

## FREQUENCY & TIMING REQUEST EXPLANATION

Special Temporary Authority Application – Shipcom LLC - Oct. 2014

### Background:

As a follow up to the Waiver, DA 10-831 (Shipcom), and as part of the plan to ensure efficient emergency services communications are available in the event of a major disaster, Shipcom LLC is in the process of improving and testing it's ability to provide effective and highly reliable communications services, using existing licensed spectrum, to maritime and land based emergency services during times of such major disasters that disrupt normal communications. With this in mind Shipcom it is currently preparing to apply for new licenses at the 4 locations listed below (licensed sites owned by Rockwell Collins/Arinc) to use frequencies already licensed to Shipcom locations as listed by call signs hereunder.

No new frequencies are being requested. Only frequencies that are already licensed to Shipcom locations are being requested for use at 4 new locations. The intent is not to add new spectrum or capacity but to ensure, through geographic diversity, guaranteed coverage and especially in times of emergency and in all day/night and propagation conditions.

### Reason for STA Application:

Interested agencies have requested to see proof of this concept starting on October 20<sup>th</sup> 2014. Shipcom is preparing applications to add these locations to the relevant licenses. However due to the very short time to Oct 20<sup>th</sup>, an interim STA is being requested to allow for the use of the listed frequencies at the 4 new locations pending the filing and granting of the relevant licenses. October 20, 2014, was selected as a start date for two reasons:

- 1) Experts have predicted difficult propagation conditions starting on or around that date. Consequently this is an ideal time to prove the value of the geographic diversity concept and suitable equipment already exists at these particular locations.
- 2) Independent expert observers will be available from that date.

The STA is intended to be used to prove the validity of the concept of secure and reliable HF communications in all conditions and at all times if and when required in a major emergency.

Test operations authorized by the STA will be monitored to endure that no interference to maritime operations or any other services or operations is being generated.

Frequency list (Frequencies already licensed at Shipcom locations as indicated)

2K80J3E in all cases. Max power 1,000 W

These frequencies are also listed under each LOCATION on the ULS STA Application

The call signs indicate that these frequencies are license that those locations.

2.6810 WLO

4.2354 WLO WSC KLB KNN KDD

4.3704 WLO KLB

4.4124 WLO KLB

6.3370 WLO KLB WSC KNN  
6.5114 KDD  
6.5204 WLO

7.3060 WLO  
7.3170 WLO  
7.3200 WLO

8.0869 KNN  
8.2924 WLO  
8.7144 WLO  
8.7414 KLB  
8.7234 KDD WCL WSC KLB  
8.7324 WSC KLB  
8.7594 KDD

10.1630 WLO KLB  
10.1720 WLO

13.0844 KNN  
13.1024 WSC KLB KDD  
13.1534 WLO KLB

17.2884 KNN KDD  
17.3124 KLB

18.1794 KLB KDD  
18.6910 WLO

19.7564 KLB

22.7394 WLO KLB  
26.1524 WLO

The new locations requested per the STA applicatins are:

Cedar Rapids	IA	WF2XMP	(EXP Lic)	41 57 41.0N 090 53 37.0W
Richardson,	TX	WPXA329	(ULS lists ASR as N/A)	32 59 48.4N 096 36 52.0W
Riverhead,	NY	KEA5	(ASR 1007030)	40 52 54.2N 072 38 14.6W
Dixon,	CA	KMA7	(ASR 1209304)	38 22 39.5N 121 45 47.0W

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