

Department of Defense (DoD)
Agency: Army
Transition Plan for the 1695 -1710 MHz Band

Primary Point of Contact: Stevan Jovanevic
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Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

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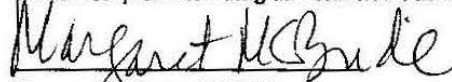
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Certification regarding Classified and Sensitive Information:

I, Margaret McBride, certify that this transition plan, is cleared for release to the public and contains no classified or sensitive information. A separate version of this transition plan including all sensitive data is provided under separate cover via authorized channels.



Name: Margaret McBride
Title: Public Affairs Officer
Organization: Army CIO/G-6

05-23-2014
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Certification regarding Classified and Sensitive Information:

I, **[Name of Responsible Authority]**, certify that this transition plan, is cleared for release to the public and contains no classified or sensitive information. A separate version containing a complete transition plan including all sensitive data is provided under separate cover via authorized channels.

Name:

Title:

Organization:

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DOD Transition Plan for 1695-1710 MHz Band
 Tab B: General Information
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1	This Transition Plan includes pre-auction planning costs, as defined in Section O.2 of Annex O:		
	a. Total pre-auction planning costs (\$M):	\$0.000	
	b. The subtotal amount, if any, of pre-auction planning costs requested for pre-auction transfer (\$M):	\$0.000	
	c. The subtotal amount, if any, of pre-auction planning costs incurred after June 28, 2010, but before February 22, 2012 (\$M):	\$0.000	
	d. This organization attests that:		
	[1] To the fullest extent possible, this transition plan provides for sharing and coordination of eligible frequencies with non-federal users, including reasonable accommodation for the use of eligible frequencies by non-federal users during the transition period.	Yes	
	[2] This transition plan provides for non-federal users to be able to use eligible frequencies during the transition period in geographic areas where this organization does not use such frequencies.	Yes	
	[3] During the transition period, this organization will make itself available for negotiation and discussion with non-federal users not later than 30 days after a written request.	Yes	
	[4] During the transition period, this organization will make available to a non-federal user with appropriate security clearances any classified information regarding the relocation process, on a need-to-know basis.	Yes	
	[5] (Only applicable if the amount in 1b above is greater than \$0.00.) Funds transferred before an auction likely allow for timely implementation of relocation or sharing, thereby increasing net expected auction proceeds by an amount not less than the time value of the amount of funds transferred.	Yes	
2	There is additional information required to be included in the Transition Plan that is not included in this document because it is classified information, as defined in Section O.7 of Annex O.	No	
3	There is additional information required to be included in the Transition Plan that is not included in this document because it is <u>sensitive</u> information, as defined in Section O.7 of Annex O.	No	
4	a. Name of Responsible Officer:	Stevan Jovancevic	
	b. (Optional) Office:		
	c. (Optional) Telephone Number:		
	d. (Optional) E-mail:		
5	Total Transition Plan Cost (\$M):	\$64.121	

DOD Transition Plan for 1695-1710 MHz Band
 Tab C: Abstract
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Serial Number	Center Freq./ Lower Band Limit (MHz)	Upper Band Limit (MHz) (if app)	Emission Bandwidth (20 dB) (MHz)	Rx IF Bandwidth (3 dB) (MHz)	Bureau	System Use	System Name	Authorized Area of Operation	TX State	TX Latitude	TX Longitude	RX State	RX Latitude	RX Longitude	Sharing/ Relocation	Alternate Frequency Assignment	Transition Timeline (Months)
C050522	1694.5		0.4	1.5	USACE	METSAT	Cincinnati, OH - GOES RCVR	OH Cincinnati	SPC	000000N	0750000W	OH	390610N	843035W	Indefinite	N/A	39
C050522	1694.5		0.4	1.5	USACE	METSAT	Columbus Lake, MS - GOES RCVR	MS Columbus Lake	SPC	000000N	0750000W	MS	333204N	883005W	Indefinite	N/A	39
C050542	1694.5		0.4	1.5	USACE	METSAT	Omaha, NE - GOES RCVR	NE Omaha	SPC	000000N	1350000W	NE	412056N	955734W	Indefinite	N/A	39
C050522	1694.5		0.4	1.5	USACE	METSAT	Rock Island, IL - GOES RCVR	IL Rock Island	SPC	000000N	0750000W	IL	413104N	903346W	Indefinite	N/A	39
C050542	1694.5		0.4	1.5	USACE	METSAT	Rock Island, IL - GOES RCVR	IL Rock Island	SPC	000000N	1350000W	IL	413057N	903352W	Indefinite	N/A	39
C050522	1694.5		0.4	1.5	USACE	METSAT	St Louis, MO - GOES RCVR	MO St Louis	SPC	000000N	0750000W	MO	383526N	901225W	Indefinite	N/A	39
C050522	1694.5		0.4	1.5	USACE	METSAT	Vicksburg, MS - GOES RCVR	MS Vicksburg	SPC	000000N	0750000W	MS	322047N	905010W	Indefinite	N/A	39
C050542	1694.5		0.4	1.5	USACE	METSAT	Sacramento, CA - GOES RCVR	CA Sacramento	SPC	000000N	1350000W	CA	383550N	1213234W	Indefinite	N/A	39

DOD Transition Plan for 1695-1710 MHz Band
Tab D: Transition Timeline - UNCLASSIFIED

Timeline (Months after Transition Start)				
Serial Number	Geographic Location	Temporary Sharing	Indefinite Sharing	Vacate Assignment
C050522	OH Cincinnati		39	
C050522	MS Columbus Lake		39	
C050542	NE Omaha		39	
C050522	IL Rock Island		39	
C050542	IL Rock Island		39	
C050522	MO St Louis		39	
C050522	MS Vicksburg		39	
C050542	CA Sacramento		39	

DOD Transition Plan for 1695-1710 MHz Band
 Tab E: Plan and Timeline for using Funds (SRF)

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System Name	System ID	Total Pre-Auction Costs (\$M)	Pre-Auction Transfer Requested (\$M)	Pre-Auction Costs Incurred between 6-28-2010 and 2-22-2012 (M)	Equipment-Related Costs (\$M)	Deployment-Related Costs (\$M)	Total Cost for System (\$M)	Begin Expenditure of Funds	End Expenditure of Funds (in months)	Costs Associated with Expanded Capability	Description of Expanded Capability	Explanation/ Justification
Sacramento, CA - GOES RCVR	AR-1				\$ 2.247	\$ 3.408	\$ 5.655	1	120			Monitoring Capability
Rock Island, IL - GOES RCVR	AR-2				\$ 3.361	\$ 3.840	\$ 7.201	1	120			Monitoring Capability
St Louis, MO - GOES RCVR	AR-3				\$ 2.323	\$ 3.111	\$ 5.434	1	120			Monitoring Capability
Columbus Lake, MS - GOES RCVR	AR-4				\$ 2.323	\$ 3.111	\$ 5.434	1	120			Monitoring Capability
Vicksburg, MS - GOES RCVR	AR-5				\$ 2.323	\$ 3.111	\$ 5.434	1	120			Monitoring Capability
Omaha, NE - GOES RCVR	AR-6				\$ 2.407	\$ 2.954	\$ 5.360	1	120			Monitoring Capability
Cincinnati, OH - GOES RCVR	AR-7				\$ 2.323	\$ 3.111	\$ 5.434	1	120			Monitoring Capability
Monitoring System - Hub	AR-8				\$ 1.025	\$ 12.113	\$ 13.138	1	120			Monitoring Capability
1695-1710 MHz Army deployment related costs	AR-9					\$ 8.560	\$ 8.560	1	120			Deployment related Costs include the following Estimates Per System: Hardware Filters \$ 70 K, R and D \$ 250K, Travel \$ 140K, Electronic Fence \$ 200 K per site, Engineering Analysis \$ 185K, Monitoring Effort \$ 225K
1695-1710 MHz Portal (ITS)	AR-10					\$ 2.220	\$ 2.220	1	120			NOAA managed portal development and operation is estimated to cost \$20 million over 10 years. The DoD share of this cost is one-third (\$6.67 million). The Army share of the DoD cost is one-third (\$2.22 million). The Army also has additional coordination costs for coordination, analysis results verification, and interface required between site level and industry entities.
Management, Oversight, Engineering Support (Army Spectrum Mgt Office)	AR-11					\$ 0.250	\$ 0.250	1	120			Additional ASMO Support: Staff Engineers, Reporting, Assigners, Analysis, and Staff Support required for facilitating, reporting, regulatory, planning and travel.

DOD Transition Plan for 1695-1710 MHz Band

Tab F: NTIA Interactions

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Interaction required with NTIA to implement this Transition Plan	
1	<u>Federal Communications Commission (FCC) band allocation rules development and adoption.</u> The allocation for and use of this band by non-federal fixed and mobile users will require the development of specific technical rules governing non-federal operations, such that sharing of the band between federal and non-federal users is feasible and jointly successful. The development of these rules does not appear to have been initiated at this time and are expected to be completed some months after the submission of this Transition Plan. These rules must be adopted prior to the auction of the 1695-1710 MHz band such that potential licensees are fully aware of the requirements that they must comply with to begin operations in the band.
2	Development of Coordination Guidelines For Federal Agencies and Industry: Given the fact that most federal operations will still be in the band upon the award of licenses by the FCC and some federal operations will continue indefinitely in the band, specific coordination guidelines must be developed and published by NTIA (for federal agencies) and the FCC (for non-federal licensees). The formal development of these coordination procedures has not yet begun by NTIA and the FCC, but they will be essential to any early entry by licensees as well as for the long term sharing coordination that will be required.
3	We need to add the protected receive site information to the Commerce Assignment identified in Tab C.

DOD Transition Plan for 1695-1710 MHz Band

Tab G: Identification of Excluded Classified and Sensitive Information - UNCLASSIFIED

Serial Number	Description of Classified or Sensitive Information	Reason for Exclusion	Reference
	None		

DOD Transition Plan for 1695-1710 MHz Band

Tab H: Factors that could Impact Fulfillment of Transition Plan - UNCLASSIFIED

	Factor	Impact on Fulfillment of Transition Plan
1	Spectrum Monitoring Equipment	We cannot implement and execute this transition plan without spectrum monitoring systems at our installations.
2	Timeline Conditions	All timelines in this plan are based on the assumption that funding will be received three months after the close of the auction. Should the receipt of funds change, timelines may need to be adjusted accordingly.
3	Incumbent Support	Incumbents will support interference testing to determine feasibility of co-existence and necessary equipment alterations, and they will support as necessary to address interference issues.
4	Follow-on System Schedule and Operational Capability	If NOAA realizes delays or failures in follow-on weather satellite systems, then reliance on legacy GOES and POES systems must be sustained for DoD operations and resource protection.

DOD Transition Plan for 1695-1710 MHz Band

Tab I: Additional Information - UNCLASSIFIED

1	The Department of Commerce (NOAA) needs to add the Army Corps of Engineering MetSat Receiver locations to the associated Department of Commerce (NOAA) joint assignment and that this effort is in process to ensure that the Transition Plan is not at risk of beign rejected by NTIA or the Technical Panel.
2	The IF Bandwidth is 1.5 MHz for the MetSat Systems and the Emission BW is understood to be 0.4 MHz.