



MEMORANDUM

EUGENE WATER & ELECTRIC BOARD

Rely on us.

TO: Commissioners Mital, Simpson, Helgeson, Manning, and Brown
FROM: Mel Damewood, Engineering Manager
DATE: May 22, 2015
SUBJECT: EL1 Capital Report for Year-End 2014 and Q1 2015
OBJECTIVE: Information Only

Issue

As per EWEB's EL1 Financial Policy that was approved on February 4, 2014, EWEB staff has prepared and attached the 2014 Year End and 1st Quarter 2015 Capital Report for Electric, Water, and Shared Services to the Board.

Background

According to Financial Policy EL1:

Throughout the year, staff will provide the Board with quarterly financial reports that compare actual results with budget. Additionally, staff will provide the Board with quarterly updates for all current year projects on the Capital Improvement Plans. General Capital Renewal and Replacement projects (Type 1) will be reported by category (e.g., substations, shared IT infrastructure, transmission & distribution mains). Infrastructure Rehabilitation & Expansion (Type II) and Strategic Projects (Type III) will be reported individually. Type II and III projects are further defined as those that are projected to be greater than \$1 million for the life of the project.

Due to the implementation of WAM and subsequent limited financial reporting capabilities since late 2014, staff is finally presenting the referred EL1 reports. Staff should now be able to provide the Board with consistent quarterly updates of the EL1 reports starting with the 2015 Q2 report.

The 2015 Budget column also represents the budget after the 2015 true-up was approved in May.

Recommendation and Action

This is an information item only, no action required. If you have any questions or wish to make comments on the reports please contact Mel Damewood a 541-685-7145 or email at mel.damewood@eweb.org

Capital "EL-1" Report: Electric, 2014-Q4

Type 1 - General Capital

Capital Category	2014 thru Q4			Status/Comments
	Budget (Includes April Amendments)	YTD Actual	Year-End Projection (from Q3)	
Electric Infrastructure - Generation	\$599,720	\$338,182	\$450,000	● Overall project list generally progressed on schedule and budget, though implementation delays caused by emergent work pushed some projects into 2015. An emergent problem with the attraction water supply for a fish ladder at Leaburg Dam will not be resolved until 2016 and has been added to the updated CIP. Does not include Leaburg Roll Gate (Type 2) (ZINNIKER)
Electric Infrastructure - Substations & Telecom	\$2,707,083	\$2,202,897	\$2,400,000	● Slight underspending due to deferment of Hilyard 15kV breaker project of \$125K. (LAWSON)
Electric Infrastructure - Transmission & Distribution	\$8,344,823	\$4,589,141	\$5,080,000	● Customer-driven work remained strong in 2014, but also caused some slight delays in EWEB driven reliability projects (primarily distribution switches).

In the future, these categories will match the Capital Improvement Plans (CIPs) submitted by Water & Electric.

Type 1 - General Capital is budgeted Year-by-Year for recurring capital expenditures from January through December. Type 1 Capital includes categorized collections of projects of less than \$1 million. Typical examples include "pole replacements" as part of Transmission & Distribution. This work typically involves many small projects that up to \$1.2-\$1.7 million per year.

Type 2 projects have "discrete" scopes, schedules (launch through completion), and cost over \$1MM during the project life.

Type 2 Rehabilitation & Expansion Projects

Project	2014 thru Q4			Project Total			Schedule			Status/Comments
	Budget (Includes April Amendments)	YTD Actual	Year-End Projection (from Q3)	Initial Plan	To-Date Actual	Project-End Projection	Start	Initial Planned Completion	Projected Completion	
Leaburg Roll Gate #2 Re-Build	\$2,857,000	\$1,182,564	\$2,500,000	\$1,600,000	\$1,497,128	\$2,790,705	Jul-2012	Jun-2014	Feb-2015	● Delays related to critical equipment delivery lead time pushed the schedule for return to service into 2015. (ZINNIKER). Rollgate #2 was completed in February 2014.
LTD EmX Project (Electric)	\$755,000	\$443,921	\$1,225,000	\$5,700,000	\$567,719	\$6,747,525	Sep-2013	---	Jun-2016	● Electric relocation design is near 90% complete based on LTD's design. LTD's design team is pursuing easements needed to accommodate displaced facilities. Electric relocations delayed pending easement acquisitions. (THOMAS)
Upriver Re-Configuration/Holden Ck. Substation	\$500,000	\$11,200	\$20,000	\$3,000,000	\$11,200	\$3,000,000	Jan-2014	Oct-2015	Oct-2016	● Continuing project review in coordination with BPA. Project design delayed approximately 6 months; maintain original budget totals. (ATKINSON)
Downtown Distribution Network	\$2,500,000	\$1,059,286	\$1,800,000	\$15,000,000	\$4,455,709	\$20,000,000	Sep-2010	Dec-2015	TBD	● Evaluating impact of technology change that allows DG over-generation in Network system. Present spending rate reflects equipment-specific upgrades or replacements (e.g. network protectors).

Type 3 - Strategic Projects & Programs

Project	2014 thru Q3			Project Total			Schedule			Status/Comments
	Budget (Prior to April Amendments)	YTD Actual	Year-End Projection (incl. April Admendments)	Initial Plan	To-Date Actual	Project-End Projection	Start	Initial Planned Completion	Projected Completion	
AMI Deployment - Meter Acquisition Costs	\$0	\$0	\$0	\$10MM	\$0	See Comments	Jan, 2008	Jun, 2014	TBD	● See Shared Services Report
Carmen Smith License Implementation	\$2,953,241	\$1,086,314	\$1,562,000	\$135,000,000	\$34,129,603	\$164,000,000	May-2009	Dec-2021	Dec-2025	● Continued uncertainty regarding licensing date; renegotiation on downstream passage underway; implementing 5-year plan to address aging infrastructure issues at Carmen Powerhouse (ZINNIKER, BOYLE)

Water Capital Projects Quarterly Status Report 2014-Q4

Type 1 - General Capital

Project	2014			Status/Comments
	Budget	YTD Actual	Year-End Projection	
Source - Water Intakes & Filtration Plant	\$734,656	\$783,787	\$600,000	● Includes 7 Type 1 jobs at Hayden Bridge - on track so far. Network upgrade could sway YE Projection up or down.
Mains - Replacements, Improvements, & Transmis	\$4,723,945	\$4,832,059	\$4,350,000	● YE Projection is approximate, EmX still affecting work.
Services and Meters	\$1,186,363	\$1,420,506	\$1,000,000	● Bulk of Type 1 is water meter replacements.
Pump Stations	\$697,036	\$273,493	\$670,000	● Includes new Shasta 1150 pump station and emergent work at Santa Clara. Limited resources are affecting schedule on Shasta 1150
Reservoirs	\$303,899	\$54,562	\$80,000	● On-going security and emergent work.

These categories will match the Capital Improvement Plans (CIPs) submitted by Water & Electric.

Type 1 - General Capital is budgeted Year-by-Year for recurring capital expenditures from January through December. Typical Type 1 Capital includes categorized collections of projects of less than \$1 million.

Typical examples include "main replacements". This work typically involves dozens of jobs that add up to \$3-\$3.5 million per year.

Type 2 Rehabilitation & Expansion Projects

Project	2014			Project Total			Schedule			Status/Comments
	Budget	YTD Actual	Year-End Projection	Initial Plan	To-Date Actual	Project-End Projection	Start	Initial Planned Completion	Projected Completion	
Raw Water Intake Improvements	\$3,672,049	\$3,070,055	\$3,200,000	\$6,292,000	\$6,779,523	\$6,910,000	2011	YE-2013	Q1-2015	● Intake 1 Upgrades complete, in Construction at Intake 2. (Initial Plan - 2011 CIP)
Hayden Bridge Filter S1-S6 Upgrades	\$103,016	\$29,032	\$103,000	\$7,713,000	\$4,037,690	\$7,770,000	2011	YE-2017	YE-2016	● Upgrade of Filters N1-N6 Complete. Beginning design of upgrades of S1-S6 for const. in 2015-2016. (Initial Plan - 2011 CIP)
Hayden Bridge Seismic Upgrades	\$865,302	\$638,225	\$870,000	\$1,215,529	\$645,067	\$1,190,000	2014	YE-2015	YE-2016	● Phase 1 (Basins and Filters) is in construction. Phase 2 (Headhouse) will start in 2016 (Initial Plan - 2013 CIP)
Terry to Green Hill Extension (Veneta)	\$60,000	\$4,199	\$50,000	\$1,545,000	\$1,204,273	\$1,250,000	2012	YE-2012	YE-2015	● New transmission line is in operation. Working on closeout instrumentation/communications. (Initial Plan - 2012 CIP)
WM River Crossing at Beltline	\$380,000	\$359,893	\$466,000	\$2,000,000	\$2,390,231	\$2,500,000	2011	YE-2012	Q3-2014	● Crossing is complete. Early permitting issues pushed project into 2014. (Initial Plan 2011 CIP)
Distribution System Scada/PLC Upgrades	\$149,999	\$89,687	\$150,000	\$3,079,780	\$110,109	\$2,900,000	2013	YE-2016	YE-2019	● Multi-Year upgrade project. 2014 first significant year of work. Developed standard and completed upgrade of first pump station. Working on selecting second station for upgrade. (Initial Plan 2013 CIP)
Willamette 800 Reservoir No.1 Replacement	\$543,763	\$59,491	\$250,000	\$1,639,760	\$126,850	\$1,750,000	2013	YE-2014	Q3-2015	● After evaluation, project changed from rehab to a replacement. Construction pushed back one year. Currently in design. (Initial Plan 2013 CIP)
LTD EMX	\$1,700,000	\$1,028,862	\$1,700,000	\$0	\$1,028,862	\$3,450,000	2014	2015	Q3-2015	● EWEB has completed service relocations on 6th and 7th Aves. Decision has been made to contract main replacements for EMX. These should start in early 2015.

Type 3 - Strategic Projects & Programs

Project	2014			Project Total			Schedule			Status/Comments
	Budget	YTD Actual	Year-End Projection	Initial Plan	To-Date Actual	Project-End Projection	Start	Initial Planned Completion	Projected Completion	
Alternative Water Supply	\$51,665	\$0	\$60,000	\$52,707,167	\$0	\$65,910,000	2014 with Planning	YE-2021	YE-2021	● 2014 Activites were minor and were tracked under Type 1 Work. This will changed in 2015 as work ramps up.

Capital "EL-1" Report: Shared Services, 2014-Q4

Type 1 - General Capital

Capital Category	2014			Status/Comments
	Budget (Includes April Amendments)	YTD Actual	Year-End Projection	
General Plant - Information Technology (I.T.)	\$2,134,807	\$919,132	\$1,657,084	● 2014 included the completion of edge switch replacements, electric system analysis software commissioning, high-volume messaging addition for outage management, along with the Type II I.T. projects below.
General Plant - Buildings & Land Management	\$1,726,519	\$584,664	\$794,044	● 2014 included completion of the ROC fuel tanks. HQ renovation of the HVAC system, Midgley Bldg roof replacement and Credit Union Heating and Cooling Upgrade to be deferred to 2015. Q3 reduction to Year-End Projection will roll over to 2015. (BONDIOLI)
General Plant - Fleet Capital	\$1,743,629	\$1,514,588	\$1,743,629	●

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Type 2 projects have "discrete" scopes, schedules (launch through completion), and cost over \$1MM during the project life.

Type 2 Rehabilitation & Expansion Projects

Project	2014			Project Total			Schedule			Status/Comments
	Budget (Includes April Amendments)	YTD Actual	Year-End Projection	Initial Plan	To-Date Actual	Project-End Projection	Start	Initial Planned Completion	Projected Completion	
Payment Interface (Energy Insight)	\$209,294	\$45,500	\$45,500	---	\$975,980	\$1,139,774	Jan-2011	---	End of Q1 2015	● This enhancement, the payment interface module, is being cancelled. The Energy Insight (EI) program is designed to web-initiate, manage, track, and report activity associated with the investments and returns (including BPA cost recovery) of incentivized conservation programs. The intent was to link EI with customer/contractor payables and incentives. EI Payment Interface uses a SOA platform, and project continuation is on hold until WAM is complete.
Metro Ethernet (Shared I.T. Infrastructure)	\$584,879	\$271,377	\$271,377	\$5,725,000	\$5,551,579	\$5,775,862	Apr-2012	Jul-2013	Dec-2014	● The Metro Ethernet project has been substantially completed for electric SCADA applications. Additional applications may be added in the future.
WAM Implementation	\$4,643,720	\$3,684,378	\$3,684,378	\$8,327,614	\$7,250,143	\$8,327,614	Jun-2013	Aug-2014	Jun-2015	● Work Order and Asset Management and Mobile Work Management System is designed to provide real-time, utility-wide visibility into type, location and condition of our assets. This data will provide us the ability to forecast how and when to spend our capital and O&M funds. WAM went live on November 4, 2014. However, additional commissioning work ("punchlist items") will continue into 2015. The system is intended to establish common processes; single asset repository; visibility of work across business units; create/revise asset management policies and processes; reduce multiple systems and reduces/eliminates manual processes. Realization of these benefits will require additional process and system implementation work in 2015.
Steam Plant De-Commissioning	\$1,100,995	\$902,203	\$1,100,955	\$1,250,000	\$1,494,662	\$1,693,414	Jan-2013	"2014"	Nov-2014	● The asbestos abatement and demolition for all of the boilers has been completed. Boilers No. 2 and 3 have been removed. "Historic" Boiler #1 remains at the steam plant. (NEWCOMB/RUBEN)
AMI Information Technology & Integration	\$280,064	\$5,651	\$280,064	---	\$5,651	\$3,700,000	Jan-2008	Dec-2014	Dec-2017	● Forecast of \$3.7MM covers AMI "Initial Opt-In Phase" through 2017. (ARMSTEAD)
River-Front Property Development	\$350,000	\$281,952	\$300,000	n/a	\$2,181,952	\$2,400,000	Feb-2006	n/a	Dec-2019	● UO Foundation has elected to withdraw from negotiations on the project.

Capital "EL-1" Report: Electric, 2015-Q1

Type 1 - General Capital

Capital Category	2015 thru Q1			Status/Comments
	Budget (Includes Amendments)	YTD Actual	Year-End Projection	
Electric Infrastructure - Generation	\$1,200,000	\$128,170	\$1,200,000	● Significant 2015 projects include Leaburg debris boom and right bank fish ladder diffuser. (ZINNIKER)
Electric Infrastructure - Substations & Telecom	\$2,000,000	\$142,692	\$2,000,000	● Major work includes breaker replacement(s) at Hilyard and Prairie Substations; New RTU and controls as Prairie. (LAWSON)
Electric Infrastructure - Transmission & Distribution	\$8,200,000	\$1,632,055	\$8,200,000	● The \$8.2 MM includes \$4.0MM in customer-driven capital (re-imbursed). PUC and pole replacement work is ahead of schedule in Q1 at \$919K of \$2.4MM annual budget; Customer-Driven completions slightly behind budget, along with distribution transformer replacements. (LAWSON)

In the future, these categories will match the Capital Improvement Plans (CIPs) submitted by Water & Electric.

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Type 2 projects have "discrete" scopes, schedules (launch through completion), and cost over \$1MM during the project life.

Type 2 Rehabilitation & Expansion Projects

Project	2015 thru Q1			Project Total			Schedule			Status/Comments
	Budget (Includes Amendments)	YTD Actual	Year-End Projection	Initial Plan	To-Date Actual	Project-End Projection	Start	Initial Planned Completion	Projected Completion	
Leaburg Roll Gate #2 Re-Build	\$1,600,000	\$1,289,325		\$1,600,000	\$2,786,453		Jul-2012	Jun-2014	Feb-2015	● Project completed in February 2015.
Leaburg Roll Gate #1 Re-Build	\$2,000,000	\$0	\$2,000,000	\$2,000,000	\$0	\$2,000,000	Mar-2015	Nov-2015	Nov-2015	● Emergent project due to failure of RG No. 1 hoist system in December 2014. CIP updated accordingly and Board approved construction contract amendment as part of the April True-Up.
Leaburg Roll Gate #3 Re-Build	\$400,000	\$0	\$400,000	\$1,550,000	\$0	\$1,550,000	Dec-2015	Nov-2016	Nov-2016	● Emergent project due to failure of RG No. 1 hoist and subsequent order from the FERC to replace RG No. 3 hoist system due to critical dam safety equipment reliability concerns. CIP updated accordingly and Board approved construction contract amendment as part of the April True-Up.
LTD EmX Project (Electric)	\$3,370,000	\$109,023	\$3,370,000	\$5,700,000	\$676,742	\$6,747,525	Sep-2013	---	Jun-2016	● Electric relocation design is nearly complete based on LTD's design. LTD's design team is pursuing easements needed to accommodate displaced facilities. Electric relocations delayed pending easement acquisitions. (THOMAS)
Upriver Re-Configuration/Holden Ck. Substation	\$500,000	\$210	\$500,000	\$3,000,000	\$11,410	\$3,000,000	Jan-2014	Oct-2015	Oct-2016	● Design to be completed in 2015, along with early procurement. Construction planned for 2016. (LAWSON)
Downtown Distribution Network	\$1,000,000	\$18,275	\$1,800,000	\$15,000,000	\$4,473,984	\$20,000,000	Sep-2010	Dec-2015	Dec-2018	● 2015 work includes equipment-based replacements including a transformer and multiple network protectors upgrades. Network analysis, and technology for potential handling of downtown distributed generation (DG) are forecasted for late 2015.

Type 3 - Strategic Projects & Programs

Project	2015 thru Q1			Project Total			Schedule			Status/Comments
	Budget (Prior to April Amendments)	YTD Actual	Year-End Projection (Incl. April Amendments)	Initial Plan	To-Date Actual	Project-End Projection	Start	Initial Planned Completion	Projected Completion	
AMI Deployment - Meter Acquisition Costs										● See Shared Services Report
Carmen Smith License Implementation	\$6,800,000	\$851,239	\$6,800,000	\$135,000,000	\$34,980,842	\$164,000,000	May-2009	Dec-2021	Dec-2025	● Continued uncertainty regarding licensing date; renegotiation on downstream passage underway; implementing 5-year plan to address aging infrastructure issues at Carmen Powerhouse (ZINNIKER, BOYLE)

Water Capital Projects Quarterly Status Report 2015-Q1

Type 1 - General Capital

Project	2015			Status/Comments
	Budget	YTD Actual	Year-End Projection	
Source - Water Intakes & Filtration Plant	\$575,000	\$263,504	\$575,000	● Includes AWS expenditures through first quarter. These will be charged as Type 3 work for rest of year.
Mains - Replacements, Improvements, & Transmis	\$4,307,500	\$1,497,670	\$4,310,000	● YE Projection is approximate, EmX still affecting work.
Services and Meters	\$927,000	\$359,406	\$930,000	● Increased development may cause the reimbursable portion of these costs to exceed budget. Will track as the year progresses.
Pump Stations	\$751,000	\$185,419	\$750,000	● Includes new Shasta 1150 pump station and emergent work at Santa Clara. Limited resources are affecting schedule on Shasta 1150
Reservoirs	\$24,000	\$0	\$20,000	● Nothing significant planned for this year.

These categories will match the Capital Improvement Plans (CIPs) submitted by Water & Electric.

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Type 2 Rehabilitation & Expansion Projects

Project	2015			Project Total			Schedule			Status/Comments
	Budget	YTD Actual	Year-End Projection	Initial Plan	To-Date Actual	Project-End Projection	Start	Initial Planned Completion	Projected Completion	
Raw Water Intake Improvements	\$1,200,000	\$511,153	\$1,200,000	\$6,292,000	\$6,438,951	\$7,130,000	2011	YE-2013	Q1-2015	● Intake 1 Upgrades complete, Construction at Intake 2 near completion. Costs exceeded initial plan has seismic upgrades were added to scope. (Initial Plan - 2011 CIP)
Hayden Bridge Filter S1-S6 Upgrades	\$1,452,500	\$57,139	\$1,450,000	\$7,713,000	\$4,094,829	\$7,650,000	2011	YE-2017	YE-2016	● Upgrade of Filters N1-N6 Complete. Beginning design of upgrades of S1-S6 for const. in 2015-2016. (Initial Plan - 2011 CIP)
Hayden Bridge Seismic Upgrades	\$480,000	\$407,116	\$480,000	\$1,215,529	\$1,052,183	\$1,760,000	2014	YE-2015	YE-2018	● Phase 1 (Basins and Filters) is complete. Phase 2 (Headhouse) deferred to 2017-2018. Phase 1 costs more expensive than anticipated. (Initial Plan - 2013 CIP)
Distribution System Scada/PLC Upgrades	\$315,000	\$8,329	\$320,000	\$3,079,780	\$118,438	\$2,480,000	2013	YE-2016	YE-2019	● Multi-Year upgrade project. 2014 first significant year of work. Developed standard and completed upgrade of first pump station. Working on second station for upggrade and plan for two more in 2015. (Initial Plan 2013 CIP)
Willamette 800 Reservoir No.1 Replacement	\$632,531	\$2,391	\$630,000	\$1,639,760	\$129,241	\$1,790,000	2013	YE-2014	Q3-2015	● After evaluation, project changed from rehab to a replacement. Construction pushed back to 2015-2016. Currently in design. (Initial Plan 2013 CIP)
LTD EMX	\$2,600,000	\$302,140	\$2,600,000	\$0	\$1,331,002	\$3,630,000	2014	2015	Q3-2015	● EWEB has completed service and main work on 6th and 7th Aves. Will shift to W. 11th Ave soon.

Type 3 - Strategic Projects & Programs

Project	2015			Project Total			Schedule			Status/Comments
	Budget	YTD Actual	Year-End Projection	Initial Plan	To-Date Actual	Project-End Projection	Start	Initial Planned Completion	Projected Completion	
Alternative Water Supply	\$1,702,000	\$0	\$1,700,000	\$52,707,167	\$0	\$69,220,000	2014 with Planning	YE-2021	YE-2021	● Activites to date were minor and were tracked under Type 1 Work. This will changed in 2015 as work ramps up. Property costs added to projections for 2015. Cost projection will likely change in 2015 as estimates are futher refined.

Capital "EL-1" Report: Shared Services, 2015-Q1

Type 1 - General Capital

Capital Category	2015 - Q1			Status/Comments
	Budget (Includes April Amendments)	YTD Actual	Year-End Projection	
General Plant - Information Technology (I.T.)	\$1,947,300	\$24,650	\$0	● Areas of work for 2015 include network server & switch replacements, Hayden Bridge network upgrade completion, selective voice/communications upgrades, and electric monitoring & control system firewall replacements.
General Plant - Buildings & Land Management	\$1,726,519	\$3,479	\$0	● Major projects in 2015 include HQ renovation of the HVAC system.
General Plant - Fleet Capital	\$1,613,000	\$0	\$0	●

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Payment Interface (Energy Insight)	\$0	\$0	\$0	---	\$975,980	\$1,139,774	Jan-2011	---	End of Q1 2015	○ This enhancement, the payment interface module, is being cancelled. The Energy Insight (EI) program is designed to web-initiate, manage, track, and report activity associated with the investments and returns (including BPA cost recovery) of incentivized conservation programs. The intent was to link EI with customer/contractor payables and incentives. EI Payment Interface uses a SOA platform, and project continuation is on hold until WAM is complete. This project will be removed from the next report.
Metro Ethernet (Shared I.T. Infrastructure)	\$584,879	\$271,377	\$495,660	\$5,725,000	\$5,551,579	\$5,775,862	Apr-2012	Jul-2013	Dec-2014	● The Metro Ethernet project has been substantially completed for electric SCADA applications. Additional applications may be added in the future. This project will be removed from the next report.
WAM Implementation	\$750,000	\$230,991	\$750,000	\$9,264,919	\$7,481,134	\$7,964,362	Jun-2013	Jul-2015	Jul-2015	● Work Order and Asset Management and Mobile Work Management System is designed to provide real-time, utility-wide visibility into type, location and condition of our assets. This data will provide us the ability to forecast how and when to spend our capital and O&M funds. WAM went live on November 4, 2014. However, additional commissioning work ("punchlist items") is continuing in 2015. ○ A WAM business system stabilization effort has commenced for 2015 with the intention of improving adoption and implementation of WAM and related processes. A Board update is planned for August 2015.
Steam Plant De-Commissioning	\$0	\$0	\$0	\$1,250,000	\$1,494,662	\$592,459	Jan-2013	"2014"	Nov-2014	● The asbestos abatement and demolition for all of the boilers has been completed. Boilers No. 2 and 3 have been removed. "Historic" Boiler #1 remains at the steam plant. This project will be removed from the next report. (NEWCOMB/RUBEN)
AMI Information Technology & Integration	\$1,659,475	\$0	\$1,659,475	---	\$5,651	\$3,700,000	Jan-2008	Dec-2014	Dec-2017	● Forecast of \$3.7MM covers AMI "Initial Opt-In Phase" through 2017. Meter and MDM contracts were approved in March 2015. 2015 work includes construction of communications and data handling infrastructure. (ARMSTEAD)
River-Front Property Development	\$400,000	\$0	\$400,000	n/a	\$2,181,952	\$2,400,000	Feb-2006	n/a	Dec-2019	● UO Foundation has elected to withdraw from negotiations on the project.
Customer Information System (CIS) Replacement	\$1,640,000	\$0	\$1,640,000	\$5MM (Est.)	\$0					○ Details to be developed during 2015