

# **RELOCATION OF FEDERAL RADIO SYSTEMS FROM THE 1710- 1755 MHz SPECTRUM BAND**

Third Annual  
Progress Report



**U.S. DEPARTMENT OF COMMERCE**

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# **RELOCATION OF FEDERAL RADIO SYSTEMS FROM THE 1710-1755 MHz SPECTRUM BAND: THIRD ANNUAL PROGRESS REPORT**

This report is submitted pursuant to Section 207 of the Commercial Spectrum Enhancement Act (CSEA), Title II of P.L. 108-494, which requires annual reporting on Federal agencies' progress in vacating certain wireless communications systems from the 1710 megahertz (MHz) to 1755 MHz radio spectrum that has been reallocated to commercial use. The National Telecommunications and Information Administration (NTIA) published the first annual report to Congress in March 2008. That report covered relocation activity during the period from March 2007 through December 2007. The second annual report documented the cumulative progress from March 2007 through December 2008. This third annual report documents the cumulative progress since the commencement of relocation activity in March 2007 through December 2009.

As created by the CSEA, the Spectrum Relocation Fund (SRF) provides a centralized and streamlined funding mechanism through which Federal agencies can recover the costs associated with relocating their radio communications systems from spectrum reallocated and authorized to be auctioned for commercial purposes. The CSEA appropriated such sums as are required for relocation costs, which are financed by auction proceeds.

In 2004, the CESA designated the 1710-1755 MHz band as "eligible frequencies" for which Federal relocation costs could be paid from the SRF. The Federal Communications Commission (FCC) designated the commercial 2110-2155 MHz band for Advanced Wireless Services (AWS), which does not require relocation of Federal systems. In September 2006, the FCC concluded the first auction of licenses for AWS in the 1710 to 1755 MHz band paired with the 2110 MHz to 2155 MHz band. In August 2008, the FCC held a second auction of licenses that were not sold in the first auction. The NTIA and FCC jointly reallocated the 1710-1755 MHz band of spectrum used by Federal agencies for non-Federal use and the FCC designated the spectrum for AWS. The AWS auctions raised over \$13.7 billion in net winning bids, and are facilitating the provision of innovative new wireless services in the commercial market. Auction proceeds attributable to Federal frequencies were deposited in the SRF in accordance with the CSEA. For the two auctions, a total of 115 different bidders participated and the FCC issued a total of 1122 AWS licenses.

In February 2007, the Office of Management and Budget (OMB), in consultation with NTIA, submitted a report to Congress detailing a transfer of \$1.008 billion from the SRF to 12 Federal agencies to relocate their wireless systems from the 1710-1755 MHz band. OMB transferred this amount to the agencies in March 2007. During 2007 through 2009, OMB, consistent with the provisions of the CSEA, in consultation with NTIA and after Congressional notification, made several transfers from the SRF to accommodate unanticipated relocation expenses. A summary of these transfers are listed in Table 1.

**Table 1**  
**Summary of Additional Funds Transferred from the SRF**

<b>Agency</b>	<b>Date of Transfer from OMB</b>	<b>Amount of Transfer from the Spectrum Relocation Fund</b>
Department of Homeland Security	January 2008	\$35,570,000
Department of Justice	September 2008	\$31,387,000
Department of the Interior	October 2008	\$3,450,000
Tennessee Valley Authority	October 2008	\$3,333,200
Department of Justice	April 2009	\$93,458,000
Department of Energy	July 2009	\$18,380,000

Also in October 2008, OMB issued guidance to Federal agencies participating in the SRF that specifies the information they are required to provide when requesting additional resources or an extension of their approved project timeframes.<sup>1</sup> OMB directed the agencies to adhere to their original cost and timeline estimates to the extent possible, which are crucial to the success of the relocation initiative. However, in unforeseen circumstances where agencies need additional resources or time to vacate the auctioned spectrum, section 204 of the CSEA authorizes OMB, in consultation with NTIA, to approve changes to the timeframe and cost estimates associated with relocation of Federal systems. To the extent that agencies have indicated a possible delay beyond their previously approved timeframes, OMB and NTIA review extension requests to ensure the timely relocation of Federal systems from the 1710-1755 MHz band, and to minimize any potential impact to commercial licensees.

As required by section 207 of the CSEA, this report describes the progress Federal agencies have made in adhering to relocation timeframes. It also details, on a system-by-system basis, the estimated relocation costs, the actual costs incurred, and the amounts paid from the SRF. The report is based on data submitted by the Federal agencies to NTIA.

A vast majority of Federal agencies report that they are meeting their original relocation timeframe and cost estimates. For example, a total of 71 systems (approximately 39 percent of the total systems) agencies have relocated from the 1710-1755 MHz band, including 54 systems (approximately 30 percent of the total systems) that had relocation timeframes of 24 months or less. In addition, five agencies (Department of Treasury, Department of Homeland Security, United States Postal Service, Department of Housing and Urban Development, and Department of Justice) have vacated the band entirely. Some agencies continue to spend SRF funds to complete their transition even after they have vacated the band, in order to reach comparable capability of systems relative to their pre-relocation operations, as authorized by the CSEA. Only four Federal agencies have indicated that they will need additional time to relocate specific systems out of the band. The reasons given for the additional time requests relate primarily to the need to expand planning and analysis used in forming original estimates. In some instances agencies requested additional time due to the fact that affected systems operate in remote locations

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<sup>1</sup> M-09-01, "Spectrum Relocation Fund Guidance," October 14, 2008, [www.omb.gov](http://www.omb.gov).

with limited construction seasons due to adverse weather conditions. NTIA and OMB have not granted time extensions to these four agencies, and transition plans are being developed and implemented in a manner that will not negatively impact critical federal functions, nor the commercial licensees' rollout of services.

As of December 2009, Federal agencies have spent \$375,092,227 of the total estimated \$1.194 billion in relocation costs. This represents approximately 32 percent of the total amount available in SRF dollars that were made available for reallocating Federal systems. Specifically, this report details the actual costs incurred and reported by the Federal agencies from the time SRF funds were first made available in March 2007 through December 2009.

Detailed examination of the agency submissions for this third annual report reveal minor inconsistencies regarding prior year outlays for some agencies. These inconsistencies are only apparent when comparing prior year outlay data reported in the first and second annual reports and have no impact on the cumulative outlay data contained in this report. These differences appear to be due mainly to the use of different accounting systems and associated practices across the Federal agencies for reporting outlays by fiscal year rather than by calendar year.

Attachment A to this report provides an overall summary by department, agency, and/or bureau of relocation activity since March 2007. The summary provides estimated relocation timeframes, details of the progress made in adhering to these timeframes, estimated and actual relocation costs, and amounts paid from the SRF. Attachment B of this report outlines this information on a system-by-system basis for each department, agency, and bureau.

# Attachment A

1710 – 1755 MHz Band

Summary of Relocation Activities

# Summary of Relocation Activities

Department/Agency	Bureau	Estimated Relocation Timeframe (Months) <sup>1</sup>	Status (On Time)	Estimated Relocation Cost <sup>6</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Cumulative Outlays
United States Department of Agriculture (USDA)	Forest Service	36 <sup>2</sup>	No <sup>3</sup>	\$21,578,486	\$21,578,486	\$938,297
Department of Defense	Air Force	48	Yes	\$106,753,481	\$106,753,481	\$36,748,001
Department of Defense	Army	36	Yes	\$15,933,043	\$15,933,043	\$4,962,901
Department of Defense	Navy	36	Yes	\$134,465,000	\$134,465,000	\$28,234,215
Department of Defense	DOD Wide Support	72	Yes	\$98,200,000	\$98,200,000	\$49,679,782
Department of Defense	Subtotal			\$355,351,524	\$355,351,524	\$119,624,899
Department of Energy (DOE)	National Nuclear Security Administration (NNSA)	24	Yes	\$10,900,000	\$10,900,000	\$5,229,183
DOE	Bonneville Power Administration (BPA)	72	Yes	\$48,627,399	\$48,627,399	\$18,698,008
DOE	Southwestern Power Administration (SWPA)	24	Yes <sup>4</sup>	\$8,091,360	\$25,821,360 <sup>7</sup>	\$1,033,783
DOE	Western Area Power Administration (Western)	36	No <sup>5</sup>	\$108,202,200	\$108,202,200	\$30,471,877
DOE	DOE Headquarters	72	Yes	\$1,000,000	\$1,650,000 <sup>8</sup>	\$550,470
DOE	Subtotal			\$176,820,959	\$195,200,959	\$55,983,321

<sup>1</sup> All timeframes shown in the tables contained in this appendix represent the approved timeframes for full relocation from the band for each agency.

<sup>2</sup> On January 5, 2009 the National Telecommunications and Information Administration and the Office of Management and Budget (OMB) confirmed approval of timeline extensions for several systems from 24 to 36 months. USDA indicated that the full 36 months is necessary to relocate mountain-top systems that have short, three-month summer installation windows. USDA is committed to working with the Advanced Wireless Service (AWS) licensees to ensure they are able to deploy at the earliest opportunity. USDA does not anticipate any impact on the deployment of commercial wireless services because the locations of the USDA systems in question are extremely remote.

<sup>3</sup> USDA has requested a 12-month extension until March 2011 which is necessary to relocate mountain-top systems that have short, three-month summer installation windows. USDA does not anticipate any impact on the deployment of commercial wireless services because the locations of USDA systems in question are extremely remote. NTIA and OMB have not granted a time extension to this agency, and transition plans are being developed and implemented in a manner that will not negatively impact critical federal functions, nor the commercial licensees' rollout of services.

<sup>4</sup> OMB, in consultation with NTIA, granted DOE/SWPA a timeline extension until July 2011 as part of OMB's May 12, 2009 Congressional Notification. SWPA is committed to working with AWS licensees to ensure they are able to deploy at the earliest opportunity. This extension is not expected to impact AWS licensees due to the remote locations of the systems in question.

<sup>5</sup> The DOE/Western has requested an extension until April 2011 due to the later than expected internal funds allocation and the limited summer installation window. Western has indicated they have initiated coordination with affected AWS licensees and the preliminary results indicate the majority of those contacted have no objection. Western does not anticipate the requested delays will have an impact on the deployment of commercial wireless services due to the remote locations of the systems in question. NTIA and OMB have not granted a time extension to this agency, and transition plans are being developed and implemented in a manner that will not negatively impact critical federal functions, nor the commercial licensees' rollout of services.

<sup>6</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB report to Congress.

<sup>7</sup> As indicated in the May 12, 2009 OMB Congressional Notification, OMB made a subsequent transfer of \$17,730,000 from the SRF to DOE/SWPA in accordance with the provisions of the Commercial Spectrum Enhancement Act (CSEA).

<sup>8</sup> As indicated in the May 12, 2009 OMB Congressional Notification, OMB made a subsequent transfer of \$650,000 from the SRF to DOE Headquarters in accordance with the provisions of the CSEA.

# Summary of Relocation Activities

Department/Agency	Bureau	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>8</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Cumulative Outlays
Department of Homeland Security (DHS)	Customs and Border Protection (CBP)	12	Yes	\$74,349,990	\$74,349,990	\$13,800,000
DHS	Immigration and Customs Enforcement (ICE)	12	Yes	\$3,559,281	\$39,129,281 <sup>1</sup>	\$30,308,058
DHS	United States Secret Service (USSS)	12	Yes	\$105,800	\$105,800	\$105,800
DHS	DHS Wide Support	12	Yes	\$11,979,761	\$11,979,761	\$5,885,845
DHS	Subtotal			\$89,994,832	\$125,564,832	\$50,099,703
Housing and Urban Development	Inspector General	24	Yes	\$21,115	\$21,115	\$14,437
Department of the Interior (DOI)	Bureau of Reclamation (BOR)	36	Yes	\$4,550,000	\$8,000,000 <sup>2</sup>	\$2,758,529
DOI	Geological Survey (GS)	36	Yes	\$6,158,949	\$6,158,949	\$3,277,546
DOI	National Park Service (NPS)	36	No <sup>9</sup>	\$14,703,000	\$14,703,000	\$613,183
DOI	Subtotal			\$25,411,949	\$28,861,949	\$6,649,258
Department of Justice (DOJ)	Bureau of Alcohol Tobacco and Firearms, and Explosives (ATF)	36	Yes	\$48,024,000	\$79,377,000 <sup>3,4</sup>	\$22,461,112
DOJ	Federal Bureau of Investigation (FBI)	36	Yes	\$139,225,000	\$162,955,000 <sup>5</sup>	\$33,558,250
DOJ	Drug Enforcement Administration (DEA)	36	Yes	\$74,772,000	\$144,534,000 <sup>6,7</sup>	\$49,474,656
DOJ	DOJ Wide Support	36	Yes	\$800,000	\$800,000	\$467,921
DOJ	Subtotal			\$262,821,000	\$387,666,000	\$105,961,939

<sup>1</sup> As indicated in the November 16, 2007 Office of Management and Budget (OMB) report, OMB made a subsequent transfer of \$35.57 million from the SRF to the DHS/ICE in accordance with the provisions of the Commercial Spectrum Enhancement Act (CSEA).

<sup>2</sup> As indicated in the August 27, 2008 OMB Congressional notification, OMB made a subsequent transfer of \$3.45 million from the SRF to the DOI/BOR in accordance with the provisions of the CSEA.

<sup>3</sup> As indicated in the July 24, 2008 OMB Congressional notification, OMB made a subsequent transfer of \$17.312 million from the SRF to the DOJ/ATF in accordance with the provisions of the CSEA.

<sup>4</sup> As indicated in the January 14, 2009 OMB Congressional notification, OMB made a subsequent transfer of \$14.041 million from the SRF to the DOJ/ATF in accordance with the provisions of the CSEA.

<sup>5</sup> As indicated in the January 14, 2009 OMB Congressional notification, OMB made a subsequent transfer of \$23.73 million from the SRF to the DOJ/FBI in accordance with the provisions of the CSEA.

<sup>6</sup> As indicated in the July 24, 2008 OMB Congressional notification, OMB made a subsequent transfer of \$14.075 million from the SRF to the DOJ/DEA in accordance with the provisions of the CSEA.

<sup>7</sup> As indicated in the January 14, 2009 OMB Congressional notification, OMB made a subsequent transfer of \$55.687 million from the SRF to the DOJ/DEA in accordance with the provisions of the CSEA.

<sup>8</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB report to Congress.

<sup>9</sup> DOI/NPS has requested a three-year extension until 2013 as it made the original relocation time estimate without adequate time for planning. DOI/NPS does not anticipate any impact on the deployment of commercial wireless services because the locations of DOI/NPS systems in question are extremely remote. NTIA and OMB have not granted a time extension to this agency, and transition plans are being developed and implemented in a manner that will not negatively impact critical federal functions, nor the commercial licensees' rollout of services.

# Summary of Relocation Activities

Department/Agency	Bureau	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>4</sup>	Total Transferred From the Spectrum Relocation Fund (SRF)	Cumulative Outlays
Department of Transportation (DOT)	Federal Aviation Administration (FAA)	46	No <sup>1</sup>	\$58,062,020 <sup>2</sup>	\$58,062,020 <sup>2</sup>	\$22,717,562
Treasury	Internal Revenue Service	28	Yes	\$4,409,000	\$4,409,000	\$877,509
Treasury	Inspector General for Tax Administration	28	Yes	\$892,000	\$892,000	\$89,589
Treasury	Subtotal			\$5,301,000	\$5,301,000	\$967,098
National Aeronautics and Space Administration	National Aeronautics and Space Administration	24 <sup>5</sup>	No	\$740,000	\$740,000	\$619,953
Tennessee Valley Authority (TVA)	Tennessee Valley Authority	48	Yes	\$10,687,857	\$14,021,057 <sup>3</sup>	\$9,814,000
United States Postal Service	Inspection Service	12	Yes	\$1,761,760	\$1,761,760	\$1,701,760
<b>Total</b>				<b>\$1,008,552,502</b>	<b>\$1,194,130,702</b>	<b>\$375,092,227</b>

<sup>1</sup> The DOT/FAA has requested a 12-month extension for several systems until October 2010 due to changes in radio configuration that require the re-engineering of frequencies. NTIA and OMB have not granted a time extension to this agency, and transition plans are being developed and implemented in a manner that will not negatively impact critical federal functions, nor the commercial licensees' rollout of services.

<sup>2</sup> A value of \$58,062,020 has been made available to the FAA from the SRF, consistent with the National Telecommunications and Information Administration report to the Federal Communications Commission and Congress, dated December 2005, and the Congressional notification from Office of Management and Budget (OMB), dated February 16, 2007. In providing information for this report, the FAA estimated relocation costs of \$58,062,027, and appears to include rounding errors associated with individual systems cost, thus, these totals may not be consistent. See Appendix B at B-16 for details.

<sup>3</sup> As indicated in the August 27, 2008 OMB Congressional notification, OMB made a subsequent transfer of \$3.3332 million from the SRF to the TVA in accordance with the provisions of the Commercial Spectrum Enhancement Act.

<sup>4</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.

<sup>5</sup> NASA has stated it will be requesting a 15 month extension until May 2010 due to a delay in the procurement of various equipment for one system. NASA has indicated they have initiated coordination with affected AWS licensees and the preliminary results indicate there are no objections from those contacted. NASA does not anticipate the requested delay will have an impact on the deployment of commercial wireless services.



# Attachment B

1710 – 1755 MHz Band

Department/Agency/Bureau

Summary of Relocation Activities

# United States Department of Agriculture

## Forest Service

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>6</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments <sup>5</sup>	Adjusted Total	Cumulative Outlays	
USDA 001	Apache-Sitgreaves MW	18	Yes	\$960,000	\$960,000	-\$960,000.00	\$0	\$0 <sup>3</sup>	
USDA 002	Ashley MW	24-36 <sup>1</sup>	No <sup>2</sup>	\$397,000	\$397,000	\$0	\$397,000	\$0	
USDA 003	Boise MW	24-36 <sup>1</sup>	No <sup>2</sup>	\$442,000	\$442,000	\$0	\$442,000	\$20,581	
USDA 004	Challis MW	24-36 <sup>1</sup>	No <sup>2</sup>	\$746,000	\$746,000	\$0	\$746,000	\$44,191	
USDA 005	Cibola MW	36	Yes	\$843,000	\$843,000	-\$843,000	\$0	\$0 <sup>3</sup>	
USDA 006	Coconino MW	24	Yes	\$527,000	\$527,000	-\$527,000	\$0	\$0 <sup>3</sup>	
USDA 007	Coronado MW	24	Yes	\$92,000	\$92,000	-\$92,000	\$0	\$0 <sup>3</sup>	
USDA 008	Dixie MW	0	Yes	\$0	\$0	\$0	\$0	\$0 <sup>4</sup>	
USDA 009	Fishlake MW	24	Yes	\$675,000	\$675,000	-\$675,000	\$0	\$0 <sup>3</sup>	
USDA 010	Gila MW	24	Yes	\$1,049,000	\$1,049,000	-\$1,049,000	\$0	\$0 <sup>3</sup>	
USDA 011	IPNF MW	36	Yes	\$1,138,900	\$1,138,900	-\$1,138,900	\$0	\$0 <sup>3</sup>	
USDA 012	Kaibab MW	24	Yes	\$509,000	\$509,000	-\$509,000	\$0	\$0 <sup>3</sup>	
USDA 013	Lagrande MW	24	Yes	\$241,000	\$241,000	-\$241,000	\$0	\$0 <sup>3</sup>	
USDA 014	Lassen MW	36 <sup>6</sup>	No <sup>2</sup>	\$818,000	\$818,000	\$0	\$818,000	\$11,884	
USDA 015	Los Padres MW	36 <sup>6</sup>	No <sup>2</sup>	\$107,000	\$107,000	\$0	\$107,000	\$2,700	
USDA 016	Manti-Lasal MW	24	Yes	\$416,000	\$416,000	-\$416,000	\$0	\$0 <sup>3</sup>	
USDA 017	Ochoco MW	36	Yes	\$235,000	\$235,000	-\$235,000	\$0	\$0 <sup>3</sup>	
USDA 018	Payette MW	36	Yes	\$418,000	\$418,000	-\$418,000	\$0	\$0 <sup>3</sup>	
USDA 019	Plumas MW	36	No <sup>2</sup>	\$1,925,000	\$1,925,000	\$0	\$1,925,000	\$2,500	
USDA 020	Salmon MW	24-36 <sup>1</sup>	No <sup>2</sup>	\$354,000	\$354,000	\$0	\$354,000	\$3,764	
USDA 021	Sierra MW	36	No <sup>2</sup>	\$1,072,000	\$1,072,000	\$0	\$1,072,000	\$10,029	
USDA 022	Stanislaus MW	36	No <sup>2</sup>	\$733,000	\$733,000	\$0	\$733,000	\$0	
USDA 023	Toiyabe MW	24-36 <sup>1</sup>	No <sup>2</sup>	\$448,000	\$448,000	\$0	\$448,000	\$0	
USDA 024	Tonto MW	36	Yes	\$672,000	\$672,000	-\$672,000	\$0	\$0 <sup>3</sup>	
USDA 025	Uinta MW	24	Yes	\$636,000	\$636,000	-\$636,000	\$0	\$0 <sup>3</sup>	
USDA 026	Wassatch MW	24	Yes	\$1,206,000	\$1,206,000	-\$1,206,000	\$0	\$0 <sup>3</sup>	
USDA 027	Winema MW	0	Yes	\$0	\$0	\$0	\$0	\$0 <sup>4</sup>	
USDA 028	Additional Money	36	Yes	\$4,918,586	\$4,918,586	\$0	\$4,918,586	\$842,648	
				<b>Total</b>	<b>\$21,578,486</b>	<b>\$21,578,486</b>	<b>-\$9,617,900</b>	<b>\$11,960,586</b>	<b>\$938,297</b>

<sup>1</sup> On January 5, 2009 the National Telecommunications and Information Administration and the Office of Management and Budget (OMB) confirmed approval of timeline extensions for several systems from 24 to 36 months. The United States Department of Agriculture (USDA) has indicated that the full 36 months is necessary to relocate mountain-top systems that have short, three-month summer installation windows.

USDA does not anticipate any impact on the deployment of commercial wireless services because the locations of USDA systems in question are extremely remote.

<sup>2</sup> USDA has requested a 12-month extension until March 2011, which is necessary to relocate mountain-top systems that have short, three-month summer installation windows. USDA does not anticipate any impact on the deployment of commercial wireless services because the locations of the systems in question are extremely remote. NTIA and OMB have not granted a time extension to this agency, and transition plans are being developed and implemented in a manner that will not negatively impact critical federal functions, nor the commercial licensees' rollout of services.

<sup>3</sup> USDA indicates the system has been decommissioned and does not require replacement, and the funds are to be returned to the SRF.

<sup>4</sup> USDA indicates the system has been deleted, and did not require funds from the SRF.

<sup>5</sup> Federal agencies indicate they are transferring funds between systems due to either higher or lower than estimated costs to relocate, which does not affect the total amount received from the SRF.

<sup>6</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.

# Department of Defense

## United States Air Force (USAF)<sup>1</sup>

System Number	System Name <sup>2</sup>	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>4</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments <sup>3</sup>	Adjusted Total	Cumulative Outlays
USAF0001	Precision Guided Munitions – Aircraft Procurement	48	Yes	\$40,000,000	\$40,000,000	\$0	\$40,000,000	\$18,173,466
USAF0001	Precision Guided Munitions – Missile Procurement	48	Yes	\$60,000,000	\$60,000,000	\$0	\$60,000,000	\$14,782,066
USAF0002	Edwards Microwave	36	Yes	\$157,100	\$157,100	-\$8,418	\$148,682	\$148,682
USAF0003	Luke Microwave	36	Yes	\$1,212,000	\$1,212,000	\$0	\$1,212,000	\$878,453
USAF0004	Nellis Microwave	36	Yes	\$600,000	\$600,000	\$0	\$600,000	\$600,000
USAF0005	Eastern Range	36	Yes	\$2,810,381	\$2,810,381	\$0	\$2,810,381	\$1,898,247
USAF0006	Eglin Microwave	36	Yes	\$1,974,000	\$1,974,000	\$0	\$1,974,000	\$267,087
<b>Total</b>				<b>\$106,753,481</b>	<b>\$106,753,481</b>	<b>-\$8,418</b>	<b>\$106,745,063</b>	<b>\$36,748,001</b>

<sup>1</sup> USAF has one assignment (threat simulator) that operates on a non-interference basis. This does not require funds from the SRF.

<sup>2</sup> The February 2007 Office of Management and Budget (OMB) Report to Congress lists the USAF as having 36 systems. The correct number should be six systems, which encompass the frequency assignments that the USAF previously reported as 36 systems. One system of the six systems is funded through two accounts. There is no impact on the total resources required to vacate the band since the number of frequency assignments to be vacated remains unchanged from the February 2007 OMB Report to Congress.

<sup>3</sup> Agencies indicate they are transferring funds between systems due to either higher or lower than estimated costs to relocate and this action does not affect the total amount received from the SRF by the Federal agency.

<sup>4</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.

# Department of Defense

## Department of the Army (Army)

System Number	System Name <sup>1</sup>	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>6</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments <sup>3</sup>	Adjusted Total	Cumulative Outlays
AR0001	1 – 11 <sup>th</sup> Aviation Ft. Rucker	33 <sup>7,8</sup>	Yes	\$752,000	\$752,000	\$1,698,104	\$2,450,104	\$548,647
AR0002	Army Material Command	24	Yes	\$1,185,000	\$1,185,000	-\$876,082	\$308,918	\$308,919
AR0003	DCIS	36	Yes	\$128,000	\$128,000	\$5,142	\$133,142	\$133,142
AR0004	USACE – Kansas City District	36	Yes	\$65,043	\$65,043	-\$65,043	\$0	\$0
AR0005	USACE – New England District	36 <sup>7</sup>	Yes	\$161,000	\$161,000	\$0	\$161,000	\$0
AR0006	USACE – Portland District <sup>4</sup>	36 <sup>7</sup>	Yes	\$5,484,000	\$5,484,000	\$1,634,000	\$7,118,000	\$1,450,634
AR0007	USACE – Sacramento District <sup>5</sup>	18 <sup>7</sup>	Yes	\$7,032,000	\$7,032,000	-\$3,754,391	\$3,277,609	\$2,521,559
AR0008	USACE – Tulsa District	36	Yes	\$32,000	\$32,000	-\$32,000	\$0	\$0
AR0009	White Sands Missile Range	24	Yes	\$464,000	\$464,000	-\$464,000	\$0	\$0
AR0010	PEO – EIS – PM DWTS	0 <sup>2,7</sup>	Yes	\$630,000	\$630,000	-\$588,000	\$42,000	\$0
<b>Total</b>				<b>\$15,933,043</b>	<b>\$15,933,043</b>	<b>-\$2,442,270</b>	<b>\$13,490,773</b>	<b>\$4,962,901</b>

<sup>1</sup> The February 2007 Office of Management and Budget (OMB) Report to Congress lists the Army as having 31 systems. The correct number should be nine systems, which encompass the frequency assignments that the Army previously reported as 31 systems, plus one account for shared program management and engineering costs, as reported. There is no impact on the total resources acquired to vacate the band since the number of frequency assignments to be vacated remains unchanged from the February 2007 OMB Report to Congress.

<sup>2</sup> The Army has indicated this was mistakenly reported as 36 months in the March 2008 First Annual Relocation Report to Congress. AR0010 was established as an Army overhead account for shared program management and engineering costs, which after an initial trial period in 2007 the Army deemed not adequately resourced. The Army reports it will not spend all the funds in account AR0010 for shared program management and engineering costs and has indicated that it will fund the necessary shared program management and engineering costs out of the \$15,303,043 in Other Procurement funds made available for the entire effort. However, Army used some of these O&M funds to pay for temporary path leases necessary to maintain uninterrupted operations during the relocation process for selected assignments. Fiscal law prohibited to use Other Procurement funds for this purpose which made the use of O&M funds out of the AR0010 account necessary.

<sup>3</sup> Agencies indicate they are transferring funds between systems due to either higher or lower than estimated relocation costs and this action does not affect the total amount received from the SRF.

<sup>4</sup> The Army has indicated that assignments AR819881 and AR848053 had been erroneously identified as assignments that could be relocated without SRF funds and have added these two assignments to this system for funding and project management. The Army notes funding in the amount of \$1,634,000 was added to this system for these two assignments.

<sup>5</sup> The Army has indicated that it has submitted to the National Telecommunications and Information Administration all four of the frequency assignments for this system for deletion. The Army states the remaining estimated funds in the amount of \$3,754,391 were not required for this system and these surplus funds were made available for shortfalls in the estimated cost to relocate other Army systems.

<sup>6</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.

<sup>7</sup> The Army has indicated this system has been relocated from the 1710-1755 MHz band, although funds may continue to be used to implement the transition.

<sup>8</sup> The original four assignments in this system were relocated within 24 months. Two additional assignments (AR91551 & AR91552) were added to this system for management purposes. These two assignments were on a 33 month timeline which has been met. All six assignments in this system have been submitted for deletion. The original estimate of \$752K for this system was significantly underestimated. Further, adding assignments AR91551 & AR91552 to this system required additional funds. A total of \$1,698,104 had to be added to this project from Army systems that were overestimated.

# Department of Defense

## Department of the Navy (Navy)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>4</sup>	Total Transferred From the Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments <sup>2</sup>	Adjusted Total	Cumulative Outlays
USN0001	C,AYDST402S	36	Yes	\$134,000	\$134,000	\$875,000	\$1,009,000	\$134,000
USN0002	C,AYDST-400 SERIES	36	Yes	\$13,938,047	\$13,938,047	\$0	\$13,938,047	\$8,573,256
USN0003	C,PADVTL-2A	36	Yes	\$3,121,449	\$3,121,449	\$0	\$3,121,449	\$1,993,250
USN0004	C,AVKDR-96	36	Yes	\$296,000	\$296,000	\$89,300	\$385,300	\$318,886
USN0005	C,CNNCTM-UHF-10V	36	Yes	\$21,000	\$21,000	\$502,383	\$523,383	\$21,000
USN0006	C,CNCCTM-UHF-10V	36	Yes	\$446,208	\$446,208	\$0	\$446,208	\$272,569
USN0007	C,AVKDR2C-96	36	Yes	\$446,208	\$446,208	\$0	\$446,208	\$446,208
USN0008	C,ACC-AT3620LV	36	Yes	\$1,338,621	\$1,338,621	\$0	\$1,338,621	\$854,250
USN0009	C,MOT-MTG1010A	36	Yes	\$271,000	\$271,000	\$85,000	\$356,000	\$0
USN0010	C,ERDEVT-3	36	Yes	\$892,414	\$892,414	\$0	\$892,414	\$892,414
USN0011	S,SMWVTX-36L20ADP	36	Yes	\$21,000	\$21,000	\$7,735	\$28,735	\$21,000
USN0012	G,HORACEVIDEO LINK	36	Yes	\$21,000	\$21,000	\$30,750	\$51,750	\$21,000
USN0013	C,PADVTL-2A	36	Yes	\$892,414	\$892,414	\$0	\$892,414	\$892,414
USN0014	G,HORACE VIDEO LINK	36	Yes	\$249,400	\$249,400	\$0	\$249,400	\$249,400
USN0015	C,CNCCTM-UHF-10V	36	Yes	\$21,000	\$21,000	\$12,000	\$33,000	\$21,000
USN0016	C,AYD T400	36	Yes	\$997,600	\$997,600	\$0	\$997,600	\$997,600
USN0017	C,AYD T400	36	Yes	\$891,397	\$891,397	\$0	\$891,397	\$891,397
USN0018	C,AYD T400	36	Yes	\$446,207	\$446,207	\$0	\$446,207	\$446,207
USN0019	C,AYD T400	36	Yes	\$446,207	\$446,207	\$0	\$446,207	\$446,207
USN0020	C,AYD T400	36	Yes	\$446,207	\$446,207	\$0	\$446,207	\$446,207
USN0021	C,AYD T400	36	Yes	\$446,207	\$446,207	\$0	\$446,207	\$446,207
USN0022	C,AYD T400	36	Yes	\$892,414	\$892,414	\$0	\$892,414	\$892,414
USN0023	C,ACTMDR-5402	36	Yes	\$587,000	\$587,000	\$173,700	\$760,700	\$632,774
USN0024	C,MOT MR-200	36	Yes	\$229,000	\$229,000	\$0	\$229,000	\$228,910
USN0025 <sup>1</sup>	CLASSIFIED	36 <sup>5</sup>	Yes	\$44,146,000	\$44,146,000	-\$24,146,000	\$20,000,000	\$7,307,931
USN0025 <sup>1</sup>	HERP/HERO	36	Yes	\$1,235,000	\$1,235,000	\$0	\$1,235,000	\$63,089
USN0025 <sup>1</sup>	CLASSIFIED	36 <sup>5</sup>	Yes	\$60,692,000	\$60,692,000	-\$56,692,000	\$4,000,000	\$0
USMC0001 <sup>3</sup>	C,LOE LMC-402D2	36	Yes	\$232,000	\$232,000	\$0	\$232,000	\$232,000
USMC0002 <sup>3</sup>	C,LOE LMC-402D2	36	Yes	\$468,000	\$468,000	\$0	\$468,000	\$468,000
USMC0003 <sup>3</sup>	C,LOE LMC-402D2	36	Yes	\$100,000	\$100,000	\$0	\$100,000	\$24,625
USMC0004 <sup>3</sup>	C,TBNTBT200LV	36	Yes	\$100,000	\$100,000	\$0	\$100,000	\$0
<b>Total</b>				<b>\$134,465,000</b>	<b>\$134,465,000</b>	<b>-\$79,062,132</b>	<b>\$55,402,868</b>	<b>\$28,234,215</b>

<sup>1</sup> The Navy has indicated this is one system funded through three accounts.

<sup>2</sup> Agencies are indicating they are transferring funds between systems due to either higher or lower than estimated costs to relocate and this action does not affect the total amount received from the SRF.

<sup>3</sup> USMC is the United States Marine Corps.

<sup>4</sup> This refers to the pre-relocation estimates as indicated in the February 2007 Office of Management and Budget Report to Congress.

<sup>5</sup> The Navy indicated that the frequency assignments associated with this system have been vacated out of the 1710-1755MHz band, but that funds originally transferred from the Spectrum Relocation Fund will continue to be used to complete hardware modifications to ensure that the operational effectiveness of this system is not diminished.

# Department of Defense

## DOD-Wide Relocation Support (Research, Development, Test and Evaluation/Operation and Maintenance)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>1</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
DOD0001	Spectrum Relocation Management Office	72	Yes	\$21,700,000	\$21,700,000	\$0	\$21,700,000	\$6,874,390
DOD0002	Spectrum Management Transition Initiative	72	Yes	\$48,500,000	\$48,500,000	\$0	\$48,500,000	\$28,201,821
DOD0003	Spectrum Technology Test Bed	72	Yes	\$28,000,000	\$28,000,000	\$0	\$28,000,000	\$14,603,571
<b>Total</b>				<b>\$98,200,000</b>	<b>\$98,200,000</b>	<b>\$ 0</b>	<b>\$98,200,000</b>	<b>\$49,679,782</b>

<sup>1</sup> This refers to the pre-relocation estimates as indicated in the February 2007 Office of Management and Budget Report to Congress.

# Department of Energy

## National Nuclear Security Administration (NNSA)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time) <sup>1</sup>	Estimated Relocation Cost <sup>5</sup>	Total Transferred From the Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments <sup>3</sup>	Adjusted Total	Cumulative Outlays
1	OST - Remote Keying System, Replacement	24	Yes	\$180,000	\$180,000	-\$180,000 <sup>2</sup>	\$0	\$0
2	SNL - Portable Microwave, System and Laser Tracking Microwave	24	Yes	\$691,000	\$691,000	\$0	\$691,000	\$691,000
3	Pantex Admin System	24	Yes	\$870,000	\$870,000	\$1,500,000	\$2,370,000	\$34,402
4a	SNL - Laser Tracking Microwave	24	Yes	\$344,500	\$344,500	\$0	\$344,500	\$344,500
4b	SNL - Telecommand Link	24	Yes	\$384,500	\$384,500	\$0	\$384,500	\$384,500
5	OST - Microwave Link	24	Yes	\$385,000	\$385,000	\$360,000	\$745,000	\$745,000
6	SNL - Remote Control Development Link - Robotics Vehicle	24	Yes	\$240,000	\$240,000	\$0	\$240,000	\$240,000
7	LANL - Robotic Vehicle (Video / Audio)	24	Yes	\$360,000	\$360,000	\$0	\$360,000	\$82,598
8	NSO - YMP Microwave System	24	Yes	\$840,000	\$840,000	-\$763,360	\$76,640	\$76,640
9	NSO - NV Teleoperated System	24	Yes	\$435,000	\$435,000	-\$236,591	\$198,409	\$198,409
10	YMP Seismic Link (Shoshone Mtn and Echo Peak, NV)	24	Yes	\$900,000	\$900,000	\$0	\$900,000	\$314,873
11	NSO - Helicopter Event Video	24	Yes	\$970,000	\$970,000	\$100,000	\$1,070,000	\$922,000
12	NSO - Backbone Microwave Link (Nevada Test Site and Angel Peak)	24	Yes	\$770,000	\$770,000	\$100,000	\$870,000	\$787,972
13	NSO - YMP Seismic Link (Yucca Mtn and Sober Peak, NV)	24	Yes	\$830,000	\$830,000	\$0	\$830,000	\$304,289
14	LLNL - Research Microwave between Tracy Airport and LLNL	24	Yes	\$360,000	\$360,000	\$0	\$360,000	\$33,000 <sup>5</sup>
15	LLNL - Water System Microwave Link (Livermore to Mocho)	24	Yes	\$890,000	\$890,000	\$0	\$890,000	\$70,000 <sup>5</sup>
16	NNSA Inflation Indexed Reserve	24	Yes	\$1,450,000	\$1,450,000	-\$880,049	\$569,951	\$0
<b>Total</b>				<b>\$10,900,000</b>	<b>\$10,900,000</b>	<b>\$ 0</b>	<b>\$10,900,000</b>	<b>\$5,229,183</b>

<sup>1</sup> The Department of Energy (DOE)/NNSA has indicated all the systems have been relocated from the 1710-1755 MHz band, although funds may continue to be used to implement the transition.

<sup>2</sup> DOE/NNSA has indicated the system has been deleted and is no longer operating in the 1710-1755 MHz band. The funds shown have been transferred to system number 5.

<sup>3</sup> Agencies indicate they are transferring funds between systems due to either higher or lower than estimated costs to relocate and this action does not affect the total amount received from the SRF.

<sup>4</sup> This refers to the pre-relocation estimates as indicated in the February 2007 Office of Management and Budget Report to Congress.

<sup>5</sup> Agency revised previously reported cumulative outlays in 2008 for systems 14 and 15. This revision has been taken into account for reporting the 2009 cumulative outlays.

# Department of Energy

## Bonneville Power Administration (BPA)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>4</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments <sup>3</sup>	Adjusted Total	Cumulative Outlays
1	2N	36	Yes	\$4,896,239	\$4,896,239	\$0	\$4,896,239	\$1,937,864
2	4A	48	Yes	\$1,147,111	\$1,147,111	\$0	\$1,147,111	\$40,881
3	4D	60	Yes	\$1,727,645	\$1,727,645	\$0	\$1,727,645	\$50,284
4	D	48	Yes	\$2,815,160	\$2,815,160	\$0	\$2,815,160	\$221,030
5	H	48	Yes	\$767,501	\$767,501	\$0	\$767,501	\$29,979
6	I	72	Yes	\$8,913,238	\$8,913,238	\$0	\$8,913,238	\$290,631
7	N	24 <sup>2</sup>	Yes	\$8,589,111	\$8,589,111	\$82,170	\$8,671,281	\$6,800,350
8	PND AC00	48	Yes	\$4,712,537	\$4,712,537	\$250,720	\$4,963,257	\$1,244,652
9	PND D	48	Yes	\$1,975,385	\$1,975,385	-\$250,720	\$1,724,665	\$816,837
10	PND XC00	36	Yes	\$5,063,823	\$5,063,823	\$73,395	\$5,137,218	\$1,834,872
11	PND YC00	24 <sup>2</sup>	Yes	\$6,441,748	\$6,441,748	-\$73,395	\$6,368,353	\$4,865,498
12	T	12 <sup>2</sup>	Yes	\$288,198	\$288,198	-\$82,170	\$206,028	\$204,692
13	U	60	Yes	\$915,458	\$915,458	\$0	\$915,458	\$27,033
14	USA <sup>1</sup>	72	Yes	\$374,245	\$374,245	\$0	\$374,245	\$333,406
<b>Total</b>				<b>\$48,627,399</b>	<b>\$48,627,399</b>	<b>\$ 0</b>	<b>\$48,627,399</b>	<b>\$18,698,008</b>

<sup>1</sup> This system consists of radios that will be used across the remaining 13 systems during catastrophic emergency conditions where timely restoration of mission critical telecommunication traffic is of the utmost importance. The estimated relocation timeframe is not anticipated to affect commercial access to the band, since this system operates in a backup capacity only.

<sup>2</sup> Department of Energy/BPA has indicated the system has been relocated from the 1710-1755 MHz band, although funds may continue to be used to implement the transition.

<sup>3</sup> Agencies indicate they are transferring funds between systems due to either higher or lower than estimated costs to relocate and this action does not affect the total amount received from the SRF.

<sup>4</sup> This refers to the pre-relocation estimates as indicated in the February 2007 Office of Management and Budget Report to Congress.

## Southwestern Power Administration (SWPA)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>3</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
1	Southwestern <sup>1</sup>	24	Yes <sup>2</sup>	\$8,091,360	\$25,821,360 <sup>4</sup>	\$0	\$25,821,360 <sup>4</sup>	\$1,033,783
<b>Total</b>				<b>\$8,091,360</b>	<b>\$25,821,360<sup>4</sup></b>	<b>\$ 0</b>	<b>\$25,821,360<sup>4</sup></b>	<b>\$1,033,783</b>

<sup>1</sup> The March 2008 First Annual Relocation Report to Congress showed an additional system AD (Corporate Overhead and Reserve). This is now combined with system 1 (Southwestern) and the total amount paid from the SRF remains the same.

<sup>2</sup> Office of Management and Budget (OMB), in consultation with NTIA, granted the Department of Energy (DOE)/SWPA a timeline extension until July 2011 as part of the May 12, 2009 OMB Congressional Notification. SWPA is committed to working with the Advanced Wireless Service (AWS) licensees to ensure they are able to deploy at the earliest opportunity. This extension is not expected to impact AWS licensees due to the remote locations of the systems in question.

<sup>3</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.

<sup>4</sup> As indicated in the May 12, 2009 Congressional Notification from OMB, a subsequent transfer of \$17,730,000 from the SRF was made to DOE/SWPA in accordance with the provisions of the Commercial Spectrum Enhancement Act.



# Department of Energy

## Western Area Power Administration (Western)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>5</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments <sup>4</sup>	Adjusted Total	Cumulative Outlays
1	Sierra-Nevada Region (SNR)	30	No <sup>1</sup>	\$9,846,000	\$9,846,000	\$105,704	\$9,951,704	\$1,827,906
2	Rocky Mountain Region (RMR)	28	No <sup>1</sup>	\$5,971,200	\$5,971,200	\$1,264,428	\$7,235,628	\$4,375,748
3	Desert Southwest Region (DSW)	30	No <sup>1</sup>	\$7,320,000	\$7,320,000	\$79,530	\$7,399,530	\$3,965,499
4	Upper Great Plains - Montana (UGP-PT)	36 <sup>2</sup>	No <sup>1</sup>	\$22,275,000	\$22,275,000	\$244,367	\$22,519,367	\$9,337,152
5	Upper Great Plains - North Dakota (UGP-ND)	36 <sup>2</sup>	No <sup>1</sup>	\$21,467,000	\$21,467,000	\$230,535	\$21,697,535	\$5,863,854
6	Upper Great Plains - South Dakota (UGP-SD)	36 <sup>2</sup>	No <sup>1</sup>	\$26,688,000	\$26,688,000	\$286,909	\$26,974,909	\$5,101,718
AD <sup>3</sup>	Corporate Overhead and Reserve	N/A	No <sup>1</sup>	\$14,635,000	\$14,635,000	-\$2,211,473	\$12,423,526	\$0
<b>Total</b>				<b>\$108,202,200</b>	<b>\$108,202,200</b>	<b>\$ 0</b>	<b>\$108,202,200</b>	<b>\$30,471,877</b>

<sup>1</sup> The Department of Energy (DOE)/Western has requested an extension until April 2011 due to the later than expected internal funds allocation and the limited summer installation window. Western has indicated they have initiated coordination with affected AWS licensees and the preliminary results indicate the majority of those contacted have no objections. Western does not anticipate the requested delays will have an impact on the deployment of commercial wireless services due to the remote locations of the systems in question. NTIA and OMB have not granted a time extension to this agency, and transition plans are being developed and implemented in a manner that will not negatively impact critical federal functions, nor the commercial licensees' rollout of services.

<sup>2</sup> Each system is comprised of multiple assignments. The estimated relocation timeframe shown above represents the completion time for the full system (all frequency assignments). A subset of the associated frequency assignments was originally projected to be relocated within 12 months. These will all be relocated using agency funds and not from the SRF, consistent with funding eligibility under the Commercial Spectrum Enhancement Act. The "12 month" frequency assignments for these systems may also experience a delay for the reasons cited in footnote 1 above.

<sup>3</sup> The DOE/Western has indicated the system AD is not a radio system but rather an administrative designator to capture the overhead expenditures associated with all systems and funds kept in reserve for inflation, collocation coordination, and planning. Actual costs and associated funding for overhead are distributed out to the system at the end of each fiscal year.

<sup>4</sup> Agencies indicate they are transferring funds between systems due to either higher or lower than estimated costs to relocate and this action does not affect the total amount received from the SRF.

<sup>5</sup> This refers to the pre-relocation estimates as indicated in the February 2007 Office of Management and Budget Report to Congress.

## DOE Headquarters

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>1</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
N/A	DOE Headquarters	72	Yes	\$1,000,000	\$1,650,000 <sup>2</sup>	\$0	\$1,650,000	\$550,470
<b>Total</b>				<b>\$1,000,000</b>	<b>\$1,650,000<sup>2</sup></b>	<b>\$ 0</b>	<b>\$1,650,000</b>	<b>\$550,470</b>

<sup>1</sup> This refers to the pre-relocation estimates as indicated in the February 2007 Office of Management and Budget (OMB) Report to Congress.

<sup>2</sup> As indicated in the May 12, 2009 OMB Congressional Notification, OMB made a subsequent transfer of \$650,000 from the SRF to DOE Headquarters in accordance with the provisions of the Commercial Spectrum Enhancement Act.

# Department of Homeland Security

## Customs and Border Protection (CBP)

System Number	System Name <sup>1</sup>	Estimated Relocation Timeframe (Months) <sup>2</sup>	Status (On Time)	Estimated Relocation Cost <sup>3</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
1	El Centro	12	Yes	\$9,913,332	\$9,913,332	\$0	\$9,913,332	\$1,840,000
2	El Paso	12	Yes	\$21,065,830	\$21,065,830	\$0	\$21,065,830	\$3,910,000
3	Yuma	12	Yes	\$9,913,332	\$9,913,332	\$0	\$9,913,332	\$1,840,000
4	Rio Grande Valley	12	Yes	\$9,913,332	\$9,913,332	\$0	\$9,913,332	\$1,840,000
5	Laredo	12	Yes	\$9,913,332	\$9,913,332	\$0	\$9,913,332	\$1,840,000
6	Marfa	12	Yes	\$8,674,166	\$8,674,166	\$0	\$8,674,166	\$1,610,000
7	Tucson	12	Yes	\$4,956,666	\$4,956,666	\$0	\$4,956,666	\$920,000
8	Livermore	12	Yes	\$0	\$0	\$0	\$0	\$0
9	San Diego	12	Yes	\$0	\$0	\$0	\$0	\$0
10	Del Rio	12	Yes	\$0	\$0	\$0	\$0	\$0
<b>Total</b>				<b>\$74,349,990</b>	<b>\$74,349,990</b>	<b>\$ 0</b>	<b>\$74,349,990</b>	<b>\$13,800,000</b>

<sup>1</sup> The February 2007 Office of Management and Budget (OMB) Report to Congress lists CBP as having 60 systems. The correct number should be a total of 10 systems comprised of 60 point-to-point links. Fixed microwave systems are unique to the operational areas defined by the Office of Border Patrol sector areas of responsibility. The number of relocating frequency assignments remains constant. This has no impact on the total resources required to vacate the band.

<sup>2</sup> The Department of Homeland Security/CBP has indicated the system has been relocated from the 1710-1755 MHz band by implementing an interim solution; remaining funds will be used to implement a final long-term solution.

<sup>3</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.

## Immigration and Customs Enforcement (ICE)

System Number	System Name <sup>1</sup>	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>4</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
1	Components for Portable Systems	12 <sup>3</sup>	Yes	\$3,559,281	\$39,129,281 <sup>2</sup>	\$0	\$39,129,281	\$30,308,058 <sup>5</sup>
<b>Total</b>				<b>\$3,559,281</b>	<b>\$39,129,281</b>	<b>\$ 0</b>	<b>\$39,129,281</b>	<b>\$30,308,058</b>

<sup>1</sup> The February 2007 Office of Management and Budget (OMB) Report to Congress lists ICE as having four systems. The correct number should be one. The Department of Homeland Security (DHS)/ICE did not explain the difference in reporting systems. However, in other cases, agencies attributed the difference to a correction based on their understanding of the definition of a "system."

<sup>2</sup> As indicated in the November 16, 2007 OMB Congressional notification, OMB made a subsequent transfer of \$35.57 million from the SRF to DHS/ICE in accordance with the provisions of the Commercial Spectrum Enhancement Act.

<sup>3</sup> The DHS/ICE has indicated the system has been relocated from the 1710-1755 MHz band, although funds may continue to be used to implement a final long-term solution.

<sup>4</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.

<sup>5</sup> The previously reported cumulative outlays for 2007/2008 were revised. This revision has been taken into account for reporting the 2009 cumulative outlays.

# Department of Homeland Security

## United States Secret Service (USSS)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>2</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
1	Fixed (Transportable)	12 <sup>1</sup>	Yes	\$105,800	\$105,800	\$0	\$105,800	\$105,800
<b>Total</b>				<b>\$105,800</b>	<b>\$105,800</b>	<b>\$ 0</b>	<b>\$105,800</b>	<b>\$105,800</b>

<sup>1</sup> The Department of Homeland Security/USSS has indicated the system has been relocated from the 1710-1755 MHz band by implementing an interim solution; remaining funds will be used to implement a final long-term solution.

<sup>2</sup> This refers to the pre-relocation estimates as indicated in the February 2007 Office of Management and Budget Report to Congress.

## DHS Support (Office of the Chief Information Officer)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>1</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
NA	DHS Wide Support	12	Yes	\$11,979,761	\$11,979,761	\$0	\$11,979,761	\$5,885,845
<b>Total</b>				<b>\$11,979,761</b>	<b>\$11,979,761</b>	<b>\$ 0</b>	<b>\$11,979,761</b>	<b>\$5,885,845</b>

<sup>1</sup> This refers to the pre-relocation estimates as indicated in the February 2007 Office of Management and Budget Report to Congress.

# Housing and Urban Development

## Inspector General

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>2</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
1	GMS Video Transmitter - L Band	24	Yes <sup>1</sup>	\$3,450	\$3,450	\$0	\$3,450	\$2,269
2	GMS Video Receiver - L Band	24	Yes <sup>1</sup>	\$7,315	\$7,315	\$0	\$7,315	\$5,361
3	L-3 Communications Audio/Video Microwave Transmitter	24	Yes <sup>1</sup>	\$3,450	\$3,450	\$0	\$3,450	\$2,269
4	L-3 Communications Audio/Video Microwave Transmitter	24	Yes <sup>1</sup>	\$3,450	\$3,450	\$0	\$3,450	\$2,269
5	L-3 Communications Audio/Video Microwave Transmitter	24	Yes <sup>1</sup>	\$3,450	\$3,450	\$0	\$3,450	\$2,269
<b>Total</b>				<b>\$21,115</b>	<b>\$21,115</b>		<b>\$21,115</b>	<b>\$14,437</b>

<sup>1</sup> The Inspector General for the Department of Housing and Urban Development has indicated all of its systems have transitioned out of the 1710-1755 MHz band, although funds may continue to be used to implement the transfer.

<sup>2</sup> This refers to the pre-relocation estimates as indicated in the February 2007 Office of Management and Budget Report to Congress.

# Department of the Interior

## Bureau of Reclamation (BOR)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>3</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
1	North Platte River Project	24-36	Yes	\$2,805,000	\$5,155,000 <sup>1</sup>	\$0	\$5,155,000	\$2,418,337
2	Frying Pan Arkansas	24	Yes <sup>4</sup>	\$1,745,000	\$2,845,000 <sup>2</sup>	\$0	\$2,845,000	\$340,192 <sup>5</sup>
<b>Total</b>				<b>\$4,550,000</b>	<b>\$8,000,000</b>	<b>\$ 0</b>	<b>\$8,000,000</b>	<b>\$2,758,529</b>

<sup>1</sup> As indicated in the August 27, 2008 Office of Management and Budget (OMB) Congressional notification, OMB made a subsequent transfer of \$2.35 million from the SRF to the Department of the Interior (DOI)/BOR in accordance with the provisions of the Commercial Spectrum Enhancement Act (CSEA).

<sup>2</sup> As indicated in the August 27, 2008 OMB Congressional notification, OMB made a subsequent transfer of \$1.1 million from the SRF to DOI/BOR in accordance with the provisions of the CSEA.

<sup>3</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.

<sup>4</sup> DOI/BOR has indicated this system has been relocated from the 1710-1755 MHz band, although it may continue to use funds to implement the transition.

<sup>5</sup> The previously reported 2008 cumulative outlays were revised. This revision has been taken into account for reporting the 2009 cumulative outlays.

## Geological Survey (USGS)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>1</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
3	Earthquake-Seismic Monitoring	36	Yes <sup>2</sup>	\$6,158,949	\$6,158,949	\$0	\$6,158,949	\$3,277,546
<b>Total</b>				<b>\$6,158,949</b>	<b>\$6,158,949</b>	<b>\$ 0</b>	<b>\$6,158,949</b>	<b>\$3,277,546</b>

<sup>1</sup> This refers to the pre-relocation estimates as indicated in the February 2007 Office of Management and Budget Report to Congress.

<sup>2</sup> The Department of the Interior/USGS has indicated this system has been relocated from the 1710-1755 MHz band, although it may continue to use funds to implement the transition.

## National Park Service (NPS)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>1,2</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
4	Natchez Trace Parkway	36	No <sup>5</sup>	\$10,571,000	\$10,571,000	\$0	\$10,571,000	\$324,396 <sup>3</sup>
5	Blue Ridge Parkway	36	No <sup>5</sup>	\$4,132,000	\$4,132,000	\$0	\$4,132,000	\$288,787 <sup>4</sup>
<b>Total</b>				<b>\$14,703,000</b>	<b>\$14,703,000</b>	<b>\$ 0</b>	<b>\$14,703,000</b>	<b>\$613,183</b>

<sup>1</sup> The March 2008 First Annual Relocation Report to Congress incorrectly reported the System 4 Estimated Relocation Cost as \$8.349 million and System 5 Estimated Relocation Cost as \$6.354 million. The total Estimated Relocation Cost of \$14.703 million agrees with the total contained in the March 2008 First Annual Relocation Report to Congress.

<sup>2</sup> This refers to the pre-relocation estimates as indicated in the February 2007 Office of Management and Budget Report to Congress.

<sup>3</sup> The previously reported 2008 cumulative outlays were revised. This revision has been taken into account for reporting the 2009 cumulative outlays.

<sup>4</sup> The previously reported 2008 cumulative outlays were revised. This revision has been taken into account for reporting the 2009 cumulative outlays.

<sup>5</sup> The Department of the Interior (DOI)/NPS has requested a three year time extension until 2013 as it made the original time estimate without adequate time for planning. DOI/NPS does not anticipate any impact on the deployment of commercial wireless services because the locations of DOI/NPS systems in question are extremely remote. NTIA and OMB have not granted a time extension to this agency, and transition plans are being developed and implemented in a manner that will not negatively impact critical federal functions, nor the commercial licensees' rollout of services.

# Department of Justice

## Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF)

System Number	System Name <sup>1</sup>	Estimated Relocation Timeframe (Months)	Status (On Time) <sup>15</sup>	Estimated Relocation Cost <sup>14</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments <sup>13</sup>	Adjusted Total	Cumulative Outlays
1	L Band COFDM Systems	36	Yes	\$16,777,930	\$27,961,010 <sup>3,8</sup>	-\$15,474,822	\$12,486,188	\$1,303,430
2	Long Range Systems	36	Yes	\$10,000,000	\$12,925,868 <sup>4,9</sup>	-\$3,582,869	\$9,342,999	\$96,259
3	Video over IP Systems	36	Yes	\$15,854,320	\$24,643,279 <sup>5,10</sup>	\$5,668,394	\$30,311,673	\$10,596,026
4	Covert Systems	36	Yes	\$5,006,500	\$9,721,816 <sup>6,11</sup>	\$4,867,534	\$14,589,350	\$1,661,865
5	Misc/Training & Shipping	36	Yes	\$385,250	\$4,125,027 <sup>7,12</sup>	-\$1,903,701	\$2,221,326	\$383,920
6	Accelerated Withdraw <sup>2</sup>			\$0	\$0	\$10,425,463	\$10,425,463	\$8,419,612
<b>Total</b>				<b>\$48,024,000</b>	<b>\$79,377,000</b>	<b>\$ 0</b>	<b>\$79,377,000</b>	<b>\$22,461,112</b>

<sup>1</sup> The February 2007 Office of Management and Budget (OMB) Report to Congress lists the ATF as having 1641 systems. The correct number should be five. The ATF system numbers have changed only as a result of reporting modifications associated with implementation management. There is no change to specific equipment counts contained in the systems and related reimbursement costs.

<sup>2</sup> The Department of Justice (DOJ)/ATF has indicated System 6 was not identified in the March 2008 First Annual Relocation Report to Congress. The DOJ/ATF states this allows the accelerated release of the spectrum earlier than the originally scheduled transition date of March 2010. DOJ/ATF indicates this is required to implement temporary measures to accommodate early release of spectrum and allows the ATF to continue operations at a diminished capacity until the relocation is complete, which is tentatively scheduled for April 2010.

<sup>3</sup> As indicated in the July 24, 2008 Congressional notification from OMB, a subsequent transfer of \$6.230702 million from the SRF was made to DOJ/ATF in accordance with the provisions of the Commercial Spectrum Enhancement Act (CSEA).

<sup>4</sup> As indicated in the July 24, 2008 OMB Congressional notification, OMB made a subsequent transfer of \$1.0175 million from the SRF to DOJ/ATF in accordance with the provisions of the CSEA.

<sup>5</sup> As indicated in the July 24, 2008 OMB Congressional notification, OMB made a subsequent transfer of \$3.707891 million from the SRF to DOJ/ATF in accordance with the provisions of the CSEA.

<sup>6</sup> As indicated in the July 24, 2008 OMB Congressional notification, OMB made a subsequent transfer of \$2.697456 million from the SRF to DOJ/ATF in accordance with the provisions of the CSEA.

<sup>7</sup> As indicated in the July 24, 2008 OMB Congressional notification, OMB made a subsequent transfer of \$3.65845 million from the SRF to DOJ/ATF in accordance with the provisions of the CSEA.

<sup>8</sup> As indicated in the January 14, 2009 OMB Congressional notification, OMB made a subsequent transfer of \$4.952378 million from the SRF to DOJ/ATF in accordance with the provisions of the CSEA.

<sup>9</sup> As indicated in the January 14, 2009 OMB Congressional notification, OMB made a subsequent transfer of \$1.908358 million from the SRF to DOJ/ATF in accordance with the provisions of the CSEA.

<sup>10</sup> As indicated in the January 14, 2009 OMB Congressional notification, OMB made a subsequent transfer of \$5.081068 million from the SRF to the DOJ/ATF in accordance with the provisions of the CSEA.

<sup>11</sup> As indicated in the January 14, 2009 OMB Congressional notification, OMB made a subsequent transfer of \$2.017860 million from the SRF to DOJ/ATF in accordance with the provisions of the CSEA.

<sup>12</sup> As indicated in the January 14, 2009 OMB Congressional notification, OMB made a subsequent transfer of \$0.081327 million from the SRF to DOJ/ATF in accordance with the provisions of the CSEA.

Total additional relocation funds for 2008 are \$17,312,000 and for 2009 the total additional relocation funds are \$14,041,000.

<sup>13</sup> Agencies indicate they are transferring funds between systems due to either higher or lower than estimated costs to relocate and this action does not affect the total amount received from the SRF.

<sup>14</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.

<sup>15</sup> The DOJ/ATF has indicated the systems have been relocated from the 1710-1755 MHz band by implementing an interim solution; it will use remaining funds to implement a final long-term solution.

# Department of Justice

## Federal Bureau of Investigation (FBI)

System Number	System Name <sup>1</sup>	Estimated Relocation Timeframe (Months)	Status (On Time) <sup>13</sup>	Estimated Relocation Cost <sup>6</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments <sup>5</sup>	Adjusted Total	Cumulative Outlays
1	Airborne Systems	36	Yes	\$2,000,000	\$3,000,000 <sup>7</sup>	\$1,427,438	\$4,427,438	\$3,412,188
2	L/S Band (RF Systems)	36	Yes	\$77,000,000	\$78,000,000 <sup>8</sup>	-\$35,502,000	\$42,498,000	\$4,153,108
3	Central Receive Systems <sup>3</sup>	36	Yes	\$30,000,000	\$30,000,000	-\$30,000,000	\$0	\$0
4	Point to Point (VOIP Systems)	36	Yes	\$27,000,000	\$28,000,000 <sup>9</sup>	\$4,951,594	\$32,951,594	\$5,632,303
5	Misc/ Administrative	36	Yes	\$3,225,000	\$3,955,000 <sup>10</sup>	\$42,594,517	\$46,549,517	\$7,603,753
6	Sensitive Mission System <sup>2</sup>	36	Yes	\$0	\$19,000,000 <sup>11</sup>	\$1,318,202	\$20,318,202	\$968,202
7	Video Storage and Distribution <sup>2</sup>	36	Yes	\$0	\$1,000,000 <sup>12</sup>	\$3,238,719	\$4,238,719	\$2,889,188
8	Accelerated Plan <sup>3,4</sup>	36	Yes	\$0	\$0	\$11,971,530	\$11,971,530	\$8,899,508
<b>Total</b>				<b>\$139,225,000</b>	<b>\$162,955,000</b>	<b>\$ 0</b>	<b>\$162,955,000</b>	<b>\$33,558,250</b>

<sup>1</sup> The February 2007 Office of Management and Budget (OMB) Report to Congress lists FBI as having 119 systems plus one video surveillance system. The correct number should be five. The FBI system numbers have changed only as a result of reporting modifications associated with implementation management. There is no change to specific equipment counts contained in the systems and related reimbursement costs.

<sup>2</sup> The Department of Justice (DOJ)/FBI states it added Systems 6, 7 and 8, which did not appear in the March 2008 First Annual Relocation Report to Congress. The February 2007 OMB Report to Congress identified these systems as critical future needs. DOJ/FBI indicated that funding for these systems was provided from System 2 (L/S Band (RF Systems)).

<sup>3</sup> The DOJ/FBI states System 3 (Central Receive) is dependent on System 2 (L/S Band (RF Systems)) and funding and plan has been consolidated into System 2.

<sup>4</sup> The DOJ/FBI states System 8 was added and did not appear in the March 2008 First Annual Relocation Report to Congress. The DOJ/FBI indicates this plan permits the accelerated release of the spectrum earlier than the originally scheduled transition date of March 2010 and was required to implement temporary measures to accommodate early release of spectrum. The DOJ/FBI noted that this plan allows continued operations at a diminished capacity until the relocation is complete, which is tentatively scheduled for April 2009.

<sup>5</sup> Agencies indicate they are transferring funds between systems due to either higher or lower than estimated costs to relocate and this action does not affect the total amount received from the SRF.

<sup>6</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.

<sup>7</sup> As indicated in the January 14, 2009 OMB Congressional notification, OMB made a subsequent transfer of \$1 million from the SRF to DOJ/FBI in accordance with the provisions of the Commercial Spectrum Enhancement Act (CSEA).

<sup>8</sup> As indicated in the January 14, 2009 OMB Congressional notification, OMB made a subsequent transfer of \$1 million from the SRF to DOJ/FBI in accordance with the provisions of the CSEA.

<sup>9</sup> As indicated in the January 14, 2009 OMB Congressional notification, OMB made a subsequent transfer of \$1 million from the SRF to DOJ/FBI in accordance with the provisions of the CSEA.

<sup>10</sup> As indicated in the January 14, 2009 OMB Congressional notification, OMB made a subsequent transfer of \$0.73 million from the SRF to DOJ/FBI in accordance with the provisions of the CSEA.

<sup>11</sup> As indicated in the January 14, 2009 OMB Congressional notification, OMB made a subsequent transfer of \$19 million from the SRF to DOJ/FBI in accordance with the provisions of the CSEA.

<sup>12</sup> As indicated in the January 14, 2009 OMB Congressional notification from OMB, OMB made a subsequent transfer of \$1 million from the SRF to DOJ/FBI in accordance with the provisions of the CSEA.

<sup>13</sup> The DOJ/FBI has indicated the systems have been relocated from the 1710-1755 MHz band by implementing an interim solution; it will use the remaining funds to implement a final long-term solution.

# Department of Justice

## Drug Enforcement Administration (DEA)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time) <sup>4</sup>	Estimated Relocation Cost <sup>1</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
1	Video Surveillance	36	Yes	\$74,772,000	\$144,534,000 <sup>2,3</sup>	\$0	\$144,534,000	\$49,474,656
<b>Total</b>				<b>\$74,772,000</b>	<b>\$144,534,000</b>	<b>\$ 0</b>	<b>\$144,534,000</b>	<b>\$49,474,656</b>

<sup>1</sup> This refers to the pre-relocation estimates as indicated in the February 2007 Office of Management and Budget (OMB) Report to Congress.

<sup>2</sup> As indicated in the July 24, 2008 OMB Congressional notification, OMB made a subsequent transfer of \$14.075 million from the SRF to the Department of Justice (DOJ)/DEA in accordance with the provisions of the Commercial Spectrum Enhancement Act (CSEA).

<sup>3</sup> As indicated in the January 14, 2009 OMB Congressional notification, OMB made a subsequent transfer of \$55.687 million from the SRF to DOJ/DEA in accordance with the provisions of the CSEA.

<sup>4</sup> The DOJ/DEA has indicated the systems have been relocated from the 1710-1755 MHz band by implementing an interim solution; it will use remaining funds to implement a final long-term solution.

## DOJ-Support (Office of the Chief Information Officer)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>1</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
DOJ	DOJ WIDE SUPPORT	36	Yes	\$800,000	\$800,000	\$0	\$800,000	\$467,921
<b>Total</b>				<b>\$800,000</b>	<b>\$800,000</b>	<b>\$ 0</b>	<b>\$800,000</b>	<b>\$467,921</b>

<sup>1</sup> This refers to the pre-relocation estimates as indicated in the February 2007 Office of Management and Budget Report to Congress.



# Department of Transportation

## Federal Aviation Administration (FAA)

System Number	System Name	Estimated Relocation Timeframe (Months) <sup>1</sup>	Status (On Time)	Estimated Relocation Cost <sup>7</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments <sup>3</sup>	Adjusted Total	Cumulative Outlays
1	Anchorage <sup>3</sup>	43	Yes	\$6,356,917	\$6,356,917	\$602,017	\$6,958,934	\$4,007,877
2	Fairbanks <sup>3</sup>	46	Yes	\$941,755	\$941,755	- \$369,074	\$572,681	\$214,216
3	Kenai <sup>3</sup>	21	Yes	\$1,820,471	\$1,820,471	- \$144,728	\$1,675,743	\$905,235
4	Norfolk	42	Yes	\$2,891,072	\$2,891,072	- \$1,236,801	\$1,654,271	\$577,634
5	Wilkes-Barre <sup>3</sup>	33	Yes	\$932,226	\$932,226	- \$162,659	\$769,567	\$411,102
6	Minneapolis <sup>3</sup>	31	Yes	\$922,954	\$922,954	- \$126,503	\$796,451	\$262,215
7	Denver-Greeley <sup>3</sup>	32	Yes	\$948,603	\$948,603	- \$321,658	\$626,945	\$247,159
8	Grand Junction including ZDV-ZLC extended system <sup>5</sup>	26	Yes <sup>4</sup>	\$2,770,354	\$2,770,354	\$1,859,242	\$4,629,596	\$1,031,358
9	Parshall-Red Table	43	Yes	\$2,007,177	\$2,007,177	- \$259,255	\$1,747,922	\$664,417
10	Miller Peak-Missoula incl. ZSE-BZN & ZLC-BXN extended system <sup>5</sup>	45	Yes	\$1,858,494	\$1,858,494	\$3,042,059	\$4,900,553	\$1,138,034
11	Medford including ZOA-ZSE extended system <sup>3,5</sup>	20	Yes	\$1,803,988	\$1,803,988	\$2,844,459	\$4,648,447	\$1,007,216
12	Pasco-Walllula	28	Yes <sup>4</sup>	\$949,670	\$949,670	- \$45,468	\$904,202	\$537,375
13	Atlanta	30	No <sup>4</sup>	\$941,691	\$941,691	- \$334,418	\$607,273	\$311,966
14	Puerto Rico-Virgin Islands	37	No <sup>4</sup>	\$10,661,432	\$10,661,432	- \$3,458,779	\$7,202,653	\$2,701,259
15	Albuquerque Airport <sup>3</sup>	30	Yes	\$1,842,874	\$1,842,874	\$1,187,637	\$3,030,511	\$1,596,652
16	Albuquerque-Gallup including ZAB-ZDV extended system <sup>3,5</sup>	40	Yes	\$2,737,380	\$2,737,380	\$1,454,282	\$4,191,662	\$858,003
17	Boron-Rand <sup>3</sup>	44	Yes	\$884,982	\$884,982	- \$884,982	\$0	\$0
18	Guam	28	Yes <sup>4</sup>	\$2,898,490	\$2,898,490	- \$515,549	\$2,382,941	\$949,082
19	Hawaiian Islands	22	No <sup>4</sup>	\$11,023,227	\$11,023,227	- \$3,140,697	\$7,882,530	\$3,805,599
20	Hilo	42	Yes	\$1,898,923	\$1,898,923	\$367,017	\$2,265,940	\$1,183,157
21	American Samoa	37	Yes	\$969,346	\$969,346	- \$356,141	\$613,205	\$308,006
<b>Total</b>				<b>\$58,062,020<sup>2</sup></b>	<b>\$58,062,020<sup>2</sup></b>	<b>\$ 0</b>	<b>\$58,062,020<sup>2</sup></b>	<b>\$22,717,563</b>

<sup>1</sup> The estimated relocation timeframe listed in the February 2007 Office of Management and Budget (OMB) Report to Congress was 48 months.

<sup>2</sup> A value of \$58,062,020 was contained in the National Telecommunications and Information Administration (NTIA) report to the Federal Communications Commission and Congress, dated December 2005, and the Congressional notification from OMB, dated February 16, 2007. This is the amount that was actually transferred to the FAA. In response to a request for data for this report, the FAA reported a value of \$58,062,027 for their total estimated relocation costs based on the summation of individual systems. The difference appears to be due to rounding.

<sup>3</sup> The FAA indicated it has completed the relocation of the Anchorage, Kenai, Wilkes-Barre, Denver-Greeley, Minneapolis, Medford, Fairbanks, Albuquerque Airport, Albuquerque-Gallup, and Boron-Rand systems, although funds may continue to be used to implement the transition. The FAA notes the Albuquerque-Gallup 1710-1755 MHz link was decommissioned in March 2008, although replacement of system 16 is pending.

<sup>4</sup> The FAA is requested a 12-month extension for these systems due to changes in radio configuration that require the re-engineering of frequencies. NTIA and OMB have not granted a time extension to this agency, and transition plans are being developed and implemented in a manner that will not negatively impact critical federal functions, nor the commercial licensees' rollout of services. The FAA does not anticipate any impact on the deployment of commercial wireless services because the locations of the FAA systems in question are extremely remote. However, three of six systems (8 – Grand Junction (not including the ZDV-ZLC extended system), 12 – Pasco-Walllula, and 18 – Guam) were all completed by November 2009 after the FAA submission of the extension request to NTIA/OMB.

<sup>5</sup> In June 2008, the FAA stated the NTIA/OMB approved the FAA solution including five extended 7125-8500 MHz RCL systems that were not part of the original 1710-1755 MHz relocation submission. Consistent with this, the FAA is transferring funds from some of the 1710-1755 MHz systems to the five systems which include these 7125-8500 MHz systems. These five systems include Grand Junction (1 extended 7125-8500 MHz system ZDV-ZLC), Miller Peak-Missoula (2 extended 7125-8500 MHz systems: ZSE-BZN & ZLC-BZN), Medford (ZOA-ZSE) and Albuquerque-Gallup (ZAB-ZDV).

<sup>6</sup> Agencies indicate they are transferring funds between systems due to either higher or lower than estimated costs to relocate and this action does not affect the total amount received from the SRF.

<sup>7</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.

# Department of Treasury

## Internal Revenue Service (IRS)

System Number	System Name <sup>1</sup>	Estimated Relocation Timeframe (Months)	Status (On Time) <sup>3</sup>	Estimated Relocation Cost <sup>2</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
1	Covert Video Surveillance	28	Yes	\$4,409,000	\$4,409,000	\$0	\$0	\$877,509
<b>Total</b>				<b>\$4,409,000</b>	<b>\$4,409,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$877,509</b>

<sup>1</sup> The February 2007 Office of Management and Budget (OMB) Report to Congress lists the IRS as having 100 systems, but that number represented the total number of devices affected by this relocation rather than the total number of systems. The aggregate number of devices should be considered part of one system for tracking purposes.

<sup>2</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.

<sup>3</sup> The IRS has indicated this system has been relocated from the 1710-1755 MHz band, although funds may continue to be used to implement the transition.

## Inspector General for Tax Administration (IGTA)

System Number	System Name <sup>1</sup>	Estimated Relocation Timeframe (Months)	Status (On Time) <sup>3</sup>	Estimated Relocation Cost <sup>2</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
1	Covert Video Surveillance	28	Yes	\$892,000	\$892,000	\$0	\$0	\$89,589
<b>Total</b>				<b>\$892,000</b>	<b>\$892,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$89,589</b>

<sup>1</sup> The February 2007 Office of Management and Budget (OMB) Report to Congress lists IGTA as having ten systems. The correct number should be one since the number reported in February 2007 represented the total number of devices affected by this relocation rather than the total number of systems. The aggregate number of devices should be considered part of one system for tracking purposes.

<sup>2</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.

<sup>3</sup> The IGTA has indicated this system has been relocated from the 1710-1755 MHz band, although funds may continue to be used to implement the transition.

# National Aeronautics and Space Administration

## National Aeronautics and Space Administration (NASA)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>2</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments <sup>4</sup>	Adjusted Total	Cumulative Outlays
1	Air-to-Ground Video Telemetry System	24 <sup>5</sup>	No	\$720,000	\$720,000	\$401	\$720,401	\$600,354
2	Video Surveillance System	12 <sup>1</sup>	Yes	\$20,000	\$20,000	-\$401	\$19,599	\$ 19,599 <sup>3</sup>
<b>Total</b>				<b>\$740,000</b>	<b>\$740,000</b>	<b>\$ 0</b>	<b>\$740,000</b>	<b>\$619,953</b>

<sup>1</sup> NASA has indicated this system has been relocated from the 1710-1755 MHz band, although funds may continue to be used to implement the transition.

<sup>2</sup> This refers to the pre-relocation estimates as indicated in the February 2007 Office of Management and Budget Report to Congress.

<sup>3</sup> The reported cost to replace and relocate System 2 Video Surveillance System was \$20,000.00. This was reported as a cumulative outlay in 2008 as \$20,000.00; however it was reported in error and should have been \$19,599.00. The \$401.00 was transferred to System 1.

<sup>4</sup> Agencies indicate they are transferring funds between systems due to either higher or lower than estimated costs to relocate and this action does not affect the total amount received from the SRF.

<sup>5</sup> NASA has stated it will be requesting a 15 month extension until May 2010 due to a delay in the procurement of various equipment. NASA has indicated they have initiated coordination with affected AWS licensees and the preliminary results indicate there are no objections from those contacted. NASA does not anticipate the requested delay will have an impact on the deployment of commercial wireless services.

# Tennessee Valley Authority

## Tennessee Valley Authority (TVA)

System Number	System Name	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>2</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments <sup>3</sup>	Adjusted Total	Cumulative Outlays
1	Nashville – Paradise Fossil Plant	48	Yes	\$4,396,600	\$7,729,800 <sup>1</sup>	-\$235,800	\$7,494,000	\$3,988,000
2	Shawnee Fossil Plant - DOE USEC	36	Yes	\$1,993,900	\$1,993,900	\$177,800	\$2,171,700	\$2,127,000
3	Weakley – Hickman	48	Yes	\$1,109,300	\$1,109,300	\$0	\$1,109,300	\$849,000
4	Power System Control Center - Bellefonte Nuclear Plant	48	Yes	\$1,875,400	\$1,875,400	-\$87,000	\$1,788,400	\$1,466,000
5	Oak Ridge - Bull Run Fossil Plant	36	Yes	\$656,330	\$656,330	-\$70,000	\$586,330	\$560,000
6	Franklin – Sewanee	36	Yes	\$656,327	\$656,327	\$215,000	\$871,327	\$824,000
<b>Total</b>				<b>\$10,687,857</b>	<b>\$14,021,057</b>	<b>\$ 0</b>	<b>\$14,021,057</b>	<b>\$9,814,000</b>

<sup>1</sup> As indicated in the August 27, 2008 Office of Management and Budget (OMB) Congressional notification , OMB made a subsequent transfer of \$3.3332 million from the SRF to TVA in accordance with the provisions of the Commercial Spectrum Enhancement Act.

<sup>2</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.

<sup>3</sup> Agencies indicate they are transferring funds between systems due to either higher or lower than estimated costs to relocate and this action does not affect the total amount received from the SRF.

# United States Postal Service

## Inspection Service

System Number	System Name <sup>1</sup>	Estimated Relocation Timeframe (Months)	Status (On Time)	Estimated Relocation Cost <sup>3</sup>	Total Transferred From Spectrum Relocation Fund (SRF)	Intra-Agency Adjustments	Adjusted Total	Cumulative Outlays
USPS001	Video Surveillance	12 <sup>2</sup>	Yes	\$1,761,760	\$1,761,760	\$0	\$0	\$1,701,760
<b>Total</b>				<b>\$1,761,760</b>	<b>\$1,761,760</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$1,701,760</b>

<sup>1</sup> The February 2007 Office of Management and Budget (OMB) Report to Congress lists the Inspection Service as having 508 systems. The United States Postal Service/Inspection Service reports it is in fact one system utilizing 508 devices.

<sup>2</sup> USPS/Inspection Service has indicated this system has been relocated from the 1710-1755 MHz band, although it may continue to use funds to implement the transition.

<sup>3</sup> This refers to the pre-relocation estimates as indicated in the February 2007 OMB Report to Congress.