. 3375;M5051.5925;M5052.0225;M5052.4525) WILL BE USED BIRECTIONALLY TO SUPPORT THE TEST OPERATIONS.GRS ANTENNA IS STEERABLE WITH +/- 60 DEGREES OF 120 DEGREE AZIMUTH.

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 2/2/2022; 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 T210670 |
| Frequency | M5050.9475 |
| City | SOMERS |
| State | MT |
| Transmitter Radius | 0050 |
| Transmitter Latitude | 480605.51N |
| Transmitter Longitude | 1141232.29W |
| Antenna Height | 0030 |
| Receiver Latitude | 480605.51N |
| Receiver Longitude | 1141232.29W |

| | |
|---|---|
| Antenna Type | PHASEDARRY |

Best regards,

FAA Spectrum Engineering Services

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**2 attachments**

**TRK 210652_NG T210670_Card3_Approved.txt**
1K

**NTIA-Card3-Descriptions.pdf**
258K

uAvionix

Christian Ramsey <christian@uavionix.com>

# FAA Concurrence of Record TRK 210653, Project: NFECR07/12/2021(4)

**donotreply_from_webfcr@faa.gov** <donotreply_from_webfcr@faa.gov> Fri, Aug 6, 2021 at 9:18 AM
To: christian@uavionix.com
Cc: Rodney.Murphy@faa.gov, Lorena.Carvajal@faa.gov, Surya.CTR.Kanchiraju@faa.gov, Clifford.CTR.Vines@faa.gov, patrick.ctr.bledzki@faa.gov

Dear christian@uavionix.com,

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

TRK 210653 is assigned an FAA Coordination number NG T210671 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: SUPPORT OF UAVIONIX TESTING OF C-BAND UAS C2 RADIOS FOR COMPLIANCE WITH RTCA DO-362A AND EVENTUAL TSO-C213A. TWO MAIN LOCATIONS FOR GRS (BIGFORK AND SOMERS,MT) WITH SOME LIMITED GROUND MOBILITY UP TO 10 NMI.SIX CHANNELS (M5050.9475;M5051.1625;M5051. 3375;M5051.5925;M5052.0225;M5052.4525) WILL BE USED BIRECTIONALLY TO SUPPORT THE TEST OPERATIONS.GRS ANTENNA IS STEERABLE WITH +/- 60 DEGREES OF 120 DEGREE AZIMUTH.

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 2/2/2022; 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 T210671 |
| Frequency | M5051.1625 |
| City | SOMERS |
| State | MT |
| Transmitter Radius | 0050 |
| Transmitter Latitude | 480605.51N |
| Transmitter Longitude | 1141232.29W |
| Antenna Height | 0030 |
| Receiver Latitude | 480605.51N |
| Receiver Longitude | 1141232.29W |

| | |
|---|---|
| Antenna Type | PHASEDARRY |

Best regards,

FAA Spectrum Engineering Services

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**2 attachments**

**TRK 210653_NG T210671_Card3_Approved.txt**
1K

**NTIA-Card3-Descriptions.pdf**
258K

uAvionix

Christian Ramsey <christian@uavionix.com>

# FAA Concurrence of Record TRK 210654, Project: NFECR07/12/2021(4)

**donotreply_from_webfcr@faa.gov** <donotreply_from_webfcr@faa.gov> Fri, Aug 6, 2021 at 9:37 AM
To: christian@uavionix.com
Cc: Rodney.Murphy@faa.gov, Lorena.Carvajal@faa.gov, Surya.CTR.Kanchiraju@faa.gov, Clifford.CTR.Vines@faa.gov, patrick.ctr.bledzki@faa.gov

Dear christian@uavionix.com,

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

TRK 210654 is assigned an FAA Coordination number NG T210672 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: SUPPORT OF UAVIONIX TESTING OF C-BAND UAS C2 RADIOS FOR COMPLIANCE WITH RTCA DO-362A AND EVENTUAL TSO-C213A. TWO MAIN LOCATIONS FOR GRS (BIGFORK AND SOMERS,MT) WITH SOME LIMITED GROUND MOBILITY UP TO 10 NMI.SIX CHANNELS (M5050.9475;M5051.1625;M5051. 3375;M5051.5925;M5052.0225;M5052.4525) WILL BE USED BIRECTIONALLY TO SUPPORT THE TEST OPERATIONS.GRS ANTENNA IS STEERABLE WITH +/- 60 DEGREES OF 120 DEGREE AZIMUTH.

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 2/2/2022; 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 T210672 |
| Frequency | M5051.3375 |
| City | SOMERS |
| State | MT |
| Transmitter Radius | 0050 |
| Transmitter Latitude | 480605.51N |
| Transmitter Longitude | 1141232.29W |
| Antenna Height | 0030 |
| Receiver Latitude | 480605.51N |
| Receiver Longitude | 1141232.29W |

| | |
|---|---|
| Antenna Type | PHASEDARRY |

Best regards,

FAA Spectrum Engineering Services

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**2 attachments**

**TRK 210654_NG T210672_Card3_Approved.txt**
1K

**NTIA-Card3-Descriptions.pdf**
258K

uAvionix

Christian Ramsey <christian@uavionix.com>

# FAA Concurrence of Record TRK 210655, Project: NFECR07/12/2021(4)

**donotreply_from_webfcr@faa.gov** <donotreply_from_webfcr@faa.gov> Fri, Aug 6, 2021 at 10:12 AM
To: christian@uavionix.com
Cc: Rodney.Murphy@faa.gov, Lorena.Carvajal@faa.gov, Surya.CTR.Kanchiraju@faa.gov, Clifford.CTR.Vines@faa.gov, patrick.ctr.bledzki@faa.gov

Dear christian@uavionix.com,

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

TRK 210655 is assigned an FAA Coordination number NG T210673 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: SUPPORT OF UAVIONIX TESTING OF C-BAND UAS C2 RADIOS FOR COMPLIANCE WITH RTCA DO-362A AND EVENTUAL TSO-C213A. TWO MAIN LOCATIONS FOR GRS (BIGFORK AND SOMERS,MT) WITH SOME LIMITED GROUND MOBILITY UP TO 10 NMI.SIX CHANNELS (M5050.9475;M5051.1625;M5051. 3375;M5051.5925;M5052.0225;M5052.4525) WILL BE USED BIRECTIONALLY TO SUPPORT THE TEST OPERATIONS.GRS ANTENNA IS STEERABLE WITH +/- 60 DEGREES OF 120 DEGREE AZIMUTH.

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 2/2/2022; 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 T210673 |
| Frequency | M5051.5925 |
| City | SOMERS |
| State | MT |
| Transmitter Radius | 0050 |
| Transmitter Latitude | 480605.51N |
| Transmitter Longitude | 1141232.29W |
| Antenna Height | 0030 |
| Receiver Latitude | 480605.51N |
| Receiver Longitude | 1141232.29W |

| | |
|---|---|
| Antenna Type | PHASEDARRY |

Best regards,

FAA Spectrum Engineering Services

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**2 attachments**

**TRK 210655_NG T210673_Card3_Approved.txt**
1K

**NTIA-Card3-Descriptions.pdf**
258K

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Christian Ramsey <christian@uavionix.com>

# FAA Concurrence of Record TRK 210656, Project: NFECR07/12/2021(4)

**donotreply_from_webfcr@faa.gov** <donotreply_from_webfcr@faa.gov> Fri, Aug 6, 2021 at 10:21 AM
To: christian@uavionix.com
Cc: Rodney.Murphy@faa.gov, Lorena.Carvajal@faa.gov, Surya.CTR.Kanchiraju@faa.gov, Clifford.CTR.Vines@faa.gov, patrick.ctr.bledzki@faa.gov

Dear christian@uavionix.com,

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

TRK 210656 is assigned an FAA Coordination number NG T210674 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: SUPPORT OF UAVIONIX TESTING OF C-BAND UAS C2 RADIOS FOR COMPLIANCE WITH RTCA DO-362A AND EVENTUAL TSO-C213A. TWO MAIN LOCATIONS FOR GRS (BIGFORK AND SOMERS,MT) WITH SOME LIMITED GROUND MOBILITY UP TO 10 NMI.SIX CHANNELS (M5050.9475;M5051.1625;M5051. 3375;M5051.5925;M5052.0225;M5052.4525) WILL BE USED BIRECTIONALLY TO SUPPORT THE TEST OPERATIONS.GRS ANTENNA IS STEERABLE WITH +/- 60 DEGREES OF 120 DEGREE AZIMUTH.

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 2/2/2022; 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 T210674 |
| Frequency | M5052.0225 |
| City | SOMERS |
| State | MT |
| Transmitter Radius | 0050 |
| Transmitter Latitude | 480605.51N |
| Transmitter Longitude | 1141232.29W |
| Antenna Height | 0030 |
| Receiver Latitude | 480605.51N |
| Receiver Longitude | 1141232.29W |

| | |
|---|---|
| Antenna Type | PHASEDARRY |

Best regards,

FAA Spectrum Engineering Services

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**2 attachments**

**TRK 210656_NG T210674_Card3_Approved.txt**
1K

**NTIA-Card3-Descriptions.pdf**
258K

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Christian Ramsey <christian@uavionix.com>

# FAA Concurrence of Record TRK 210657, Project: NFECR07/12/2021(4)

**donotreply_from_webfcr@faa.gov** <donotreply_from_webfcr@faa.gov> Fri, Aug 6, 2021 at 10:37 AM
To: christian@uavionix.com
Cc: Rodney.Murphy@faa.gov, Lorena.Carvajal@faa.gov, Surya.CTR.Kanchiraju@faa.gov, Clifford.CTR.Vines@faa.gov, patrick.ctr.bledzki@faa.gov

Dear christian@uavionix.com,

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

TRK 210657 is assigned an FAA Coordination number NG T210675 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: SUPPORT OF UAVIONIX TESTING OF C-BAND UAS C2 RADIOS FOR COMPLIANCE WITH RTCA DO-362A AND EVENTUAL TSO-C213A. TWO MAIN LOCATIONS FOR GRS (BIGFORK AND SOMERS,MT) WITH SOME LIMITED GROUND MOBILITY UP TO 10 NMI.SIX CHANNELS (M5050.9475;M5051.1625;M5051. 3375;M5051.5925;M5052.0225;M5052.4525) WILL BE USED BIRECTIONALLY TO SUPPORT THE TEST OPERATIONS.GRS ANTENNA IS STEERABLE WITH +/- 60 DEGREES OF 120 DEGREE AZIMUTH.

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 2/2/2022; 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 T210675 |
| Frequency | M5052.4525 |
| City | SOMERS |
| State | MT |
| Transmitter Radius | 0050 |
| Transmitter Latitude | 480605.51N |
| Transmitter Longitude | 1141232.29W |
| Antenna Height | 0030 |
| Receiver Latitude | 480605.51N |
| Receiver Longitude | 1141232.29W |

| | |
|---|---|
| Antenna Type | PHASEDARRY |

Best regards,

FAA Spectrum Engineering Services

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**2 attachments**

**TRK 210657_NG T210675_Card3_Approved.txt**
1K

**NTIA-Card3-Descriptions.pdf**
258K