From: Ferguson, Robert E
Sent: Tuesday, August 29, 2006 2:00 PM
To: Holtmeyer, Darryl J
Cc: Miller, Rex D; Douglass, Bob; Johnston, John P; Mains, Marc E; Boggs, William B
Subject: RE: SBInet REMBASS II Seismic Sensor

As Bill Boggs noted in the telecon this afternoon, we can limit the Rembass Seismic sensors to three channels if this will help us get through the FCC/NTIA. We had earlier identified 140, 145 and 150 MHz as acceptable for our testing.

Bob F.

From: Ferguson, Robert E
Sent: Wednesday, July 19, 2006 3:58 PM
To: Mains, Marc E
Cc: Miller, Rex D; Douglass, Bob; Holtmeyer, Darryl J; Johnston, John P; Adams, Courtney W
Subject: SBInet REMBASS II Seismic Sensor

Marc

These units are seismic/acoustic sensors similar to the Monitron and Qual-tron units that were submitted in the first STA along with the MSTAR Radar. The manufacturer of these units is L3 Communication Systems and their product designation is Remotely Monitored Battlefield Sensor System (REMBASS) II. Their JF-12 information is enclosed.

We plan to use the seismic/acoustic sensors (MK-2965) and the receiver (AN/PSQ-16). We do not plan to test with the repeater (RT-1175C). These units operate in selectable frequencies from 138.025 to 152.975 MHz. To stay consistent with the other units, we plan to operate at 140, 145 and 150 MHz. Like the other seismic sensors these are low power (2W) and transmit a short pulse of 27 milliseconds in response to a detection event. Detection events should not exceed approximately 15-20 per hour during testing.

We have identified 6 zones on the Boeing property for testing of the seismic sensors. The sensors will be buried at various locations within these zones. Each of these zones will be used to support testing of different detection scenarios (foot traffic, vehicles, etc). I have provided a graphical summary of the 6 zones in the attached PowerPoint file. Page two to this file is an enlargement of the Boeing property shown on the first page. The Lat/Long data for these 6 zones is summarized as follows:

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Zone 1 (center)  34°37'23.29"N, 86°46'42.22"W
Zone 2 (center)  34°37'38.17"N, 86°46'21.12"W
Zone 3 (center)  34°37'42.49"N, 86°46'41.93"W
Zone 4 (center)  34°37'46.11"N, 86°46'41.93"W
Zone 5 (along a line south of the road) from  34°38'0.30"N,
86°46'34.68"W
                                          to  34°38'0.30"N,
86°46'14.45"W
Zone 6 (pecan grove, vertices starting northeast and going clockwise)
        NE vertex 34°38'6.48"N,  86°46'11.23"W
        SE vertex 34°38'2.12"N,  86°46'11.23"W
        SW vertex 34°38'2.12"N,  86°46'23.17"W
        NW vertex 34°38'6.48"N,  86°46'23.17"W
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If there is any additional data that is needed to support the STA please let me know.

Bob F

(256) 468-2106

<< File: Seismic Sensor Matrix.ppt >> << File: Freq Allocation application.pdf >>