ROCKY



Final Capital Investment Program Plan 2006-2015

FY2006.2

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1 INTRODUCTION

Western Area Power Administration (Western) is committed to maintaining and operating a reliable transmission system. The capital investment program plays an important role in Western's ability to provide cost effective, reliable power delivery to our customers.

The purpose of the Capital Investment Program Plan (Plan) is to present Western's Rocky Mountain Region (RMR) capital investment plan, to provide a mechanism for customer collaboration, and to clearly describe challenges, goals, strategies, and measurements for the Plan.

The Plan contains general information on the creation and maintenance of the capital investment program, the current ten year plan, and goals, challenges, strategies and success indicators for the capital program.

The Plan is revised annually in response to changes in funding levels, unforeseen problems with the transmission system, mandates or regulations, and new contractual obligations. When changes to the Plan are made to accommodate higher priority projects, existing projects are reduced in scope, delayed, or deleted.

The Plan is divided into the following six major program areas:

- Transmission Line Improvements and Replacements
- Substation Improvements and Replacements
- Communication System Improvements and Replacements
- Control, Protection and Metering Improvements and Replacements
- Mobile Equipment Replacements
- Programmatic Improvements and Replacement

2 PROGRAM OVERVIEW

This section will summarize information about major accomplishments and project plans for the next several years. The data is broken out by power system. The information addresses major accomplishments of the prior fiscal year, planned projects for the current fiscal year and significant changes to the Plan since its last publication.

2.1 Colorado River Storage Project (CRSP) Facilities

2.1.1 CRSP FY05 Accomplishments

CRSP Communication Facility Projects. Progress continued to replace the analog microwave system with a new digital system. Paths between Lands End and Upper Molina and Lower Molina communication sites were replaced. Also, four projects provided new microwave communication buildings and equipment at Flaming Gorge, Grizzly Ridge, Vernal, and Sunlight Peak sites.

Shiprock-Four Corners 345-kV Conversion. Work was completed to replace current transformers and disconnect switch parts which were limiting elements of the line rating. Completion of these tasks allowed the line rating to equal the thermal rating.

Other Equipment Replacement Efforts. High-voltage circuit breakers were replaced at Archer and Hayden Substations. Western also replaced reactors at Curecanti Substation.

2.1.2 CRSP FY06 Planned Activities

Animas-La Plata Project Power. One of the earmarks to the FY05 Energy and Water Development Appropriation Act was for the full funding of the facilities Western will construct as part of the Animas-La Plata Project. Western will construct a new 115-kV transmission line circuit and substation to provide power for the pumping plant being installed as part of the project in Durango, Colorado. In FY06, Western will continue project planning, begin design, and order transformers. A request to Tri-State for a new interconnection at Durango Substation has been made. The required in-service date is September 2007.

Flaming Gorge Transformer Uprate. The project scope is to replace an existing 100 MVA 230/138-kV transformer with a 250 MVA unit to address transformer overloading problems. Design will start early in FY06 with the transformer procurement planned for the second quarter of the year. The planned in-service date is May 2007.

CRSP Communication Facility Projects. A significant expenditure over the next several years will continue to be for the replacement of the old analog microwave

system with new digital technology. A large part of this work has already been completed on the backbone microwave system in partnership with other utilities. Most of the remaining work consists of installing digital communications links from the backbone system to individual substations. The work is expected to be complete in FY08.

Great Cut Transformer. A transformer to replace the failed unit KX1A will be ordered and installed In FY06.

Other Equipment Replacement Efforts. The other items identified in the Plan are routine maintenance activities such as replacing obsolete and worn-out substation equipment, purchase of supplies to repair and replace damage to transmission lines, and specialized equipment for the crews to accomplish maintenance of the system. High-voltage circuit breaker replacements are planned at Archer, Hayden, and Curecanti Substations. Transformer monitors are planned for installation on the Waterflow Substation phase shifting transformers, and the Hayden station service switchgear will be replaced.

Recent load testing of substation and communication site backup battery banks has identified an unusually high rate of failures in the newer valve regulated cells. Several of these sites are scheduled for cell replacements in 2006.

2.2 Loveland Area Projects (LAP) Facilities

2.2.1 LAP FY05 Accomplishments

Communication Facility Projects. Progress continued in replacing the analog microwave system with a new digital system. In FY05 the following five microwave communication paths were replaced: McCullough Peak to Meeteetse MW; Raderville MW to Raderville Substation; Horse Heaven to Spence; Casper Office to Casper Substation; Seminoe MW to Miracle Mile Substation. As part of this project, the microwave repeater site at East Prior was completely rebuilt.

Western also completed installation of fiber-optic cables on its existing transmission lines between the Valley and Estes Substations and between the Cheyenne and Archer Substations.

Lovell-Thermopolis Transmission Line. In November 2004, Western crews completed the replacement of 10 miles of structures on the Lovell-Thermopolis 115-kV transmission line. These replacements address a section of line with a high number of rejected structures.

Yellowtail Transformer Addition. Western relocated its spare 115/230-kV 167 MVA transformer from the Shiprock Substation in Arizona. It is now installed in parallel with the existing 130 MVA transformer at the Yellowtail Switchyard. A 115-kV bay was added and an existing 230-kV bay was modified to accommodate

the additional transformer. The addition of the second transformer allows full utilization of Western's 225-MW capacity in the Yellowtail South constrained path for all levels of Yellowtail generation, eliminates the need to purchase transmission from PacifiCorp, increases reliability between the 115-kV and 230-kV yards, and provides transformer maintenance flexibility. A leaking bushing on the transformer has delayed the planned in-service date of these additions until December 2005.

Whiterock Substation. The new Whiterock Substation was commissioned in January 2005. This station sectionalizes Western's Glendo-Stegall North and South 115-kV transmission lines. This station provides voltage support in the Platte Valley region, and provides a second source of power to the Limestone-Platte Valley region and the Limestone-Platte Pipeline 34.5-kV line. Included in the project was the relocation of the Lyman-Yoder Tap from the North to the South line, providing additional voltage stability and reliability in the area.

Wray Substation. A joint Western/Tri-State project provided major renovations of the existing Wray Substation that included installing a 115-kV circuit switcher and takeoff structures, new 115-kV and 12.47-kV buswork, new relaying and associated controls, and communications equipment. The project will also provide for an emergency feed from Tri-State's Wauneta-Wray 115-kV line planned in FY06, which will support service in the area in the event of an outage on Western's line. The project improves the substation's reliability as well as the electric service to the Y-W Electric Association and the City of Wray.

Whitney Switching Station. Western and Poudre Valley REA partnered in a project to construct a new six-breaker 115-kV switching station in Windsor, Colorado. The project improves reliability to Western's Kodak-Airport and Kodak-Weld 115-kV transmission lines and to Poudre Valley's Kodak loads, while establishing a delivery point to serve a new Poudre Valley customer, the Owens-Brockway Bottling Plant.

Badwater Substation. A 69-kV bay addition was constructed at Western's Badwater Substation to serve the added load of Express Pipeline, Inc., a High Plains Power customer. The project included installing a breaker, disconnect switches, and associated instrument transformers.

Granby Pumping Plant (GPP) Switchyard - West Portal Optical Fiber Ground Wire (OPGW). In this 8.9-mile line section, one overhead ground wire will be replaced with a 48-fiber OPGW. The optical fibers will be equally allocated between Western and the Northern Colorado Water Conservancy District (District) to support the LAP power systems and the Colorado-Big Thompson project communications. The installation will complete the fiber optic backbone that already includes Valley-Estes (installed 2004), Estes-East Portal (installed 1992), and East Portal-West Portal (installed 1984). Planning and design activities were completed in 2005. **McGrew Substation.** Western maintenance personnel installed two sets of polemounted shunt capacitor banks on two 34.5-kV lines that terminate at the McGrew Substation in southeastern Scottsbluff County, Nebraska.

Other Equipment Replacement Efforts. A high-voltage circuit breaker was replaced at Chappell Substation. Western also replaced regulators at Glendale Substation and control systems at Glendo Substation. Western continued its wooden pole test and treatment program.

2.2.2 LAP FY06 Planned Activities

Granby Pumping Plant (GPP)-Windy Gap 69-kV Rebuild. Western is developing a project to ensure system reliability before loss of the Adams Tunnel Cable circuit. The project will rebuild the 65-year-old 69-kV line from Windy Gap to GPP as well as add a new 138-kV line on the same structures. A 138/69-kV transformer will be added within the GPP switchyard. The project is a joint effort among the Northern Colorado Water Conservancy District, Tri-State and Western.

Ault-Cheyenne-Miracle Mile Transmission Line Rebuilds

For the past several years, RMR has been developing a series of projects to rebuild the Cheyenne-Miracle Mile and Ault-Cheyenne 115-kV lines. The result of the projects will be a new Ault-Miracle Mile 230-kV line and a rebuilt Ault-Cheyenne 115-kV line. In addition to the transmission line projects, several associated substation projects at Ault, Miracle Mile, Cheyenne and Snowy Range are required.

Cheyenne-Miracle Mile 115-kV: Western plans to rebuild this transmission line in southern Wyoming to 230-kV specifications. The environmental and survey tasks for this project are completed. In FY06, RMR plans to acquire necessary ROW easements, develop design and specifications, and award a construction contract. The planned in-service date is September 2009.

Snowy Range Substation: Western will build the Snowy Range Substation in Laramie, Wyoming, to address a number of customer load service concerns and to sectionalize the two long lines. Further, once the existing Cheyenne-Miracle Mile 115-kV line is rebuilt and operated as the Ault-Miracle Mile 230-kV line, the new source at Snowy Range will increase reliability and voltage support to the Laramie and Cheyenne areas. Snowy Range 115-kV Substation began design in FY05 with a planned construction contract award in 2nd quarter of FY06. The in-service date is February 2007. The 230-kV additions at Snowy Range are scheduled from FY07 to FY09.

Ault-Cheyenne 115-kV: Western plans to rebuild this transmission line as a double circuit 230/115kV. The environmental and survey tasks for this project are completed. In FY06, RMR will continue developing the project plan. In FY07, RMR will acquire any necessary ROW easements, develop design and

specifications, and in FY08 award a construction contract. The planned inservice date is September 2009.

Ault, Miracle Mile and Cheyenne 230-kV additions: The Ault, Miracle Mile, and Cheyenne projects are to add the necessary 230-kV facilities and transformation for the Ault-Miracle Mile 230-kV line. These projects will begin in FY07 with planning and design. The In-service date for each is September 2009.

Front Range Transmission Improvement Projects. In 2003, Western developed a comprehensive plan to systematically rebuild numerous 115-kV lines in Northern Colorado's Front Range. The plan for these projects has been further defined each year. FY05 saw the development of a joint project with Platte River Power Authority for rebuilding approximately 10 miles of transmission lines. Also in FY05, Western and Tri-State worked toward a possible joint project to rebuild the Beaver Creek-Hoyt and Hoyt-Erie 115-kV lines totaling 78 miles. This project would also include new 230-kV yards at Beaver Creek and Erie.

Hoyt-Wiggins Transmission Line. This 13.1-mile line section is being rebuilt in a two-phased effort using Western's crews to tear out the existing line and install new structures. A contractor will install hardware, insulators, and conductors. The line is being rebuilt using 477 ACSR conductor and will prevent a reduction in future TOT3 capacity during the planned rebuild of the Beaver Creek-Hoyt transmission line in 2006. Also, the project replaces a section of aging transmission line for which maintenance costs have increased significantly. In-service is expected by April 2006.

Beaver Creek-Hoyt Transmission Line. To avoid a reduction in the total transfer capability of TOT3, Western is planning a project to rebuild the existing 32.4-mile line at 230-kV. Although the line has operated reliably, its 109 MVA rating can reduce the total transfer capability of the TOT3 transmission path between northeastern Colorado and southeastern Wyoming by as much as 500 MW. Tasks planned for FY06 are completion of design, acquisition of any required ROW and award of a construction contract. The planned in-service date is May 2007.

Eastern Plains Transmission Project. Western is in the conceptual planning phase to partner on this project intended to upgrade and expand the transmission system in southeastern Colorado and southwestern Kansas. The proposal is to construct several high voltage transmission lines with the final configuration and voltage classification depending on results of system planning studies. Western proposes to acquire capacity on the transmission system for purposes of economical transfer of Federal hydroelectric power and improving the reliability of the Federal transmission system.

Platte Valley Voltage Conversion: The lines in this area were rebuilt from 34.5-kV construction to 69-kV construction in the early 1990s. Western has been planning to begin converting the lines between Lingle and Gering to 69-kV operation starting in 2007 with a target completion in 2015. With the addition of Whiterock Substation and other improvements in the area, Western is delaying the start of the conversion projects from 2007 to 2011. The target completion date remains 2015.

Willoby Switchyard 115-kV: Western and Tri-State are working on an agreement to construct Willoby Switchyard at the site of the present Prospect Valley Tap. This project will provide additional voltage support for the future Boomerang Tap delivery off Western's Kiowa Creek-Weld 115-kV line. The scheduled in-service date is December 2007.

Torrington Substation KY2A Addition: Load forecasts show significant new loads being served from Torrington Substation which will exceed the rating of the existing transformer. A project is being developed to add a second 115/34.5-kV transformer in parallel to meet the new loads. Western will participate in this project since this additional transformer will serve as an integral link between the 115-kV system and the future 69-kV system being developed as part of the Platte Valley Voltage Conversion Project.

Communication Facility Projects: A significant expenditure over the next several years will continue to be the replacement of the old analog microwave system with new digital technology. A large part of this work has already been completed on the backbone microwave system in partnership with other utilities. Most of the remaining work consists of installing digital communications links from the backbone system to individual substations. The work is expected to be complete in FY07.

Fiber Optic cables will be installed this year on several Western transmission lines in the Cody, Wyoming area. These cables will replace analog microwave radio links between North Cody, Buffalo Bill, and Heart Mountain Substations.

Other Equipment Replacement Efforts. The other items identified in the Plan are routine maintenance activities such as replacing obsolete and worn-out substation equipment, purchase of supplies to repair and replace damage to transmission lines, and specialized equipment for the crews to accomplish maintenance of the system. High-voltage circuit breaker replacements are planned at Gering and Glendo Substations. Station Service switchgear will be replaced at Gering Substation. The HVAC system will be replaced at Virginia Smith DC Tie.

Recent load testing of substation and communication site backup battery banks has identified an unusually high rate of failures in the newer valve regulated cells. Several of these sites are scheduled for cell replacements in 2006.

2.3 Joint Power System Projects

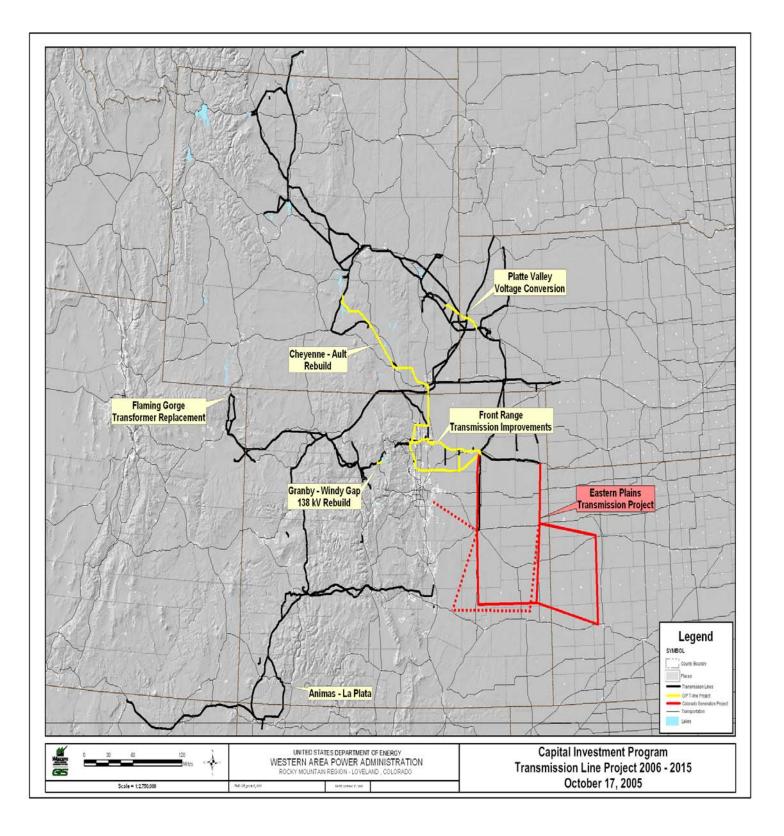
2.3.1 Joint LAP & CRSP FY05 Accomplishments

Alternate Control Center. In 2004, Western commissioned its Alternate Control Center (ACC). The ACC provides continued real-time power system operation in the event of a loss of primary control center functionality. The ACC supports all SCADA functionality, including monitoring and control of critical facilities, AGC, reserve monitoring, power system modeling, inter-utility data exchange, WECC messaging, and the Rocky Mountain Reserve Group (RMRG), as well as tagging and schedule administration applications. The ACC provides backup facilities for the Western Area Colorado-Missouri (WACM) control center operations, the Rocky Desert Reliability Coordination (RDRC) office, and WECC database operations for the Extremely High Voltage (EHV) data pool.

The ACC is required to meet the North American Electric Reliability Council (NERC) standards and has been exercised in Fall 2004, Spring 2005, and Fall 2005. Each exercise consists of dispatching from the ACC for a four-hour period. The Spring 2006 exercise will include the United States Bureau of Reclamation (USBR) Loveland Control Center generation control functionality. USBR personnel will monitor and control their power plant operations from the ACC.

2.3.2 Joint LAP & CRSP FY06 Planned Activities

RMR Dispatch Map Board. The map board in the Operations Dispatch Center provides a large format, real-time visual display of all important operational data in the WACM Control Area. The display is a matrix of individual rear-projection video monitors that are controlled by a computer to display a large continuous image. The primary maintenance of the map board has been replacement of the projector lamps that have a life of about 400 hours. Recently, the manufacturer of the monitors has given Western notice that it will no longer manufacture replacement bulbs for the monitors. The map board display must be replaced prior to running out of spare bulbs. RMR will plan and design for the map board replacement in FY06 with award and completion in FY07.



3 PROGRAM SUMMARY BUDGET

The following spreadsheet summarizes Western's capital program budget estimates by major program area.

Revised: 3/7/2006

Rocky Mountain Region Capital Projects Ten Year Plan

Total Costs (x1000)

Piele Ole	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015
Pick Sloan T-Line Improvements and Replacements		24,370	30,801	12,230	24,480	20,850	14,750	8,890	11,650	17,845	9,795
Substation Improvements and Replacements		9,484	8,377	10,947	8.108	20,850	2,122	1,952	7,685	2,799	3,940
Communication System Improvements and Replacements		2,024	589	350	1.860	1,214	1,400	770	900	900	900
Substation Control, Protection, and Metering		904	850	770	1,055	1,055	970	740	740	740	790
Mobile and Heavy Equipment Replacements	FY2005	837	300	1,395	600	600	600	600	600	600	600
Buildings and Programmatic Investments	Actuals	2,323	2,217	1,749	733	803	698	1,248	735	726	726
Total	10,047	39,942	43,134	27,441	36,836	26,655	20,540	14,200	22,310	23,610	16,751
FY2005 CIP Plan Totals		,	,	,	,	,	,	,	,	,	
CRSP	19,010	41,351	31,381	25,236	17,990	14,840	31,100	21,450	28,380	22,980	
T-Line Improvements and Replacements		3,502	1,796	325	450	530	130	50	50	50	50
Substation Improvements and Replacements		3,302 4,994	1,612	1,090	1,680	1,456	1,530	1,230	1,490	1,440	1.440
Communication System Improvements and Replacements		2,785	2,175	650	295	125	1,550	1,230	1,490	100	1,440
Substation Control, Protection, and Metering		2,785	750	790	790	790	790	790	790	790	790
Mobile and Heavy Equipment Replacements	FY2005	165	185	350	500	500	500	500	500	500	500
Buildings and Programmatic Investments	Actuals	1,501	1,413	1,187	856	927	798	1,435	858	825	825
Total	6,260	13,717	7,931	4,392	4,571	4,328	3,848	4,105	3,788	3,705	3,705
-		,	,		,	,	,	,	,		3,703
FY2005 CIP Plan Totals	5,305	12,080	7,470	5,020	4,566	5,393	5,018	4,275	3,878	3,795	
Pick Sloan	Wes	stern-only Cos	sts (x1000)								
T-Line Improvements and Replacements	Wes	tern-only Cos 20,870	13,380	10,730	14,805	11,175	14,750	8,890	11,650	17,845	9,795
T-Line Improvements and Replacements Substation Improvements and Replacements	Wes		、	10,730 10,866	14,805 8,030	11,175 2,093	14,750 2,122	8,890 1,952	11,650 7,685	17,845 2,799	9,795 3,940
T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements	Wes	20,870	13,380	,	8,030 1,785	,		,	,	,	,
T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements Substation Control, Protection, and Metering		20,870 7,934	13,380 7,656	10,866 350 770	8,030	2,093	2,122	1,952	7,685	2,799	3,940
T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements Substation Control, Protection, and Metering Mobile and Heavy Equipment Replacements	Wes	20,870 7,934 1,644 904 837	13,380 7,656 500	10,866 350	8,030 1,785 1,055 600	2,093 1,214	2,122 1,400	1,952 770	7,685 900 740 600	2,799 900 740 600	3,940 900 790 600
T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements Substation Control, Protection, and Metering	FY2005 Actuals	20,870 7,934 1,644 904 837 2,323	13,380 7,656 500 850	10,866 350 770	8,030 1,785 1,055	2,093 1,214 1,055	2,122 1,400 970	1,952 770 740	7,685 900 740	2,799 900 740 600 726	3,940 900 790
T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements Substation Control, Protection, and Metering Mobile and Heavy Equipment Replacements	FY2005	20,870 7,934 1,644 904 837	13,380 7,656 500 850 300	10,866 350 770 1,395	8,030 1,785 1,055 600	2,093 1,214 1,055 600	2,122 1,400 970 600	1,952 770 740 600	7,685 900 740 600	2,799 900 740 600	3,940 900 790 600
T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements Substation Control, Protection, and Metering Mobile and Heavy Equipment Replacements Buildings and Programmatic Investments	FY2005 Actuals	20,870 7,934 1,644 904 837 2,323	13,380 7,656 500 850 300 2,217	10,866 350 770 1,395 1,749	8,030 1,785 1,055 600 733	2,093 1,214 1,055 600 803	2,122 1,400 970 600 698	1,952 770 740 600 1,248	7,685 900 740 600 735	2,799 900 740 600 726	3,940 900 790 600 726
T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements Substation Control, Protection, and Metering Mobile and Heavy Equipment Replacements Buildings and Programmatic Investments Total	FY2005 Actuals 8,923	20,870 7,934 1,644 904 837 2,323 34,512	13,380 7,656 500 850 300 2,217 24,903	10,866 350 770 1,395 <u>1,749</u> 25,860	8,030 1,785 1,055 600 733 27,008	2,093 1,214 1,055 600 803 16,940	2,122 1,400 970 600 698 20,540	1,952 770 740 600 1,248 14,200	7,685 900 740 600 735 22,310	2,799 900 740 600 726 23,610	3,940 900 790 600 726
T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements Substation Control, Protection, and Metering Mobile and Heavy Equipment Replacements Buildings and Programmatic Investments Total	FY2005 Actuals 8,923	20,870 7,934 1,644 904 837 2,323 34,512	13,380 7,656 500 850 300 2,217 24,903	10,866 350 770 1,395 <u>1,749</u> 25,860	8,030 1,785 1,055 600 733 27,008	2,093 1,214 1,055 600 803 16,940	2,122 1,400 970 600 698 20,540	1,952 770 740 600 1,248 14,200	7,685 900 740 600 735 22,310	2,799 900 740 600 726 23,610	3,940 900 790 600 726
T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements Substation Control, Protection, and Metering Mobile and Heavy Equipment Replacements Buildings and Programmatic Investments Total FY2005 CIP Plan Totals	FY2005 Actuals 8,923	20,870 7,934 1,644 904 837 2,323 34,512 31,916	13,380 7,656 500 850 300 <u>2,217</u> 24,903 30,028	10,866 350 770 1,395 1,749 25,860 25,146	8,030 1,785 1,055 600 <u>733</u> 27,008 17,990	2,093 1,214 1,055 600 803 16,940 14,735	2,122 1,400 970 600 <u>698</u> 20,540 29,200	1,952 770 740 600 1,248 14,200 21,150	7,685 900 740 600 <u>735</u> 22,310 28,380	2,799 900 740 600 726 23,610 22,980	3,940 900 790 600 <u>726</u> 16,751
T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements Substation Control, Protection, and Metering Mobile and Heavy Equipment Replacements Buildings and Programmatic Investments Total FY2005 CIP Plan Totals	FY2005 Actuals 8,923	20,870 7,934 1,644 837 2,323 34,512 31,916 3,502	13,380 7,656 500 850 300 2,217 24,903 30,028	10,866 350 770 1,395 <u>1,749</u> 25,860 25,146 325	8,030 1,785 1,055 600 733 27,008 17,990 450	2,093 1,214 1,055 600 803 16,940 14,735 530	2,122 1,400 970 600 <u>698</u> 20,540 29,200	1,952 770 740 600 1,248 14,200 21,150 50	7,685 900 740 600 735 22,310 28,380 50	2,799 900 740 600 726 23,610 22,980 50	3,940 900 790 600 726 16,751 50
T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements Substation Control, Protection, and Metering Mobile and Heavy Equipment Replacements Buildings and Programmatic Investments Total FY2005 CIP Plan Totals	FY2005 Actuals 8,923 17,443	20,870 7,934 1,644 837 2,323 34,512 31,916 3,502 4,786	13,380 7,656 500 850 300 2,217 24,903 30,028 1,796 1,612	10,866 350 770 1,395 1,749 25,860 25,146 325 1,090	8,030 1,785 1,055 600 733 27,008 17,990 450 1,680	2,093 1,214 1,055 600 803 16,940 14,735 530 1,456	2,122 1,400 970 600 698 20,540 29,200 130 1,530	1,952 770 740 600 1,248 14,200 21,150 50 1,230	7,685 900 740 600 735 22,310 28,380 50 1,490	2,799 900 740 600 726 23,610 22,980 50 1,440	3,940 900 790 600 726 16,751 50 1,440
T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements Substation Control, Protection, and Metering Mobile and Heavy Equipment Replacements Buildings and Programmatic Investments Total FY2005 CIP Plan Totals CRSP T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements	FY2005 Actuals 8,923	20,870 7,934 1,644 904 837 2,323 34,512 31,916 3,502 4,786 2,785	13,380 7,656 500 850 300 2,217 24,903 30,028 1,796 1,612 2,175	10,866 350 770 1,395 1,749 25,860 25,146 325 1,090 650	8,030 1,785 1,055 600 733 27,008 17,990 450 1,680 295	2,093 1,214 1,055 600 803 16,940 14,735 530 1,456 125	2,122 1,400 970 600 698 20,540 29,200 130 1,530 100	1,952 770 740 600 1,248 14,200 21,150 50 1,230 100	7,685 900 740 600 735 22,310 28,380 50 1,490 100	2,799 900 740 600 726 23,610 22,980 50 1,440 100	3,940 900 790 600 726 16,751 50 1,440 100
T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements Substation Control, Protection, and Metering Mobile and Heavy Equipment Replacements Buildings and Programmatic Investments Total FY2005 CIP Plan Totals CRSP T-Line Improvements and Replacements Substation Improvements and Replacements Substation Improvements and Replacements Substation Control, Protection, and Metering	FY2005 Actuals 8,923 17,443	20,870 7,934 1,644 904 837 2,323 34,512 31,916 3,502 4,786 2,785 770	13,380 7,656 500 850 300 2,217 24,903 30,028 1,796 1,612 2,175 750	10,866 350 770 1,395 1,749 25,860 25,146 325 1,090 650 790	8,030 1,785 1,055 600 733 27,008 17,990 450 1,680 295 790	2,093 1,214 1,055 600 <u>803</u> <u>16,940</u> 14,735 530 1,456 125 790	2,122 1,400 970 600 698 20,540 29,200 130 1,530 100 790	1,952 770 740 600 <u>1,248</u> <u>14,200</u> 21,150 50 1,230 100 790	7,685 900 740 600 735 22,310 28,380 50 1,490 100 790	2,799 900 740 600 726 23,610 22,980 50 1,440 100 790	3,940 900 790 600 726 16,751 50 1,440 100 790
T-Line Improvements and Replacements Substation Improvements and Replacements Communication System Improvements and Replacements Substation Control, Protection, and Metering Mobile and Heavy Equipment Replacements Buildings and Programmatic Investments Total FY2005 CIP Plan Totals CRSP T-Line Improvements and Replacements Substation Improvements and Replacements Substation System Improvements and Replacements Substation Control, Protection, and Metering Mobile and Heavy Equipment Replacements	FY2005 Actuals 8,923 17,443 FY2005	20,870 7,934 1,644 904 837 2,323 34,512 31,916 3,502 4,786 2,785 770 165	13,380 7,656 500 850 300 2,217 24,903 30,028 1,796 1,612 2,175 750 185	10,866 350 770 1,395 1,749 25,860 25,146 325 1,090 650 790 350	8,030 1,785 1,055 600 733 27,008 17,990 450 1,680 295 790 500	2,093 1,214 1,055 600 <u>803</u> <u>16,940</u> 14,735 530 1,456 1,456 125 790 500	2,122 1,400 970 600 698 20,540 29,200 130 1,530 100 790 500	1,952 770 740 600 1,248 14,200 21,150 50 1,230 100 790 500	7,685 900 740 600 735 22,310 28,380 50 1,490 100 790 500	2,799 900 740 600 726 23,610 22,980 50 1,440 100 790 500	3,940 900 790 600 726 16,751 50 1,440 100 790 500

4 PROGRAM SUMMARIES

The following sections summarize the goals, priorities, and significant near-term projects for Western's six major capital program areas. The investment costs shown are Western's projected estimates within the 3-year budget window for the more significant projects. It should also be noted that some of these projects have additional costs that occur either before or after the 3-year budget window.

4.1 Transmission Line Improvements and Replacements

The goal of the Transmission Line Facilities program is to develop a practical plan based on available resources that will satisfy system-operating criteria, extend service life of existing facilities and rehabilitate an aging infrastructure with nominal rate impact.

Priorities

- Use results of long-range system operations planning studies to identify strategic replacement or uprate projects. Incorporate into the Plan in order of merit, value, and priority.
- Continue existing wood pole testing, treatment, and replacement program.
- Evaluate all wood structure transmission line segments relative to age, historical maintenance concerns, and pole test program results to identify rebuild projects.

Major Projects	Investr	Investment (\$ thousands)							
	FY06	FY07	FY08						
Beaver Creek-Hoyt 230kV Upgrade ¹	3,800								
Granby Pumping Plant-Windy Gap Rebuild ¹	100	1,400	200						
Cheyenne-Miracle Mile 230-kV Upgrade	15,500	10,600	5,500						
Hoyt-Wiggins 115-kV Uprate	250								
Gering/Gering Valley 34.5-kV T-Line	100	225							
Animas-LaPlata Project ²	3,397	1,746	275						
Wood Pole Testing and Treatment	435	480	480						
Cheyenne-Ault 230-kV Upgrade	35	475	4,500						
Timnath – Black Hollow 230-kV Upgrade ¹	650	150							

¹ Joint project; Western cost shown.

². Non-reimbursable funding will be used.

4.2 Substation Improvements and Replacements

The Substation Equipment Improvement and Replacements program seeks to assure the highest possible reliability of substation equipment and to adequately meet the needs of a changing power system while minimizing life-cycle costs, environmental risks, and personnel hazards.

Priorities

- Extend the service lives of major substation equipment without compromising reliability.
- Replace major substation equipment when justified by increased maintenance costs, lack of spare parts, personnel hazards, or environmental risks.
- Replace oil breakers with SF-6 or vacuum breakers to reduce environmental risk.

Major Projects	Investment (\$ thousands)					
	FY06	FY07	FY08			
Willoby Switchyard 115-kV ¹	1,300	600	200			
Snowy Range Substation 115-kV	4,350	200				
Lusk Rural and Podolak Substation Improvements		120	280			
Torrington Substation Transformer (KY2A) Addition	350	350	50			
Limestone Substation 34.5-kV Additions & Control Rpl.	324	422				
Miracle Mile Substation 230-kV Additions		1,450	2,050			
Ault Substation 230-kV Additions		350	1,250			
Cheyenne 230-kV Additions		1,500	3,250			
Snowy Range Substation 230-kV		1,300	2,600			
Haxton Interrupter MOI 264 Replacement	50					
Fleming Interrupter MOI 164 Replacement	88					
Beaver Creek 230-kV Additions		50	400			
Power Transformer Replacements						
Granby PP Transformer Modifications ¹	200	88				
Great Cut KX1A	480	50				
Flaming Gorge KY2A & KY2B	2,767	125				
Sidney KY1A	50	646				
Garland KZ1A ¹		109	46			
Yellowtail 2 nd Transformer Addition	75					

¹ Joint project; Western cost shown.

Major Projects	Investr	nent (\$ the	ousands)
	FY06	FY07	FY08
Circuit Breaker and Switch Replacements			
Midway 1886, 1562, 1662,	69	90	90
Blue Mesa 1066, 1162, 1362, 1462	121	90	90
Gering Breakers 162, 462, 966 Replacement	274		
Glendo 524	63		
Raderville 115-kV Switch Upgrade	195	221	
Hayden 2772, 2872 & 2972	130		
Shiprock 3262, 3362, & 3462	127	85	85
Alcova 462, 662, 862, 1062 Replacement			450
Hayden 230-kV Switches ¹	4		
Ault 696 Rebuild ¹	111		
Archer 1566 Replacement	40		
Curecanti 1082 Replacement	177		
Reactor Replacements			
Hayden KV1A, KV1B, KV2A		240	240
Other Substation Work			
Gering SS Switchgear	25		
Hayden SS Switchgear Replacement	180	460	
CRSP Transformer Monitors			100
Waterflow KU1A Transformer Monitor	109		
Shiprock Transformer Monitor		100	
Curecanti Black Start MOD			150

4.3 Communication System Improvements and Replacements

The goal of the Communications System Improvements and Replacements program is to maximize the reliability and availability of the communications system by infrastructure investments while minimizing its life cycle cost and responding to changes in user requirements, technology, and regulations.

Priorities

- Replace analog MW radios with digital to reduce operational costs.
- Replace wide band radios with narrow-band to meet FCC mandates.
- Install fiber optic cable to reduce long term operational costs where appropriate.

Major Projects	Investment (\$ thousands)						
	FY06	FY07	FY08				
Microwave Spur Replacements – (Wyoming,							
Nebraska, N.E. Colorado)	825	200					
Microwave Spur Replacements – CRSP	2,400	1,900	150				
Estes-Valley Fiber Optic Installation	70						
Granby-West Portal Fiber Optic Installation	204						
VHF Mobile Radio Replacement	135						
Cody Fiber Optic Cable	345						
Archer Communications Building Replacement		25	200				
PMOC-Crossroads Fiber Optic Cable ¹	80						
Grouse Mountain Communications Bldg Replace.			200				
Blue Ridge Communications Building Replacement		200					
Buffalo Pass Communications Bldg. Replace.		200					
Raspberry Creek Communications Bldg. Replace.			200				

¹ Joint project; Western cost shown.

4.4 Control, Protection and Metering Improvements and Replacements

The goal of the Control, Protection and Metering program is to maintain and improve system reliability by the cost effective application of control, protection and metering technologies at Western substations and meter sites.

Priorities

- Replace electromechanical relays and revenue meters with microprocessor-based equipment.
- Replace obsolete QEI remote telemetry units (RTU)
- Implement Digital Control Systems (DCS) schemes in substations as opportunities arise.

Major Projects	Major Projects Investment (\$ thousands							
	FY06	FY07	FY08					
Protective Relay Replacements	1,278	1,380	1,380					
RTU Replacements	185	60	30					

4.5 Mobile Equipment Replacements

The goal of the Mobile Equipment Replacement program is to assure that Western craftsmen have adequate, reliable equipment and tools available to accomplish the maintenance program efficiently and safely.

Priorities

- Maintain adequate inventory for normal and emergency maintenance activities.
- Minimize life-cycle costs of equipment.

Planned Replacements	Investment (\$ thousands)							
	FY06	FY07	FY08					
Versalift, 38' – Loveland	80							
Bucket Truck - Casper	600							
Lowboy Trailer – Casper	60							
Motor Grader - Craig	165							
Mobile Transformer - Loveland			950					
Bobcat – Loveland			45					
Manlift 65' – Cheyenne			300					
Front End Loader – Montrose			150					

4.6 Programmatic Improvements and Replacements

These program elements support the infrastructure of the Region that is not integrated with the transmission, substation, and communication systems. In general, they involve the buildings and facilities improvements, SCADA, and IT programs. The current program priorities are presented by designated individual elements and the projects and accomplishments are combined by fiscal year as follows:

Priorities

SCADA System:

- Upgrade SCADA hardware and base system release.
- Expand RMR's Alternate Control Center to meet NERC requirements.
- Develop a Common Information Model (CIM) based ability to exchange modeling topology information.
- Upgrade the Remote Terminal Unit (RTU) data acquisition system at Loveland and Cheyenne.

Information Technology (IT):

- Maximize resource efficiencies by consolidating systems, automating processes, and implementing process improvements.
- Implement procedures and systems to maintain and secure existing systems to ensure business continuity.

Lands:

 Develop and maintain a Geographic Information Systems (GIS) program that displays all regional generation sources, transmission lines, substations, communication facilities, office locations, archeological and cultural sites; and topographic, boundary, and municipal features relative to geographic and spatial reference.

Buildings and Facilities:

- Initiate facility inspections and develop remedial actions to reduce the risk of a catastrophic failure of any one facility's intended function.
- Incorporate unique designs that provide extended service life, especially for those facilities in remote locations, without adding significantly to the cost or routine maintenance.

Major Projects	Investment (\$ thousands)								
	FY06	FY07	FY08						
SCADA Upgrades	401	478	399						
IT General Support Systems (GSS)	46	15	98						
E-Scheduling/E-Tagging	388	726	362						
Small Facility Projects (Civil /C&R)	1,000	950	1,000						
Small Facility Projects (Electrical/RRADs)	541	125	591						
Virginia Smith DC Tie HVAC Replacement	564								
GIS Development	287	287	287						
Alternate Control Center	142	49	49						
Montrose Phone Switch Replacement	122								
Operations Map Board Replacement	30	1000							
Loveland Maintenance Bldg. Vehicle Lift	133								

5 TEN-YEAR BUDGET PROJECTIONS

The following spreadsheets list Western's capital budget estimates by project and by fiscal year. By request of the Colorado River Energy Distributors Association, we have also included Western's Desert Southwest Region CRSP projects in the spreadsheets.

`	Yellow Highlight = New Project to list	W Total = Western Only Costs
1	Red Text = Change from previous version	O Total = Trust and Joint Participation Costs
	Blue Text = will be removed from list	FY Total = Sum of W Total and O Total
(Green Highlight = Generic Equipment Replace. Program	MPS Split = Multiple Power System Cost Split.

	Fund	MPS	Estimate	Actuals thru	PROJECT	FY06 FY07			FY08			FY09			FY10				
PROJECT	Power Sys	_		end of FY05	TOTAL	W Total		FY TOTAL	W Total	-	FY TOTAL	W Total		FY TOTAL	W Total		FY TOTAL	W Total	D Total FY TOTAL
Transmission Lines																			
Animas-Laplata Project	CRSPWCF		5,418	447	5,865	3,397		3,397	1,746		1,746	275		275					
Shiprock - Four Corners 345-kV - Completed	CRSPWCF			1,537	1,537														
Wood Pole Replacement (CRSP) - Cancelled	CRSPWCF																		
Line Equipment Replacements - General (CRSP)	CRSPVMF		555		555	105		105	50		50	50		50	50		50	50	50
Wood Pole Testing & Treatment (CRSP)	CRSPVMF		960		960										400		400	480	480
RMR T-Line SubTota	I		6,933	1,984	8,917	3,502		3,502	1,796		1,796	325		325	450		450	530	530
Substations																			
Bushing Replacements (CRSP) - Expensed	CRSPVMF																		
Shiprock - Four Corners 345-kV - Completed	CRSPWCF																		
Wood Pole Replacement (CRSP) - Cancelled	CRSPWCF																		
Shiprock - Four Corners 345-kV - Completed	CRSPWCF																		
Ault 1096 & 892 Replacement - Completed	CRSPVMF																		
Ault 692 Replacement - Completed	CRSPVMF																		
Archer 2224 Replacement - Completed	CRSPVMF			78	78														
Archer 1566 Replacement	CRSPVMF		40	75	115	40		40											
Ault 696 Rebuild	CRSPVMF		272		272	111	161	272											
Hayden Station Service Replacement	CRSPVMF		640		640	180		180	460		460								
Waterflow KU1A Transformer Monitors	CRSPVMF		129		129	109	20	129											
Great Cut Replace Transformer KXIA	CRSPVMF		530		530	480		480	50		50								
Curecanti 1082 Breaker Replacement	CRSPVMF		177		177	177		177											
Substation Test Equipment (CRSP)	CRSPVMF		953		953	53		53	100		100	100		100	100		100	100	100
Battery and Charger Replacements (CRSP)	CRSPVMF		1077	203	1,280	177		177	100		100	100		100	100		100	100	100
CCVT, PT, & CT Replacements (CRSP)	CRSPVMF		541	163	704	82		82	64		64	45		45	50		50	50	50
Substation Disconnect Switch Replacements (CRSP)	CRSPVMF		523		523	65	İ İ	65	58		58	50		50	50		50	50	50
Surge Arrester Replacements (CRSP)	CRSPVMF		439	67	506	69		69	50		50	40		40	40		40	40	40
Monitors for WCMO Transformers	CRSPVMF		800		800		1					100		100	100		100	100	100
Blue Mesa 1066, 1162, 1362, 1462 Replacement	CRSPVMF		416		416	121		121	90		90	90		90	90		90	25	25
Collbran 362 Replacement	CRSPVMF		110		110														
Curecanti Black Start MOD	CRSPVMF		150		150							150		150					
Curecanti KV1A, KV1B Reactor Replacement	CRSPVMF			152	152														
Curecanti KZ1A Transformer Monitors - Completed	CRSPVMF	1	1		1														
Flaming Gorge KY2A Replacement	CRSPVMF	1	2,892		2,892	2,767		2,767	125		125								
Hayden 230-kV Switch Replacements	CRSPVMF	1	31	L	31	4	27	31		ł									
Hayden 2072,2272,2476 Replacement - Completed	CRSPVMF	1	<u> </u>	471	471			0.		<u> </u>									
Hayden 2772, 2872, 2972 Replacement	CRSPVMF	1	130	142	272	130		130											
Hayden KV1A, KV1B, KV2A Reactor Replacement	CRSPVMF	1	720		720				240	1	240	240		240	240		240		
Midway 1866, 1562, 1662 Replacement	CRSPVMF	1	364		364	69		69	90	1	90	90		90	90		90	25	25
Midway KW1A, KW2A Reactor Replacement	CRSPVMF	1	654		654					1								294	294
Rifle 282, 382 Replacement	CRSPVMF	1	200		200					1								204	
Shiprock 3262,3362,3462 Replacement	CRSPVMF	1	317		317	127		127	85	<u> </u>	85	85		85	20		20		
Shiprock KU3A Transformer Monitors	CRSPVMF	1	100		100				100	<u> </u>	100				20				
Vernal 1372, 1576, 1672 Replacement	CRSPVMF	1	312		312				100		100							172	172
Vernal 1872, 2172 Replacement	CRSPVMF		220		220													112	112
Buffalo Pass MW Site - Replace Engine Generator	CRSPVMF		25		25	25		25											
Misc. Substation Elect. Equip. Replace. (CRSP)	CRSPVMF		5200		5.200	20		20							800		800	500	500
Mise. Cubstation Lieut. Equip. Replace. (ONOF)		1	0200		0,200										000		000	500	
RMR Substation SubTota		1	17.962	1.351	19,313	4.786	208	4.994	1.612	I	1.612	1.090		1.090	1.680		1.680	1.456	1.456
	·I		11,002	1,001	10,010	4,100	200	7,007	1,012		1,012	1,000		1,000	1,000		1,000	1,400	1,400

Yellow Highlight = New Project to list	W Total = Western Only Costs
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Blue Text = will be removed from list	FY Total = Sum of W Total and O Total
Green Highlight = Generic Equipment Replace. Program	MPS Split = Multiple Power System Cost Split.

	MPS		Actuals thru	PROJECT		FY06	FY07				FY08		FY09		FY10		
Power Sys	Split	FY06-FY15	end of FY05	TOTAL	W Total	O Total FY TOTAL	W Total	O Total	FY TOTAL	W Total	O Total FY TOTAL	W Total	O Total	FY TOTAL	W Total	O Total	FY TOTA
l l																	
1																	
1																	
CRSPVMF																	
CRSPVMF		200		220	20	20	20		20	20	20	20		20	20		20
CRSPVMF		1510		1,661	151	151	151		151	151	151	151		151	151		151
CRSPVMF																	
CRSPVMF		1150		1,265	115	115	115		115	115	115	115		115	115		115
		2,860		3,146	286	286	286		286	286	286	286		286	286		286
CRSPWCF		4450	3.074	7.524	2.400	2,400	1,900		1,900	150	150						
	1		· · · · · · · · · · · · · · · · · · ·			50	.,		.,					ł			
					135	135											
			.,				25		25	200	200						
CRSPVMF	20%	220		220								195		195	25		25
CRSPVMF		200		200			200		200								
										200	200						
			712		100	100											
				-													
		950			100	100	50		50	100	100	100		100	100		100
		6,530	8,200	14,730	2,785	2,785	2,175		2,175	650	650	295		295	125		125
ļļ																	
CRSPVMF		840		924	84	84	84		84	84	84	84		84	84		84
		0.10		021	0.		0.					0.			0.		0.
		950		1.045	95	95	95		95	95	95	95		95	95		95
	1			7													179
		1,100		1,000													
CRSPVMF		6,794	1.958	8,752	584	584	690		690	690	690	690		690	690		690
CRSPVMF		,	1,000		4	4	60		60	100		100			100		100
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	1																
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	İ	7.840	1.958	9.798	770	770	750		750	790	790	790		790	790		790
	1	.,	.,	-,													
	1						1										
CRSPVMF	1	1,500		1.650	150	150	150		150	150	150	150	1	150	150		150
CRSPVMF		1,000		.,													
	CRSPVMF CRSPVMF	CRSPVMF CRSPVMF	J J CRSPVMF 200 CRSPVMF 1510 CRSPVMF 1510 CRSPVMF 1150 CRSPVMF 1150 CRSPVMF 1150 CRSPVMF 1150 CRSPVMF 1150 CRSPVMF 1150 CRSPVMF 22,860 CRSPWCF 50 CRSPWCF 500 CRSPVMF 2255 CRSPVMF 200 CRSPVMF 200 CRSPVMF 200 CRSPVMF 200 CRSPVMF 950 CRSPVMF 864 CRSPV	J J J CRSPVMF 200	J J J CRSPVMF 200 220 CRSPVMF 1510 1,661 CRSPVMF 1510 1,661 CRSPVMF 1150 1,265 CRSPVMF 1150 1,265 CRSPVMF 1150 1,265 CRSPVMF 1150 1,265 CRSPWCF 50 2,682 2,732 CRSPVMF 135 1,427 1,562 CRSPVMF 200 220 220 CRSPVMF 200 200 200 CRSPVMF 200 200 200 CRSPVMF 200 200 200 CRSPVMF 100 712 812 CRSPVMF 950 950 950 CRSPVMF 950 950 950 CRSPVMF 950 924 CRSPVMF CRSPVMF 950 1,045 1,045 CRSPVMF 950 1,045 924 CRSPVMF 9	Y I I I I I CRSPVMF 200 220 20 CRSPVMF 1510 1,661 151 CRSPVMF 1150 1,265 115 CRSPVMF 1150 1,265 115 CRSPVMF 1150 3,146 286 CRSPWF 4450 3,074 7,524 2,400 CRSPWF 50 2,682 2,732 50 CRSPWF 220 220 220 220 CRSPVMF 225 225 225 225 CRSPVMF 200 200 200 200 200 CRSPVMF 200 2	CRSPVMF 200 220 20 20 CRSPVMF 200 220 20 20 CRSPVMF 1510 1,661 151 151 CRSPVMF 1150 1,265 115 115 CRSPVMF 1150 1,265 115 115 CRSPVMF 1150 1,265 115 115 CRSPVMF 135 1,427 1,562 135 135 CRSPVMF 225 2,732 50 50 50 CRSPVMF 225 227 220 C 2400 CRSPVMF 200 200 200 C 200 C CRSPVMF 200 200 0 0 C C CRSPVMF 100 712 812 100 100 100 CRSPVMF 950 950 100 100 100 C C CRSPVMF 950 950 100 100 100<	CRSPVMF 200 220 20 20 20 CRSPVMF 200 220 20 20 20 20 CRSPVMF 1510 1,661 151 151 151 151 CRSPVMF 1150 1,265 115 115 115 115 CRSPVMF 1150 1,265 115 115 115 115 CRSPVMF 1150 1,265 115 115 115 115 CRSPWCF 50 2,682 2,732 50 50 50 CRSPVMF 135 1,427 1,562 135 135 CRSPVMF CRSPVMF 220 220 220 220 220 220 200 CRSPVMF 200 200 CRSPVMF 100 712 812 100 100 100 50 CRSPVMF 100 712 812 100 100 50 100 100 50 100 100	CRSPVMF 200 220 20 20 20 CRSPVMF 1510 1,861 151 151 151 151 CRSPVMF 1150 1,265 115 115 115 151 CRSPVMF 1150 1,265 115 115 115 155 CRSPVMF 1150 1,265 115 115 115 155 CRSPVMF 2,860 3,146 286 286 286 286 CRSPVMF 135 1,427 1,562 135 135 155 CRSPVMF 200 220 220 220 220 220 CRSPVMF 200	CRSPVMF CO CO <t< td=""><td>CRSPVMF CO <t< td=""><td>A A</td><td>Image: CRSPVMF Image: /td><td>A Image: Constraint of the second secon</td><td>Image: second</td><td>L <thl< th=""> L <thl< th=""> <thl< th=""></thl<></thl<></thl<></td><td>I. I. I.<</td></t<></td></t<>	CRSPVMF CO CO <t< td=""><td>A A</td><td>Image: CRSPVMF Image: /td><td>A Image: Constraint of the second secon</td><td>Image: second</td><td>L <thl< th=""> L <thl< th=""> <thl< th=""></thl<></thl<></thl<></td><td>I. I. I.<</td></t<>	A A	Image: CRSPVMF Image:	A Image: Constraint of the second secon	Image: second	L L <thl< th=""> L <thl< th=""> <thl< th=""></thl<></thl<></thl<>	I. I.<

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Green Highlight = Generic Equipment Replace. Program	MPS Split = Multiple Power System Cost Split.

	Fund	MPS	Estimate	Actuals thru	PROJECT		FY06			FY07			FY08		FY09			FY10	· · · · · ·
PROJECT	Power Sys	Split	FY06-FY15	end of FY05	TOTAL	W Total	O Total	FY TOTAL	W Total	O Total	FY TOTAL	W Total	O Total FY TOTAL	W Total	O Total	FY TOTAL	W Total	O Total	FY TOTAL
Mobile & Heavy Equipment]
Brush Hog - Montrose - Completed	CRSPVMF																		
Brush Hog - Montrose - Completed	CRSPVMF																		l
Tree shredder – Montrose - Completed	CRSPVMF																		
Front End Loader - Montrose		RMR1	150		150							150	150						
Motor Grader - Craig	CRSPVMF		165		165	165		165											
Misc Heavy Equipment Replacements (CRSP)	CRSPVMF		3885		3,885				185		185	200	200	500		500	500		500
RMR Mobile & Heavy Equipment SubTotal			4.200		4.200	165		165	185		185	350	350	500		500	500		500
			4,200		4,200	105		105	105		105	330	550	500		500	300		500
Programmatic Improvements																			
GIS Development (CRSP)	CRSPWCF	33%	285	906	1,191	95		95	95		95	95	95						1
Small facility Projects (C&R - CRSP)	CRSPWCF		5000	615	5,615	500		500	500		500	500	500	500		500	500		500
Alt. Control Center Expansion - CH (CRSP)	CRSPVMF	31%	72	346	418	42		42	15		15	15	15						1
Operations Center Map Board Replacement	CRSPVMF	33%	340		340	10		10	330		330								1
WIN Router	CRSPVMF		150		150							150	150						1
E-Scheduling/E-Tagging (CRSP)	CRSPVMF	31	551		551	120		120	225		225	114	114	46		46			1
IT General Support Systems (CRSP)	CRSPVMF	31	676		676	23		23	15		15	49	49	46		46	47		47
SCADA Upgrades (CRSP)	CRSPVMF	31	1394	141	1,535	161		161	158		158	132	132	64		64	180		180
RRADS Small facility Projects (CRSP)	CRSPVMF		1960	455	2,415	311	42	353	75		75	132	132	200		200	200		200
UPS Replacement - MOC	CRSPVMF		75		75	75		75											1
Telephone Switch Upgrade - MOC	CRSPVMF		122		122	122		122											·
RMR Programmatic Improvements SubTotal			10.625	2.463	13.088	1,459	42	1.501	1,413		1,413	1,187	1,187	856		856	927		927
			10,025	2,703	13,000	1,700	74	1,501	1,713		1,713	1,107	1,107	000		000	521		521
DESERT SOUTHWEST REGION					1														i ————————————————————————————————————
Safety Enhancement, Fire Protection-PHX Ctr (Multi)	CRSPVMF				1														i ————————————————————————————————————
Perimeter Fencing-PHX Ctr (Multi-Proj Cost Alloc.)	CRSPVMF																		i
	CRSPVMF																		
DSW Programmatic Improvements SubTotal																			
RMR FY06 CRSP CIP Grand Total			54.090	15.956	70.046	13.467	250	13,717	7,931		7.931	4.392	4.392	4.571	1	4.571	4.328		4,328
			54,030	15,950	70,040	13,407	230	13,111	1,551		1,501	4,392	4,392	4,371		4,371	4,320		4,320
RMR FY05 CRSP CIP Totals					66,040	12,053	27	12,080	7,470		7,470	4,610	410 5,020	4,484	82	4,566	5,393		5,393

RMR Compar	ison Table (200)5-2014)			
			Western	Other	Total
FY06 CIP			55,705	940	56,645
FY05 CIP			55,986	814	56,800
Diff			-281	126	-155

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	Fund	MPS	Estimate	Actuals thru	PROJECT		FY11			FY12			FY13		I	FY14			FY15	
PROJECT	Power Sys		FY06-FY15	end of FY05		W Total		FY TOTAL	W Total		ΕΥ ΤΟΤΑΙ	W Total	-	ΕΥ ΤΟΤΔΙ	W Total			W Total	-	ΕΥ ΤΟΤΑΙ
T KODEOT	r ower bys	opin	11001110		TOTAL	W Total	0 Total	TTIOTAL	W Total	0 Total	TTTOTAL	Wiotai	0 Total	TTIOTAL	W Total	0 Total	TTIOTAL	W Total	0 Total	
Transmission Lines																				1
Animas-Laplata Project	CRSPWCF		5,418	447	5,865				-											<u> </u>
Shiprock - Four Corners 345-kV - Completed			5,416	1.537	5,665 1,537															<u> </u>
				1,557	1,557										-	-				<u> </u>
Wood Pole Replacement (CRSP) - Cancelled	CRSPWCF					50		50	50		50	50		50	50		50	50		50
Line Equipment Replacements - General (CRSP)	CRSPVMF		555		555	50		50	50		50	50		50	50		50	50		50
Wood Pole Testing & Treatment (CRSP)	CRSPVMF		960		960	80		80												
																				<u> </u>
RMR T-Line SubTota			6,933	1,984	8,917	130		130	50		50	50		50	50		50	50		50
Substations																				
Bushing Replacements (CRSP) - Expensed	CRSPVMF																			
Shiprock - Four Corners 345-kV - Completed	CRSPWCF																			<u> </u>
Wood Pole Replacement (CRSP) - Cancelled	CRSPWCF																			<u> </u>
Shiprock - Four Corners 345-kV - Completed	CRSPWCF						+	1		+		-	<u> </u>				1	-		
Ault 1096 & 892 Replacement - Completed	CRSPVMF							1		+							1			<u> </u>
Ault 1096 & 892 Replacement - Completed	CRSPVMF																			<u> </u>
		<u> </u>		78	78															<u> </u>
Archer 2224 Replacement - Completed			40																	
Archer 1566 Replacement	CRSPVMF		40	75	115															ł
Ault 696 Rebuild	CRSPVMF		272		272					-						-				
Hayden Station Service Replacement	CRSPVMF		640		640															
Waterflow KU1A Transformer Monitors	CRSPVMF		129		129															
Great Cut Replace Transformer KXIA	CRSPVMF		530		530															L
Curecanti 1082 Breaker Replacement	CRSPVMF		177		177															L
Substation Test Equipment (CRSP)	CRSPVMF		953		953	100		100	100		100	100		100	100		100	100		100
Battery and Charger Replacements (CRSP)	CRSPVMF		1077	203	1,280	100		100	100		100	100		100	100		100	100		100
CCVT, PT, & CT Replacements (CRSP)	CRSPVMF		541	163	704	50		50	50		50	50		50	50		50	50		50
Substation Disconnect Switch Replacements (CRSP)	CRSPVMF		523		523	50		50	50		50	50		50	50		50	50		50
Surge Arrester Replacements (CRSP)	CRSPVMF		439	67	506	40		40	40		40	40		40	40		40	40		40
Monitors for WCMO Transformers	CRSPVMF		800		800	100		100	100		100	100		100	100		100	100		100
Blue Mesa 1066, 1162, 1362, 1462 Replacement	CRSPVMF		416		416															
Collbran 362 Replacement	CRSPVMF		110		110				60		60	50		50						
Curecanti Black Start MOD	CRSPVMF		150		150															
Curecanti KV1A, KV1B Reactor Replacement	CRSPVMF			152	152															<u> </u>
Curecanti KZ1A Transformer Monitors - Completed	CRSPVMF		-	.02	.01															r
Flaming Gorge KY2A Replacement	CRSPVMF		2,892		2.892		1	1					1			1	1			<u> </u>
Hayden 230-kV Switch Replacements	CRSPVMF		31		31		1													<u> </u>
Hayden 200-XV Switch Replacements Hayden 2072,2272,2476 Replacement - Completed	CRSPVMF			471	471		-													<u> </u>
Hayden 2012,2212,2416 Replacement - Completed	CRSPVMF		130	142	272		-													<u> </u>
Hayden KV1A, KV1B, KV2A Reactor Replacement	CRSPVMF		720	142	720			1		+							1			<u> </u>
Midway 1866, 1562, 1662 Replacement	CRSPVMF		364		364			1		+							1			<u> </u>
Midway 1866, 1562, 1662 Replacement Midway KW1A, KW2A Reactor Replacement	CRSPVMF		364 654		364 654	330		330	30		30									<u> </u>
	CRSPVMF					330		330	30		30	200	<u> </u>	200						<u> </u>
Rifle 282, 382 Replacement			200		200					+		200		200		-				ł
Shiprock 3262,3362,3462 Replacement	CRSPVMF		317		317															
Shiprock KU3A Transformer Monitors	CRSPVMF		100		100	4.10		4.10									1			<u> </u>
Vernal 1372, 1576, 1672 Replacement	CRSPVMF		312		312	140		140		<u> </u>			ļ			ļ				
Vernal 1872, 2172 Replacement	CRSPVMF		220		220	120		120	100		100									L
Buffalo Pass MW Site - Replace Engine Generator	CRSPVMF		25		25															
Misc. Substation Elect. Equip. Replace. (CRSP)	CRSPVMF		5200		5,200	500		500	600		600	800		800	1,000		1,000	1,000		1,000
																				1
RMR Substation SubTota	1		17,962	1,351	19,313	1,530		1,530	1,230		1,230	1,490		1,490	1,440		1,440	1,440		1,440

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Green Highlight = Generic Equipment Replace. Program	MPS Split = Multiple Power System Cost Split.

	Fund	MPS	Estimate	Actuals thru	PROJECT		FY11		FY12			FY13		Γ	FY14		FY15	
PROJECT	Power Sys		FY06-FY15	end of FY05	TOTAL	W Total	O Total FY TOTAL	W Total		FY TOTAL	W Total		FY TOTAL	W Total		W Total		
		••••																
Substations																		
DESERT SOUTHWEST REGION																	++	<u> </u>
Replace MOI 2681 at Pinnacle Peak	CRSPVMF																++	<u> </u>
Fire Protection System at Pinnacle Peak	CRSPVMF		200		220	20	20	20		20	20		20	20	20	20	+	20
Video Surveillance System at Glen Canyon	CRSPVMF		1510		1.661	151	151	151		151	151		151	151	151	151	+	151
Upgrade Programmable Logic Controller Pinnacle Peak	CRSPVMF		1010		1,001	101	101	101		101	101		101	101	151	101	+	101
Install Remote Lighting at Glen Canyon	CRSPVMF		1150		1,265	115	115	115		115	115		115	115	115	115	++	115
DSW Substation SubTotal			2.860	I	3.146	286	286	286		286	286		286	286	286	286	┿───┥	286
			2,000		3,140	200	200	200		200	200		200	200	200	200	┥───┤	200
Communications																		
Microwave Spur Replacements (CRSP)	CRSPWCF		4450	3,074	7,524													<u> </u>
	CRSPWCF																+	<u> </u>
So. Colorado Joint Microwave Project			50	2,682	2,732												───┤	
VHF Mobile Radio Replacements (CRSP)	CRSPVMF		135	1,427	1,562													
Archer MW Communication Building Replacement	CRSPVMF	200/	225 220		225 220													
Central PMOC Communications Loop	CRSPVMF	20%			220													<u> </u>
Buffalo Plass Communication Bulding Replacement	CRSPVMF		200															
Raspberry Creek Communication Building Replacement	CRSPVMF		200	740	200													
FGE, VNL, GRL Comm Bldgs (CRSP) - Completed	CRSPVMF		100	712	812												<u> </u>	───
Sunlight Tower Replacement - Completed	CRSPVMF			158	158												<u> </u>	───
Sunlight Bldg Replacement - Completed	CRSPVMF			147	147	100	100	100		100	100		100	100		100		L
Communications Test Equipment (CRSP)	CRSPVMF		950		950	100	100	100		100	100		100	100	100	100		100
RMR Communications SubTota			6,530	8,200	14,730	100	100	100		100	100		100	100	100	100	—┩	100
			0,530	0,200	14,730	100	100	100		100	100		100	100	100	100		100
DESERT SOUTHWEST REGION														-				
Communication Power System Upon Testing	CRSPVMF		840		924	84	84	84		84	84		84	84	84	84	+	84
Replace DSW Telephone (Multi-Proj. Cost Allocation)	CRSPVMF		040		924	04	04	04		04	04		04	04	04	04	┥──┤	04
Upgrade Communication Alarm Sys. (Multi -Proj. Cost	CRSPVMF																┥──┤	
RTU Replacement-FLG, GCP, KAY, LHV, NVS	CRSPVMF																┥──┤	
Microwave ELD-FLG (Back-up Path Glen Canyon PP)	CRSPVMF																┥──┤	
DFR Replacement	CRSPVMF		950		1.045	95	95	95		95	95		95	95	95	95	┥──┤	95
				<u> </u>	,												╞───┤	
DSW Communications SubTotal			1,790		1,969	179	179	179		179	179		179	179	179	179	┢────┙	179
Operational Department in a med Martania																		
Control, Protection and Metering								0.5 -			0.5.5							<u> </u>
Protective Relay Replacements (CRSP)	CRSPVMF		6,794	1,958	8,752	690	690	690		690	690		690	690	690	690		690
Test Equipment Replacements (CRSP)	CRSPVMF		864		864	100	100	100		100	100		100	100	100	100		100
Relay Test Set Upgrade	CRSPVMF		88		88													
Boundary Meter Telemetry System (CRSP)	CRSPVMF		94	ļ	94												\downarrow	
RTU Replacements (CRSP) - Completed	CRSPVMF										_		_	_		_		<u> </u>
RMR CPM SubTotal			7,840	1,958	9,798	790	790	790		790	790		790	790	790	790		790
																		
DESERT SOUTHWEST REGION	I				ļ									L				
Line Relays, NAV, LHV, KAY, GCS Facilities	CRSPVMF		1,500		1,650	150	150	150		150	150		150	150	150	150		150
Meter Replacement	CRSPVMF																	<u> </u>
DSW CPM SubTotal		1	1.500		1,650	150	150	150		150	150		150	150	150	150	·	150

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	Fund	MPS	Estimate	Actuals thru	PROJECT		FY11			FY12		FY13		FY14			FY15	
PROJECT	Power Sys	Split	FY06-FY15	end of FY05	TOTAL	W Total	O Total	FY TOTAL	W Total	O Total FY TOTAL	W Total	O Total FY TOTAL	W Total	O Total	FY TOTAL	W Total	O Total	FY TOTAL
Mobile & Heavy Equipment																		
Brush Hog - Montrose - Completed	CRSPVMF																	
Brush Hog - Montrose - Completed	CRSPVMF																	
Tree shredder – Montrose - Completed	CRSPVMF																	
Front End Loader - Montrose	CRSPVMF	RMR1	150		150													
Motor Grader - Craig	CRSPVMF		165		165													
Misc Heavy Equipment Replacements (CRSP)	CRSPVMF		3885		3,885	500		500	500	500	500	500	500		500	500		500
			4.000		1 000	500		500	500	500		500	500		500	500		
RMR Mobile & Heavy Equipment SubTotal			4,200		4,200	500		500	500	500	500	500	500		500	500		500
Programmatic Improvements																		
GIS Development (CRSP)	CRSPWCF	33%	285	906	1,191													
Small facility Projects (C&R - CRSP)	CRSPWCF		5000	615	5,615	500		500	500	500	500	500	500		500	500		500
Alt. Control Center Expansion - CH (CRSP)	CRSPVMF	31%	72	346	418													
Operations Center Map Board Replacement	CRSPVMF	33%	340		340													
WIN Router	CRSPVMF		150		150													
E-Scheduling/E-Tagging (CRSP)	CRSPVMF	31	551		551						46	46						
IT General Support Systems (CRSP)	CRSPVMF	31	676		676	33		33	299	299	46	46	59		59	59		59
SCADA Upgrades (CRSP)	CRSPVMF	31	1394	141	1,535	65		65	436	436	66	66	66		66	66		66
RRADS Small facility Projects (CRSP)	CRSPVMF		1960	455	2,415	200		200	200	200	200	200	200		200	200		200
UPS Replacement - MOC	CRSPVMF		75		75													
Telephone Switch Upgrade - MOC	CRSPVMF		122		122													
RMR Programmatic Improvements SubTotal			10,625	2,463	13,088	798		798	1,435	1,435	858	858	825		825	825		825
DESERT SOUTHWEST REGION																		
Safety Enhancement, Fire Protection-PHX Ctr (Multi)	CRSPVMF																	
Perimeter Fencing-PHX Ctr (Multi-Proj Cost Alloc.)	CRSPVMF																	
Camera Security Upgrades-PHX Ctr (Multi-Proj Alloc.)	CRSPVMF																	
DSW Programmatic Improvements SubTotal			-															
	1		54.000	45.050	70.040	2.040		2.040	4 4 0 5	4 4 6 5	2 700		2 705		2 705	2 705		2 705
RMR FY06 CRSP CIP Grand Total			54,090	15,956	70,046	3,848		3,848	4,105	4,105	3,788	3,788	3,705		3,705	3,705		3,705
RMR FY05 CRSP CIP Totals					66,040	5,018		5,018	4,275	4,275	3,878	3,878	3,795		3,795			

RMR Compar	ison Table (200	05-2014)

FY06 CIP	
FY05 CIP	
Diff	

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	Fund	MPS	Estimate	Actuals thru	PROJECT		FY06			FY07			FY08			FY09		1	FY10	
PROJECT	Power Sys		FY06-FY15	end of FY05	TOTAL	W Total		FY TOTAL	W Total		FY TOTAL	W Total		FY TOTAL	W Total		FY TOTAL	W Total		FY TOTAL
Transmission Lines																				
Cheyenne-Miracle Mile 230kV T-Line Upgrade	PSWCF		32,000	1,112	33,112	15,500		15,500	10,600		10,600	5,500		5,500	400		400			
Cheyenne-Ault 230kV T-line Upgrade	PSWCF		16,010		16,010	35		35	475		475	4,500		4,500	11,000		11,000			
Gering-Gering Valley 34.5-kV T-Line	PSWCF		325		325	100		100	225		225									
Granby Pump Plant-Windy Gap 69-kV rebuild	PSWCF		9,150	257	9,407	100		100	1,400	7,050	8,450	200	400	600						
Timnath - Black Hollow 230-kV Upgrade	PSWCF		1,421		1,421	650		650	150	621	771									
Ft Morgan West - Kiowa Creek 230-kV Upgrade	PSWCF		9,950		9,950															
Beaver Creek-Ft Morgan West 230-kV Upgrade	PSWCF		8,900		8,900															
Weld-Flatiron 230kV Upgrade	PSWCF		13,800		13,800													350		350
Erie-Longmont NW 230-kV Upgrade	PSWCF		14,800		14,800															
Ault-Willoby 230-kV	PSWCF		2,350		10,100															
Kiowa Creek - Willoby 230-kV Upgrade	PSWCF		250		12,350															
Beaver Creek - Hoyt 230-kV Upgrade	PSWCF		17.050	946	17,996	3,800	3,500	7,300		9.750	9,750									
Hoyt-Wiggins 115-kV Uprate	PSWCF		250	1,378	1,628	250	0,000	250		0,100	0,100									
Erie-Hoyt 230-kV Upgrade	PSWCF		27,000	1,070	27,000	200		200					1,100	1,100	3,275	9,675	12,950	3,275	9,675	12,950
Wood Pole Test and Treatment (PS)	PSWCF		915	744	1,659	435		435	480	1	480		1,100	1,100	5,215	3,075	12,350	5,275	3,073	12,330
FlatIron - Longmont NW 230-kV Upgrade	PSWCF		300	144	10,100	400		400	+00		400									
Dixon Creek - FlatIron 230-kV Upgrade	PSWCF		300		11,100															
East Morrill Tap-Wildcat 34.5-kV line	PSWCF		<u> </u>		570															
Wildcat-Sievers 69-kV line Eastern Plains Transmission Project	PSWCF		2,030		2,030													7.500		7 500
· · · · · · · · · · · · · · · · · · ·	PSWCF		15,000		15,000													7,500		7,500
Distribution Line Repair/Replacement - Cancelled	PSWCF					-		-	-	-		-								
Troublesome-Colorado Pumps - Cancelled	PSWCF																			
Lovell - Thermopolis 115-kV line Rebuild - Completed	PSWCF			1,767	1,767															
Line Equipment Replacements - General (PS)	PSWMF		450	35	485				50		50	50		50	50		50	50		50
Wood Pole Test and Treatment (PS)	PSWMF		2,840		2,840							480		480	80		80			
T-Line SubTota	al		175,661	6,239	222,350	20,870	3,500	24,370	13,380	17,421	30,801	10,730	1,500	12,230	14,805	9,675	24,480	11,175	9,675	20,850
Substations																				
Lusk Rural - Podolak Improvements	PSWCF		400		400				120		120	280		280						
Willoby Switchyard 115-kV	PSWCF		3,200		3,200	1,300	1,000	2.300	600	100	700	200		200						
Ault 230-kV additions (AU-MM 230)	PSWCF		2,100		2,100	.,	.,	_,	350		350	1,250		1,250	500		500			
Snowy Range Substation 230-kV (Laramie)	PSWCF		4,150		4.150				1.300		1,300	2.600		2,600	250		250	-		
Miracle Mile 230-kV additions (AU-MM 230)	PSWCF		4,000		4,000				1		1,450	2,050		2,050	500					
Yellowtail 2nd Transformer Addition	PSWCF		1,000						1450			2,000		2,000						
Limestone 34.5-kV additions	1 01101		75	3 023	1	75		75	1,450		1,100				500		500			
	PS\//ME		75 746	3,023	3,098	75		75												
Snowy Range Substation 115-kV (Laramie)	PSWMF		746		3,098 746	324		324	422		422									
Snowy Range Substation 115-kV (Laramie)	PSWCF		746 4,550	3,023 358	3,098 746 4,908															
Lingle Substation 69kV additions	PSWCF PSWCF		746 4,550 2,425		3,098 746 4,908 2,425	324		324	422		422									
Lingle Substation 69kV additions Torrington Substation 69-kV additions	PSWCF PSWCF PSWCF		746 4,550 2,425 4,130		3,098 746 4,908 2,425 4,130	324		324	422 200		422 200	2.250		2 250			500			
Lingle Substation 69kV additions Torrington Substation 69-kV additions Cheyenne 230-kV additions	PSWCF PSWCF PSWCF PSWCF		746 4,550 2,425 4,130 5150		3,098 746 4,908 2,425 4,130 5150	324		324	422 200 1,500		422 200 1,500	3,250		3,250	400		500 400	250		250
Lingle Substation 69kV additions Torrington Substation 69-kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV)	PSWCF PSWCF PSWCF PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600		3,098 746 4,908 2,425 4,130 5150 5600	324 4,350		324 4,350	422 200 1,500 50	250	422 200 1,500 50	400		400			500	350		350
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition	PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600 1500		3,098 746 4,908 2,425 4,130 5150 5600 1500	324	350	324	422 200 1,500	350	422 200 1,500		50	,	400		500 400	350		350
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV	PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600 1500 1800		3,098 746 4,908 2,425 4,130 5150 5600 1500 7200	324 4,350	350	324 4,350	422 200 1,500 50	350	422 200 1,500 50	400	50	400	400		500 400	350		350
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV)	PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600 1500		3,098 746 4,908 2,425 4,130 5150 5600 1500	324 4,350	350	324 4,350	422 200 1,500 50	350	422 200 1,500 50	400	50	400	400		500 400	350		350
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV) Wray Substation Modifications - Completed	PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600 1500 1800	358	3,098 746 4,908 2,425 4,130 5150 5600 1500 7200 3200	324 4,350	350	324 4,350	422 200 1,500 50	350	422 200 1,500 50	400	50	400	400		500 400	350		350
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV) Wray Substation Modifications - Completed Whiterock Substation - Completed	PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600 1500 1800	358	3,098 746 4,908 2,425 4,130 5150 5600 1500 7200 3200 3,995	324 4,350	350	324 4,350	422 200 1,500 50	350	422 200 1,500 50	400	50	400	400		500 400	350		350
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV) Wray Substation Modifications - Completed Whiterock Substation - Completed Whitney - Completed	PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600 1500 1800	358	3,098 746 4,908 2,425 4,130 5150 5600 1500 7200 3200	324 4,350	350	324 4,350	422 200 1,500 50	350	422 200 1,500 50	400	50	400	400		500 400	350		350
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV) Wray Substation Modifications - Completed Whiterock Substation - Completed Whitney - Completed Cheyenne 115-kV Shunt Capacitor - Cancelled	PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600 1500 1800	358	3,098 746 4,908 2,425 4,130 5150 5600 1500 7200 3200 3,995	324 4,350	350	324 4,350	422 200 1,500 50	350	422 200 1,500 50	400	50	400	400		500 400	350 350		350
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV) Wray Substation Modifications - Completed Whiterock Substation - Completed Whitney - Completed Cheyenne 115-kV Shunt Capacitor - Cancelled Gering Substation 69-kV additions - Cancelled	PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600 1500 1800	358	3,098 746 4,908 2,425 4,130 5150 5600 1500 7200 3200 3,995	324 4,350	350	324 4,350	422 200 1,500 50	350	422 200 1,500 50	400	50	400	400		500 400	350 350		350
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV) Wray Substation Modifications - Completed Whiterock Substation - Completed Whiterock Substation - Completed Whitney - Completed Cheyenne 115-kV Shunt Capacitor - Cancelled Gering Substation 69-kV additions - Cancelled Torrington - Wildcat 69kV additions - Cancelled	PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600 1500 1800 100	358 358 3,995 657	3,098 746 4,908 2,425 4,130 5150 5600 1500 7200 3200 3,995 657	324 4,350 350	350	324 4,350 700	422 200 1,500 50 350	350	422 200 1,500 50 700	400 50	50	400 100	400 4,800		500 400 4,800			
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV) Wray Substation Modifications - Completed Whiterock Substation - Completed Whiterock Substation - Completed Whitney - Completed Cheyenne 115-kV Shunt Capacitor - Cancelled Gering Substation 69-kV additions - Cancelled Torrington - Wildcat 69kV additions - Cancelled Battery and Charger Replacements (PS)	PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600 1500 1800 100 100	358	3,098 746 4,908 2,425 4,130 5150 5600 1500 7200 3200 3,995 657 1,993	324 4,350 350 424	350	324 4,350 700 424	422 200 1,500 50 350	350	422 200 1,500 50 700	400 50	50	400 100	400 4,800 		500 400 4,800	100		100
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV) Wray Substation Modifications - Completed Whiterock Substation - Completed Whitey - Completed Cheyenne 115-kV Shunt Capacitor - Cancelled Gering Substation 69-kV additions - Cancelled	PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600 1500 1800 100	358 358 3,995 657	3,098 746 4,908 2,425 4,130 5150 5600 1500 7200 3200 3,995 657	324 4,350 350	350	324 4,350 700	422 200 1,500 50 350	350	422 200 1,500 50 700	400 50	50	400 100	400 4,800		500 400 4,800			
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV) Wray Substation Modifications - Completed Whiterock Substation - Completed Whiterock Substation - Completed Whitney - Completed Cheyenne 115-kV Shunt Capacitor - Cancelled Gering Substation 69-kV additions - Cancelled Torrington - Wildcat 69kV additions - Cancelled Battery and Charger Replacements (PS) CCVT, PT, & CT Replacement (PS) Misc. Substation Elect. Equipm. Replace. (PS)	PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600 1500 1800 100 100	358 358 3,995 657	3,098 746 4,908 2,425 4,130 5150 5600 1500 7200 3200 3,995 657 1,993	324 4,350 350 424	350	324 4,350 700 424	422 200 1,500 50 350	350	422 200 1,500 50 700	400 50	50	400 100	400 4,800 		500 400 4,800 	100		100
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV) Wray Substation Modifications - Completed Whiterock Substation - Completed Whiterock Substation - Completed Whitery - Completed Cheyenne 115-kV Shunt Capacitor - Cancelled Gering Substation 69-kV additions - Cancelled Torrington - Wildcat 69kV additions - Cancelled Battery and Charger Replacements (PS) CCVT, PT, & CT Replacement (PS)	PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600 1500 1800 100 100	358 358 3,995 657	3,098 746 4,908 2,425 4,130 5150 5600 1500 7200 3200 3,995 657 594	324 4,350 350 424	350	324 4,350 700 424	422 200 1,500 50 350	350	422 200 1,500 50 700	400 50	50	400 100	400 4,800 		500 400 4,800 	100 50		100 50
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV) Wray Substation Modifications - Completed Whiterock Substation - Completed Whiterock Substation - Completed Cheyenne 115-kV Shunt Capacitor - Cancelled Gering Substation 69-kV additions - Cancelled Torrington - Wildcat 69kV additions - Cancelled Battery and Charger Replacements (PS) CCVT, PT, & CT Replacement (PS) Misc. Substation Elect. Equipm. Replace. (PS)	PSWCF PSWCF		746 4,550 2,425 4,130 5150 5600 1500 1800 100 100 100	358 358 3,995 657	3,098 746 4,908 2,425 4,130 5150 5600 1500 7200 3200 3,995 657 	324 4,350 350 424 94	350	324 4,350 700 424 94	422 200 1,500 50 350	350	422 200 1,500 50 700	400 50	50	400 100	400 4,800 		500 400 4,800 	100 50		100 50
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV) Wray Substation Modifications - Completed Whiterock Substation - Completed Whiterock Substation - Completed Whiterock Substation - Completed Cheyenne 115-kV Shunt Capacitor - Cancelled Gering Substation 69-kV additions - Cancelled Torrington - Wildcat 69kV additions - Cancelled Battery and Charger Replacements (PS) CCVT, PT, & CT Replacement (PS) Misc. Substation Elect. Equipm. Replace. (PS) Replace 230kV Arrestors AV5A on Stegall E. 230 Bus Substation Test Equipment (PS)	PSWCF PSWMF PSWMF PSWMF PSWMF		746 4,550 2,425 4,130 5150 5600 1500 1800 100 100 100 100 1,324 594 11,168 32 900	358 358 3,995 657	3,098 746 4,908 2,425 4,130 5150 5600 1500 7200 3200 3,995 657 1,993 594 11,168 32 900	324 4,350 350 424 94 32	350	324 4,350 700 424 94 32	422 200 50 350 	350	422 200 1,500 50 700 	400 50 100 50		400 100 100 50	400 4,800 		500 400 4,800 	100 50 1,413		100 50 1,413
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV) Wray Substation Modifications - Completed Whiterock Substation - Completed Whiterock Substation - Completed Whitey - Completed Cheyenne 115-kV Shunt Capacitor - Cancelled Gering Substation 69-kV additions - Cancelled Torrington - Wildcat 69kV additions - Cancelled Battery and Charger Replacements (PS) CCVT, PT, & CT Replacement (PS) Misc. Substation Elect. Equipm. Replace. (PS) Replace 230kV Arrestors AV5A on Stegall E. 230 Bus Substation Test Equipment (PS)	PSWCF PSWMF PSWMF PSWMF PSWMF PSWMF PSWMF		746 4,550 2,425 4,130 5150 5600 1500 1800 100 100 100 100 100 1,324 594 11,168 32 900 360	358 358 3,995 657	3,098 746 4,908 2,425 4,130 5150 5600 1500 7200 3200 3,995 657 1,993 594 11,168 32 900 360	324 4,350 350 424 94 32		324 4,350 700 424 94 32	422 200 50 350 	350	422 200 1,500 50 700 	400 50 100 50 100 40	50	400 100 100 50 100 40	400 4,800 4,800 100 50 1,212 100		500 400 4,800 	100 50 1,413 100		100 50 1,413 100
Lingle Substation 69kV additions Torrington Substation 69kV additions Cheyenne 230-kV additions Beaver Creek 230-kV additions (BC-EE 230-kV) Torrington Substation KY2A addition Willoby Substation 230-kV Ault 230-kV terminal (AU-WBY 230-kV) Wray Substation Modifications - Completed Whiterock Substation - Completed Whiterock Substation - Completed Cheyenne 115-kV Shunt Capacitor - Cancelled Gering Substation 69-kV additions - Cancelled Torrington - Wildcat 69kV additions - Cancelled Battery and Charger Replacements (PS) CCVT, PT, & CT Replacement (PS) Misc. Substation Elect. Equipm. Replace. (PS) Replace 230kV Arrestors AV5A on Stegall E. 230 Bus	PSWCF PSWMF PSWMF PSWMF PSWMF		746 4,550 2,425 4,130 5150 5600 1500 1800 100 100 100 100 1,324 594 11,168 32 900	358 358 3,995 657	3,098 746 4,908 2,425 4,130 5150 5600 1500 7200 3200 3,995 657 1,993 594 11,168 32 900	324 4,350 350 424 94 32		324 4,350 700 424 94 32	422 200 50 350 	350	422 200 1,500 50 700 	400 50 100 50 100		400 100 100 50 100	400 4,800 4,800 100 50 1,212 100		500 400 4,800 	100 50 1,413 100		100 50 1,413 100

Yellow Highlight = New Project to list	W Total = Western Only Costs
Red Text = Change from previous version	O Total = Trust and Joint Participation Costs
Blue Text = will be removed from list	FY Total = Sum of W Total and O Total
Green Highlight = Generic Equipment Replace. Program	MPS Split = Multiple Power System Cost Split.

	Fund	MPS	Estimate	Actuals thru	PROJECT		FY06			FY07			FY08			FY09		T	FY10	
PROJECT	Power Sys		FY06-FY15	end of FY05	TOTAL	W Total		FY TOTAL	W Total		FY TOTAL	W Total		FY TOTAL	W Total		FY TOTAL	W Total	-	FY TOTAL
Gering Breaker Replacement: 162.462.966	PSWMF		274		274	274		274												
Glendo PCB 524 Replacement	PSWMF		63		63	63		63												
Haxtun Interruptor MOI 164 Replacement	PSWMF		50		50	50		50												
Raderville 115KV Switch Upgrade	PSWMF		416		416	195		195	221		221									
Sidney KY1A Transformer Replacement	PSWMF		696		696	50		50	646		646									
Willow Creek KZ2A Replacement	PSWMF		236		236										78	78	156	40	40	80
Garland KZ1A Replacement	PSWMF		259		259				109	73	182	46	31	77						
Granby Pumping Plant Transformer Modifications	PSWMF		575	22	597	200	200	400	88	87	175									
Limestone Sub Control Upgrades - Merged w/34.5kv Addit	PSWMF																			
Fleming Interruptor MOI 164 Replacement	PSWMF		88		88	88		88												
Pilot Butte 662 Breaker Replacement (TRS)	PST&R		111		111					111	111									
Chappell 144 Replacement - Completed	PSWMF			93	93															
Glendale KW1A - Replace Regulators - Completed	PSWMF			159	159															
Substations SubTotal			57,547	8,976	75,023	7,934	1,550	9,484	7,656	721	8,377	10,866	81	10,947	8,030	78	8,108	2,093	40	2,133
Communications	D011125	ļ				0.5.5														
Microwave Spur Replacements (PS)	PSWCF	ļ	1,025	4,458	5,483	825		825	200		200						ļ			
Archer-Cheyenne Fiber Optic Installation - Completed	PSWMF							ļ									==			
Nortel Microwave Replacements	PSWMF	ļ	1,500	l	1,500										500		500	500		500
PMOC - Crossroads Fiber Optic Installation	PSWMF		80		80	80		80												
Communications Test Equipment (PS)	PSWMF		932	0.015	932	32		32	100		100	100		100	100		100	100		100
VHF Test Equipment	PSWMF	I	18	2,043	2,061	18		18												
Estes-Valley Fiber Optic Installation	PSWMF		70	425	495	70		70												
Granby-West Portal Fiber Optic Installation	PSWMF		204		204	204		204												
USBR - CBT Fiber Optic Installation	PST&R		469	10	469		380	380		89	89									
WAPA - Cody Area Fiber Optic Installation	PSWMF		345	12	357	345		345			-						-			
UHF Radio Replacements (PS)	PSWMF		70	506	576	70		70							75		150			
Granby-Table Mountain Fiber Optic Installation	PSWMF		150		150							05		05	75	75	150			
Peetz Table Communication Building Replacement	PSWMF		225		225							25		25	200		200			
Merino Communication Building Replacement	PSWMF		225		225							25		25	200		200	= 1.1		544
Misc. Communications Facilities Replacement (PS)	PSWMF		4,384		4,384				000		000							514		514
Blue Ridge Communication Building Replacement	PSWMF		200		200				200		200	000		000						
Grouse Mountain Communication Building Replacement	PSWMF	0.00/	200		200							200		200	740		740	400		100
Central PMOC Communications Loop (80/20 Split)	PSWMF	80%	810		810			-							710		710	100		100
Airport-Weld Fiber Optic Installation - Cancelled	PSWMF																			
Horsetooth Tap - Flatiron Fiber Optic - Cancelled	PSWMF																			
Communications SubTotal			10,907	7,444	18,351	1,644	380	2,024	500	89	589	350		350	1,785	75	1,860	1,214		1,214
			10,907	7,444	10,351	1,044	300	2,024	500	09	369	330		330	1,705	75	1,000	1,214		1,214
Control, Protection and Metering																				
Protective Relay Replacements (PS)	PSWMF		6,904	1,256	8,160	694		694	690		690	690		690	690		690	690		690
Test Equipment Replacements (PS)	PSWMF	-	575	1,200	575	25		25	100		100	50		50	50		50	50		50
RTU Replacements (PS)	PSWMF		1,135	203	1,338	185		185	60		60	30		30	315		315	315		315
DDI Replacements (PS) - Expensed	PSWMF		1,100	200	1,000	100		100	00		00			50	515		515	515		010
Glendo DCS Installation - Completed	PSWMF																			
	1.0111																			
CPM SubTotal			8,614	1,459	10,073	904		904	850		850	770		770	1,055		1,055	1,055		1,055
			0,011	1,100	10,010										1,000		1,000	1,000		1,000
Mobile and Heavy Equipment																				
Misc Heavy Equipment Replacements (PS)	PSWMF		4,697		4,697	97		97	300		300	100		100	600		600	600		600
Versalift, 38' - Loveland	PSWMF		80		80	80		80	000		000	100		100	000		000	000		
Bob Cat - Loveland (replacement)	PSWMF	1	45	l	45		-					45	1	45			1			
Manlift, 65' - Cheyenne (replace 51928)	PSWMF	1	300	l	300		-					300	1	300			1			
Bucket Truck, 110' - CAS	PSWMF	1	600	l	600	600	-	600				000	1	000			1			
Mobile transformer – Loveland	PSWMF	1	950	1	950							950	1	950			1			
Lowboy Trailer_ CAS	PSWMF	1	60	l	60	60	-	60				000	1	000			1			
CDY Backhoe (replaces E51203 (CDY) - Cancelled	PSWMF	1		ł									1					1		
Backhoe/Loader - Brush (replaces E-30995) - Completed	PSWMF	1		ł				1					1					1		
Forklift - Loveland (replacement) - Cancelled	PSWMF	1		İ				1			1						ł	1		
										1			L			t	1			

Yellow Highlight = New Project to list	W Total = Western Only Costs
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Blue Text = will be removed from list	FY Total = Sum of W Total and O Total
Green Highlight = Generic Equipment Replace. Program	MPS Split = Multiple Power System Cost Split.

	Fund	MPS	Estimate	Actuals thru	PROJECT		FY06			FY07			FY08			FY09			FY10	
PROJECT	Power Sys	Split	FY06-FY15	end of FY05	TOTAL	W Total	O Total	FY TOTAL	W Total	O Total	FY TOTAL	W Total	O Total	FY TOTAL	W Total	O Total	FY TOTAL	W Total	O Total	FY TOTA
Manlift, 47' - Brush (replace 51931) - Completed	PSWMF																			
Mobile & Heavy Equipment SubTota			6,732		6,732	837		837	300		300	1,395		1,395	600		600	600	<u> </u>	600
Programmatic Improvements																				
GIS Development (PS)	PSWCF	67%	576	1,010	1,586	192		192	192		192	192		192						
Small Facility Projects (C&R - PS)	PSWCF		4,950		4,950	500		500	450		450	500		500	500		500	500		500
E-Scheduling/E-Tagging (PS)	PSWMF	69%	1,109		1,109	268		268	501		501	248		248	46		46			
IT General Support Systems (PS)	PSWMF	69%	502		502	23		23				49		49	22		22	23		23
SCADA Upgrades (PS)	PSWMF	69%	1,774	304	2,078	240		240	320		320	267		267	65		65	180		180
DAC Hardware Upgrade	PSWMF	69%	53		53	53		53												
Alt. Control Center Expansion - CH (PS)	PSWMF	69%	168	648	816	100		100	34		34	34		34						
Operations Center Map Board Replacement	PSWMF	67%	690		690	20		20	670		670									
RRADS Facility Small Projects (PS)	PSWMF		1,439		1,439	230		230	50		50	459		459	100		100	100		100
Virginia Smith DC Tie HVAC Replacement	PSWMF		564	69	633	564		564												
Loveland Maintenance Building Vehicle Lift	PSWMF		133		133	133		133												
Gering Service Center Repairs - Expensed	PSWMF																			
Gering 2507 Router - Completed	PSWMF																			
WIN Project (PS) - Expensed	PSWMF																			
Programmatic Improvements SubTotal			11,958	2,031	13,989	2,323		2,323	2,217		2,217	1,749		1,749	733		733	803		803
FY06 PS CIP Grand Total			271,419	26,149	346,518	34,512	5,430	39,942	24,903	18,231	43,134	25,860	1,581	27,441	27,008	9,828	36,836	16,940	9,715	26,655
FY05 PS CIP Totals					289.841	31.916	9,385	41,351	30,028	1,353	31.381	25,146	90	25,236	17,990		17,990	14,735	105	14,840
F TUS PS CIP TOtals					203,04 I	31,910	9,303	41,331	30,020	1,303	31,301	23,140	30	23,230	17,990		17,330	14,700	105	14,040

Comparison Ta	able (2005-2014	l)			
			Western	Other	Total
FY06 CIP			218,806	45,909	264,715
FY05 CIP			238,968	14,700	253,718
Diff			-20,162	31,209	10,997

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	Fund	MPS	Estimate	Actuals thru	PROJECT	I	FY11	FY12)		FY13		FY1	4	I	FY15	
PROJECT	Power Sys		FY06-FY15	end of FY05	TOTAL	W Total	O Total FY TOTAL			W Total		FY TOTAL	W Total O Tota		W Total		FY TOTAL
Transmission Lines																	1
Cheyenne-Miracle Mile 230kV T-Line Upgrade	PSWCF		32,000	1,112	33,112												[
Cheyenne-Ault 230kV T-line Upgrade	PSWCF		16,010		16,010												ſ
Gering-Gering Valley 34.5-kV T-Line	PSWCF		325		325												
Granby Pump Plant-Windy Gap 69-kV rebuild	PSWCF		9,150	257	9,407												
Timnath - Black Hollow 230-kV Upgrade	PSWCF		1,421		1,421												
Ft Morgan West - Kiowa Creek 230-kV Upgrade	PSWCF		9,950		9,950	200	200	600	600	8,900		8,900	250	250			
Beaver Creek-Ft Morgan West 230-kV Upgrade	PSWCF		8,900		8,900			300	300	500		500	7,900	7,900	200		200
Weld-Flatiron 230kV Upgrade	PSWCF		13,800		13,800	6,600	6,600	6,600	6,600	250		250					
Erie-Longmont NW 230-kV Upgrade	PSWCF		14,800		14,800			600	600	1,100		1,100	6,800	6,800	6,300		6,300
Ault-Willoby 230-kV	PSWCF		2,350		10,100								500	500	1,850		1,850
Kiowa Creek - Willoby 230-kV Upgrade	PSWCF		250		12,350										250		250
Beaver Creek - Hoyt 230-kV Upgrade	PSWCF		17,050	946	17,996												
Hoyt-Wiggins 115-kV Uprate	PSWCF		250	1,378	1,628												
Erie-Hoyt 230-kV Upgrade	PSWCF		27,000		27,000												
Wood Pole Test and Treatment (PS)	PSWCF		915	744	1,659												
FlatIron - Longmont NW 230-kV Upgrade	PSWCF		300		10,100										300		300
Dixon Creek - FlatIron 230-kV Upgrade	PSWCF		300		11,100										300		300
East Morrill Tap-Wildcat 34.5-kV line	PSWCF		570		570			60	60	80		80	415	415	15		15
Wildcat-Sievers 69-kV line	PSWCF		2,030		2.030			200	200	290		290	1.450	1,450	90		90
Eastern Plains Transmission Project	PSWCF		15,000		15,000	7,500	7,500	200	200			200	.,	.,			
Distribution Line Repair/Replacement - Cancelled	PSWCF		10,000		10,000	1,000	1,000										
Troublesome-Colorado Pumps - Cancelled	PSWCF															├── ┤	
Lovell - Thermopolis 115-kV line Rebuild - Completed	PSWCF			1,767	1,767											┝──┥	
Line Equipment Replacements - General (PS)	PSWMF		450	35	485	50	50	50	50	50		50	50	50	50	┢───┦	50
Wood Pole Test and Treatment (PS)	PSWMF		2.840		2.840	400	400	480	480	480		480	480	480	440		440
wood Fole Test and Treatment (FS)	FOVVIVIE		2,040		2,040	400	400	400	400	400		400	400	400	440	┢───┤	440
T Line SubTate		<u> </u>	475.004	6 0 0 0	222.350	44 750	44.750	0.000	0.000	44.050		44.050	47.045	47.045	0 705	╞━━━━┩	0.705
T-Line SubTota	1		175,661	6,239	222,350	14,750	14,750	8,890	8,890	11,650		11,650	17,845	17,845	9,795	┢────┥	9,795
																	1 '
Substations																	<u> </u>
Lusk Rural - Podolak Improvements	PSWCF		400		400												<u> </u>
Willoby Switchyard 115-kV	PSWCF		3,200		3,200												<u> </u>
Ault 230-kV additions (AU-MM 230)	PSWCF		2,100		2,100												<u> </u>
Snowy Range Substation 230-kV (Laramie)	PSWCF		4,150		4,150												<u> </u>
Miracle Mile 230-kV additions (AU-MM 230)	PSWCF		4,000		4,000												<u> </u>
Yellowtail 2nd Transformer Addition	PSWCF		75	3,023	3,098												<u> </u>
Limestone 34.5-kV additions	PSWMF		746		746												1
Snowy Range Substation 115-kV (Laramie)	PSWCF		4,550	358	4,908											í I	
Lingle Substation 69kV additions	PSWCF		2,425		2,425			100	100	2,050		2,050	275	275			
Torrington Substation 69-kV additions	PSWCF		4,130		4,130			150	150	3,550		3,550	430	430			
Cheyenne 230-kV additions	PSWCF		5150		5150												
Beaver Creek 230-kV additions (BC-EE 230-kV)	PSWCF		5600		5600												
Torrington Substation KY2A addition	PSWCF		1500		1500												
Willoby Substation 230-kV	PSWCF		1800		7200										1,800		1,800
Ault 230-kV terminal (AU-WBY 230-kV)	PSWCF		100		3200										100		100
Wray Substation Modifications - Completed	PSWCF																
Whiterock Substation - Completed	PSWCF	Ī	1	3,995	3,995												[
Whitney - Completed	PSWCF	t		657	657	T					1				T		ſ
Cheyenne 115-kV Shunt Capacitor - Cancelled	PSWCF	t	1	-	-	1					1				1		
Gering Substation 69-kV additions - Cancelled	PSWCF	1	l			1	1				1			1	1		[
Torrington - Wildcat 69kV additions - Cancelled	PSWCF	1	1			1	1 1					İ		1	1		
Battery and Charger Replacements (PS)	PSWMF		1,324	669	1,993	100	100	100	100	100		100	100	100	100		100
CCVT, PT, & CT Replacement (PS)	PSWMF		594		594	50	50	50	50	50		50	50	50	100		100
Misc. Substation Elect. Equipm. Replace. (PS)	PSWMF		11,168		11,168	1,832	1,832	1,412	1,412	1,795		1,795	1,804	1,804	1,700		1,700
Replace 230kV Arrestors AV5A on Stegall E. 230 Bus	PSWMF		32		32	1,002	1,002	1,112	1,712	1,700		1,700	1,001	1,004	1,100		1,100
Substation Test Equipment (PS)	PSWMF		900		900	100	100	100	100	100		100	100	100	100		100
Substation Disconnect Switch Replacements (PS)	PSWMF		360		360	40	40	40	40	40		40	40	40	40		40
Alcova 462, 662, 862, 1062 Replacement	PSWMF	-	450		450	-+0	40		+0	40		40	-0	40	-+0		
Gering Station Service Switchgear	PSWMF	1	450 25		450 25				-					-		┢───┤	j′
Centry Station Service Switchyear	FOVVIVIE	1	20		20		I				1	1					·'

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	Fund	MPS	Estimate	Actuals thru			FY11			FY12			FY13			FY14	
PROJECT	Power Sys	Split	FY06-FY15	end of FY05	TOTAL	W Total	O Total	FY TOTAL	W Total	O Total	FY TOTAL	W Total	O Total	FY TOTAL	W Total	O Total	FY TC
Gering Breaker Replacement: 162,462,966	PSWMF		274		274												
Glendo PCB 524 Replacement	PSWMF		63		63												
Haxtun Interruptor MOI 164 Replacement	PSWMF		50		50												
Raderville 115KV Switch Upgrade	PSWMF		416		416												
Sidney KY1A Transformer Replacement	PSWMF		696		696												
Willow Creek KZ2A Replacement	PSWMF		236		236												
Garland KZ1A Replacement	PSWMF		259		259												
Granby Pumping Plant Transformer Modifications	PSWMF		575	22	597												
Limestone Sub Control Upgrades - Merged w/34.5kv Addit	PSWMF																
Fleming Interruptor MOI 164 Replacement	PSWMF		88		88												
Pilot Butte 662 Breaker Replacement (TRS)	PST&R		111		111												
Chappell 144 Replacement - Completed	PSWMF			93	93												
Glendale KW1A - Replace Regulators - Completed	PSWMF			159	159												
Substations SubTotal		1	57,547	8,976	75,023	2,122		2,122	1,952		1,952	7,685		7,685	2,799		2,79
			07,047	0,010	10,020	2,122		2,122	1,002		1,552	1,000		7,000	2,100		2,7
Communications																	
Microwave Spur Replacements (PS)	PSWCF		1,025	4,458	5,483												
Archer-Cheyenne Fiber Optic Installation - Completed	PSWMF	-	1,020	ч,чоо	0,400												
Nortel Microwave Replacements	PSWMF		1,500		1,500	500		500				-					
PMOC - Crossroads Fiber Optic Installation	PSWMF		80		1,500	500		500									
Communications Test Equipment (PS)					932	100		100	100		100	100		100	100		10
	PSWMF		932	0.040		100		100	100		100	100		100	100		10
VHF Test Equipment	PSWMF		18	2,043	2,061												
Estes-Valley Fiber Optic Installation	PSWMF		70	425	495												
Granby-West Portal Fiber Optic Installation	PSWMF		204		204												
USBR - CBT Fiber Optic Installation	PST&R		469	10	469												
WAPA - Cody Area Fiber Optic Installation	PSWMF		345	12	357												
UHF Radio Replacements (PS)	PSWMF		70	506	576							-					
Granby-Table Mountain Fiber Optic Installation	PSWMF		150		150							-					
Peetz Table Communication Building Replacement	PSWMF		225		225							-					
Merino Communication Building Replacement	PSWMF		225		225				070		070						
Misc. Communications Facilities Replacement (PS)	PSWMF		4,384		4,384	800		800	670		670	800		800	800		80
Blue Ridge Communication Building Replacement	PSWMF		200		200												
Grouse Mountain Communication Building Replacement	PSWMF		200		200												
Central PMOC Communications Loop (80/20 Split)	PSWMF	80%	810		810												
Airport-Weld Fiber Optic Installation - Cancelled	PSWMF																
Horsetooth Tap - Flatiron Fiber Optic - Cancelled	PSWMF																
Communications SubTotal			10,907	7,444	18,351	1,400		1,400	770		770	900		900	900		90
Control, Protection and Metering																	
Protective Relay Replacements (PS)	PSWMF		6,904	1,256	8,160	690		690	690		690	690		690	690		69
Test Equipment Replacements (PS)	PSWMF		575		575	50		50	50		50	50		50	50		50
RTU Replacements (PS)	PSWMF		1,135	203	1,338	230		230									
DDI Replacements (PS) - Expensed	PSWMF		,		,												
Glendo DCS Installation - Completed	PSWMF																
CPM SubTotal		1	8,614	1,459	10,073	970		970	740		740	740		740	740		74
			5,514	.,	. 0,070	0.0		0.0					+				
Mobile and Heavy Equipment														1			
Mobile and Heavy Equipment	DOMAG	<u> </u>	4.007		4.007	000		000	000		000	000		000	000		0.00
Misc Heavy Equipment Replacements (PS)	PSWMF		4,697		4,697	600		600	600		600	600		600	600		60
Versalift, 38' - Loveland	PSWMF	I	80		80	l							-				
Bob Cat - Loveland (replacement)	PSWMF	ļ	45		45								ļ		ļ		ļ
Manlift, 65' - Cheyenne (replace 51928)	PSWMF	ļ	300		300												
Bucket Truck, 110' - CAS	PSWMF	I	600		600									ļ			
Mobile transformer – Loveland	PSWMF	ļ	950	ļ	950												
Lowboy Trailer_ CAS	PSWMF		60		60												
CDY Backhoe (replaces E51203 (CDY) - Cancelled	PSWMF																
Backhoe/Loader - Brush (replaces E-30995) - Completed	PSWMF																
Forklift - Loveland (replacement) - Cancelled	PSWMF																
-		-	-	-		-			-		•		•	•	-	•	•

		EV45	
FY TOTAL	W Total	FY15	FY TOTAL
FTIUTAL	w lotai	O Total	FTIUTAL
2,799	3,940		3,940
100	100		100
800	800		800
900	900		900
690	690		690
50	100		100
740	790		790
600	600		600
	000		
		ii	ni

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	Fund	MPS	Estimate	Actuals thru	PROJECT		FY11			FY12			FY13			FY14			FY15	
PROJECT	Power Sys	Split	FY06-FY15	end of FY05	TOTAL	W Total	O Total	FY TOTAL	W Total	O Total	FY TOTAL	W Total	O Total F	Y TOTAL	W Total	O Total	FY TOTAL	W Total 0	D Total	FY TOTAL
Manlift, 47' - Brush (replace 51931) - Completed	PSWMF																			
Mobile & Heavy Equipment SubTotal			6,732		6,732	600		600	600		600	600		600	600		600	600		600
Programmatic Improvements																				
GIS Development (PS)	PSWCF	67%	576	1,010	1,586															
Small Facility Projects (C&R - PS)	PSWCF		4,950		4,950	500		500	500		500	500		500	500		500	500		500
E-Scheduling/E-Tagging (PS)	PSWMF	69%	1,109		1,109							46		46						
IT General Support Systems (PS)	PSWMF	69%	502		502	33		33	212		212	22		22	59		59	59		59
SCADA Upgrades (PS)	PSWMF	69%	1,774	304	2,078	65		65	436		436	67		67	67		67	67		67
DAC Hardware Upgrade	PSWMF	69%	53		53															
Alt. Control Center Expansion - CH (PS)	PSWMF	69%	168	648	816															
Operations Center Map Board Replacement	PSWMF	67%	690		690															
RRADS Facility Small Projects (PS)	PSWMF		1,439		1,439	100		100	100		100	100		100	100		100	100		100
Virginia Smith DC Tie HVAC Replacement	PSWMF		564	69	633															
Loveland Maintenance Building Vehicle Lift	PSWMF		133		133															
Gering Service Center Repairs - Expensed	PSWMF																			
Gering 2507 Router - Completed	PSWMF																			
WIN Project (PS) - Expensed	PSWMF																			
Programmatic Improvements SubTotal			11,958	2,031	13,989	698		698	1,248		1,248	735		735	726		726	726		726
FY06 PS CIP Grand Total		I	271.419	26.149	346,518	20,540		20,540	14,200		14.200	22,310		22,310	23,610		23,610	16.751		16,751
			2/1,419	20,149	540,510	20,540		20,340	14,200		14,200	22,310		22,310	23,010	l	23,010	10,751		10,731
FY05 PS CIP Totals					289,841	29,200	1,900	31,100	21,150	300	21,450	28,380		28,380	22,980		22,980			

Comparison Table (2005-2014)						
FY06 CIP						
FY05 CIP						
Diff						

5.1 Success Indicators

The goal of Western's Plan is to assure the most cost-effective use of available capital resources to assure long-term electric system reliability and availability. The following sections summarize the inventory of major power system equipment and indicators for measuring the success of our capital program.

Facilities

Western operates and maintains an extensive system of interconnected substations, transmission lines, and communication sites. The Region owns and operates 118 substations in the states of Wyoming, Nebraska, Colorado, New Mexico, and Utah. The substations comprise the majority of the maintained equipment in the Region, including 460 high voltage circuit breakers and 121 power transformers.

The substations are interconnected by 5,286 miles of transmission lines operating at voltages between 12,500 and 345,000 volts. The majority of the transmission lines (3,324 miles) were built using wood pole structures, with the remainder (1,962 miles) being of steel structure construction. The breakdown of line miles by voltage and construction is shown below:

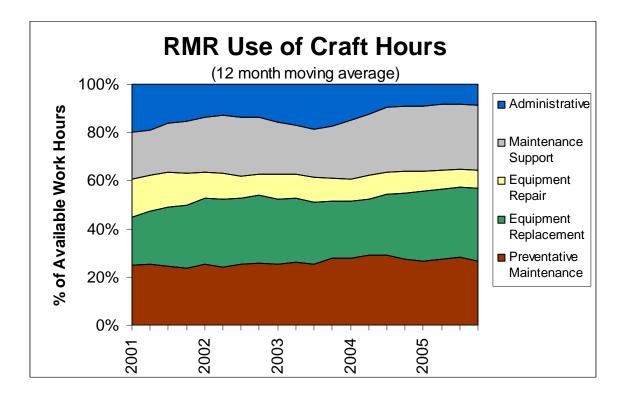
Voltage	Miles of Wood Construction	Miles of Steel Construction	Total
345-kV	0	383	383
230-kV	127	1,434	1,561
138-kV	306	24	330
115-kV	2,347	92	2,439
69-kV	243	25	268
<69-kV	301	4	305
Total	3,324	1,962	5,286

The electrical system is operated from the Loveland Control Center by means of an extensive communications network consisting of microwave, radio, and fiber optic links. The links are connected through 142 Western-owned communications sites.

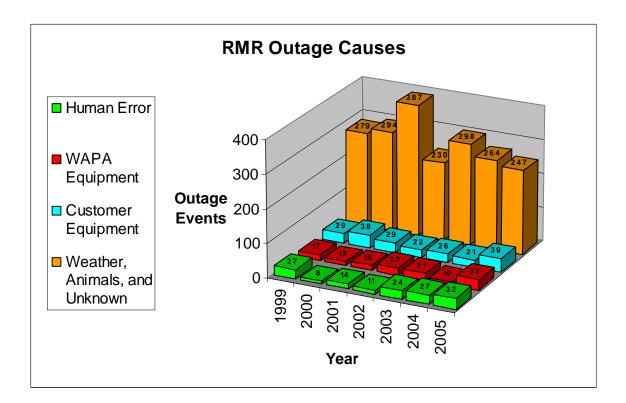
Indicators

We can measure the success of our efforts in several ways:

Leading Indicators. Measurable activities that result in positive outcomes are considered to be leading indicators. For example, increasing the amount of resources allocated to preventative maintenance activities on equipment should result in a reduction of critical equipment failures. Similarly, increasing the amount of resources allocated to equipment improvement and replacement activities should result in fewer equipment-related outages. The following chart shows Western's percentage allocation of craft labor for preventative maintenance and equipment replacement activities over the last four years as compared to other activities.

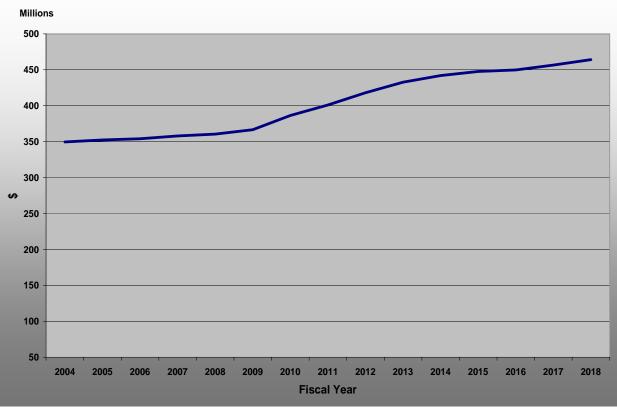


Lagging Indicators. The ultimate goal of the Capital Investment Program is to assure electric system reliability. Therefore, the result of an effective program should be fewer power outages due to equipment failures. Since the results of a poorly maintained or managed power system would not be apparent for several years, equipment outage rates tend to be a lagging performance indicator. The following chart shows the annual number of outages in the control system due to all causes including weather, equipment failures, and human error.



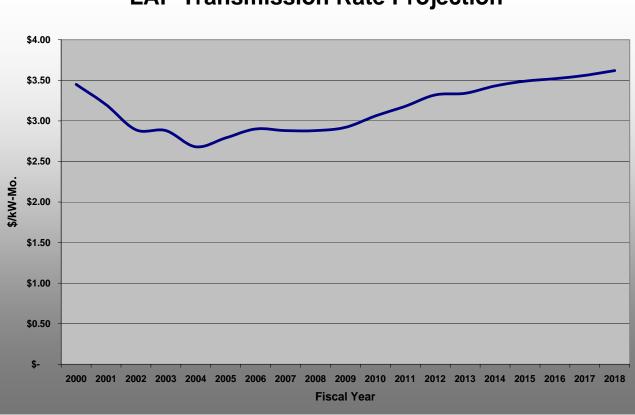
Financial Indicators. Western has identified two financial measures that reflect a cost-effective investment program: Net Plant Investment and Rate Impact. Western does not believe that it is possible to maintain system reliability under current load and generation growth conditions without increasing Net Plant Investment. A flat or declining Net Plant Investment is an indicator of a deteriorating system. Conversely, Western must consider the impact on the transmission rate of increasing the Net Plant Investment too rapidly, which result in an unacceptable growth in the rate. As the following graphs indicate, Western's proposed Plan seeks to successfully balance these issues.

The Plan results in an annual growth rate in plant investment for the LAP system of approximately 2% from 2004 through 2018.



LAP Net Transmission Plant Investment

The rate impact of these investments also shows an annual growth rate of 2% per year. However, the estimated rate in 2018 is only slightly higher than the rate that Western initiated in FY00.



LAP Transmission Rate Projection

In determining the estimated rate impact, Western used an average load growth rate of 2% per year.

Western will continue to update its Plan and will collaborate with CRSP to develop similar financial indicators for the CRSP transmission system.

Customer Comments on the 2006 Draft Capital Investment Program Plan

Western received thirteen letters commenting on RMR's draft 2006 Capital Investment Plan. The joint Eastern Plains Transmission Project (EPTP) with Tri-State Generation and Transmission Association was specifically addressed in every letter.

The following is a summary of each set of comments received.

1. Arkansas River Power Authority (ARPA) stated its support for Western's participation in the EPTP referencing benefits of potential saving in transmission costs and reduced losses.

2. Kansas Electric Power Cooperative, Inc., stated its support for Western's participation in the EPTP referencing benefits in lowering transmission costs, increasing transmission sales and, most importantly, lowering purchase power costs. The \$15 million cost in participation is more than offset by the estimated savings and additional revenue to Western. They also recommended that Western hold the line on the \$15 million contribution to the Project.

3. Lamar Light and Power stated its support for Western's participation in the EPTP. Western's participation in the project will make delivery of federal allocation more economical with lower transmission fees and power supply costs. They also noted that all the communities of the ARPA will benefit.

4. Sunflower Electric Power Corporation stated its support for Western's participation in the EPTP.

5. The Town of Holly stated its support for Western's participation in the EPTP referencing the benefit of lower transmission costs.

6. The Town of Springfield sent two letters stating its support for Western's participation in the EPTP referencing benefits in transmission cost savings and reduced losses. As a member of the Arkansas River Power Authority, The Town of Springfield recognizes that the increases in transmission capacity will benefit ARPA's 1.5 MW wind turbine southwest of Springfield. This project could be the mechanism that allows more wind development to take place in its county.

7. The City of Trinidad stated its support for Western's participation in the EPTP referencing benefits of saving in construction costs, wheeling expenses and system losses. They noted that ARPA will also realize benefits from the Project.

8. Platte River Power Authority stated its support for Western's participation in the EPTP. The capacity that Western will have after the Project is completed will more than pay for the modest investment by Western. Specifically connecting a

345-kV line from Big Sandy into Story and rebuilding Western's 115-kV line into Erie will help provide support for Platte River's loads into the Longmont area.

9. The City of Fountain stated its support for Western's participation in the EPTP referencing the benefit of lower transmission costs, transmission losses and elimination of augmentation credits. The Project will strengthen Western's transmission system in eastern Colorado and improve system reliability. The proposed interconnection at Midway Substation will provide specific opportunities for the City of Fountain to receive its federal allocation without using intervening transmission systems.

10. Wyoming Municipal Power Agency (WMPA) supports Western's involvement in this project because it allows for opportunities to enhance transmission deliveries to existing LAP customers in the Midway Substation area and reduces costs for transmission access to Mt. Elbert Pumped Storage generation resource. WMPA pointed out several areas of concern for the EPTP: (a) that Western has no inherent utility responsibility nor obligation to increase transmission capacity beyond that necessary to convey CROD capacity and energy to its designated delivery points; (b) the long lead time between execution of the contract and the realization of any system enhancements makes economic analysis speculative at best; (c) that RMR did not give customers a long lead time to comment on our intent to participate in this project; (d) that Western maintain the ability to terminate involvement and financial obligations if sufficient "off ramps" are not realized. This includes access into Midway Substation, allowing for the expansion of delivery rights at Midway; (e) that final contract language should provide sufficient compensation to RMR for all actual work performed in all phases of the project; (f) that RMR should be able to have appropriate rights to the communication system that will be a part of this project; and (g) that Western not pursue this project to the exclusion of more cost effective solutions to CROD delivery and enhanced transmission opportunities that may arise in the future. WMPA expressed its appreciation for Western's willingness to discuss plans for transmission augmentation, solicit input on such projects, and modify plans based on customer input.

11. The Municipal Energy Agency of Nebraska (MEAN) made specific comments on the draft copy of RMR's Capital Improvement Plan. Their first comment addressed the Platte Valley 34.5 to 69-kV Conversion. MEAN supports Western's most recent approach to stabilizing the low power factors in this area and to minimizing major impacts to MEAN members. MEAN also supports the Miracle Mile-Cheyenne-Ault Improvements. MEAN appreciates increasing transmission on the TOT 3 interface and has requests in the cue for additional TOT 3 capacity rights. The Front Range Improvements project is also supported by MEAN. MEAN requests that Western construct the lines in a double circuit, 230-kV line on one side and 115-kV line on the other. This will allow Western and MEAN customers time to develop transition plans for future 230-kV operation. MEAN supports the EPTP but asks that Western ensure that its Open

Access Transmission Tariff principles be adhered to for allocation and contribution to facility construction costs. MEAN appreciates Western considering innovative approaches to project planning as it pertain to interconnecting transmission facilities at the Midway Substation.

12. Colorado Springs Utilities (CSU) supports Western's participation in the EPTP, especially the plan to extend new transmission into Midway Substation, and suggests that Western's participation in the EPTP be contingent on completing the full Midway interconnection. CSU asks that Western include reasonable estimates of future transmission revenues in the annual power repayment study to mitigate added transmission cost impacts on the firm power rate. CSU encourages Western to continue share common project facilities with other participants to reduce capital and maintenance costs and suggests that Western seek equitable compensation for its involvement in the project.