

From: donotreply_from_webfcr@faa.gov
To: [Thorsheim \(US\), Joel D](#)
Cc: [Thomas Ahn](#); [Lorena Carvajal](#); [Rod Murphy](#); [Surya V Kanchiraju](#); [Clifford Vines](#); [Patrick Bledzki](#)
Subject: FAA Concurrence of Record TRK 200595, Project: INSITU EMI AND ENVIRONMENTAL C2 SILVER SPRINGS
Date: Wednesday, September 30, 2020 8:28:54 AM
Attachments: [TRK 200595 NG T200570 Card3 Approved.txt](#)
[NTIA-Card3-Descriptions.pdf](#)

Dear Joel Thorsheim,

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

TRK 200595 is assigned an FAA Coordination number NG T200570 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: NONE

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 3/29/2021; 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 T200570
Frequency	M1370.0000
Upper Frequency	M1390.0000
City	SILVER SPRINGS
State	NV
Transmitter Radius	0001
Transmitter Latitude	391750.00N
Transmitter Longitude	1192231.00W
Antenna Height	0003
Receiver Latitude	391750.00N

Receiver Longitude	1192231.00W
Equipment Type	C,FRW P-501X005
Antenna Type	DIPOLE

Best regards,

FAA Spectrum Engineering Services

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To: [Thorsheim \(US\), Joel D](#)
Cc: [Thomas Ahn](#); [Lorena Carvajal](#); [Rod Murphy](#); [Surya V Kanchiraju](#); [Clifford Vines](#); [Patrick Bledzki](#)
Subject: FAA Concurrence of Record TRK 200596, Project: INSITU EMI AND ENVIRONMENTAL C2 SILVER SPRINGS
Date: Wednesday, September 30, 2020 8:33:10 AM
Attachments: [TRK 200596 NG T200571 Card3 Approved.txt](#)
[NTIA-Card3-Descriptions.pdf](#)

Dear Joel Thorsheim,

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

TRK 200596 is assigned an FAA Coordination number NG T200571 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: NONE

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 3/29/2021; 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 T200571
Frequency	M1370.0000
Upper Frequency	M1390.0000
City	SILVER SPRINGS
State	NV
Transmitter Radius	0001
Transmitter Latitude	391750.00N
Transmitter Longitude	1192231.00W
Antenna Height	0003
Receiver Latitude	391750.00N

Receiver Longitude	1192231.00W
Equipment Type	C,FRW P-501X005
Antenna Type	DIPOLE

Best regards,

FAA Spectrum Engineering Services

From: donotreply_from_webfcr@faa.gov
To: [Thorsheim \(US\), Joel D](#)
Cc: Rodney.Murphy@faa.gov; Timothy.J.Pawlowitz@faa.gov; Lorena.Carvajal@faa.gov; robert.ctr.lando@faa.gov
Subject: FAA Concurrence of Record TRK 200601
Date: Monday, September 14, 2020 5:55:34 AM
Attachments: [TRK 200601 NG T200574 FieldsSummary.pdf](#)

Dear Proponent,

Your Frequency Coordination Request has been engineered by FAA Spectrum Engineering. TRK 200601 is assigned an FAA Coordination number NG T200574 which indicates FAA's concurrence. Please note that this does not constitute authority to transmit.

A formal application must be filed with the FCC, that includes reference to the above FAA Coordination number which is valid until 3/13/2021. If an extension is desired, please submit an inquiry via WebFCR for an extension. Your authority to transmit accordingly must be obtained from the FCC. FAA Spectrum has provided the following comment:

FAU Line: SPECIAL CONDITIONS - 1) TRANSPONDER TESTING SHALL BE CONDUCTED INSIDE A HANGAR WHENEVER POSSIBLE AND USE ANTENNA COVERS TO PREVENT INTERFERENCE TO OTHER SYSTEMS IN ACCORDANCE WITH THE PROCEDURES FOUND IN THE NOTE UNDER APPENDIX B OF FAA ADVISORY CIRCULAR 20-151C 2) TESTING MUST BE COORDINATED WITH LOCAL ATC 3) AS AN ALTERNATIVE TO THE USE OF ANTENNA SHIELDING, RADIATED TRANSPONDER TESTING CAN BE USED PROVIDED THAT MODE C CODE AND MODE S ALTITUDE REPORTING DOWNLINK FORMATS ALL RESPOND WITH AN ALTITUDE THAT IS AT LEAST 600 FEET BELOW GROUND LEVEL OR AN ALTITUDE ABOVE 90,000 FEET ABOVE GROUND LEVEL TO PREVENT TRANSMISSION OF TEST DATA THAT COULD GENERATE FALSE INTRUDER INFORMATION.

The attached file contains a Summary Table of the key record parameters documented throughout the process. The following Revision Table outlines the attributes which were revised:

Attribute	Revised Value
Frequency	M1090.0000
Equipment Type	C,UAVIONIX PING 200S

Thank You

FAA Spectrum Engineering

From: donotreply_from_webfcr@faa.gov
To: [Thorsheim \(US\), Joel D](#)
Cc: Rodney.Murphy@faa.gov; Timothy.J.Pawlowitz@faa.gov; Lorena.Carvajal@faa.gov; robert.ctr.lando@faa.gov
Subject: FAA Concurrence of Record TRK 200602
Date: Monday, September 14, 2020 6:04:38 AM
Attachments: [TRK 200602 NG T200575 FieldsSummary.pdf](#)

Dear Proponent,

Your Frequency Coordination Request has been engineered by FAA Spectrum Engineering. TRK 200602 is assigned an FAA Coordination number NG T200575 which indicates FAA's concurrence. Please note that this does not constitute authority to transmit.

A formal application must be filed with the FCC, that includes reference to the above FAA Coordination number which is valid until 3/13/2021. If an extension is desired, please submit an inquiry via WebFCR for an extension. Your authority to transmit accordingly must be obtained from the FCC. FAA Spectrum has provided the following comment:

FAU Line: SPECIAL CONDITIONS-1) MODES 3/A, C, AND S ARE AUTHORIZED TO BE USED DIRECT CONNECT OR WITH ANTENNA SHIELDING (THAT IS, TRANSMISSION ABSORPTION COVERS OR CAPS) TO PREVENT TRANSMISSION OF TEST DATA THAT COULD GENERATE FALSE INTRUDER INFORMATION 2) TESTING MUST BE COORDINATED WITH LOCAL ATC 3) AS AN ALTERNATIVE TO THE USE OF ANTENNA SHIELDING, RADIATED TRANSPONDER TESTING CAN BE USED PROVIDED THAT MODE C CODE AND MODE S ALTITUDE REPORTING DOWNLINK FORMATS ALL RESPOND WITH AN ALTITUDE THAT IS AT LEAST 600 FEET BELOW GROUND LEVEL OR AN ALTITUDE ABOVE 90,000 FEET ABOVE GROUND LEVEL TO PREVENT TRANSMISSION OF TEST DATA THAT COULD GENERATE FALSE INTRUDER INFORMATION 4) EIRP SHALL NOT EXCEED 1 WATT PEAK POWER AT ANY TIME 5) THE SET UP AND OPERATING INSTRUCTIONS AS LISTED IN THE OPERATOR MANUAL SHALL BE CAREFULLY FOLLOWED TO AVOID CREATING FALSE TARGETS

The attached file contains a Summary Table of the key record parameters documented throughout the process. The following Revision Table outlines the attributes which were revised:

Attribute	Revised Value
Frequency	M1030.0000

Thank You

FAA Spectrum Engineering