From: hanley.yu@faa.gov
To: Dan R Leppold
Cc: Charles.Cassella@faa.gov; Stephanie.Thomas@faa.gov
Subject: Re: Coordination number request DETAILS for the two frequencies
Date: 07/09/2012 04:41 PM
Importance: High
Attachments: 2011 Grant.pdf

Mr. Leppold,

FYI and tracking.

ESA	YEAR	REGION SERIAL	AGENCY SN	ACTION (N/M/D/R)	LOCATION/FACILITY	FREQUENCY	REMARKS	DATE	INITIALS
ESA FREQUENCY APPLICATIONS CY2012									
ESA	**12**	**1716**	**NG T120269**	**N**	**LARGO, FL**	**M1290.0000**	**RAYTHEON PROPERTY SIGNAL STRENGTH TESTING.**	**7/9/2012**	**HY**
ESA	**12**	**1717**	**NG T120271**	**N**	**SAINT PETERSBURG, FL**	**M1290.0000**	**RAYTHEON PROPERTY SIGNAL STRENGTH TESTING.**	**7/9/2012**	**HY**

Hanley Yu
ESA FMO Spectrum
718-553-4832

From: Dan R Leppold <Dan_R_Leppold@raytheon.com>
To: Charles Cassella/AEA/FAA@FAA, Hanley Yu/AEA/FAA@FAA
Date: 06/29/2012 03:53 PM
Subject: Re: Coordination number request DETAILS for the two frequencies

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Hello -- Here it goes: both frequency information (detailed) provided below. Let me know what further is needed for a NGT coordination to be completed with your offices. Thankyou very much.

if needed, please contact me using my cell, as I am moving between buildings 727-366-3617
drl

Dan Leppold
Raytheon NCS
Hardware Engineer
EMI/EMP/TEMPEST/Lightning
RF Safety
Dan_R_Leppold@raytheon.com
727-302-7207 desk
727-366-3617 cell
727-768-8227 (in lab this week)

previously recorded FAA coordination numbers for the same emissions
PIE: 520 kHz NG T070203
Largo: 520 kHz NG T070202

Here is the information from previous 520 kHz coordination correspondence, it is unchanged.

Please report the parameter below in your coordination with the FAA Regional Office:
- Peak envelope power (PEP); **24.21 milliwatts, ERP**
- Type of antenna; **LP105 loop, and VA105 rod**
- Transmit antenna gain; **1.5 dB**
- Elevation above sea level of the antenna site; **est 15 feet**
- Height above ground of the focal point of the antenna; **est 6 feet**
- Antenna polarization; **vertical**
- The azimuth that the antenna is pointed or appropriate designator to indicate whether the antenna is rotating, non-directional, etc.; **non-rotating, directional, will point to the item being radiated.**
- Pulse repetition rate (PRR) that the equipment is capable of operating on to include PRR stagger sequences if appropriate, whether the PRR is adjustable and what PRR's the equipment can accept, and any other information that would be helpful in understanding the pulse characteristics of the equipment; **N/A - no PRR. Continuous wave (CW) operation only**
- Pulse width; **N/A - Continuous wave operation only. On for the small time duration of the measurement (minutes).**
- Equipment nomenclatures; **Low power signal generator is source for antennas**
- Whether the equipment is capable of blanking transmissions in certain azimuths and any limitations with respect to blanking; **N/A**
- Radius of operations if appropriate; **Within Raytheon Property at two designated locations, St. Pete and Largo. (coordinates provided)**
- Detailed description of the proposed operation to include any technical parameters that will be altered during operations. **Licensed emissions are used to evaluate and measure shielding effectiveness of enclosures and buildings within about 10 feet of a "shielded" wall. Signal generator (source) and antenna are on one side, with an equivalent receive antenna and receiver or spectrum analyzer on opposite side. Shielding value is determined by measuring signal strength both with and without the "shielding" wall between the transmitting and the receiving antennas.**

The previous FAA coordination information I can find for the same license transmissions [via Mr. Burchfield] have been:

St. Pete: 1290 MHz SN NG 038737 FAA coord # NG-07-529
Largo: 1290 MHz SN NG 038742 FAA coord # NG-07-530

Here is the information from previous 1290 MHz coordination correspondence, it is unchanged.

Please report the parameter below in your coordination with the FAA Regional Office:
- Peak envelope power (PEP); **770 milliwatts, ERP**
- Type of antenna; **3 types may be used, EMCO 3115 Horn 1-18GHz, EMCO 3102 log spiral 1-10 GHz, EMCO 3105 doubleridged horn 1-12GHz.**
- Transmit antenna gain; **11 (EMCO 3115), 3 (EMCO 3102), 8.5 (EMCO 3105)**
- Elevation above sea level of the antenna site; **est 15 feet**
- Height above ground of the focal point of the antenna; **est 6 feet**
- Antenna polarization; **vertical, horizontal, circular**
- The azimuth that the antenna is pointed or appropriate designator to indicate whether the antenna is rotating, non-directional, etc.; **non-rotating, directional, will point to the item being radiated.**
- Pulse repetition rate (PRR) that the equipment is capable of operating on to include PRR stagger sequences if appropriate, whether the PRR is adjustable and what PRR's the equipment can accept, and any other information that would be helpful in understanding the pulse characteristics of the equipment; **N/A - no PRR. Continuous wave operation only**
- Pulse width; **N/A - Continuous wave operation only. No interrogations - no other mode operations. only CW transmit at 1290 MHz for the small time duration of the measurement (minutes).**
- Equipment nomenclatures; **Low power signal generator is source for antennas**
- Whether the equipment is capable of blanking transmissions in certain azimuths and any limitations with respect to blanking; **N/A**
- Radius of operations if appropriate; **Within Raytheon Property at two designated locations, St. Pete and Largo. (coordinates provided below)**
- Detailed description of the proposed operation to include any technical parameters that will be altered during operations. **Licensed emissions are used to evaluate and measure shielding effectiveness of enclosures and buildings within about 10 feet of a "shielded" wall. Signal generator (source) and antenna are on one side, with an equivalent receive antenna and receiver or spectrum analyzer on opposite side. Shielding value is determined by measuring signal strength both with and without the "shielding" wall between the transmitting and the receiving antennas.**

EOM

drl

From: Dan R Leppold/STP/Raytheon/US
To: Thomas.Ahn@faa.gov
Cc: "Charles Cassella" <Charles.Cassella@faa.gov>, "Hanley Yu" <hanley.yu@faa.gov>
Date: 06/29/2012 03:42 PM
Subject: Coordination number request information

All --- Here is the previous coordination numbers and a copy of the most recent license with locations and power levels,

drl

This "new" license is a re-submittal of our license WD2XBD, which we have held for some years. Because I was late in renewing our license with the FCC, it has lapsed and so I am having to submit the same information, but for a new license.

The previous FAA coordination information I can find for the same license transmissions [via Mr. Burchfield southern faa...] x6672 (maybe retired?) have been:

PIE: 520 kHz NG T070203
Largo: 520 kHz NG T070202

and

St. Pete: 1290 MHz SN NG 038737 FAA coord # NG-07-529
Largo: 1290 MHz SN NG 038742 FAA coord # NG-07-530

From: Thomas.Ahn@faa.gov
To: "Dan R Leppold" <Dan_R_Leppold@raytheon.com>
Cc: "Hanley Yu" <hanley.yu@faa.gov>, "Charles Cassella" <Charles.Cassella@faa.gov>
Date: 06/29/2012 03:33 PM
Subject: Re: Email from Radio Frequency Page Contact Area

For the 1290 MHz part, you need to contact Hanley Yu, and for the 520 KHz case, you need to talk to Charles Cassella.

Just in case, what state the transmitter is located?

Sincerely

From: Dan R Leppold [Dan_R_Leppold@raytheon.com]
Sent: 06/29/2012 03:22 PM AST
To: Thomas Ahn
Subject: Re: Email from Radio Frequency Page Contact Area

Hello - THANKYOU for the quick response. there are two:

per FCC request, I need to request coordination of transmissions with you in the range of 510 - 535 kHz and 1215-1390 MHz and obtain NGT number(s) as a part of the FCC granting process.

Specific frequencies the FCC requested FAA coordination for are: 520 kHz and 1290 MHz.

drl

Dan Leppold
Raytheon NCS
Hardware Engineer
EMI/EMP/TEMPEST/Lightning
RF Safety
Dan_R_Leppold@raytheon.com
727-302-7207 desk
727-366-3617 cell
727-768-8227 (in lab this week)

From: Thomas.Ahn@faa.gov
To: "dan_leppold" <dan_leppold@raytheon.com>
Date: 06/29/2012 03:06 PM
Subject: Re: Email from Radio Frequency Page Contact Area

What frequency are you talking about?

----- Original Message -----
From: dan_leppold
Sent: 06/29/2012 02:58 PM AST
To: Thomas Ahn
Subject: Email from Radio Frequency Page Contact Area

This email was sent through the Federal Aviation Administration's public website.
You have been contacted via an email link on the following page:
http://www.faa.gov/about/office_org/headquarters_offices/ato/service_units/techops/spec_management/engineering_office/rfb.cfm

Message:

Hello - I urgently need some assistance. I am trying to reach FAA southern region frequency managment officer / personnel who can assist me in coordinating frequency usage in florida so I can obtain a NGT number. I have left multiple messages, and am not getting any response. Can you help put me in contact with a person who can assist me.
Thankyou very much
Dan Leppold
CEL 727-366-3617
LAB DESK 727-768-8227
EM ENGINEER