



UNITED STATES DEPARTMENT OF COMMERCE
National Telecommunications and
Information Administration
Washington, D.C. 20230

MAY 13 2014

The Honorable Tom Wheeler
Chairman
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

RE: Notice of Estimated Relocation or Sharing Costs and Timelines for the 1695-1710 MHz and 1755-1780 MHz Bands

Dear Chairman Wheeler:

Pursuant to Section 113(g)(4)(A) of the National Telecommunications and Information Administration (NTIA) Organization Act, as amended (47 U.S.C. § 923(g)(4)(A)), please find enclosed the initial estimated relocation or sharing costs and timelines for the 1695-1710 MHz and the 1755-1780 MHz spectrum bands (eligible frequencies). NTIA, on behalf of the eligible federal entities listed in Attachment A, hereby notifies the Federal Communications Commission (FCC) of these initial cost and timeline estimates, which must occur at least six (6) months prior to commencement of the FCC's auction of the eligible frequencies. In addition, pursuant to Section 113(g)(5) of the NTIA Organization Act, as amended (47 U.S.C. § 923(g)(5)), NTIA is concurrently providing a copy of these estimates to the Committees on Appropriations and Energy and Commerce of the House of Representatives for approval, to the Committees on Appropriations and Commerce, Science, and Transportation of the Senate for approval, and to the Comptroller General.¹

On March 20, 2013, also pursuant to Section 113(g)(4)(A), the FCC notified NTIA of the FCC's plans to commence an auction of the eligible frequencies as early as September 2014.² The federal entities listed in Attachment A submitted transition plans to NTIA and the Technical Panel established by Section 113(h)(3)(A) of the NTIA Organization Act, as amended (47 U.S.C. § 923(h)(3)(A)), and governed by Subpart B of Part 301, Title 47, Code of Federal Regulations. NTIA compiled and consolidated the enclosed estimated relocation or sharing costs and timelines based on the estimated costs and timelines contained in the agency transition plans that the Technical Panel found sufficient.³ Pursuant to Section 113(g)(4)(A), the initial estimates

¹ Unless disapproved within 30 days, the estimate shall be approved. If disapproved, NTIA may resubmit a revised initial estimate. 47 U.S.C. § 923(g)(5).

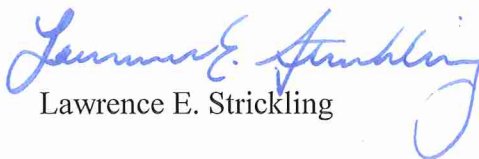
² See Letter from Julius Genachowski, Chairman, FCC, to Hon. Lawrence E. Strickling, Assistant Secretary for Communications and Information, Dep. of Commerce (Mar. 20, 2013). The FCC must notify NTIA at least 18 months prior to the commencement of the auction of eligible frequencies. 47 U.S.C. § 923(g)(4)(A).

³ See 47 U.S.C. § 923(h)(4). Not later than 120 days before the commencement of the auction of the eligible frequencies, NTIA will publish the publicly available transition plans on our website. See 47 U.S.C. § 923(h)(5); see also *id.* § 923(h)(7) and NTIA Manual of Regulations and Procedures for Federal Radio Frequency Management, Annex O at § O.7 (Classified and Other Sensitive Information).

have been reviewed by the Office of Management and Budget (OMB).⁴ Attachment B1 provides the estimates for the 1695-1710 MHz band and Attachment B2 provides the estimates for the 1755-1780 MHz band.⁵

NTIA commends the FCC's representative on the Technical Panel for her diligence and valuable contributions, along with the OMB and NTIA representatives, to the entire transition planning and review effort. We look forward to further collaboration with the FCC and the agencies to ensure a timely and successful auction and a smooth transition. Conducting this auction is another important step in meeting the President's goal of making available 500 megahertz of spectrum for commercial broadband services. If you have any questions regarding this matter, please contact Karl Nebbia, NTIA's Associate Administrator of the Office of Spectrum Management, at 202-482-1850.

Sincerely,



Lawrence E. Strickling

Enclosures (3)

⁴ Independently, pursuant to 47 U.S.C. § 928(d)(2)(B)-(C), OMB is required to review the "appropriateness" of the initial estimates and to submit, at least 30 days before any funds can be transferred from the Spectrum Relocation Fund (SRF), to these congressional committees and to the Comptroller General a detailed plan describing specifically how the sums transferred from the SRF will be used to pay relocation or sharing costs, and the timelines for such relocation or sharing.

⁵ These attachments include, on behalf of the eligible federal entities, two "timelines" addressed in the statute. The "Transition Timeline" is the estimated maximum number of months from the start of the transition period (*i.e.*, the date on which the auction concludes) and when relocation will be complete or when coordination within protection zones is expected to begin pursuant to applicable sharing criteria and arrangements. *See* 47 U.S.C. § 923(h)(2)(D)). The "Timeline for Funds" identifies the estimated time period during which each federal entity will begin using amounts from the SRF and when it will end the use of such funds (represented in the number of months after transfer from the SRF). *See id.* § 923(h)(2)(G).

Attachment A

1695-1710 MHz Eligible Federal Entities

United States Department of Commerce
United States Department of Defense, United States Air Force
United States Department of Defense, United States Army
United States Department of Defense, United States Navy/Marine Corps
United States Department of the Interior

1755-1780 MHz Eligible Federal Entities

National Aeronautics and Space Administration
Other (Classified)
United States Agency for International Development
United States Capitol Police
United States Department of Commerce
United States Department of Defense, Defense Spectrum Organization/Chief Information Officer
United States Department of Defense, United States Air Force
United States Department of Defense, United States Army
United States Department of Defense, United States Navy/Marine Corps
United States Department of Energy
United States Department of Homeland Security
United States Department of Housing and Urban Development
United States Department of Justice
United States Department of the Interior, National Park Service
United States Department of the Interior, United States Geological Service
United States Department of the Treasury
United States Department of Transportation, Federal Aviation Administration
United States Department of Veterans Affairs

Attachment B1

Initial Estimated Costs and Timelines for the 1695-1710 MHz Band (5/12/2014)

Entity	MetSat		GOES-R		Radiosondes		Timeline for Funds** (months)	Total Estimated Costs (\$M)
	TTL* (mos.)	Costs (\$M)	TTL* (mos.)	Costs (\$M)	TTL* (mos.)	Costs (\$M)		
DOC	39	179.474	N/A	3.690	N/A	80.139	72	263.303
DOD Air Force	39	88.976					120	88.976
DOD Army	39	64.121					120	64.121
DOD Navy/MC	39	76.344					120	76.344
DOI	39	34.325					75	34.325
Total Estimated Costs (\$M)		443.240		3.690		80.139		527.069

<u>Federal Entity Abbreviations</u>	<u>System Description</u>
<p>DOC: Department of Commerce</p> <p>DOD Army: Department of Defense, United States Army</p> <p>DOD Navy/MC: Department of Defense, United State Navy/Marine Corps</p> <p>DOD Air Force: Department of Defense, United States Air Force</p> <p>DOI: Department of the Interior</p>	<p>MetSat: Ground receive sites for Meteorological Satellites</p> <p>GOES-R: Geostationary Operational Environmental Satellite</p> <p>Radiosondes: Upper-air sensors used in weather forecasting</p>

* The "Transition Timeline" (TTL) is the estimated maximum number of months from the start of the transition period (the date on which the auction concludes) and when coordination within protection zones is expected to begin pursuant to applicable sharing criteria and arrangements. The conclusion of the auction is the date on which an auction of eligible frequencies concludes in accordance with Section 309(j)(16)(B) of the Communications Act of 1934, as amended.

** The "Timeline for Funds" identifies the estimated maximum time period during which the federal entity will use amounts received from the Spectrum Relocation Fund (SRF) for these systems (represented by the number of months after transfer from the SRF when the entity estimates it will complete using SRF funds).

Attachment B2
Initial Estimated Costs and Timelines for the 1755-1780 MHz Band
(5/12/2014)

Entity	Microwave		TRR		ACTS		PGM		Video		TT&C (SatOps)		AMT		Robotics		UAS		Misc. Systems		Other Costs (\$M)	Timeline for Funds,** (months)	Total Estimated Costs (\$M)
	TTL* (mos.)	Costs (\$M)	TTL* (mos.)	Costs (\$M)	TTL* (mos.)	Costs (\$M)	TTL* (mos.)	Costs (\$M)	TTL* (mos.)	Costs (\$M)	TTL* (mos.)	Costs (\$M)	TTL* (mos.)	Costs (\$M)	TTL* (mos.)	Costs (\$M)	TTL* (mos.)	Costs (\$M)					
DOD Army	39	43,200	12	17,700					36	30,650			39	27,700	24	0,000	63	532,879	18	0,000	57,692	120	709,821
DOD Navy/MC			60	157,569	63	12,359	48	41,177	51	0,000	12	0,982	105	107,170	48	127,743	48	232,082	87	636,617	81,263	120	1,396,962
DOD Air Force					66	68,153			66	7,703	12	24,966	120	348,427	66	4,646	66	36,829	12	0,000	53,237	123	543,961
DOD DSO/CIO																					247,000	120	247,000
DHS	36	4,269							42	459,601											26,275	80	490,145
DOJ	30	3,000							42	1089,284												96	1,104,330
DOC	22	0,350															9	0,000				60	0,350
DOI USGS	36	37,068																				72	37,068
DOI NPS									24	8,946												30	8,946
DOE	30	6,800																				48	6,800
DOT FAA	12	0,433																				60	0,433
HUD									24	0,024												21	0,024
NASA													21	1,537								18	1,537
Treasury									12	7,801												60	7,801
VA									15	0,275												12	0,275
USAID									0	0,150												3	0,150
USCP									12	0,000												N/A	-
Other																					20,000	120	20,000
Total Estimated Costs (\$M)		95,120		175,269		80,512		41,177		1,604,434		25,948		484,834		136,349		809,876		636,617	485,467		4,575,603

<u>Federal Entity Abbreviations</u>	<u>System Description</u>
DOD Army: Department of Defense, United States Army	Microwave: Fixed Point-to-Point Microwave Systems
DOD Navy/MC: Department of Defense, United State Navy/Marine Corps	TRR: Tactical Radio Relay
DOD Air Force: Department of Defense, United States Air Force	ACTS: Air Combat Training Systems
DOD DSO/CIO: Department of Defense, Defense Spectrum Organization/Chief Information Officer	PGM: Precision Guided Munitions
DHS: United States Department of Homeland Security	Video: Video Surveillance
DOJ: United States Department of Justice	TT&C (SatOps): Satellite Telecommand, Tracking and Command (TT&C) Operations
DOC: United States Department of Commerce	AMT: Aeronautical Mobile Telemetry
DOI USGS: United States Department of the Interior, United States Geological Service	Robotics: Land Robotic Video Systems
DOI NPS: United States Department of the Interior, National Park Service	UAS: Unmanned Aerial Systems
DOE: United States Department of Energy	Misc Systems: Operations other than those described above, including testing, training, and exercises involving Electronic Warfare, use of Software Defined Radio systems, and Tactical Targeting Networking Technology.
DOT FAA: Department of Transportation, Federal Aviation Administration	
HUD: United States Department of Housing and Urban Development	
NASA: National Aeronautics and Space Administration	
Treasury: United States Department of the Treasury	
VA: United States Department of Veterans Affairs	<u>Other Costs</u> : Estimated costs not directly tied to a particular system, such as for transition support and program management identified by the federal entity. (May include classified systems.)
USAID: United States Agency for International Development	
USCP: United States Capitol Police	

* The "Transition Timeline" (TTL) is the estimated maximum number of months from the start of the transition period (the date on which the auction concludes) and when relocation will be complete or when coordination within protection zones is expected to begin pursuant to applicable sharing criteria and arrangements. The conclusion of the auction is the date on which an auction of eligible frequencies concludes in accordance with Section 309(j)(16)(B) of the Communications Act of 1934, as amended.

** The "Timeline for Funds" identifies the estimated maximum time period during which the federal entity will use amounts received from the Spectrum Relocation Fund (SRF) for these systems (represented by the number of months after transfer from the SRF when the entity estimates it will complete using SRF funds).