

Releasable

DOD\AR 1695-1710 (Rev. 0) (Sufficient)

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DOD\AR 1695-1710 (Rev. 0) (Sufficient) - Freq-Geo Transition Timeline

Serial Number	System Name	Center Lower Frequency (MHz)	Upper Frequency (MHz)	Emission Bandwidth (MHz)	Receiver Bandwidth	System Use Type Name	Operation Area	Transmitter State	Transmitter Latitude	Transmitter Longitude
AR-1-C050542	Sacramento, CA - GOES RCVR	1694.5		0.4	1.5	MetSat	Sacramento, CA	SPC	xxxxxxx	xxxxxxx
AR-2-C050522	Rock Island, IL - GOES RCVR	1694.5		0.4	1.5	MetSat	Rock Island, IL	SPC	xxxxxxx	xxxxxxx
AR-2-C050542	Rock Island, IL - GOES RCVR	1694.5		0.4	1.5	MetSat	Rock Island, IL	SPC	xxxxxxx	xxxxxxx
AR-3-C050522	St Louis, MO - GOES RCVR	1694.5		0.4	1.5	MetSat	St Louis, MO	SPC	xxxxxxx	xxxxxxx
AR-4-C050522	Columbus Lake, MS - GOES RCVR	1694.5		0.4	1.5	MetSat	Columbus Lake, MS	SPC	xxxxxxx	xxxxxxx
AR-5-C050522	Vicksburg, MS - GOES RCVR	1694.5		0.4	1.5	MetSat	Vicksburg, MS	SPC	xxxxxxx	xxxxxxx
AR-6-C050542	Omaha, NE - GOES RCVR	1694.5		0.4	1.5	MetSat	Omaha, NE	SPC	xxxxxxx	xxxxxxx
AR-7-C050522	Cincinnati, OH - GOES RCVR	1694.5		0.4	1.5	MetSat	Cincinnati, OH	SPC	xxxxxxx	xxxxxxx

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Serial Number	Receiver State	Receiver Latitude	Receiver Longitude	Alternate Frequency Assignment	Geographic Location associated with Timeline	Sharing Type	Indefinite Sharing Timeline (Months after 1/30/15)	Temporary Sharing Timeline (Months after 1/30/15)	Vacate Assignment Timeline (Months after 1/30/15)
AR-1-C050542	CA	383550N	1213234W	N/A	Sacramento, CA	Indefinite	39		
AR-2-C050522	IL	413104N	0903346W	N/A	Rock Island, IL	Indefinite	39		
AR-2-C050542	IL	413057N	0903352W	N/A	Rock Island, IL	Indefinite	39		
AR-3-C050522	MO	383526N	0901225W	N/A	St Louis, MO	Indefinite	39		
AR-4-C050522	MS	333204N	0883005W	N/A	Columbus Lake, MS	Indefinite	39		
AR-5-C050522	MS	322047N	0905010W	N/A	Vicksburg, MS	Indefinite	39		
AR-6-C050542	NE	412056N	0955734W	N/A	Omaha, NE	Indefinite	39		
AR-7-C050522	OH	390610N	0843035W	N/A	Cincinnati, OH	Indefinite	39		

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DOD\AR 1695-1710 (Rev. 0) (Sufficient) - Funds

System Name	Total Pre-Auction Cost (\$M)	Pre-Auction Transfer Requested (\$M)	Pre-Auction Cost Pre-2012 (\$M)	Equipment Cost (\$M)	Deployment Cost (\$M)	Total Cost (\$M)	Begin Expenditure Timeline (Months)	End Expenditure Timeline (Months)
1695-1710 MHz Army deployment related costs	0.0000	0.0000	0.0000	0.0000	8.5600	8.5600	1	120
1695-1710 MHz Portal (ITS)	0.0000	0.0000	0.0000	0.0000	2.2200	2.2200	1	120
Cincinnati, OH - GOES RCVR	0.0000	0.0000	0.0000	2.3229	3.1111	5.4340	1	120
Columbus Lake, MS - GOES RCVR	0.0000	0.0000	0.0000	2.3229	3.1111	5.4340	1	120
Management, Oversight, Engineering Support (Army Spectrum Mgt Office)	0.0000	0.0000	0.0000	0.0000	0.2500	0.2500	1	120
Monitoring System - Hub	0.0000	0.0000	0.0000	1.0250	12.1132	13.1382	1	120
Omaha, NE - GOES RCVR	0.0000	0.0000	0.0000	2.4066	2.9538	5.3604	1	120
Rock Island, IL - GOES RCVR	0.0000	0.0000	0.0000	3.3611	3.8403	7.2014	1	120
Sacramento, CA - GOES RCVR	0.0000	0.0000	0.0000	2.2469	3.4081	5.6550	1	120
Sequestration	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
St Louis, MO - GOES RCVR	0.0000	0.0000	0.0000	2.3229	3.1111	5.4340	1	120
Vicksburg, MS - GOES RCVR	0.0000	0.0000	0.0000	2.3229	3.1111	5.4340	1	120
Total	0.0000	0.0000	0.0000	18.3312	45.7898	64.1210		

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System Name	Expanded Capability Cost (\$M)	Expanded Capability Description	Expanded Capability Justification
1695-1710 MHz Army deployment related costs			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)			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.
Cincinnati, OH - GOES RCVR			Monitoring Capability
Columbus Lake, MS - GOES RCVR			Monitoring Capability
Management, Oversight, Engineering Support (Army Spectrum Mgt Office)			Additional ASMO Support: Staff Engineers, Reporting, Assigners, Analysis, and Staff Support required for facilitating, reporting, regulatory, planning and travel.
Monitoring System - Hub			Monitoring Capability
Omaha, NE - GOES RCVR			Monitoring Capability
Rock Island, IL - GOES RCVR			Monitoring Capability; Includes two separate ground receive sites
Sacramento, CA - GOES RCVR			Monitoring Capability
Sequestration	0.0000		
St Louis, MO - GOES RCVR			Monitoring Capability
Vicksburg, MS - GOES RCVR			Monitoring Capability
Total	0.0000		

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DOD\AR 1695-1710 (Rev. 0) (Sufficient) - Interactions

Interaction Name	Interaction Description
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.

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DOD\AR 1695-1710 (Rev. 0) (Sufficient) - Impact Factors

Factor Name	Factor Description
1. Federal Communications Commission (FCC) band allocation rules development and adoption	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. Update Commerce Assignments	We need to add the protected receive site information to the Commerce Assignment identified in Tab C.

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Note Name	Note Text
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.

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DOD\AR 1695-1710 (Rev. 0) (Sufficient) - Excluded Info

Table	Row	Column	Agency Marking	Reference
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