

**READING MUNICIPAL
LIGHT DEPARTMENT**

**BOARD
OF
COMMISSIONERS**

REGULAR SESSION

MAY 14, 2015

**READING MUNICIPAL LIGHT DEPARTMENT
BOARD OF COMMISSIONERS MEETING**

230 Ash Street
Reading, MA 01867
May 14, 2015
6:30 p.m.

1. Call Meeting to Order
2. Opening Remarks
3. Introductions
4. Public Comment
 - RMLD Citizens' Advisory Board
 - Liaisons to RMLD Board
 - Public Comment
5. Review of RMLD's Fiscal Year 2016 Capital Budget (Attachment 1) ACTION ITEM
6. Report of the Chairman of the Board – Chairman Talbot ACTION ITEM
 - a. Broadband Study Committee
 - Suggested Motion:
Move that the RMLD Board of Commissioners suggests that a four-town Broadband Study Committee be formed, with input from RMLD Citizens' Advisory Board and the four Boards of Selectmen, to investigate potential municipal and school savings, economic development opportunities as well as other market needs that could be served by a RMLD Internet or telecom offering.

Note: About ten other municipal entities in Massachusetts already provide such services.
7. Reorganization of RMLD Board of Commissioners (Attachment 2) ACTION ITEM
8. Presentation ACTION ITEM
 - a. Organizational and Reliability Study Presentation
 - i. Steve Rupp, Vice President, Engineering Solutions, Leidos will present the Organizational Study results
 - ii. Ken McNeil, Operations Manager, Booth & Associates will present the Reliability Study results
9. Report of the Committee – Vice Chair Pacino (Attachment 3) ACTION ITEM
 - a. Policy Committee
 - i. RMLD's Surplus Material Policy 2, Revision 5
 - ii. RMLD's Procurement Policy 9, Revision 4
 - iii. Fiber Optic Update
Note: Presentation on RMLD's fiber will presented at RMLD Board meeting on May 28.

10. General Manager's Report – Ms. O'Brien – General Manager ACTION ITEM

- a. Report on RMLD's Surplus Property
- b. 2015 Northeast Public Power Association (NEPPA) Annual Conference August 23 to August 26, 2015
Mount Washington Resort, Bretton Woods, New Hampshire

Note: Per the General Manager's Agreement overnight travel is approved by the Board.

11. Power Supply Report – March 2015– Ms. Parenteau (Attachment 4)

12. Engineering and Operations Report – March 2015 – Mr. Jaffari (Attachment 5)

13. Financial Report – March 2015 – Mr. Fournier (Attachment 6)

14. MGL Chapter 30B Bid (Attachment 7) ACTION ITEM

- a. IFB 2015-24 for One (1) Digger Derrick with Trade-In
Suggested Motion:
Move that bid 2015-24 for one Digger Derrick be awarded to: James A. Kiley Co. for \$253,550.00 as the lowest, qualified and responsive bidder on the recommendation of the General Manager.

15. General Discussion ACTION ITEM

- a. Future of Climate Committee

BOARD MATERIAL AVAILABLE BUT NOT DISCUSSED

E-Mail responses to Account Payable/Payroll Questions

Rate Comparisons, March and April 2015

RMLD Board Meetings

Thursday, May 28, 2015

Thursday, June 25, 2015

Thursday, July 30, 2015

Policy Committee Meeting

Tuesday, June 2, 2015

CAB Meeting

Wednesday, May 20, 2015

16. Executive Session ACTION ITEM

Suggested Motion:

Move that the Board go into Executive Session based on Chapter 164 Section 47D Exemption from public records and open meeting requirements in certain instances and return to the Regular Session for the sole purpose of adjournment.

17. Adjournment ACTION ITEM

Suggested Motion:

Move to adjourn the Regular Session.

REVIEW OF RMLD'S
FISCAL YEAR 2016 CAPITAL BUDGET
ATTACHMENT 1

**READING MUNICIPAL LIGHT
DEPARTMENT**

***FY 2016
CAPITAL BUDGET***

MARCH 27, 2015

Coleen O'Brien
General Manager

FY16 CAPITAL BUDGET
TABLE OF CONTENTS

Planned ProgramsPage 1

Facilities ManagementPage 4

Integrated ResourcesPage 28

Management Information Systems (MIS).....Page 36

SystemPage 48

**Reading Municipal Light Department
SYSTEM PROFILE
(based on CY 2014)**

SERVICE TERRITORY	51 square miles serving Reading, North Reading, Wilmington and part of Lynnfield
TOTAL OPERATING REVENUES	\$88,216,289
NUMBER OF CUSTOMERS	29,661
ANNUAL PEAK LOAD	157,252 kW on July 2, 2014
ANNUAL SALES	682,401,652 kWh
PLANT VALUE	\$130,149,514 (Gross) \$69,697,353 (Net)
SUPPLY VOLTAGE	115 kV
SUPPLY CAPACITY	<p>Station 4:</p> <p>(3) 60 MVA Transformers (2) 35 MVA Transformers 250 MVA Connected, 190 MVA Firm</p> <p>Station 3:</p> <p>(2) 60 MVA Transformers 120 MVA Connected, 60 MVA Firm</p>
DISTRIBUTION SYSTEM VOLTAGE	13,800 volt wye 4,160 volt wye
OVERHEAD PRIMARY LINES	All 335 miles
UNDERGROUND PRIMARY LINES	All 135 miles
DISTRIBUTION TRANSFORMERS	3,980 – 271.2 MVA Capacity
DISTRIBUTION SUBSTATIONS	(3) 370 MVA Capacity
UTILITY POLES	<p>17,225 poles Ownership: 65% Verizon, 35% RMLD</p> <p>Ownership By Town:</p> <p>North Reading – RMLD Lynnfield – Verizon Reading</p> <ul style="list-style-type: none"> • east of Main Street – Verizon • west of Main Street, east of West Street, south of Prescott Street – Verizon • west of West Street – RMLD • west of Main Street, north of Prescott Street – RMLD <p>Wilmington</p> <ul style="list-style-type: none"> • all poles with 35 kV sub-transmission circuits, and Concord Street – RMLD • all other locations in Wilmington – Verizon
APPLICATION SOFTWARE	
Billing and Accounting	Great Plains/Cogsdale
General PC	Windows 2012, 2008, SQL, Office 2013, 2008, 2012 Exchange 2010, Windows 7, 8, 8.1 Sharepoint Itron
FORECASTING	Metrix ND (Daily Forecasting – Energy Services)
ENGINEERING ANALYSIS	Milsoft (in process)

READING MUNICIPAL LIGHT DEPARTMENT
Capital Improvements FY15-20
\$ Shown in thousands

COMPLETED

	TOWN	PG #	PROJECT #	PROJECT NAME	FY15 Budget	FY15 YTD Actual thru 2/2015	FY15 EST.	FY16 PLAN EST.	FY17	FY18	FY19	FY20	BRIEF DESCRIPTION
F	A	8	121	HVAC System Upgrade - 230 Ash Street	399	11	73	600	500	100			Replace boilers, chillers, air handling units, and building automation systems addressing air filtration and efficiency.
F	A	10	129	Master Facilities Site Plan	50			150					Study will include consideration of solar generation on-site and best use of all facilities, including leased Barbas building.
F	A	n/a	124	Rehabilitation of Station 1 - 226 Ash Street									Proceed based on findings of Master Facilities Site Plan. Offset by potential sale of 230 Ash.
F	A	12	123	Oil Containment Facility Construction	80	11	48	59					Comprehensive study complete. Recommendations to be implemented.
F	A	14	119	Security Upgrades All Sites	61	17	61	50					Access control, alarm monitoring, video and perimeter monitoring along the fence lines.
F		18	TBD	230 Ash Street Building Repairs				80					Engineering study and repairs to building to address brick veneer at rear of building and insulation on exterior wall at the front of the building.
F	R	20	TBD	Station 4 (Gaw) Back-up Generator				107					Purchase and install an emergency generator for Gaw Station 4.
F		22	TBD	HVAC Roof Units for Garage				50					Will evaluate under Master Facilities Site Plan.
F	A	26	118	Rolling Stock Replacement (vehicles, trailers fork trucks)	434		25	448	431	523	560	580	Scheduled vehicle replacement. Fleet assessment being performed.
R		32	TBD	IRD - Hardware				10					Equipment used to measure and verify commercial rebates for energy efficiency upgrades.
R		34	TBD	Electric Vehicle Supply Equipment				50					Pilot electric charging stations within RMLD service area.
M	A	40	120	Great Plains/Cogsdale Update	350	39	80	127					Data conversion and upgrade to including software, hardware, training, consulting, and project management.
M	A	44	127	Hardware Upgrades	102	28	102	152	122	122	200	100	General hardware purchases, wireless mesh build-out, VoIP
M	A	46	128	Software and Licensing	122	28	122	172	146	146	146	150	Custom programming/development (OM/UAN/GIS/GPS), SpyPoint SSRS software.
S	W	52	101	5W9 Reconductoring - Ballardvale Area, Wilmington	253	12	373	100					Upgrade to 795 spacer for capacity feeding Ballardvale area (Target).
S	L	54	104	Upgrading of Old Lynnfield Center URDS (Cook's Farm)	217	56	368	42					Upgrade for reliability and to meet construction standards. 90% complete in FY15.
S	R	56	108	Relay Replacement -Station 4 (Gaw)	50		50	73					Replace existing electromechanical protective relay systems on the 15kV feeder breakers. The new relays will be capable of providing more information back to SCADA and store vast amounts of data for down loading and evaluation.
S	NR	58	130	Remote Terminal Unit (RTU) Replacement - Station 3	85			94					Upgrade to add functionality of the existing SEL relays. RTU will be IP addressable and will include Ethernet connection for RMLD and NSTAR connection.
S	A	60	122	Engineering Analysis Software & Data Conversion	55			73					Milsoft Engineering modeling integration with GIS.
S	A	62	125	GIS	150		30	420					Current GIS model requires data integrity and quality inspection. Comprehensive data collection.
S	R	64	212	Force Account West Street, Reading	224		74	150					Reconstruction of West Street, R. (State project). April 2015 estimated start date. Partial state reimbursement (capital/expense).
S	W	66	102	Pole Line Upgrade - Lowell Street, Wilmington	173	61	170	113					Upgrade (30) poles to proper strength, create proper clearance between utilities and transfer. Set two (2) new poles. Benefit to long-term reliability. Expanded scope to include West Street and Woburn Street.
S	A	68	103	Distribution Protection & Automation	69		70	70	130	130	130	130	Install reclosers on feeders for fault isolation and installing capacitor controls for various cap banks on the system.
S	A	70	131	LED Street Light Implementation - All Towns				1,200	1,200	1,200			Full implementation following Pilot Program.
S	A	72	134	Substation Test Equipment	121		105	100	30				Purchase of test equipment for substation and metering.
S	R	74	109	Station 4 (Gaw) 35kv Potential Transformer Replacement				41					Replace six 30+ -years-old transformers.
S	W	78	TBD	Pole Line Upgrade - Woburn Street, Wilmington				91					Upgrade sixteen (16) main line poles and four (4) stub poles to proper strength, create proper clearance between utilities and transfer. Benefit to long-term reliability
S	A	80	TBD	Substation Equipment Upgrade				254					Upgrade various equipment at substations to include TLC controls, remote racking devices, cable trays and various minor items.
S	R	82	TBD	Station 4: Switchgear/Breaker Replacement				508	508				Replace existing switchgears/breakers.
S	R	84	TBD	Station 4: Battery Bank Upgrade				57					Replace battery bank.
S	A	86	TBD	Distributed Generation				2,164	2,000	2,000	2,000	2,000	Pilot FY16 - Peak shaving units.
S	A	88	TBD	Fiber Optic Test Equipment				15					Fiber optic testing equipment to locate and diagnose problems on network.
S	A	90	TBD	Fault Indicators				50					Fault indicators to aid in fault locating.
S	A	92	TBD	Voltage Data Recorders				50					Voltage data recorders to aid in voltage complaint investigation and survey.
S	A	96	116	Transformers and Capacitors	444	145	444	668	300	300	300	300	Purchase of units for stock and proposed projects.

READING MUNICIPAL LIGHT DEPARTMENT
Capital Improvements FY15-20
\$ Shown in thousands

COMPLETED

	TOWN	PG #	PROJECT #	PROJECT NAME	FY15 Budget	FY15 YTD Actual thru 2/2015	FY15 EST.	FY16 PLAN EST.	FY17	FY18	FY19	FY20	BRIEF DESCRIPTION
S	A	98	126	Communication Equipment (Fiber Optic)	30	5	80	98	50	50	50	50	Materials to accommodate expanded use of fiber optic network.
S	A	100	117	Meters (including "500 Club")	127	55	155	219					Purchase meters for stock. 500 club meter upgrade.
S	A	102	106	URD Upgrades - All Towns	319	51	120	340	213	213	213	213	Replace primary and neutral cables and padmount transformers as needed in various aging URDs. Improved reliability.
S	A	104	107	Step-down Area Upgrades - All Towns	203	40	120	352	150	150	250	150	Convert areas to 13.8kV, remove antiquated equipment and step-downs to lower losses and improve system efficiency.
S	A	106	112	New Service Installations (Commercial/Industrial)	57	12	40	34	50	50	50	50	Install new and upgraded commercial three-phase electrical services as requested.
S	A	106	113	New Service Installations (Residential)	260	93	120	164	250	250	250	250	Install new and upgraded residential services as requested.
S	A	110	114	Routine Construction	947	1,234	1,600	1,000	1,000	1,000	1,000	1,000	Non-project capital including labor, pole sets, transfers, UG, police details, and OT.
S	A		131	LED Street Light Pilot Area - All Towns	37	26	30						Pilot to be done in FY15. Grant received \$125,000 toward Street Light Conversion/Implementation.
S	NR		110	Station 3 - Replacement of Service Cutouts		2	2						Replace potted porcelain cutouts which are prone to failure.
S	W		115	Station 5 - Getaway Replacements 5W9 and 5W10									Underground cables are original to substation (early 1980's). Upgrade feeders for load and reliability reasons, and create a spare feeder on Bus E. 5W9 completed as part of overhead project; 5W10 not being done.
S	R		105	4W5-4W6 Tie	70		95						Install 1,500' of circuit 556 spacer in order to shift distribution load feeding Addison Wesley and South Main St and complete extension to Summer Avenue.
S	A		132	Outage Management Software & Integration	85		85						
S	A		133	Predictive Asset Management Program	80		5						Asset management system to track distribution and substation assets in a preventative manner. Manager Plus is being evaluated.
S	A		135	Arc Flash Study	35		30						
S	A		136	Organizational/Reliability Study	100		261						
S	A		137	SCADA System Upgrades - Hardware	63	20	63						Upgrade Survalent system to a new version supporting new technology.
S	W		810	Station 5 RTU Replacement			56						Purchase pre-wired RTU enclosure to replace exiting RTU enclosure which is unsupported and does not have enough points.
S	W		TBD	Station 5 - Getaway Replacements, 5W4, 5W5, 5W8					250				
S	R		TBD	4W9 Getaway Replacement - Station 4					239				Upgrade 2,850 circuit feet of UG cable on Causeway Road and Lowell Street, R, with 750 mcm cu for increased reliability and capacity.
S	R		TBD	4W4 Getaway Replacement - Station 4						341			Upgrade 3,700 circuit feet of UG cable on West Street, R and West St, W to 750 mcm cu for increased reliability and capacity.
S	W		TBD	5W5 Reconductoring - Wildwood to Upton Drive						214	214	214	Upgrade 25,000 circuit feet of 336 spacer cable on Wildwood, Woburn, and Andover Streets to 795 spacer cable.
S	W		TBD	Build New Substation in Wilmington						600	2,500	3,000	Planning and securing land and licensing will begin in FY18.
S	R		TBD	4W5 Getaway Replacement - Station 4							234		Upgrade 1,700 circuit feet of UG cable on West Street, R to 750 mcm cu for increased reliability and capacity.
S	R		TBD	4W6 Getaway Replacement - Station 4							243	243	Upgrade 1,850 circuit feet of UG cable on West Street, R to 750 mcm cu for increased reliability and capacity.

READING MUNICIPAL LIGHT DEPARTMENT
Capital Improvements FY15-20
\$ Shown in thousands

COMPLETED

TOWN	PG #	PROJECT #	PROJECT NAME	FY15 Budget	FY15 YTD Actual thru 2/2015	FY15 EST.	FY16 PLAN EST.	FY17	FY18	FY19	FY20	BRIEF DESCRIPTION
TOTAL				5,850	1,949	5,056	10,596	7,569	7,388	8,340	8,430	
TABLE 1: PLANT VALUES & DEPRECIATION EXPENSE												
			Plant in Service (Beginning)	129,981		129,981	134,038	143,634	150,203	156,591	163,932	
			Additions	5,850		5,056	10,596	7,569	7,388	8,340	8,430	
			Adjustments (Property Retirement)	-1,300		-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	
			Plant in Service (Ending)	134,531		134,038	143,634	150,203	156,591	163,932	171,362	
			Less Land and Land Rghts	-1,266		-1,266	-1,266	-1,266	-1,266	-1,266	-1,266	
			Depreciable Plant in Service	133,265		132,772	142,368	148,937	155,325	162,666	170,096	
			Accumulated Reserve For Depreciat on	-64,700		-64,711	-68,694	-72,965	-77,433	-82,093	-86,973	
			Net Plant in Service	69,831		69,327	74,940	77,238	79,158	81,839	84,389	
			Maximum allowed Return on Net Plant (%)	8%		8%	8%	8%	8%	8%	8%	
			Maximum allowed Return on Net Plant (\$)	5,586		5,546	5,995	6,179	6,333	6,547	6,751	
			Estimated Return on Net Plant (%)	5.9%		5.9%	5.2%	4.2%	7.1%	6.5%	6.5%	
			Estimated Return on Net Plant (\$)	4,120		4,090	3,897	3,244	5,620	5,320	5,485	
TABLE 2: DEPRECIATION FUND BALANCES												
			Beginning Balance	5,130		5,130	5,015	3,073	4,006	5,926	7,805	
			Interest Earned*	51		51	50	31	40	59	78	
			Depreciation Rate (3-5%)	3.0%		3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	
			Depreciation Expense	3,861		3,872	3,983	4,271	4,468	4,660	4,880	
			Bond Proceeds and Other Fund Sources	18		18	257	3,200	3,800	4,500	5,000	
			Prior Year Adjustment	1,000		1,000	4,364	1,000	1,000	1,000	1,000	
				10,061		10,072	13,669	11,575	13,314	16,145	18,763	
			Capital Improvements	-5,850		-5,056	-10,596	-7,569	-7,388	-8,340	-8,430	
			Principal Payment									
			Ending Balance	4,211		5,015	3,073	4,006	5,926	7,805	10,333	
			* Interest Rate on Fund Balances	1.00%		1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	
TABLE 3: BOND PROCEEDS & OTHER FUND SOURCES												
			Mass DOT (Highway): West Street	224		74	150					
			DOER - ENE Grant (LED Credit)	18		18	107					
			Bond Proceeds for LED Street Lights					1,200	1,200			
			Bond Proceeds for Distributed Generation					2,000	2,000	2,000	2,000	
			Bond Proceeds for New Substation - Wilmington				0	0	600	2,500	3,000	
				241	0	91	257	3,200	3,800	4,500	5,000	

FACILITIES MANAGEMENT

Continuing Projects:

	Page #	Project #
⌘ HVAC System Upgrade	8	121
⌘ Master Facilities Site Plan	10	129
Rehabilitation of Station 1 – Pending Master Facilities Site Plan		124
⌘ Oil Containment Facility Construction	12	123
⌘ Security Upgrades – All Sites	14	119

New Projects for FY16:

⌘ 230 Ash Street Building Repairs	18	TBD
⌘ Station 4 (Gaw) Back-up Generator	20	TBD
⌘ HVAC Roof Units – Garage	22	TBD

Annual Projects:

⌘ Rolling Inventory	26	118
---------------------	----	-----

FACILITIES MANAGEMENT

CONTINUING PROJECTS

CAPITAL PROJECT SUMMARY

Project Name: HVAC System Upgrade – 230 Ash Street **Project #:** 121

Project Schedule: FY15-18 **Project Manager:** Facilities Manager

Reason for Expenditure:

Upgrade the HVAC system at 230 Ash Street.

Brief Description/Scope:

FY15: Professional Services including study/report phase, construction documents and bid/construction.

FY16: Replace the HW boiler plant with condensing boilers. Replace DDC Control System. Replace VAV terminal box controllers. Replace AHU-3 as an indoor unit with split system DX condensing unit on the roof.

FY17: Replace AHU-1 and AHU-2 as an indoor unit with split system DX condensing units on the roof.

FY18: Enhance fin-tube radiation for higher output and to compensate for lower HW temperatures. Enhance heating of the front lobby. Reconfigure ductwork serving the receiving area roll-up dock.

Barriers:

Change in Scope of Work From Prior Fiscal Year:

Status Update:

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: HVAC System Upgrade - 230 Ash Street

SCHEDULE: FY15-18

PROJECT #: 121

ITEM	CREW WEEKS 2-man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC.	TOTAL
Multi-year upgrade to HVAC system						\$1,273,000	\$1,273,000
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost						
TOTAL						\$1,273,000	

TOTAL ESTIMATED PROJECT COST: \$1,273,000

FY15	6% Estimate	\$73,000
FY16	47% Estimate	\$600,000
FY17	39% Estimate	\$500,000
FY18	8% Estimate	\$100,000

CAPITAL PROJECT SUMMARY

Project Name: Master Facilities Site Plan **Project #:** 129

Project Schedule: FY16 **Project Manager:** Facilities Manager

Reason for Expenditure:

The Master Facilities Site Plan will begin in FY16, finalizing options and creating bid documents to begin addressing building use and storage allocation requirements. The final plan will also include the photovoltaic recommendations as part of the Facilities Master Plan.

Brief Description/Scope:

Complete assessment of the office space, Station 1, garage and leased warehouse space. Finalize recommendations and create a long- term strategic plan based on current and future needs working collaboratively with other Town agencies.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

None.

Status Update:

This project was postponed pending the outcome of the Organizational Study.

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Master Facilities Site Plan

SCHEDULE: FY16

PROJECT #: 129

ITEM	CREW WEEKS 2-man	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
Hire consultant to perform master site plan for Ash Street campus.						\$138,000	\$138,000
Unit Cost							
Facilities Department Labor:				\$12,459			\$12,459
4.5 week (s)				\$2,769		per week	
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
TOTAL				\$12,459		\$138,000	

TOTAL ESTIMATED PROJECT COST: \$150,459

CAPITAL PROJECT SUMMARY

Project Name: Oil Containment Facility Construction **Project #:** 123

Project Schedule: FY15-16 **Project Manager:** Facilities Manager

Reason for Expenditure:

RMLD stores new and used oil filled equipment in multiple locations. Necessary measures will be taken related to storage of this equipment at RMLD facilities.

Brief Description/Scope:

This project provides engineering, design and construction services at a number of RMLD facilities where equipment is stored.

Barriers:

Engineering, design and permitting.

Change in Scope of Work From Prior Fiscal Year:

All Substations were reviewed as part of the study. Work will be completed at Stations 3, 4 and 5 in addition to the Ash Street Campus.

Status Update:

Study was completed and recommendations made. We expect to begin construction at sites as per the recommendations and complete work by the end of FY16.

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Oil Containment Facility Construction

SCHEDULE: FY15-16

PROJECT #: 123

ITEM	CREW WEEKS 2-man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC.	TOTAL
Conduct a study and take temporary measures for the containment of oil filled equipment at the Ash Street Campus and Station 3.						\$15,000	\$15,000
Unit Cost							
Improvements to Station 3 and oversight of construction.	1.0	\$5,828	\$920			\$48,121	\$54,868
Unit Cost \$5,828 \$920 per week							
Improvements to Station 4 and oversight of construction. Labor: Senior Tecns (2-man crew) 0.5 week(s)				\$2,712	\$18	\$13,043	\$15,774
Unit Cost \$5,425 \$36 per week							
Improvements to Station 5 and oversight of construction. Labor: Senior Tecns (2-man crew) 1.5 week(s)				\$8,137.36	\$54	\$13,469	\$21,660
Unit Cost \$5,425 \$36 per week							
TOTAL	1.0	\$5,828	\$920	\$10,850	\$72	\$89,633	

ESTIMATED TOTAL PROJECT COST: \$107,302

FY15	45%	Estimate	\$48,434
FY16	55%	Estimate	\$58,868

CAPITAL PROJECT SUMMARY

Project Name: Security Upgrades – All Sites **Project #:** 119

Project Schedule: FY15-16 **Project Manager:** Facilities Manager

Reason for Expenditure:

Security enhancements at our substations and other owned and leased facilities.

Brief Description/Scope:

Scope of work includes upgrades and modification of our cameras, access control points, entry point alarms, and perimeter fencing.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

None.

Status Update:

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Security Upgrades - All Sites SCHEDULE: FY15-16
 PROJECT #: 119

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Upgrades and modifications to cameras, access control points, entry point arms and perimeter fencing				\$11,075		\$50,000	\$61,075
4 weeks Facilities Labor	Unit Cost			\$2,769		per week	
Gate upgrades pending master facilities site plan						\$50,000	\$50,000
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							

TOTAL \$11,075 \$100,000

TOTAL ESTIMATED PROJECT COST: \$111,075

FY15	55% Estimate	\$61,091
FY16	45% Estimate	\$49,984

FACILITIES MANAGEMENT

NEW PROJECTS

CAPITAL PROJECT SUMMARY

Project Name: 230 Ash Street Building Repairs **Project #:** TBD

Project Schedule: FY16 **Project Manager:** Facilities Manager

Reason for Expenditure:

The deck is a means of egress for three doorways: two single doors exiting the cafeteria and a set of double doors leading from the main corridor. The deck was constructed in 1993 and has served us well. However, due to weather and age, it has deteriorated to the point that it needs to be replaced.

Additionally, the exterior walls above the hung ceiling and the vestibule ceiling at the main entrance need insulation upgrades and to be resealed.

Brief Description/Scope:

Deck: replace/repair deck and related equipment per architectural consultant's specifications.

Main Entrance: insulate and seal exterior wall and vestibule ceiling per architectural consultant's specifications.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: 230 Ash Street Building Repairs

SCHEDULE: FY16

PROJECT #: TBD

ITEM	CREW WEEKS	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL	
Replace/repair deck and related equipment per architectural consultant specifications.						\$60,000	\$60,000	
	Unit Cost						\$60,000	
Insulate and seal exterior wall in lobby per architectural consultant specifications						\$20,000	\$20,000	
	Unit Cost						\$20,000	
	Unit Cost							
	Unit Cost							
	Unit Cost							

TOTAL \$80,000

TOTAL ESTIMATED PROJECT COST: \$80,000

CAPITAL PROJECT SUMMARY

Project Name: Station 4 (Gaw) Back-up Generator **Project #:** TBD

Project Schedule: FY16 **Project Manager:** Facilities Manager

Reason for Expenditure:

Station 4 (Gaw) does not have a standby generator. This is standard item for a substation of this size and is necessary as a safeguard against outages at the Station.

Brief Description/Scope:

Purchase and install a generator with automatic transfer switches. Project would include concrete foundation, base-mount fuel tank, switches, installation and all associated wiring and hardware.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Station 4 (Gaw) Back-up Generator

SCHEDULE: FY16

PROJECT #: TBD

ITEM	CREW WEEKS 2-man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Purchase and install a standby generator for the Gaw Substation				\$8,306		\$95,000	\$103,306
Labor:							
3 weeks Facilities Labor				\$2,769		per week	
Labor:							
Technical Services Manager				\$3,763	\$18		\$3,781
1 week(s)				\$3,763	\$18	per week	
TOTAL				\$12,069	\$18	\$95,000	\$107,087

CAPITAL PROJECT SUMMARY

Project Name: HVAC Roof Units - Garage

Project #: TBD

Project Schedule: FY16

Project Manager: Facilities Manager

Reason for Expenditure:

The garage (at 218 Ash Street) has four, through-the-wall electric heat/air conditioning units and two small wall-mount space heaters to service five rooms. They are near the end of their expected life and run constantly to keep up with heat demands. The four units with AC have had multiple repairs and run constantly to keep up with the cooling requirements.

Brief Description/Scope:

Install HVAC equipment and duct work, per engineering evaluation and recommendations, to heat and cool five rooms in the garage.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: HVAC Roof Units - Garage

SCHEDULE: FY16

PROJECT #: TBD

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Install HVAC equipment and ductwork to heat and cool five rooms at 218 Ash Street (Garage)						\$50,000	\$50,000
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							

TOTAL \$50,000

TOTAL ESTIMATED PROJECT COST: \$50,000

FACILITIES MANAGEMENT

ANNUAL PROJECTS

CAPITAL PROJECT SUMMARY

Project Name: Rolling Stock Replacement
(vehicles, trailers and fork trucks)

Project #: 118

Project Schedule: Annual

Project Manager: Facilities Manager

Reason for Expenditure:

Replace vehicles based on an 8-10 year cycle to reduce maintenance costs and improve reliability. Vehicles removed from the fleet will be disposed of under RMLD Policy No. 2 "Surplus Material."

Brief Description/Scope:

In FY16, two (2) new vehicles (Box Truck and Digger Derrick), which will be bid in FY15, will be received. Additionally, we will purchase a new forklift and spreader.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year: Increase (Decrease)

n/a

Status Update:

Specifications, bid, and purchase order will be complete for both the Box Truck and Digger Derrick, which will have an FY16 delivery. Scheduled purchase of two small SUV's was postponed pending outcome of a comprehensive fleet study.

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Rolling Stock Replacement

SCHEDULE: FY16

PROJECT #: 118

ITEM	CREW WEEKS	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
Box Truck - scheduled to be received in FY16.						\$155,000	\$155,000
	Unit Cost \$155,000 per vehicle						
45 Digger Derrick - scheduled to be received in FY16.						\$250,000	\$250,000
	Unit Cost \$250,000 per vehicle						
Purchase and receive one Fork Lift						\$35,000	\$35,000
	Unit Cost \$35,000 per vehicle						
Purchase and receive one Spreader (sand and salt)						\$8,000	\$8,000
	Unit Cost \$8,000 per vehicle						
	Unit Cost						
Police Details (if applicable)							
	Unit Cost						
TOTAL						\$448,000	

TOTAL ESTIMATED PROJECT COST: \$448,000

INTEGRATED RESOURCES



Continuing Projects:

None

Page #

Project #

New Projects for FY16:

⌘	IRD Hardware	32	TBD
⌘	Electric Vehicle Supply Equipment (EVSE)	34	TBD

Annual Projects:

None

INTEGRATED RESOURCES

NEW PROJECTS

CAPITAL PROJECT SUMMARY

Project Name: IRD Hardware

Project #: TBD

Project Schedule: FY16

Project Manager: Jane Parenteau, Director of
Integrated Resources

Reason for Expenditure:

This is an amount reserved to purchase equipment used to measure and verify commercial rebates for energy efficiency upgrades.

Brief Description/Scope:

Some potential equipment includes lighting meters, data loggers, digital multi-meters, and infrared camera.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: IRD - Hardware SCHEDULE: FY16
 PROJECT #: TBD

ITEM	CREW WEEKS	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
General hardware purchase for efficiency measurement and verification.						\$10,000	\$10,000
		Unit Cost					
							\$0
		Unit Cost					
							\$0
		Unit Cost					
							\$0
		Unit Cost					
							\$0
		Unit Cost					

TOTAL 0.0 0 \$0 \$0 \$0 \$10,000

TOTAL ESTIMATED PROJECT COST: \$10,000

CAPITAL PROJECT SUMMARY

Project Name: Electric Vehicle Supply Equipment (EVSE) **Project #:** TBD

Project Schedule: FY16 **Project Manager:** Jane Parenteau, Director of Integrated Resources

Reason for Expenditure:

RMLD installed three EVSE's in FY15 and anticipates further demand in FY16.

Brief Description/Scope:

Each EVSE is a dual charger. This will increase RMLD's kWh sales.

Barriers:

Based on customer requests and the increasing use of electric vehicles.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Electric Vehicle Supply Equipment (EVSE) SCHEDULE: FY16

PROJECT #: TBD

ITEM	CREW WEEKS	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Purchase five (5) EVSE for installation on RMLD service territory.						\$50,000	\$50,000
		Unit Cost					\$10,000 each
							\$0
		Unit Cost					
							\$0
		Unit Cost					
							\$0
		Unit Cost					
							\$0
		Unit Cost					

TOTAL 0.0 0 \$0 \$0 \$0 \$50,000

TOTAL ESTIMATED PROJECT COST: \$50,000

MIS

Continuing Projects:

	<i>Page #</i>	<i>Project #</i>
⌘ Great Plains/Cogsdale Update	40	120

New Projects for FY16:

None

Annual Projects:

⌘ Hardware Upgrades	44	127
⌘ Software Upgrades	46	128

MIS

CONTINUING PROJECTS

CAPITAL PROJECT SUMMARY

Project Name: Great Plains/Cogsdale Upgrade **Project #:** 120

Project Schedule: FY15-16 **Project Manager:** Mark Uvanni, MIS Manager

Reason for Expenditure:

We are currently using Great Plains/Cogsdale Version 10 as our financial management and customer service management (CSM) software. Version 10 will no longer be supported by the end of 2014 (calendar) or shortly thereafter. We will be doing a 'data conversion' upgrade to Great Plains/Cogsdale 2013. The costs include software, hardware, training, consulting, custom programming and project management. System will provide new work order system capability and integration with Engineering and customer data-bases for improved customer service and system reliability.

Brief Description/Scope:

Upgrade will be a 'data conversion' update to Version 2013 (most current stable build). It will update current CSM and financial systems to the newest version. Project will encompass software, hardware, consulting (CDM), training, custom programming, and project management (RMLD and CDM)

Barriers:

Successful interfacing of various adjunct systems.

Change in Scope of Work From Prior Fiscal Year:

Status Update:

The "go live" date is set for August 1, 2015. We still have to solve a few issues; mainly the USPS Smart Bar Code on bills to eliminate having to send a data file to our mailer. We also have to decide, what if any, new processes we will introduce based on the Business Process Review. Overall we seem to be in good shape and the testing is going well. We will continue to test with periodic data refreshes.

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Great Plains/Cogsdale Upgrade

SCHEDULE: FY15-16

PROJECT #: 120

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC.	TOTAL
Great Plains/Cogsdale Update to 2013						\$100,000	\$100,000
	Unit Cost						
CDM Project Management and Consulting - GP/Cogsdale Update						\$55,000	\$55,000
	Unit Cost						
Network/System Administration				\$52,219			\$52,219
17 week(s)	Unit Cost			\$3,072		per week	
	Unit Cost						
	Unit Cost						
	Unit Cost						

TOTAL \$52,219 \$155,000

TOTAL ESTIMATED PROJECT COST: \$207,219

FY15	39%	Estimate	\$80,000
FY16	61%	Estimate	\$127,219

MIS

ANNUAL PROJECTS

CAPITAL PROJECT SUMMARY

Project Name: Hardware Upgrades

Project #: 127

Project Schedule: Annual

Project Manager: Mark Uvanni, MIS Manager

Reason for Expenditure:

This is an amount annually reserved for failed and/or obsolete computer and related equipment. This budget item is also used for unforeseen purchases, which may be necessary.

Brief Description/Scope:

General hardware purchases plus the following specific projects.

- General Hardware Purchases
- Wireless Mesh Build-Out
- Convert Digital Phones to VoIP

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Hardware Upgrades SCHEDULE: FY16
 PROJECT #: 127

ITEM	CREW WEEKS	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
a) General hardware purchases				\$7,065		\$40,000	\$47,065
2.30 weeks Network/System Administration				\$3,072		per week	
b) Commence build-out of wireless mesh						\$40,000	\$40,000
c) Convert digital phones to VOIP						\$65,000	\$65,000

TOTAL \$7,065 \$145,000

TOTAL ESTIMATED PROJECT COST: \$152,065

CAPITAL PROJECT SUMMARY

Project Name: Software and Licensing

Project #: 128

Project Schedule: Annual

Project Manager: Mark Uvanni, MIS Manager

Reason for Expenditure:

Each year RMLD must renew existing software licenses and purchase new software, either to update existing users or for new users. Additionally, new software may be added at the request of various operating units. This item includes these ad hoc purchases as well as more specific items (outlined below) which are anticipated at this time.

Brief Description/Scope:

In addition to the standard software and licensing purchases described above, we anticipated the following:

- Custom programming/development for OM/UAN/GIS/GPS
- Ad-hoc software purchases
- SpryPoint SSRS Software

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Software and Licensing

SCHEDULE: FY16

PROJECT #: 128

ITEM	CREW WEEKS	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
a) General software purchases 2.00 week(s) Network/System Administration				\$6,143		\$30,000	\$36,143
	Unit Cost			\$3,072		per week	
b) SpryPoint SSRS Software 0.75 week(s) Network/System Administration				\$2,304		\$14,000	\$16,304
	Unit Cost			\$3,072			
c) Custom programming/development OM/UAN/GIS/CPS						\$120,000	\$120,000
	Unit Cost					per week	
	Unit Cost						
	Unit Cost						

TOTAL \$8,447 \$164,000

TOTAL ESTIMATED PROJECT COST: \$172,447

SYSTEM

Continuing Projects Update:

	Page #	Project #
⌘ 5W9 OH Reconductoring – Ballardvale Area, Wilmington	52	101
⌘ Upgrade Old Lynnfield Center URDs (Cook’s Farm)	54	104
⌘ Relay Replacement – Station 4	56	108
⌘ Remote Terminal Unit (RTU) Replacement - Station 3	58	130
⌘ Engineering Analysis Software and Data Conversion	60	122
⌘ GIS	62	125
⌘ Force Account (Mass DOT) West Street, Reading	64	212
⌘ Pole Line Upgrade – Lowell Street, Wilmington	66	102
⌘ Distribution Protection & Automation	68	103
⌘ LED Street Light Implementation – All Towns	70	131
⌘ Substation Test Equipment	72	134
⌘ Station 4 (Gaw) 35 kV Potential Transformers Replacement	74	109

New Projects for FY16:

⌘ Pole Line Upgrade – West Street, Wilmington	78	TBD
⌘ Substation Equipment Upgrade	80	TBD
⌘ Station 4: Switchgear/Breaker Replacement	82	TBD
⌘ Station 4: Battery Bank Upgrade	84	TBD
⌘ Distributed Generation	86	TBD
⌘ Fiber Optic Equipment	88	TBD
⌘ Fault Indicators	90	TBD
⌘ Voltage Data Recorders	92	TBD

Annual Projects:

⌘ Transformers and Capacitors	96	116
⌘ Communication Equipment (Fiber Optic)	98	126
⌘ Meters	100	117
⌘ URD Upgrades – All Towns	102	106
⌘ Step-down Area Upgrades – All Towns	104	107
⌘ New Service Installations	106	
Commercial/Industrial		112
Residential		113
⌘ Routine Construction	110	114

SYSTEM

CONTINUING PROJECTS

CAPITAL PROJECT SUMMARY

Project Name: 5W9 Reconductoring – Ballardvale Area, W **Project #:** 101

Project Schedule: FY14-16 **Project Manager:** Peter Price, Chief Engineer

Reason for Expenditure:

5W9 is a 336-spacer cable circuit that feeds Ballardvale Street and Research Drive in Wilmington. This feeder construction dates back to the 1980s. This circuit has seen heavy loading during the summer peaks and is experiencing load growth. This load growth includes the new Target Store and associated retail mall as well as some proposed projects on Research Drive. The project will add to the long-term reliability of the area and contingency planning by increasing the feeder capacity.

Brief Description/Scope:

Reconductor existing 336-spacer cable with 795-spacer cable, upgrade brackets as needed, and re-use existing messenger cable.

Barriers:

This is a Verizon set area. Also, we will need a flagman to reconductor over the railroad tracks on Middlesex Avenue in North Wilmington.

Change in Scope of Work from Prior Fiscal Year:

n/a

Status Update:

It is expected that 84% of this project will be completed by the end of FY15.

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: 5W9 Reconductoring - Ballardvale Area, W.

SCHEDULE: FY14-16

PROJECT #: 101

ITEM	CREW WEEKS <small>2-man</small>	CREW LABOR COSTS	CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC.	TOTAL
Install 63,000 feet of 795 spacer cable and 7,000 feet of 0.052 messenger	40.2	\$234,269	\$36,984			\$168,458	\$439,711
Unit Cost		\$5,828	\$920			per week	
Reframe approximately 100 poles with new brackets, miscellaneous sleeves, hardware and connectors	11.0	\$64,104	\$10,120			\$20,000	\$94,224
Unit Cost		\$5,828	\$920			per week	
Install (1) 900 amp gang operated switch	0.8	\$4,662	\$736			\$2,510	\$7,908
Unit Cost		\$5,828	\$920			per week	
Miscellaneous pole line hardware and materials for 65 poles						\$13,000	\$13,000
Unit Cost							
Labor: Engineering 3 week(s)				11,160			\$11,160
Unit Cost				\$3,720		per week	
Police Details (if applicable) 24.0 week(s)						\$59,538	\$59,538
Unit Cost						\$2,481 per week	

Total RMLD Crew Weeks 52.0
Total U/G Crew Weeks

TOTAL	\$303,035	\$47,840	\$11,160	\$263,506
-------	-----------	----------	----------	-----------

TOTAL ESTIMATED PROJECT COST:	\$625,541
--------------------------------------	------------------

FY14	24% Actual	\$152,387
FY15	60% Estimate	\$373,067
FY16	16% Estimate	\$100,086

CAPITAL PROJECT SUMMARY

Project Name: Upgrading of Old Lynnfield Center URDs (Cook's Farm) **Project #:** 104

Project Schedule: FY14-16 **Project Manager:** Peter Price, Chief Engineer

Reason for Expenditure:

This is one of the original Lynnfield underground subdivisions and is over 40 years old. This area does not conform to the Department's current construction standards. When this system was installed, the design called for fiber duct, 2,400-volt primary cable, and no manholes. With this type of design, an underground cable failure could result in a significant outage for some customers.

Brief Description/Scope:

The first phase of this project was the Townsend and Needham Road Subdivision (FY12). The second phase is Russell Road, Trog Hawley and Charing Cross (FY13), and the third phase will be Cooks Farm, Cortland Lane, and Tophet Road (FY14). This project would require building a new underground distribution system within the public way. This involves the installation of manholes, conduits, transformers, underground primary and secondary cable, and pull boxes, etc. The transformers would be replaced in the same location. The Department would intercept the customer's existing service and place a pull box on the property. If the customer wants to upgrade their service at the same time, they would be responsible from the pull box to the house. In FY14 the Department will begin Cooks Farm Lane, Cortland Lane, and Tropheet Road. Engineering will petition the Town for permission to install the underground electric facilities and meet with the customers affected by this construction to explain the project and scope of work.

This project will require procuring an excavation contractor and may require the complete repaving of the subdivision.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

Status Update:

This project started in FY14 and continued into FY15. This was the same case for the previous two subdivisions. The construction season for this type of project runs from mid-April to mid-October. It is expected that 90% of this project will be completed by the end of FY15.

FISCAL 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Upgrading Old Lynnfield Center JRDs (Cook's Farm)

SCHEDULE: FY14-16

PROJECT #: 104

ITEM	CREW WEEKS 2-man	CREW LABOR COST	CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
Complete installation of: 6,000 feet of U/G conduit 5,400 feet of U/G 1/0 primary 1,800 feet of U/G 4/0 secondary 11 manholes, 9 transformers, etc.	28.0	\$163,173	\$25,760			\$75,000	\$263,933
	Unit Cost	\$5,828	\$920			per week	
	2-Man						
Underground Contractor:	16.0			\$94,438	\$640		\$95,078
	Unit Cost			\$5,902	\$40	per week	
	Unit Cost						
	Unit Cost						
LABOR:				\$29,759			\$29,759
Engineering							
8.0 weeks	Unit Cost			\$3,720		per week	
	Unit Cost						
Police Details (if applicable)				\$34,730			\$34,730
14.0 weeks	Unit Cost			\$2,481		per week	
Total RMLD Crew Weeks	28.0						
Total U/G Crew Weeks	16.0						
TOTAL	44.0	\$163,173	\$25,760	\$158,928	\$640	\$75,000	

TOTAL ESTIMATED PROJECT COST: \$423,501

FY14	3% Actual	\$13,548
FY15	87% Estimate	\$367,603
FY16	10% Estimate	\$42,350

CAPITAL PROJECT SUMMARY

Project Name: Relay Replacement - Station 4 (Gaw)

Project #: 108

Project Schedule: FY15-16

Project Manager:

Nick D'Alleva

Technical Services Manager

Reason for Expenditure:

Replace the existing electro-mechanical protective relay systems on the 15kV feeder breakers at the Gaw Substation. These relays will be able to provide more information back to the SCADA; they also store vast amounts of data for down-loading and evaluating.

Brief Description/Scope:

Replace relays and rewire feeder cubicle for installation of this equipment previously purchased. Test and commission new relays.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

None

Status Update:

It is anticipated that 41% of this project will be completed by the end of FY15.

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Station 4: Relay Replacement

SCHEDULE: FY15-16

PROJECT #: 108

ITEM	CREW WEEKS 2-man	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Miscellaneous materials including wire, test blocks, terminals, panels, etc.						\$2,000	\$2,000
Unit Cost		See box at left.					
Labor: Senior Techs (2-man crew) 12 week(s)				\$65,099	\$432		\$65,531
Unit Cost				\$5,425	\$36	per week	
Labor: Technical Services Manager 9 week(s)				\$33,864	\$162		\$34,026
Unit Cost				\$3,763	\$18	per week	
Engineering Consultant: design and inter-connection and as built plans.						\$15,000	\$15,000
Unit Cost		See box at left.					
Electrical Contractor: testing and commissioning.						\$6,000	\$6,000
Unit Cost		See box at left.					
Unit Cost		See box at left.					
Police Details (if applicable)							
Unit Cost		See box at left.					

TOTAL \$98,963 \$594 \$23,000

TOTAL ESTIMATED PROJECT COST: \$122,557

	FY15	41%	Estimate	\$50,000
	FY16	59%	Estimate	\$72,557

CAPITAL PROJECT SUMMARY

Project Name: Remote Terminal Unit (RTU) Replacement – Station 3 **Project #:** 130

Project Schedule: FY16 **Project Manager:** Peter Price, Chief Engineer

Reason for Expenditure:

The existing RTU was installed in 2000 and uses a legacy TeleGyr 8979 protocol. This was done so that it would work with the old TeleGyr SCADA system. The existing RTU is not IP addressable, nor does it have an ethernet connection. The RTU needs to be upgraded to add the functionality of the existing SEL relays at Station 3. A new RTU will give the Department the ability to communicate with the SEL relays, similar to what is being done at Station 4.

Brief Description/Scope:

Bid and purchase a pre-wired RTU enclosure, with required technical support, that will replace the existing RTU enclosure at Station 3. Contract with SEL for technical assistance and any required hardware for the interconnection. Station Supervisor and Senior Technicians will re-wire and terminate control wiring within the new RTU cabinet. Engineering will program and configure SCADA for new comm-line and RTU

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

Status Update:

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: RTU Replacement - Station 3

SCHEDULE: FY16

PROJECT #: 130

ITEM	CREW WEEKS 2-man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Purchase RTU pre-wired enclosure and miscellaneous equipment						\$55,000	\$55,000
Labor: Senior Techs (2-man crew) 3 week(s)				\$16,275	\$108		\$16,383
	Unit Cost			\$5,425	\$36	per week	
Labor: Technical Services Manager 3 week(s)				\$11,288	\$54		\$11,342
	Unit Cost			\$3,763	\$18	per week	
Labor: Engineering 3 week(s)				\$11,160			\$11,160
	Unit Cost			\$3,720		per week	
TOTAL				<u>\$38,722</u>	<u>\$162</u>	<u>\$55,000</u>	

TOTAL ESTIMATED PROJECT COST: \$93,884

CAPITAL PROJECT SUMMARY

Project Name: Engineering Analysis Software and
Data Conversion

Project #: 122

Project Schedule: FY16

Project Manager: Peter Price, Chief Engineer

Reason for Expenditure:

This software purchase and data conversion will allow the Engineering department to perform engineering analysis on the distribution system. Internally, the department would be able to perform fault current calculations, arc flash calculations, load flow and voltage drop calculations, load balancing, voltage regulator settings, etc. This new software would work with the existing coordination software that the Engineering department uses.

Brief Description/Scope:

Take the existing databases and newly collected as-built data, and core ESRI data for the GIS project and have it converted for use in the electric model by the Milsoft and Windmill software provider. Purchase the software necessary to perform the engineering analysis and to update map/land-base data. Purchase of server for software and databases.

Barriers:

GIS as-built data completion.

Change in Scope of Work From Prior Fiscal Year:

Status Update:

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Engineering Analysis Software & Data Conversion

SCHEDULE: FY16

PROJECT #: 122

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Engineering Analysis Software						\$18,250	\$18,250
Data conversion for WindmilMap						\$25,000	\$25,000
Unit Cost							
WindmilMap Software						\$30,000	\$30,000
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
TOTAL						\$73,250	

TOTAL ESTIMATED PROJECT COST: \$73,250

CAPITAL PROJECT SUMMARY

Project Name: GIS Upgrade

Project #: 125

Project Schedule: FY15-16

Project Manager: Hamid Jaffari, Director of
Engineering and Operations

Reason for Expenditure:

The current RMLD GIS lacks critical information to accurately perform system modeling. Once this information is captured, reviewed, and optimized, RMLD will be able to enhance contingency and reliability planning, developing system protection and coordination studies. By increasing the value of the information within the GIS, RMLD will be better able to manage the assets within the network. Once completed RMLD will be able to track flow from substations to individual meters.

In conjunction with a contracted engineering firm, RMLD is creating a template of desired GIS attributes to include the Milsoft WindMilMap required attributes for engineering analysis as well as Smart Grid systems (i.e. OMS, DMS, FDIR, etc.). RMLD does not have enough resources to collect pole-by-pole data throughout its service territory, as this is a tedious and time-consuming task. Staff augmentation with an outside data collector will be used for this data integration effort.

Brief Description/Scope:

Comprehensive, contracted third-party data collection to produce GIS base model for overhead assets.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

Status Update:

It is anticipated that 7% of this project will be completed in FY15.

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: GIS

SCHEDULE: FY15-16

PROJECT #: 125

ITEM	CREW WEEKS 2-man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Comprehensive data collection for RMLD overhead network						\$450,000	\$450,000
Police Details (if applicable) week(s)							

TOTAL \$450,000

TOTAL ESTIMATED PROJECT COST: \$450,000

FY15	7% Estimate	\$30,000
FY16	93% Estimate	\$420,000

CAPITAL PROJECT SUMMARY

Project Name: Force Account – West Street, Reading **Project #:** 212

Project Schedule: FY15-16 **Project Manager:** Peter Price, Chief Engineer

Reason for Expenditure:

Mass DOT is reconstructing West Street, in Reading, from the Woburn town line to the intersection of Summer Avenue. The reconstruction includes the widening of the roadway, the installation of traffic signals and the resurfacing of the road. This work will require the RMLD to relocate poles, transfer construction, lower and raise manhole covers, and relocate conduits.

Brief Description/Scope:

Replace approximately 38 poles and 15 anchors, frame and transfer primaries, secondaries, transformers, services, and street lights on 42 poles, relocate primary conduits and cables feeding Westcroft Circle, and lower and raise manhole frames and covers. All work except for the lowering and raising of the manhole frames and covers is reimbursable.

Barriers:

Verizon is responsible to replace 4 of the poles. The RMLD will need to petition the Town of Reading for any of the pole and conduit relocations. The Mass DOT has approved these relocations, but they must be formally presented and approved by the Town.

Change in Scope of Work From Prior Fiscal Year:

Status Update:

It is anticipated that 33% of this work will be completed in FY15. The project will continue into FY16.

FISCAL 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: FA (MassDOT) West Street, R

SCHEDULE: FY15-16

PROJECT #: 212

ITEM	CREW WEEKS 2-Man	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
install approximately 38 poles and 15 anchors on West Steet between South Street and Summer Avenue.	9	\$52,448	\$8,280			\$23,000	\$83,728
Unit Cost		\$5,828	\$920	per week			
Frame 42 poles for spacer cable circuit, primary laterals and secondary cable and transfer.	11	\$64,104	\$10,120			\$7,500	\$81,724
Unit Cost		\$5,828	\$920	per week			
Relocate primary conduits and cables feeding Westcroft Circle to new pole (working with Underground Crew)	2	\$11,655	\$1,840				\$13,495
Unit Cost		\$5,828	\$920	per week			
Underground Contractor (2-man): See above	1	\$5,902	\$40				\$5,942
Unit Cost		\$5,902	\$40	per week			
Engineering Labor				\$11,160			\$11,160
3.0 weeks		Unit Cost		\$3,720		per week	
Police Details (if applicable)				\$27,288			\$27,288
11.0 weeks		Unit Cost		\$2,481		per week	
Total RMLD Crew Weeks		22.0					
Total U/G Crew Weeks		1.0					
TOTAL		\$134,109		\$20,280		\$38,448	
				\$30,500			

TOTAL ESTIMATED PROJECT COST: \$223,337

FY15	33%	Estimate	\$73,701
FY16	67%	Estimate	\$149,636

CAPITAL PROJECT SUMMARY

Project Name: Pole Line Upgrade – Lowell Street, Wilmington **Project #:** 102

Project Schedule: FY15-16 **Project Manager:** Peter Price, Chief Engineer

Reason for Expenditure:

This section of Lowell Street currently has three (3) spacer cable circuits and two (2) aerial cable circuits. These poles are under-sized, under-classed, and over 30 years old. This project will upgrade the poles to the proper strength and height class, create the proper clearance between utilities, and benefit the long-term reliability of the system.

Brief Description/Scope:

Replace approximately twenty poles with 55'-1 poles along a section of Lowell Street in Wilmington, between West Street and Woburn Street. Frame poles with new hardware and transfer the three (3) spacer cable circuits, the two (2) aerial cable circuits, two (2) gang operated switches, four (4) primary laterals, secondaries, services, and street lights.

Barriers:

This is a Verizon set area, but they will not set 55' poles. Therefore, RMLD will set poles.

Change in Scope of Work From Prior Fiscal Year:

Increased pole replacement area to include the West and Lowell Street intersection as well as the Woburn and Lowell Street intersection. This increased the number of poles to be replaced to 30 and the setting of two (2) new poles.

Status Update:

It is anticipated that 60% of the project will be completed by the end of FY15.

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Pole Line Upgrade - Lowell Street, W

SCHEDULE: FY15-16

PROJECT #: 102

ITEM	CREW WEEKS	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
2-man Install approximately twenty (20) 55' poles on Lowell Street between West Street and Woburn Street. Transfer three (3) spacer cable circuits and two (2) aerial cable circuits.	14.0	\$81,586	\$12,880			\$12,000	\$106,466
	Unit Cost		\$5,828	\$920			per week
Frame 20 poles for three (3) spacer cable circuits and two (2) aerial circuits with new brackets and hardware.	8.0	\$46,621	\$7,360			\$7,300	\$61,281
	Unit Cost		\$5,828	\$920			per week
Install 12 additional poles.	8.0	\$46,621	\$7,360			\$10,000	\$63,981
	Unit Cost		\$5,828	\$920			per week
Engineering Labor: 3 week(s)				\$11,160			\$11,160
	Unit Cost			3,720			per week
Police Details (if applicable): 16.0 week(s)				\$39,692			\$39,692
	Unit Cost			\$2,481			per week
Total RMLD Crew Weeks 30.0 Total U/G Crew Weeks							
TOTAL		\$174,828	\$27,600	\$50,852		\$29,300	

TOTAL ESTIMATED PROJECT COST: \$282,579

FY15	60% Estimate	\$169,548
FY16	40% Estimate	\$113,032

CAPITAL PROJECT SUMMARY

Project Name: Distribution Protection and Automation **Project #:** 103

Project Schedule: FY15-16 **Project Manager:** Peter Price, Chief Engineer

Reason for Expenditure:

Increase distribution line protection.

Brief Description/Scope:

Install 13.8kV feeder reclosers on 13.8kV feeders to increase feeder protection along the primary distribution feeders serving all four (4) communities.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

Status Update:

It is anticipated that 50% of this project will be completed in FY15.

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Distribution Protection and Automation

SCHEDULE: FY15-16

PROJECT #: 103

ITEM	CREW WEEKS	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Purchase and Install: (4) Reclosers with SCADA ready controls.	2-Man 4.0	\$23,310	\$3,680			\$100,000	\$126,990
	Unit Cost	\$5,828	\$920			\$25,000 each	
	Unit Cost						
	Unit Cost						
	Unit Cost						
Engineering Labor: 2 week(s)				\$7,440			\$7,440
	Unit Cost			\$3,720		per week	
Police Details (if applicable) 2.0 week(s)				\$4,961			\$4,961
	Unit Cost			\$2,481		per week	

Total RMLD Crew Weeks 4.0
Total U/G Crew Weeks

TOTAL	\$23,310	\$3,680	\$12,401	\$0	\$100,000
--------------	----------	---------	----------	-----	-----------

TOTAL ESTIMATED PROJECT COST: \$139,392

FY15	50% Estimate	\$69,696
FY16	50% Estimate	\$69,696

CAPITAL PROJECT SUMMARY

Project Name: LED Street Light Implementation – All Towns **Project #:** 131

Project Schedule: FY16-18 **Project Manager:** Brian Smith
Engineering Project Manager

Reason for Expenditure:

Street light technology has advanced greatly over the years and has moved towards the installation and use of the more energy efficient and longer lasting LED replacements. In FY15, we are conducting an LED Street Light Pilot Program, which will allow us to evaluate the performance of, monitor the energy usage of, and get feedback on the lighting provided by this newer technology. Once the Pilot Program is complete, we will work with the towns to determine an implementation strategy for system-wide installation as appropriate.

Brief Description/Scope:

Purchase and install LED street lights for system-wide installation.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

Status Update:

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: LED Street Light Implementation

SCHEDULE: FY16-18

PROJECT #: 131

ITEM	CREW WEEKS 2-Man	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
Conversion Program							\$3,600,000
Purchase and install light fixtures.							
	Unit Cost _____						
	Unit Cost _____						
	Unit Cost _____						
	Unit Cost _____						
	Unit Cost _____						
	Unit Cost _____						
	Unit Cost _____						
TOTAL							

TOTAL ESTIMATED PROJECT COST:	\$3,600,000
--------------------------------------	--------------------

FY16	33% Estimate	\$1,200,000
FY17	33% Estimate	\$1,200,000
FY18	33% Estimate	\$1,200,000

CAPITAL PROJECT SUMMARY

Project Name: Substation Test Equipment

Project #: 134

Project Schedule: FY16

Project Manager: Nick D'Alleva
Technical Services Manager

Reason for Expenditure:

This project is necessary to purchase several pieces of test equipment to be used by the Technical Services department.

Brief Description/Scope:

The RMLD is formulating a distribution and substation, preventative, maintenance program. In order to perform many of the electrical tests, additional test equipment will be needed.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Substation Test Equipment SCHEDULE: FY16

PROJECT #: 134

ITEM	CREW WEEKS	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Purchase of various test equipment.						\$100,000	\$100,000

TOTAL 0.0 0 \$0 \$0 \$0 \$100,000

TOTAL ESTIMATED PROJECT COST: \$100,000

CAPITAL PROJECT SUMMARY

Project Name: Station 4 (Gaw) 35kv Potential Transformer Replacement **Project #:** 109

Project Schedule: FY16 **Project Manager:** Nick D'Alleva, Technical Services Manager

Reason for Expenditure:

The existing potential transformers are 30 plus years old and are in need of replacement.

Brief Description/Scope:

Purchase and replace six (6) 35kv potential transformers. Replace steel conduit and associated control wiring.

Barriers:

None.

Change in Scope of Work From Prior Fiscal Year:

Status Update:

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Station 4: 35kV PT Replacement

SCHEDULE: FY16

PROJECT #: 109

ITEM	CREW WEEKS <small>2-man</small>	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC.	TOTAL
Purchase and mount six (6) 35kV potential transformers and miscellaneous equipment.	1.0	\$5,828	\$920			\$20,000	\$26,748
Unit Cost		\$5,828	\$920			\$3,333 see box at left	
Labor: Senior Techs (2-man crew)				\$10,850	\$72		\$10,922
2 week(s)				\$5,425	\$36	per week	
Unit Cost							
Labor: Technical Services Manager				\$3,763	\$18		\$3,781
1 week(s)				\$3,763	\$18	per week	
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
Total RMLD Crew Weeks	1.0						
Total U/G Crew Weeks							
TOTAL		\$5,828	\$920	\$14,612	\$90	\$20,000	

TOTAL ESTIMATED PROJECT COST: \$41,450

SYSTEM

NEW PROJECTS

CAPITAL PROJECT SUMMARY

Project Name: Pole Line Upgrade – Woburn Street, Wilmington **Project #:** TBD

Project Schedule: FY16 **Project Manager:** Peter Price, Chief Engineer

Reason for Expenditure:

This section of Woburn Street currently has three (3) spacer cable circuits. These poles are under-sized, under-classed, and over 30 years old. This project will upgrade the poles to the proper strength and height class, create the proper clearance between utilities, and benefit the long-term reliability of the system.

Brief Description/Scope:

Replace approximately sixteen (16) main line poles and four (4) stub poles along a section of Woburn Street in Wilmington, between Concord Street and West Street. Frame poles with new hardware and transfer the three (3) spacer cable circuits, four (4) transformers, one (1) primary lateral, secondaries, services, and streetlights. Street lights will be changed to LED's, and transformers will be upgraded as part of the transformer maintenance program.

Barriers:

This is a Verizon set area.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Pole Line Upgrade - Woburn Street, W.

SCHEDULE: FY16

PROJECT #: TBD

ITEM	CREW WEEKS	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Assist Verizon with pole sets	2-man 2.0	\$11,655	\$1,840				\$13,495
Unit Cost		\$5,828	\$920			per week	
Frame 20 poles for three (3) spacer cable circuits with new brackets and hardware.	6.0	\$34,966	\$5,520			\$7,300	\$47,786
Unit Cost		\$5,828	\$920			per week	
Install three (3) transformers.	0.8	\$4,662	\$736				\$5,398
Unit Cost		\$5,828	\$920			per week	
Engineering Labor: 2 week(s)				\$7,440			\$7,440
Unit Cost				3,720	per week		
Police Details (if applicable) 7.0 week(s)				\$17,365			\$17,365
Unit Cost				\$2,481	per week		
Total RMLD Crew Weeks		8.8					
Total U/G Crew Weeks							
TOTAL		\$51,283	\$8,096	\$24,805	\$7,300		

TOTAL ESTIMATED PROJECT COST: \$91,484

CAPITAL PROJECT SUMMARY

Project Name: Substation Equipment Upgrade

Project #: TBD

Project Schedule: FY16

Project Manager: Nick D'Alleva
Technical Services Manager

Reason for Expenditure:

United Power Group and RMLD personnel have identified equipment that needs to be replaced or upgraded as a result of their condition assessment of our substation equipment.

Brief Description/Scope:

Major items include the replacement of the transformer LTC controls at Station #3, the purchase of remote racking devices for all our 15 Kv breakers, replacement cable tray covers for Station #4, redesign of the transfer scheme at Station #3 and various minor items at Stations #3, #4 and #5.

Barriers:

Availability of replacement parts.

Change in Scope From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Substation Equipment Upgrade

SCHEDULE: FY16

PROJECT #: TBD

ITEM	CREW WEEKS 2-man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC.	TOTAL
Materials						\$175,000	\$175,000
Unit Cost							
Labor: Senior Techs (2-man crew) 8 week(s)				\$43,399	\$288		\$43,687
Unit Cost							
Labor: Technical Services Manager 4 week(s)				\$15,051	\$72		\$15,123
Unit Cost							
Engineering Consulting Services						\$20,000	\$20,000
Unit Cost							
Unit Cost							
Unit Cost							
TOTAL				\$58,450	\$360	\$195,000	

TOTAL ESTIMATED PROJECT COST: \$253,810

CAPITAL PROJECT SUMMARY

Project Name: Station 4: Switchgear/Breaker Replacement **Project #:** TBD

Project Schedule: FY16-17 **Project Manager:** Nick D'Alleva
Manager of Technical Services

Reason for Expenditure:

The existing switchgear and breakers at Station 4 are in excess of 40 years old. We will be performing an evaluation of the switchgear with the assistance of United Power Group. The existing breakers utilize an older air magnetic technology for interrupting fault current. We will be replacing the existing breakers with new vacuum type breakers.

Brief Description/Scope:

Replace existing air magnetic breaker with replacement vacuum breakers. Inspect and test the condition of the existing switchgear.

Barriers:

Lead time for replacement breakers. Condition of the existing switchgear.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Station 4: Switchgear/Breaker Replacement

SCHEDULE: FY16-17

PROJECT #: TBD

ITEM	CREW WEEKS 2-man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC.	TOTAL
Purchase (2) replacement breakers.						\$968,000	\$968,000
Unit Cost							\$484,000 each
Labor: Senior Techs (2-man crew)				\$32,549	\$216		\$32,765
6 week(s)				\$5,425	\$36	per week	
Unit Cost							
Labor: Technical Services Manager				\$15,051	\$72		\$15,123
4 week(s)				\$3,763	\$18	per week	
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
TOTAL							<u>\$47,600</u> <u>\$288</u> <u>\$968,000</u>

TOTAL ESTIMATED PROJECT COST: \$1,015,888

FY15	50% Estimate	\$507,944
FY16	50% Estimate	\$507,944

CAPITAL PROJECT SUMMARY

Project Name: Station 4: Battery Bank Upgrade

Project #: TBD

Project Schedule: FY16

Project Manager: Nick D'Alleva
Manager of Technical Services

Reason for Expenditure:

Battery bank two at Station 4 was identified as needing replacement during evaluation by our (substation) testing consultant, United Power Group. This battery bank is in excess of 20 years old.

Brief Description/Scope:

Replace the existing battery bank and install a battery monitoring system, which will bring important information back to our SCADA system in the RMLD Control Center.

Barriers:

None.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Station 4: Battery Bank Upgrade

SCHEDULE: FY16

PROJECT #: TBD

ITEM	CREW WEEKS 2-man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC.	TOTAL
Materials						\$42,200	\$42,200
Unit Cost							
Labor: Senior Techs (2-man crew) 2 week(s)				\$10,850	\$72		\$10,922
Unit Cost				\$5,425	\$36	per week	
Labor: Technical Services Manager 1 week(s)				\$3,763	\$18		\$3,781
Unit Cost				\$3,763	\$18	per week	
Unit Cost							
Unit Cost							
Unit Cost							

Total RMLD Crew Weeks
Total U/G Crew Weeks

TOTAL		\$14,612	\$90	\$42,200
-------	--	----------	------	----------

TOTAL ESTIMATED PROJECT COST: \$56,902

CAPITAL PROJECT SUMMARY

Project Name: Distributed Generation

Project #: TBD

Project Schedule: FY16

Project Managers: Hamid Jaffari, Director of
Engineering and Operations
Peter Price, Chief Engineer

Reason for Expenditure:

Take advantage of ISO's market opportunity to reduce the cost of power purchase for RMLD ratepayers.

Brief Description/Scope:

RMLD is exploring an opportunity to install a 2-2.5 MW gas fuel generator as a pilot program to take advantage of New England ISO's capacity and transmission credits that lower power purchase costs for our ratepayers. Generating power on-site eliminates the cost, complexity, interdependencies, and inefficiencies associated with transmission and distribution. These credits are expected to increase substantially starting 2017, which makes the return of investment (ROI) 3 to 5 years.

Barriers:

Securing a site and permitting.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: 2 to 2.5 MW Distributed Generator

SCHEDULE: FY16

PROJECT #: TBD

ITEM	CREW WEEKS	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
2 MW Generator Unit						\$2,100,000	\$2,100,000
Unit Cost							
Engineering and Design						\$20,000	\$20,000
Unit Cost							
Permitting and Legal Services						\$15,000	\$15,000
Unit Cost							
Installation and implementation.						\$14,000	\$14,000
Unit Cost							
Miscellaneous Costs						\$10,000	\$10,000
Unit Cost							
Testing and Commissioning	0.6	\$3,205	\$506			\$1,300	\$5,011
Unit Cost		\$5,828	\$920			per week	

TOTAL 0.0 3,205 \$506 \$0 \$0 \$2,160,300

TOTAL ESTIMATED PROJECT COST: \$2,164,011

CAPITAL PROJECT SUMMARY

Project Name: Fiber Optic Testing Equipment

Project #: TBD

Project Schedule: FY16

Project Manager: Peter Price, Chief Engineer

Reason for Expenditure:

The RMLD relies on contractors to trouble shoot problems with the fiber optic network. With the expansion of the fiber optic network for the automation plan, this equipment would allow RMLD to locate and diagnose problems with the network. The fiber optic cable contractor would be used for splicing and terminating the fiber.

Brief Description/Scope:

Purchase optical test equipment and associated cables, adapter, cleaners, accessories, as well as necessary training.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Fiber Optic Equipment

SCHEDULE: FY16

PROJECT #: TBD

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Fiber Optic Equipment						\$15,000	\$15,000
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost						

TOTAL \$15,000

TOTAL ESTIMATED PROJECT COST: \$15,000

CAPITAL PROJECT SUMMARY

Project Name: Fault Indicators

Project #: TBD

Project Schedule: FY16

Project Manager: Peter Price, Chief Engineer

Reason for Expenditure:

The RMLD has installed approximately 99 fault locators along the distribution circuits over the last 4 years to aid in fault locating.

Brief Description/Scope:

This project is for the purchase of 54 fault locators.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Fault Indicators

SCHEDULE: FY16

PROJECT #: TBD

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Fault Indicator						\$50,000	\$50,000
Police Details (if applicable) week(s)							
						per week	

TOTAL

\$50,000

TOTAL ESTIMATED PROJECT COST: \$50,000

CAPITAL PROJECT SUMMARY

Project Name: Voltage Data Recorders

Project #: TBD

Project Schedule: FY16

Project Manager: Peter Price, Chief Engineer

Reason for Expenditure:

The Engineering department requires feeder data loggers for feeder load balancing, and voltage recorders for residential and commercial voltage complaint investigation and survey.

Brief Description/Scope:

Purchase a set of feeder data loggers, two single-phase voltage recorders, and one three-phase voltage recorder.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Voltage Data Recorders

SCHEDULE: FY16

PROJECT #: TBD

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Voltage Data Recorders						\$50,000	\$50,000
Police Details (if applicable) week(s)							

TOTAL \$50,000

TOTAL ESTIMATED PROJECT COST: \$50,000

SYSTEM

ANNUAL PROJECTS

CAPITAL PROJECT SUMMARY

Project Name: Transformers & Capacitors

Project #: 116

Project Schedule: Annual

Project Manager: Peter Price, Chief Engineer

Reason for Expenditure:

A major quantity of standard units is necessary for proposed projects and stock on an ongoing basis.

Brief Description/Scope:

- | | |
|---|--------------------|
| a) Three-phase padmount transformers (commercial services) | Quantity: 15 units |
| b) Single-phase padmount transformers for proposed subdivisions and stock. | Quantity: 40 units |
| c) Three-phase polemount transformers for proposed commercial projects and stock | Quantity: 31 units |
| d) Single-phase polemount transformers for proposed residential services and stock. | Quantity: 86 units |
| e) Submersible transformers for stock. | Quantity: 4 units |
| f) 1200 kVar capacitor banks. | Quantity: 4 units |

Barriers:

None anticipated at this time

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Transformers and Capacitors

SCHEDULE: FY16

PROJECT #: 116

ITEM	CREW WEEKS	CREW LABOR COST	CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
a) Three-phase padmount transformers for proposed commercial services and stock 15 units						\$187,500	\$187,500
	Unit Cost		\$12,500 per unit				
b) Single-phase padmount transformers for proposed subdivisions and stock 40 units						\$100,000	\$100,000
	Unit Cost		\$2,500 per unit				
c) Three-phase polemount transformers for proposed commercial services and stock 31 units						\$201,500	\$201,500
	Unit Cost		\$6,500 per unit				
d) Single phase polemount transformers for proposed residential services and stock 86 units						\$129,000	\$129,000
	Unit Cost		\$1,500 per unit				
e) Submersible transformers for stock 4 units						\$20,000	\$20,000
	Unit Cost		\$5,000 per unit				
f) 1200 kVar capacitor banks 4 units						\$30,000	\$30,000
	Unit Cost		\$7,500 per unit				
TOTAL						\$668,000	

TOTAL ESTIMATED PROJECT COST: \$668,000

CAPITAL PROJECT SUMMARY

Project Name: Communication Equipment (for Fiber Optic) **Project #:** 126

Project Schedule: Annual **Project Manager:** Peter Price, Chief Engineer

Reason for Expenditure:

As the RMLD expands its use of the fiber optic network to establish communication with metering equipment, recloser controls, capacitor bank controls and other distribution equipment, the Department will create fiber nodes at various locations along the fiber optic network. Each node will require an enclosure, a fiber optic interface, a power supply, cabling, fiber optic cable, and the termination of the fiber optic cable.

Brief Description/Scope:

Purchase materials and procure fiber optic cable splicers as needed.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Communication Equipment (Fiber)

SCHEDULE: FY16

PROJECT #: 126

ITEM	CREW WEEKS 2-man	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
Fiber node materials to include the enclosure, patch panel, power supply and Ethernet switch. 8.0 units						\$40,000	\$40,000
						\$5,000	
Unit Cost							
Contract labor and materials for splicing fiber. 8.0 units						\$25,000	\$25,000
						\$3,125	
Unit Cost							
Fiber optic cable and hardware						\$15,000	\$15,000
Unit Cost							
Labor - Line Crews	2	\$11,655	\$1,840				\$13,495
Unit Cost						\$5,828	\$920 per week
Unit Cost							
Police Details (if applicable) 2 week(s)						\$4,961	\$4,961
Unit Cost						\$2,481	per week
Unit Cost							
TOTAL		\$16,617	\$1,840			\$80,000	

TOTAL ESTIMATED PROJECT COST: \$98,457

CAPITAL PROJECT SUMMARY

Project Name: Meters (including 500 Club)

Project #: 117

Project Schedule: Annual

Project Manager: Nick D'Alleva
Technical Services Manager

Reason for Expenditure:

Purchase of meters and metering equipment for new construction, upgrades, and failures.

Additionally, the existing "500 Club" commercial meters, which are manually read meters, will be replaced with meters that can be read remotely with the fixed network system.

Brief Description/Scope:

Two hundred residential and commercial meters as well as miscellaneous hardware will be purchases for stock.

The RMLD will complete change out of the "500 Club" commercial meters. In the same fashion as the commercial upgrade, the data will be transmitted to the RMLD via the fiber optic system, which encircles the territory. The new data will provide reads at the desktop and additional consumption information.

This fixed network offers the ability to remotely:

- a. perform all reads from the office;
- b. amend the frequency of reads to maintain the read cycle;
- c. monitor and discuss customer usage from a monthly, daily, or hourly perspective;
- d. provide information that can be used for the demand-side management program; and
- e. control distribution equipment, i.e., capacitor banks, distribution switches, reclosers, and water heater controllers.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Meters

SCHEDULE: FY16

PROJECT #: 117

ITEM	CREW WEEKS	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
For Stock: Residential and Commercial Meters 200 units						\$60,000	\$60,000
Unit Cost						\$300 each	
Locking sealing rings, seals and meter switches						\$20,000	\$20,000
Unit Cost						\$100 per meter	
500 Club - AMI Mesh System 50% of the cost of the AMI mesh system is expected to be spent in FY15. 50% is allocated in FY16.						\$99,968	\$99,968
Unit Cost							
Technical Services Manager: Labor 1 week(s)				\$3,763	\$18		\$3,781
Unit Cost						\$3,763 \$18 per week	
Senior Techs: Labor 1.5 week(s) Regular Time				\$8,137	\$54		\$8,191
Unit Cost						\$5,424.91 \$36 per week	
Meter Techs: Labor 0.6 week(s) Regular Time				\$3,099	\$22		\$3,120
Unit Cost						\$5,164.45 \$36 per week	
Network/System Administration: Labor 6.5 week(s)				\$19,966			\$19,966
Unit Cost						\$3,072 per week	
Engineering Labor 1 week(s)				\$3,720			\$3,720
Unit Cost						\$3,720 per week	
TOTAL				\$38,685	\$94	\$179,968	

TOTAL ESTIMATED PROJECT COST: \$218,746

CAPITAL PROJECT SUMMARY

Project Name: URD Upgrades – All Towns

Project #: 106

Project Schedule: Annual

Project Manager: Peter Price, Chief Engineer

Reason for Expenditure:

There are 244 +/- underground residential subdivisions in the RMLD service territory, of which, 65 +/- are over 25 years old. These subdivisions are in need of new primary cable and transformers. Some of the URDs are in step-down areas and need to be upgraded before they can be converted to 7,979 volts. Also, most of the existing transformers are live-front units. The new padmount transformers will be dead-front units, which will improve reliability by eliminating the possibility of animal contacts within the pad transformer.

Brief Description/Scope:

Replace primary and neutral cables, and padmount transformers as needed in the various URDs. Replace precast transformer pads with fiberglass box pads as needed for elevation requirements.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: URD Upgrades - All Towns

SCHEDULE: FY16

PROJECT #: 106

ITEM	CREW WEEKS 2-man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC.	TOTAL
Install approximately 40 padmount transformers. (Transformers are included in annual transformer purchase)	10.0	\$58,276	\$9,200				\$67,476
Unit Cost		\$5,828	\$920			per week	
Install approximately 10,000 feet of 1/0 Al UG cable and 10,000 feet of #2 CU neutral.	14.0	\$81,586	\$12,880			\$30,000	\$124,466
Unit Cost		\$5,828	\$920			per week	
Materials: splices, elbows, terminations, connectors, box pads, tape, etc.						\$30,000	\$30,000
Unit Cost							
Underground Contractor: 16.8 week(s)				\$ 99,160	\$672		\$99,832
Unit Cost				\$5,902	\$40	per week	
Engineering Labor: 5 week(s)				\$ 18,599			\$18,599
Unit Cost				\$3,720		per week	
Police Details (if applicable) week(s)							
Unit Cost						per week	
Total RMLD Crew Weeks	24.0						
Total U/G Crew Weeks	16.8						
TOTAL		\$139,862	\$22,080	\$117,760	\$672	\$60,000	

TOTAL ESTIMATED PROJECT COST: \$340,374

CAPITAL PROJECT SUMMARY

Project Name: Step-down Area Upgrades – All Towns **Project #:** 107

Project Schedule: Annual **Project Manager:** Peter Price, Chief Engineer

Reason for Expenditure:

There are 32 +/- step-down areas in the RMLD service territory. These areas on the RMLD distribution system were originally fed from 4kV distribution circuits. When RMLD began moving load over to the 13.8kV distribution circuits, most areas were converted and some areas were re-fed with pole-mount, step-down transformers. Most of the distribution system in these areas are 30+ years old and in need of upgrade before they can be converted.

Brief Description/Scope:

Replace poles, primary cable, secondary cable, and overhead transformers, as needed, in the various step-down areas. Convert areas to 13.8kV and remove step-down transformers.

Pole replacements will be charged to the pole replacement/inspection project.
Transformers will be upgraded as part of the transformer upgrade project.

Barriers:

Some areas are Verizon set areas.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Step-down Area Upgrades - All Towns SCHEDULE: FY16

PROJECT #: 107

ITEM	CREW WEEKS 2-man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC.	TOTAL
Instal 12,000' of 1/0 primary.	16.0	\$93,242	\$14,720			\$12,000	\$119,962
Unit Cost		\$5,828	\$920			per week	
Instal 10,000' of 4/0 - 3/C sec cable	16.0	\$93,242	\$14,720			\$14,000	\$121,962
Unit Cost		\$5,828	\$920			per week	
Replace 40 transformers (Transformers are included with annual transformer purchase.)	8.0	\$46,621	\$7,360				\$53,981
Unit Cost		\$5,828	\$920			per week	
Miscellaneous Hardware \$200 per pole for approximately 80 poles						\$16,000	\$16,000
Unit Cost						\$200 per pole	
Engineering Labor: 4 week(s)				14,880			\$14,880
Unit Cost				3,720		per week	
Police Details (if applicable) 10 week(s)				\$24,807			\$24,807
Unit Cost				\$2,481		per week	
Total RMLD Crew Weeks	40.0						
Total U/G Crew Weeks							
TOTAL		\$233,104	\$36,800	\$39,687		\$42,000	

TOTAL ESTIMATED PROJECT COST: \$351,591

CAPITAL PROJECT SUMMARY

Project Name: Service Installations (Commercial and Residential) **Project #:** 112
113

Project Schedule: Annual **Project Manager:** n/a

Reason for Expenditure:

To install new and upgraded services for both residential and commercial/industrial customers in the service territory.

Brief Description/Scope:

- **Service Installations – Commercial/Industrial Customers:** This item includes new service connections, upgrades, and service replacements for commercial and industrial customers. This represents the time and materials associated with the replacement of an existing or installation of a new overhead service drop and the connection of an underground service, etc. This does not include the time and materials associated with pole replacements/installations, transformer replacements/installations, primary or secondary cable replacements/installations, etc. These aspects of a project are captured under Routine Construction.
- **Service Installations – Residential Customers:** This item includes new or upgraded overhead and underground services.

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year

n/a

Status Update:

n/a

FISCAL 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Service Installations-Commercial/Industrial

SCHEDULE: FY16

PROJECT #: 112

ITEM	CREW WEEKS 2-man	CREW LABOR COST	CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
Installation of new commercial/ industrial service connections.	3	\$17,483	\$2,760			\$13,389	\$33,632
	Unit Cost	\$5,828	\$920			per week	
Police Details (if applicable)							

Total RMLD Crew Weeks 3.0
 Total U/G Crew Weeks

TOTAL	3.0	\$17,483	\$2,760	\$13,389
-------	-----	----------	---------	----------

TOTAL ESTIMATED PROJECT COST: \$33,632

FISCAL 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Service Installations - Residential Customers

SCHEDULE: FY16

PROJECT #: 113

ITEM	CREW WEEKS 2-Man	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
Install new and upgraded service connections at approximately 360 units (approx 75-100 feet per installation).	16	\$93,242	\$14,720			\$56,250	\$164,212
		Unit Cost	\$5,827.60	\$920		per week	
							Unit Cost
							Unit Cost
							Unit Cost
							Unit Cost
							Unit Cost

Total RMLD Crew Weeks 16.0
 Total U/G Crew Weeks

TOTAL	16.0	93,242	\$14,720	\$56,250
--------------	------	--------	----------	----------

TOTAL ESTIMATED PROJECT COST	\$164,212
-------------------------------------	------------------

CAPITAL PROJECT SUMMARY

Project Name: Routine Construction

Project #: 114

Project Schedule: Annual

Project Manager: n/a

Reason for Expenditure:

Routine Construction covers capital projects that develop during the year involving items shown below.

Brief Description/Scope:

- Capital Construction – transformer installation, overhead and underground system upgrades, miscellaneous projects, pole damage, etc.
- Street Lights – new equipment installation
- Pole setting/transfers
- Engineering labor
- General Line Foreman labor
- Underground capital construction
- Police details associated with routine capital work
- Overtime associated with routine capital work

Barriers:

None anticipated at this time.

Change in Scope of Work From Prior Fiscal Year:

n/a

Status Update:

n/a

FISCAL YEAR 2016 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Routine Construction

SCHEDULE: FY16

PROJECT #: 114

ITEM	CREW WEEKS 2-man	CREW LABOR COST	CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
a) Capital Construction	20	116,552	\$18,400			\$100,000	\$234,952
	Unit Cost	5,828	\$920			per week	
b) Street Light Installations	4	23,310	\$3,680				\$26,990
	Unit Cost	5,828	\$920			per week	
c) Pole Setting/Transfers	30	174,828	\$27,600			\$100,000	\$302,428
	Unit Cost	\$5,828	\$920			per week	
d) Engineering Labor				\$29,759			\$29,759
8.0 weeks	Unit Cost			\$3,720		per week	
e) General Line Foreman Labor				\$102,227			\$102,227
26.0 weeks	Unit Cost			\$3,932		per week	
f) U/G Construction	1.5	\$8,854	\$60			\$100,000	\$108,914
	Unit Cost	\$5,902	\$40			per week	
g) Police Details				\$128,999			\$128,999
52.0 weeks	Unit Cost			\$2,481		per week	
n) Overtime	10	\$56,575	\$9,200				\$65,775
	Unit Cost	\$5,657.50	\$920			per week	

Total RMLD Crew Weeks 54.0
Total U/G Crew Weeks 1.5

TOTAL	55.5	\$380,118.74	\$58,940	\$260,985	\$300,000
-------	------	--------------	----------	-----------	-----------

TOTAL ESTIMATED PROJECT COST: \$1,000,044

REORGANIZATION OF
RMLD BOARD OF COMMISSIONERS
ATTACHMENT 2

RMLD Board of Commissioners Committees and Assignments
June 12, 2014

Audit (Including Town of Reading Audit)

Philip Pacino

Robert Soli

Recommend audit findings to the Board.

One member of Audit Committee meets at least semiannually with the Accounting/Business Manager on RMLD financial issues.

Town of Reading Audit Committee - Sit on the Town of Reading Audit Committee and select firm that performs annual financial audit or RMLD pension trust.

Budget Committee

John Stempeck, Chair

Robert Soli

Thomas O'Rourke

Recommend Operating and Capital Budgets to the Board.

Recommend actuaries and actuary findings to the Board.

Make recommendation to RMLD Board for legal counsel.

Policy Committee

Philip Pacino, Chair

John Stempeck

Thomas O'Rourke

Recommend changes of Board policies to RMLB.

Assignments

Accounts Payable

Thomas O' Rourke - July

David Talbot - August

Robert Soli - September

Philip Pacino - October

Thomas O'Rourke - November

John Stempeck - December

David Talbot - January

John Stempeck - February

Philip Pacino - March

Thomas O'Rourke - April

Robert Soli - First Back Up

Review and approve payables on a weekly basis.

This position is rotational. It requires one signature.

No Commissioner may serve more than three consecutive years on this Committee and must take a year leave before returning to this Committee.

Assignments

Payroll - Four Month Rotation

Philip Pacino, August - November

David Talbot, December - March

Thomas O'Rourke, April - July

Robert Soli - First Back Up

Review and approve payroll. This position is rotational every four months. It requires primary signer and one back-up.

No Commissioner can serve more than three consecutive years on this Committee and must take a year leave before returning to this Committee.

REPORT OF THE COMMITTEE
RMLD BOARD OF COMMISSIONERS
ATTACHMENT 3

**RMLD Policy No. 2
SURPLUS MATERIAL**

Revision No.5

Commission Vote/Effective Date _____

General Manager/Date

Next Review Date

I. PURPOSE

The purpose of this Policy No. 2 SURPLUS MATERIAL is to provide administrative controls and procedures for use by the RMLD in disposing of surplus property to maximize the value of the disposal of such surplus property to RMLD and its ratepayers. This policy does not apply to the disposal of real estate.

II. DETERMINATION OF SURPLUS PROPERTY

Surplus property is personal property in the custody and control of RMLD which is either:

- (a) In excess of RMLD's needs due to changes in operations or personnel or other changes in circumstances;
- (b) Replaced by new or substitute property;
- (c) Damaged and non-repairable or uneconomic due to costs of repairs;
- (d) In poor or hazardous condition; or
- (e) Obsolete and no longer suits RMLD's needs.

Each RMLD Department shall identify property that it deems to be surplus. The General Manager or his/her designee shall make the determination whether any such property constitutes surplus to RMLD's needs and shall be designated for disposal. Such determination shall be made in writing identifying the reasons for declaring the property surplus.

III. ASSIGNING VALUE

Upon declaring property as surplus, the estimated value of the property shall be determined. RMLD will determine the fair market value ("FMV") of such property based on a minimum of two (2) relevant and comparable industry sources. To the extent two suitable sources are not available due to the unique nature of the item(s), RMLD will utilize the best available sources. For consumer motor vehicles, FMV shall be estimated based on Kelley Blue Book, Edmunds, NADA Guides or any other nationally recognized service that values vehicles similar to those being disposed. For other property, including commercial or service

vehicles not listed in Kelley Blue Book, Edmunds, NADA Guides or a similar source, FMV shall be estimated based on quotes, trade-in offers, available sales data, appraisal or industry sources for similar property or vehicles, as may be adjusted for specific make and model, year, condition, and special equipment and features, and other factors deemed relevant. If FMV cannot reasonably be estimated for a particular property then RMLD will estimate the value of such property based on its salvage value. Salvage value is the estimated residual value of an asset at the end of its useful life or the proceeds from the disposal of the asset when it can no longer be used in a productive manner. Net salvage value takes into account the costs of disposal to more accurately reflect the residual value of a depreciable asset.

The estimated value of the property, including the designation as scrap, and the sources consulted shall be documented and kept on file. The final determination of the property's estimated value shall be subject to review and approval by the General Manager or his/her designee.

IV. CATEGORIZATION OF SURPLUS PROPERTY

Once values are determined pursuant to Article III, property shall be categorized as follows:

- (1) Scrap – property which may or may not have a tangible resale or salvage value.
- (2) Substantial Value – property having a FMV of \$10,000 or greater;
- (3) Moderate Value – property having a FMV in excess of \$500 but less than \$10,000; and
- (4) Nominal Value – property having a FMV of \$500 or less.

V. ELECTRIC UTILITY-SPECIFIC AND ELECTRIC UTILITY RATED COMMERCIAL VEHICLE PROPERTY

RMLD will identify any property that it considers to be electric utility-specific. Electric utility-specific property is property that typically only an electric utility or a company or person in the electric utility trade is likely to have an interest in acquiring. For electric utility-specific and electric utility rated commercial vehicle property of Substantial Value, RMLD will determine whether an established market exists for purposes of disposal. An "established market" is one in which commodities are regularly sold in wholesale lots and prices are set by open competition as interpreted or as otherwise defined by the Massachusetts Inspector General or agency of the Commonwealth or a court having jurisdiction over the disposal of property by federal, state, and local governmental entities. A list of trade journals and other trade publications, online advertising sources and other industry or market resources for the advertisement and sale of electric utility-specific, including electric utility rated commercial vehicles, regardless of value shall be identified and documented. This list shall be reviewed and updated as necessary.

VI. DISPOSAL PROCEDURES

- A. Scrap having tangible or resale value. Scrap having tangible or resale value shall be placed in the appropriate category based on the value of the property. If the surplus property will be sold separately as individual units, the property shall be categorized based on the value of each individual unit. For property to be sold as a set or collection, the property shall be categorized based on the estimated value of the set or collection. Items customarily sold as a set shall not be treated as individual units to evade or bypass applicable disposal procedures. However, RMLD, in its discretion may determine whether to dispose of property on an individual unit basis or as part of a set or collection in order to maximize revenue. In such instances, the reasons shall be documented and kept on file. The final decision whether to utilize a single solicitation or separate solicitations for multiple items shall be subject to the review and approval of the General Manager or his/her designee.
- B. Scrap having no tangible resale or salvage value. Scrap having no tangible resale or salvage value may be destroyed, recycled, or disposed of via an approved scrap bid or other method as determined by RMLD in its discretion based on the particular circumstances and costs of disposal. RMLD will endeavor to minimize the cost of disposal of scrap to the extent reasonably possible.
- C. Right of First Refusal. RMLD will offer surplus property, with the exception of electric utility rated commercial vehicles, electric utility specific property, and scrap having no tangible resale or salvage value, to the Towns of Reading, North Reading, Wilmington, and Lynnfield (collectively "Towns") at FMV before offering the property to the general public.

Vehicles. With the exception of electric utility rated commercial vehicles and electric utility specific rolling stock, vehicles will be offered to the Towns at FMV on a rotational basis. The rotational sequence is Reading, North Reading, Wilmington, and Lynnfield. RMLD will notify the Towns in writing. The Towns will have 30 days from the date of RMLD's notice to submit a notice of intent to purchase the property before RMLD offers the property to the general public. Notice of intent to purchase shall be made in writing and signed by an officer with authority to approve the purchase. If more than one town provides RMLD with a notice of intent to purchase the property at the same time, preference will be given based on the rotational sequence. If no town has provided RMLD with a written notice of intent within the 30-day period, RMLD may proceed to offer the property to the general public pursuant to applicable procedures.

Other Property. RMLD will offer other surplus property to the Towns at FMV on a first come, first served basis. RMLD will notify the Towns in writing. The Towns will have 30 days from the date of RMLD's notice to submit a notice of intent to purchase the property before RMLD offers the property to the general

public. Notice of intent to purchase shall be made in writing and signed by an officer with authority to approve the purchase. If more than one town provides RMLD with a notice of intent to purchase the property at the same time, preference will be given based on the rotational sequence. If no town has provided RMLD with a written notice of intent within the 30-day period, RMLD may proceed to offer the property to the general public pursuant to applicable procedures.

- D. Substantial Value. Property determined to have Substantial Value only shall be disposed of in compliance with G.L. c. 30B requirements and such supplemental requirements and procedures set forth in this policy and/or as determined by the General Manager in his/her discretion. The General Manager shall have authority to impose additional requirements if he/she determines that it is in the best interests of RMLD to do so.

Where an established market exists for the property, RMLD may dispose of the property through the established market or by trade-in if RMLD determines that it is advantageous to do so. The reasons shall be documented and the decision shall be subject to the approval of the General Manager or his/her designee.

For all other property, a competitive solicitation process shall be used. RMLD shall evaluate whether a written competitive bid process or auction, including an online auction (*i.e.*, EBay or similar web-based listing), presents the most advantageous approach given the property to be sold. The process, including all notices, shall conform to G.L. c. 30B requirements.

RMLD shall consider whether to impose a minimum bid reserve price or other terms and conditions of the sale. At a minimum, RMLD shall reserve the right to reject any and all bids if it is in RMLD's best interest to do so.

In addition to complying with G.L. c. 30B notice requirements, RMLD shall post a notice on its website for 30 days and advertise the solicitation in appropriate print and online sources intended to reach potentially interested buyers. Electric utility rated commercial vehicles and electric utility-specific equipment shall be advertised in at least two sources identified on the list as set forth in Article V.

RMLD shall award the bid to the highest bidder who meets the requirements of the solicitation, unless RMLD determines that it is in its best interest to reject the bids. If RMLD rejects the bids, RMLD may solicit new bids or negotiate the sale at a higher price than the highest bid price as permitted by G.L. c. 30B.

All bidders, including participants in an auction, shall submit a non-collusion certificate as required by G.L. c. 30B.

The sources of advertising, the specific method of disposal, and the award

process, shall be documented and subject to the approval of the General Manager or his/her designee.

- E. Moderate Value. Property of Moderate Value shall be sold through the best available means in order to obtain the highest price for RMLD. In determining the specific disposal and advertising methods to be used, the costs of disposal shall be weighed against the expected yield to RMLD. Among other options, as determined by RMLD under the circumstances, disposals may be made through a competitive bid or auction process to the highest bidder as provided in Article VI.C or sold for FMV or “best offer” after advertisement. When offering to sell surplus property to the general public, to the extent practical, RMLD shall advertise the sale in the local newspaper, on its website for 30 days and in appropriate print and online sources intended to reach potentially interested buyers. Commercial and electric utility-specific vehicles and equipment should be advertised in at least two sources identified on the list as set forth in Article V. RMLD also may negotiate the sale of the property or dispose of the property through less formal means after receiving three quotations or as RMLD deems appropriate under the circumstances. If RMLD solicits quotations, RMLD shall not be required to sell the property to the person providing the highest quotation, but the highest quotation shall be used as the benchmark for negotiating and approving the sale.

The purchaser of property having Moderate Value shall be required to sign and submit a non-collusion certificate.

The reasons and sources for the method of disposal and the award process shall be documented and subject to the approval of the General Manager or his/her designee.

- F. Nominal Value. Property of Nominal Value may be disposed of using sound business practices. The process and sale shall be documented and kept on file.

VII. ADDITIONAL TERMS AND REQUIREMENTS

- A. All property shall be sold or disposed of “as is” without any warranties of any kind.
- B. The purchaser shall release RMLD, in writing, from all liabilities concerning the property. The Purchaser must provide for removal, transportation, storage, etc. at no cost to the RMLD.
- C. The purchaser shall have the responsibility to provide for the removal, storage and transportation of the property at its sole expense. The purchaser shall remove the property at a time and location designated by RMLD.

VIII. PROHIBITION ON SALES TO EMPLOYEES, BOARD OF COMISSIONER MEMBERS AND BOTH OF THEIR IMMEDIATE FAMILIES

Consistent with G.L. c. 268A, § 20, RMLD employees and RMLD Board of Commissioner members and both of their immediate families shall not be eligible to purchase or otherwise receive RMLD surplus property regardless of price or method of disposal used. This prohibition also applies to competitive solicitation processes.

IX. ADMINISTRATIVE REVIEW AND REPORTING

All disposals other than scrap material having no tangible resale or salvage value shall require the administrative review of the General Manager. The General Manager may require any additional reviews and approvals as the General Manager deems necessary, in his or her discretion. The General Manager shall make reports monthly on the disposal of surplus having Substantial Value to the RMLD Board of Commissioners.

**RMLD Policy No. 9
PROCUREMENT**

Revision No.4

Commission Vote/Effective Date _____

General Manager/Date

Next Review Date

I. APPLICABILITY and PURPOSE

- A. This policy applies to the procurement of goods and services by the Reading Municipal Light Department (“RMLD”), except for power supplies and public construction materials and services subject to G.L. c. 30, § 39M or G.L. c. 149. This policy also does not apply to the hiring of labor relations representatives, lawyers, designers, certified public accountants or other professional services that are exempt under G.L. c. 30B. This policy applies to all RMLD employees and commissioners and Citizens Advisory Committee (“CAB”) members.

- B. The purpose of this policy is to implement good business practices to ensure that RMLD’s procurements are cost efficient, timely, meet the needs of RMLD, and comply with applicable laws.

II. AUTHORITY

The RMLD Board of Commissioners shall be given the opportunity to review and comment on all procurements proposed to be conducted under this Policy No. 9 having an estimated value in excess of \$25,000 for electric equipment procured hereunder and in accordance with G.L. c. 164, § 56D and \$35,000 for other equipment and services. However, if the General Manager determines that an emergency involving the health, safety or welfare of the people or their property exists, then the RMLD may proceed with an emergency procurement hereunder without first affording the Board of Commissioners the opportunity to review and comment on such procurement. The General Manager shall report the circumstances of all such emergencies and the details of all such emergency procurements to the Board of Commissioners as soon as reasonably practicable.

The General Manager, or her designee, shall approve all pricing and terms and conditions of all RMLD procurement contracts. RMLD may develop and use standard terms and conditions which have been preapproved by the General Manager.

III. VENDOR RELATIONS

A. Objective

It is recognized that vendors establish working relationships with RMLD employees and that these relationships are beneficial to both RMLD and the vendor. The RMLD must ensure that these relationships do not result in excessive costs to RMLD or in loss of a resource due to improper business practices.

B. Notice to Materials Manager

If an employee intends to meet with a vendor to discuss ongoing or future projects and the discussion may involve prices, terms or conditions, the employee shall notify the Materials Manager. The Materials Manager or designated representative will attend the meeting if necessary.

C. Code of Conduct

The RMLD has a zero tolerance policy. This means no RMLD employee, RMLD Board member or CAB member may accept gifts from vendors or prospective vendors, or as otherwise proscribed by G.L. c. 268A.

Massachusetts General Laws, Chapter 268A, is the primary law relating to conflict of interest for public employees. All employees need to be aware of the laws and regulations governing dealings with vendors and as they apply to conduct in other areas as well. It is the policy of the RMLD to maintain the highest level of integrity in dealings with vendors and the public on any level.

No RMLD employee, RMLD Board member or CAB member may solicit or accept, directly or indirectly, any gift, gratuity, favor, entertainment, loan, or other item in violation of G.L. c. 268A. RMLD also prohibits the solicitation or acceptance of any gift or gratuity regardless of monetary value from a person, public agency, or private entity that:

1. Has had, has, or is seeking to obtain a contractual or other business or financial relationship with the RMLD.
2. Conducts or is seeking to conduct business or activities that are regulated or monitored by the RMLD; or
3. Has interests that are or may give the reasonable impression of being substantially affected by the performance or nonperformance of an individual's official duties.

IV. VENDOR LISTS

RMLD will prepare and maintain lists of responsible vendors to facilitate the procurement process. A responsible vendor is one who has the demonstrated ability, capacity, and integrity to provide the desired goods or services as determined by RMLD based on prior dealings with RMLD, references and/or other information obtained by RMLD.

A. Obtaining Responsible Vendor Status

1. Prior to adding a vendor to the RMLD vendor list, RMLD will obtain complete vendor company and contact information. Information may include business and client references as well as qualifications, licenses, and bonds, as applicable.
2. RMLD also will check the Commonwealth's debarred vendor lists to ensure that the vendor is in good standing.
3. Depending on the bid amount, a vendor may also be asked to submit the following certifications or affirmations:
 - a. A statement that no RMLD employee, RMLD Board member, or CAB member, is a participant in, owner of, or receives a benefit from business dealings with the RMLD.
 - b. A statement that the vendor will not furnish or provide any RMLD Board member, CAB Member, or employee directly or indirectly, any gift, gratuity, favor, entertainment, loan, or other item of monetary value.
 - c. Certifications regarding tax compliance, the Fair Labor Standards Act ("FLSA") and/or wage rates.
 - d. Certification of Non-Collusion in submission of quotations and bids.
 - e. Acknowledgement of understanding of the laws of the Commonwealth and RMLD Policies as they apply to the conduct of business with the RMLD and affirmation to comply with those laws and RMLD Policies.

B. Preparation and Review

The Materials Manager shall be responsible for preparing and maintaining the vendor lists. The vendor list shall be subject to the General Manager's review and approval.

V. PROCUREMENT PROCESS

A. Electric Equipment

RMLD shall use sound business practices to procure transmission and distribution equipment. The particular process utilized will depend on the required specifications for the equipment, availability of responsible vendors for specialized equipment, when such equipment is needed and lead time for delivery, among other factors. When the estimated cost of the purchase is \$25,000 or more, the purchase shall first be advertised in accordance with G.L. c. 164, § 56D unless an emergency involving the health, safety or welfare of the people or their property is deemed to exist in which case no advertisement shall be required. Such advertisement shall state the time and place for opening the proposals and shall reserve to RMLD the right to reject any or all such proposals. All such proposals shall be opened in public. No bill or contract shall be split or divided for the purpose of evading the advertising requirements set forth in G.L. c. 164, § 56D. In addition, RMLD may provide direct notice of the procurement to applicable vendors on RMLD's vendor list.

B. Other Equipment and Services

To the extent practicable, RMLD will follow the procedures set forth G.L. c. 30B. This policy shall not be construed as an acceptance of G.L. c. 30B, as set forth in G.L. c. 30B, § 1(b)(14). The following Guidelines shall be used when prices are being solicited from a vendor:

1. Purchases under \$10,000.00 will be made using sound business practices.
2. Purchases between \$10,000.00 and \$34,999.00 shall be made from a statewide contract or after the solicitation of three (3) quotations, if reasonably available, which may be oral or written. If oral quotations are solicited, the following information shall be recorded and retained by RMLD: the names and addresses of all persons from whom quotations were sought, the names of the persons submitting quotations and the date and amount of each quotation. The contract will be awarded to the responsible vendor who can provide the goods or services in a timely manner at the lowest cost.
3. Purchases estimated to exceed \$35,000.00 shall be made from a statewide contract or after a formal, competitive sealed bid or proposal procedure or a reverse auction. If a competitive solicitation or reverse auction is used, RMLD will follow the applicable procedures set forth in G.L. c. 30B, §§ 5, 6, or 6A, and the advertising requirements set forth in G.L. c.

164, § 56D. The competitive solicitation procedures may be waived by the General Manager when an emergency involving the health, safety or welfare of the people or their property is deemed to exist.

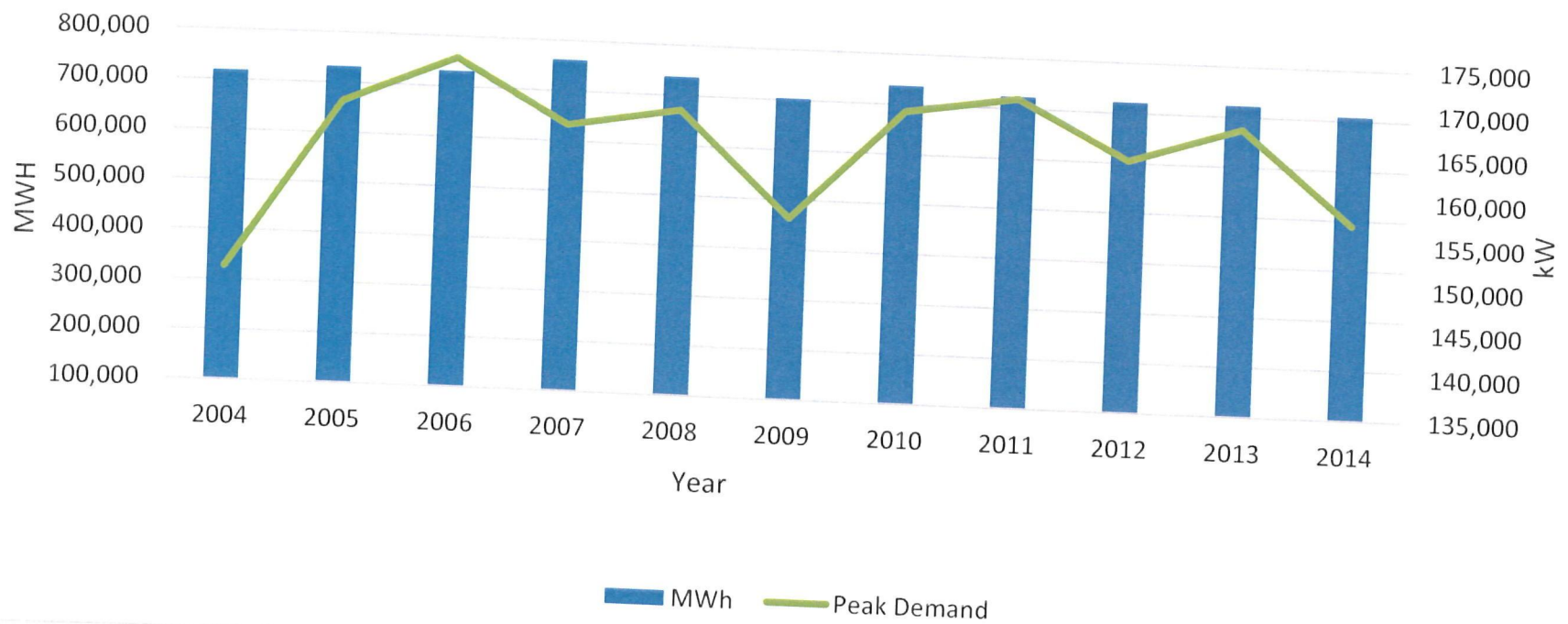
4. Vendors should be made aware that any purchase orders or contracts are subject to RMLD standard Terms and Conditions, and/or the Terms and Conditions set forth in the RMLD Goods and Services contract and are in effect unless otherwise agreed to by the General Manager.

VI. Records

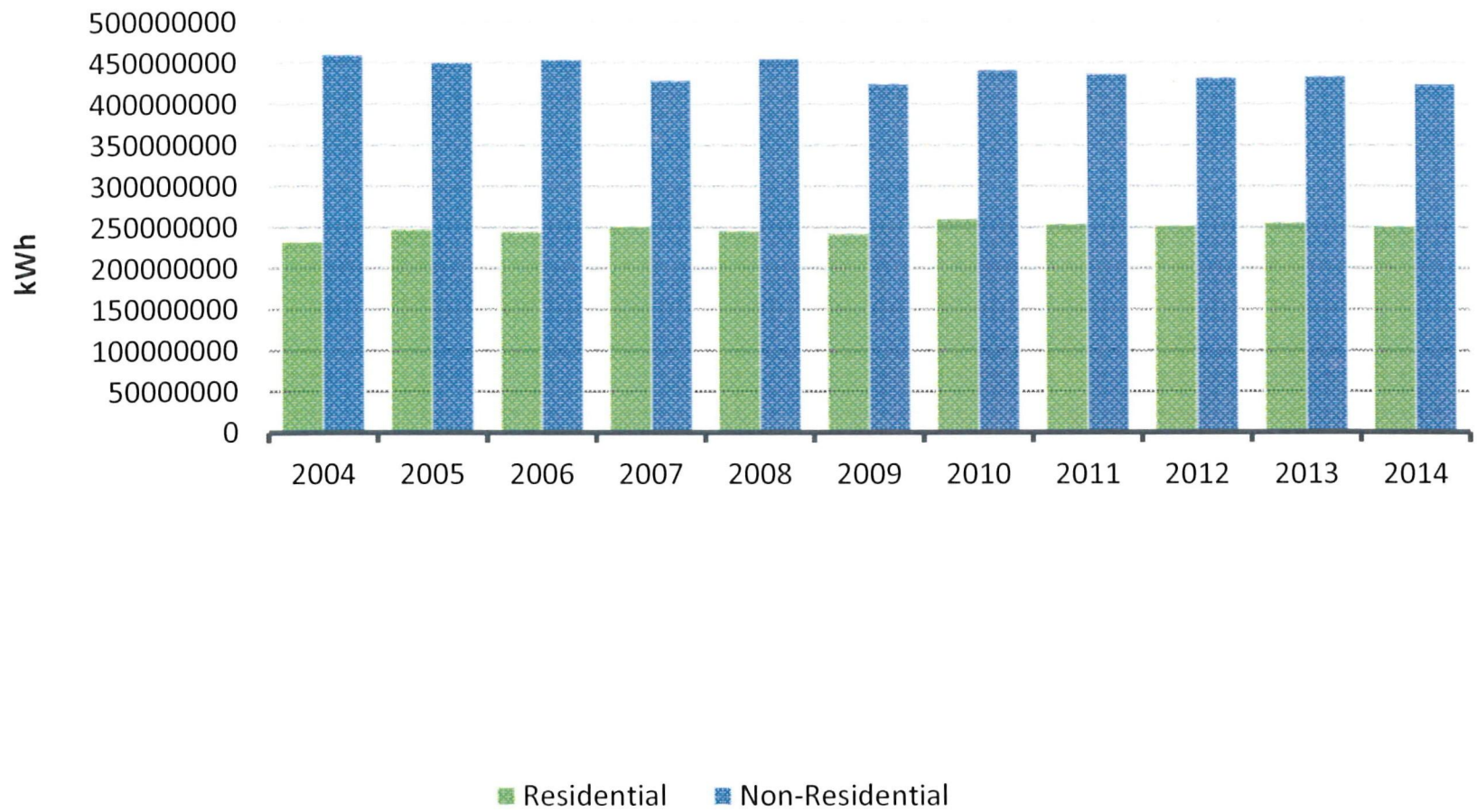
Records of all solicitations shall be kept and must be furnished to the Materials Manager. Such information may be used for subsequent contracts or purchase orders. All contract information on all purchases of \$5,000.00 and over as required by G.L 164 § 56C will be maintained by the Materials Manager as per agreement with the Reading Town Manager and Town Accountant.

POWER SUPPLY REPORT
ATTACHMENT 4

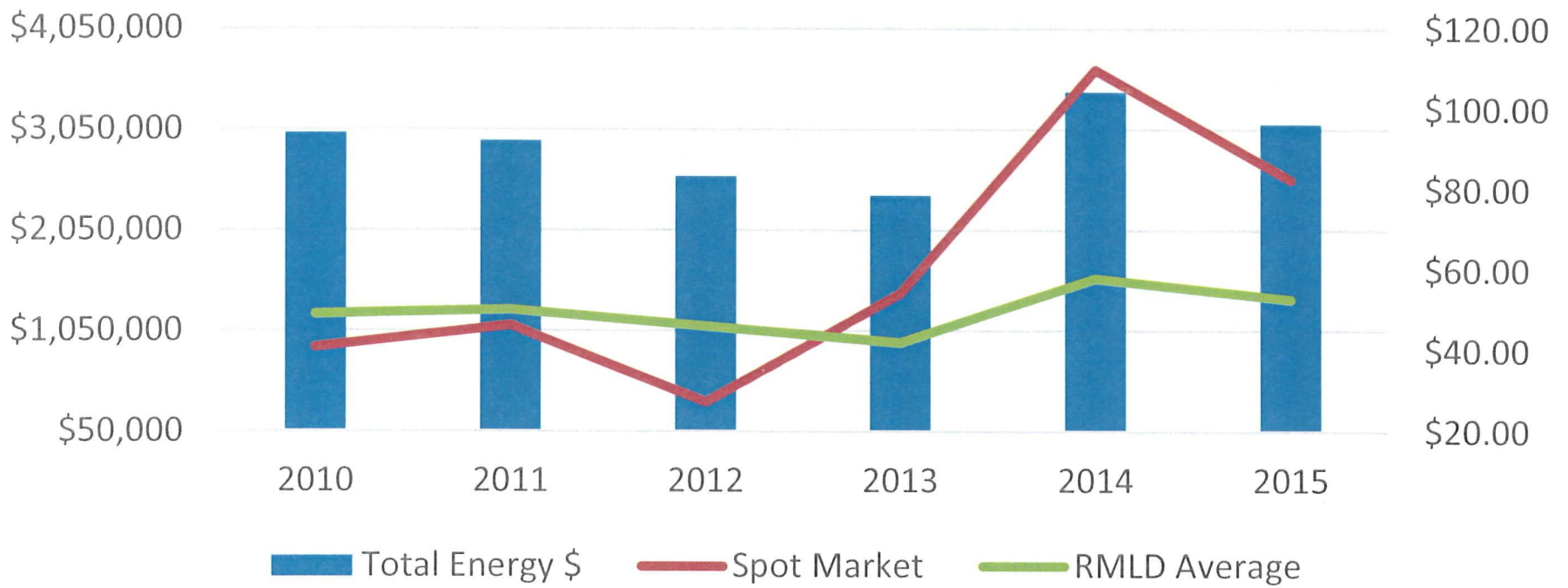
Annual Purchases vs. Peak Demand 2004 - 2014



Residential vs. Non Residential kWh Sales 2004 - 2014



**Purchases, Spot Market and RMLD Average Cost
March
2010 - 2015**



To: Coleen O'Brien

From:  Maureen McHugh, Jane Parenteau 

Date: May 4, 2015

Subject: Purchase Power Summary – March, 2015

Energy Services Division (ESD) has completed the Purchase Power Summary for the month of March, 2015.

ENERGY

The RMLD's total metered load for the month was 58,913,664 kWh, which is a .18% decrease from the March, 2014 figures.

Table 1 is a breakdown by source of the energy purchases.

Table 1

Resource	Amount of Energy (kWh)	Cost of Energy (\$/Mwh)	% of Total Energy	Total \$ Costs	\$ as a %
Millstone #3	3,713,826	\$6.73	6.30%	\$24,997	0.81%
Seabrook	5,885,917	\$6.69	9.99%	\$39,354	1.27%
Stonybrook Intermediate	41,625	\$420.90	0.07%	\$17,520	0.56%
Shell Energy	7,148,480	\$69.05	12.13%	\$493,614	15.91%
NextEra	7,402,000	\$55.84	12.56%	\$413,344	13.33%
NYPA	2,477,148	\$4.92	4.20%	\$12,188	0.39%
ISO Interchange	13,600,017	\$82.50	23.08%	\$1,122,066	36.17%
NEMA Congestion	0	\$0.00	0.00%	-\$87,813	-2.83%
Coop Resales	11,370	\$161.69	0.02%	\$1,838	0.06%
BP Energy	7,881,830	\$47.73	13.38%	\$376,200	12.13%
Summit Hydro/Collins/Pioneer	2,824,890	\$71.75	4.79%	\$202,679	6.53%
Braintree Watson Unit	214,549	\$434.20	0.36%	\$93,156	3.00%
Swift River Projects	1,182,078	\$99.75	2.01%	\$117,911	3.80%
Exelon	6,541,480	\$42.02	11.10%	\$274,851	8.86%
Stonybrook Peaking	0	\$0.00	0.00%	\$0	0.00%
Monthly Total	58,925,210	\$52.64	100.00%	\$3,101,904	100.00%

Table 2 breaks down the ISO interchange between the DA LMP Settlement and the RT Net Energy for the month of March, 2015.

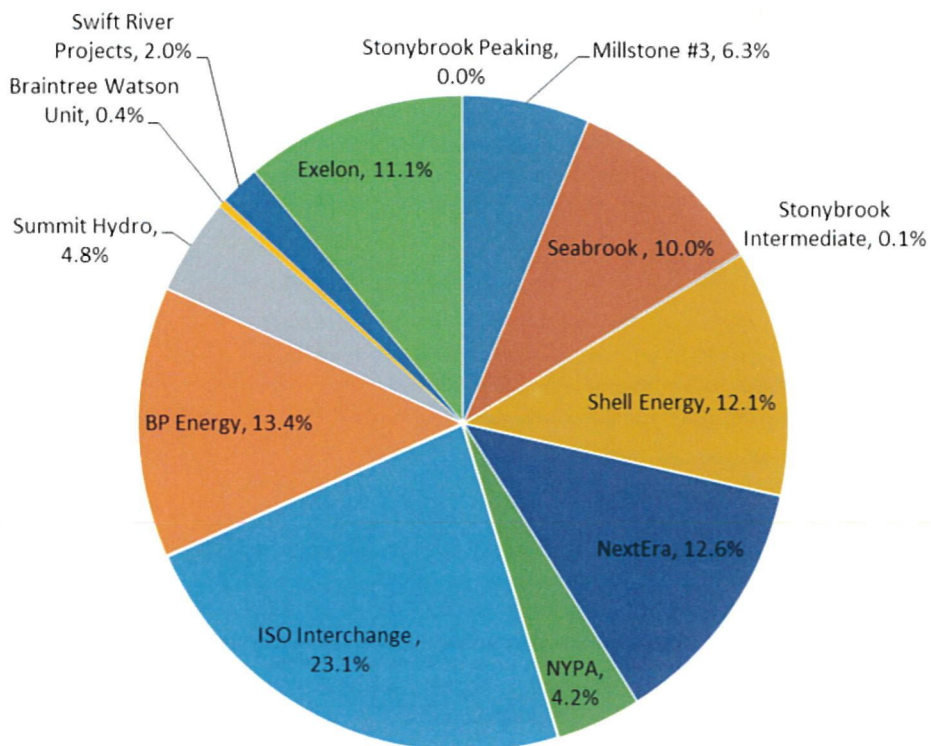
Table 2

Resource	Amount of Energy (kWh)	Cost of Energy (\$/Mwh)	% of Total Energy
ISO DA LMP * Settlement	15,551,817	77.75	26.39%
RT Net Energy ** Settlement	-1,951,799	44.66	-3.31%
ISO Interchange (subtotal)	13,600,017	82.50	23.08%

* Independent System Operator Day-Ahead Locational Marginal Price

** Real Time Net Energy

MARCH 2015 ENERGY BY RESOURCE



RENEWABLE ENERGY CERTIFICATES (RECs)

Table 5 shows the amount of banked and projected RECs for the Swift River Hydro Projects through March 2015, as well as their estimated market value.

Table 5
Swift River RECs Summary
Period - July 2014 - March 2015

	Banked RECs	Projected RECs	Total RECs	Est. Dollars
Woronoco	1,129	838	1,967	\$94,416
Pepperell	2,798	1,940	4,738	\$227,424
Indian River	1,619	817	2,436	\$116,928
Turners Falls	<u>1,859</u>	<u>133</u>	<u>1,992</u>	<u>\$0</u>
Sub total	7,405	3,728	11,133	\$438,768
RECs Sold			0	\$0
Grand Total	7,405	3,728	11,133	\$438,768

TRANSMISSION

The RMLD's total transmission costs for the month of March, 2015 were \$987,624. This is an increase of 4.29% from the February transmission cost of \$947,036. In March, 2014 the transmission costs were \$892,962.

Table 6

	Current Month	Last Month	Last Year
Peak Demand (kW)	102,366	108,841	104,839
Energy (kWh)	58,925,210	57,903,974	59,029,265
Energy (\$)	\$3,101,904	\$3,579,980	\$3,420,919
Capacity (\$)	\$1,463,262	\$1,491,533	\$1,426,844
Transmission(\$)	\$987,624	\$947,036	\$892,962
Total	\$5,552,790	\$6,018,549	\$5,740,725

ENERGY EFFICIENCY

Table 7 shows the comprehensive results from the Energy Conservation program. The amount of savings is broken down by both demand and energy for the Commercial and Residential sectors.

Table 7				Total \$		Total		Total \$			
Commercial	Year	Capacity Saved (kW)	Energy Saved (kwh)	Capacity	\$/kW	Energy	\$/kWh	Rebate	Rebate/kWh	Rebate/kW	Cost Benefit
Total to date	FY07-14	16,169	63,959,276	\$ 1,561,065		3,543,375		\$ 1,732,385	\$ 0.03	\$ 107.14	\$ 3,372,054
Current	FY15	309	1,006,251	\$ 42,473	\$11.45	60,375	\$ 0.06	\$ 214,024	\$ 0.21	\$ 692.36	\$ (111,176)
Residential											
Total to date	FY07-14	2,609	2,252,774	\$ 257,422		117,229		\$ 718,531	\$ 0.32	\$ 275.42	\$ (343,881)
Current	FY15	217	122,826	\$ 29,827	\$11.45	7,370	\$ 0.06	\$ 102,520	\$ 0.83	\$ 472.26	\$ (65,323)
Total											
Total to date	FY07-14	18,778	66,212,049	\$ 1,818,487		3,660,603		\$ 2,475,916	\$ 0.04	\$ 131.85	\$ 3,003,174
Current	FY15	526	1,129,077	\$ 72,300	\$11.45	67,745	\$ 0.06	\$ 316,544	\$ 0.28	\$ 601.56	\$ (176,499)

Table 8 shows the breakdown for residential appliance rebates by type and year.

Table 8																								
Year	Washing Machine		Refrigerator		Dishwasher		Dehumidifier		Central A/C		Window A/C		Thermostat		Audits		Renewable		Air Source Heat Pump		HP Water Heater		Fan	
	QTY	Dollars	QTY	Dollars	QTY	Dollars	QTY	Dollars	QTY	Dollars	QTY	Dollars	QTY	Dollars	QTY	Dollars	QTY	Dollars	QTY	Dollars	QTY	Dollars	QTY	Dollars
2007																								
2008	86	\$ 4,300	47	\$ 2,350	55	\$ 2,750	7	\$ 175	17	\$ 1,700	10	\$ 250	23	\$ 230	107	\$ 14,940								
2009	406	\$ 20,300	259	\$ 12,950	235	\$ 11,750	40	\$ 1,000	41	\$ 4,100	50	\$ 1,250	114	\$ 1,140	107	\$ 14,940								
2010	519	\$ 25,950	371	\$ 18,550	382	\$ 19,100	37	\$ 925	64	\$ 6,400	49	\$ 1,225	127	\$ 1,270	64	\$ 8,960	6	\$ 20,700						
2011	425	\$ 21,250	383	\$ 19,150	313	\$ 15,650	47	\$ 1,175	57	\$ 5,700	65	\$ 1,625	118	\$ 1,180	180	\$ 26,960	4	\$ 18,000						
2012	339	\$ 16,950	354	\$ 17,700	289	\$ 14,450	38	\$ 950	44	\$ 4,400	56	\$ 1,400	105	\$ 1,050	219	\$ 32,731	3	\$ 14,000			9	\$ 2,250	3	\$ 30
2013	285	\$ 14,250	336	\$ 16,800	311	\$ 15,550	29	\$ 725	24	\$ 2,400	54	\$ 1,350	57	\$ 570	375	\$ 75,000	3	\$ 15,000	\$ 19	\$ 1,900	4	\$ 1,000	5	\$ 50
2014	322	\$ 16,100	333	\$ 16,650	298	\$ 14,900	27	\$ 675	38	\$ 3,800	76	\$ 1,900	83	\$ 1,245	363	\$ 72,600	4	\$ 17,250	\$ 20	\$ 2,000	11	\$ 2,750	7	\$ 70
2015	189	\$ 9,450	196	\$ 9,800	201	\$ 10,050	19	\$ 475	24	\$ 2,400	28	\$ 700	35	\$ 525	231	\$ 46,200	7	\$ 19,000	\$ 19	\$ 1,900	8	\$ 2,000	2	\$ 20
Total	2571	\$ 128,550	2279	\$ 113,950	2084	\$ 104,200	244	\$ 6,100	309	\$ 30,900	388	\$ 9,700	662	\$ 7,210	1646	\$ 292,331	27	\$ 103,950	58	\$ 5,800	32	\$ 8,000	17	\$ 170

ENGINEERING AND REPORT
ATTACHMENT 5



Engineering & Operations Report

May 14, 2015

For March 2015 Reporting Period

Hamid Jaffari, Director of Engineering & Operations



Capital Improvement Projects

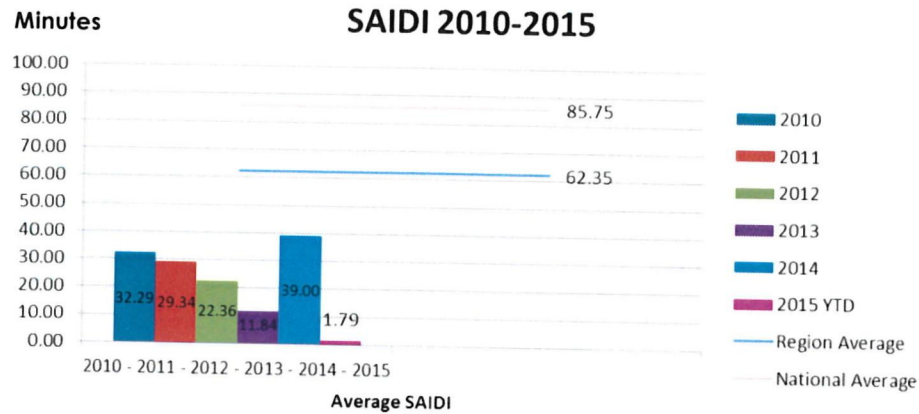
- Pole Line Upgrade – Lowell Street Wilmington
- Step-down Area Upgrades – All Towns
- Service Installations – Commercial/Industrial
- Service Installations – Residential
- Substation Test Equipment
- ARC Flash Study
- SCADA System Upgrades
- Station 5 RTU Replacement
- Routine Construction



Routine Maintenance

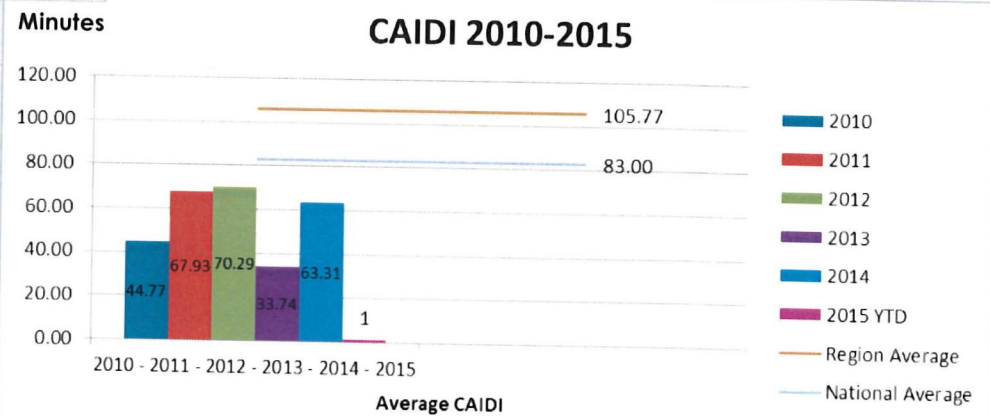
- ▶ Transformer Replacement
- ▶ Pole Inspection
- ▶ Visual Inspection of OH Lines
- ▶ Manhole Inspection
- ▶ Porcelain Cutout Replacement
- ▶ Substation Maintenance
 - ▶ Infrared Scanning
- ▶ Tree Trimming

Reliability exceeds regional and local indices . . .

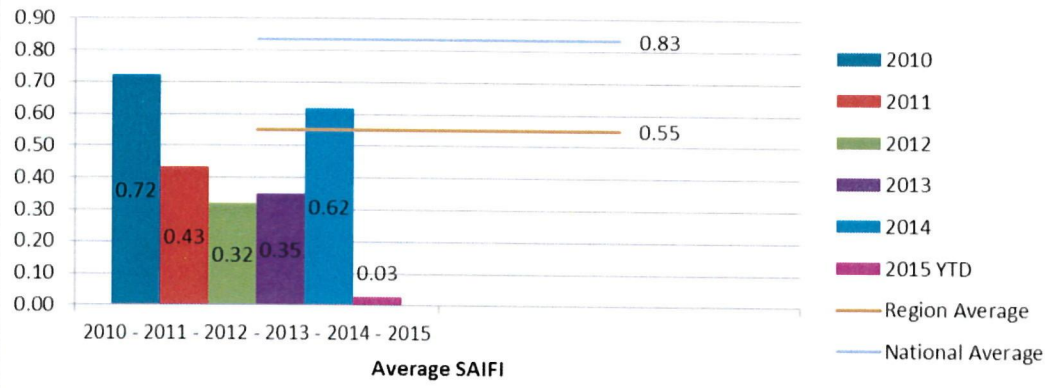


$$SAIDI (Minutes) = \frac{\text{Total Duration of Customer Interruptions}}{\text{Total Number of Customers Served}}$$

$$CAIDI (Minutes) = \frac{\text{Total Duration of Customer Interruptions}}{\text{Total Number of Customers Interruptions}}$$

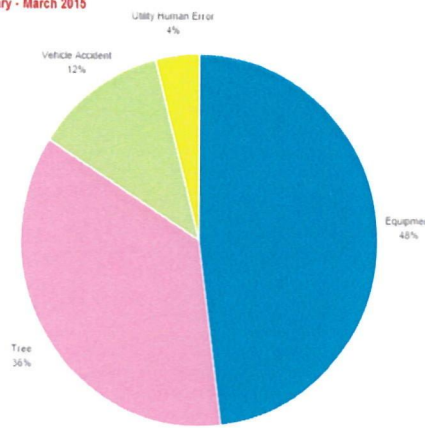


SAIFI 2010-2015



$$SAIFI = \frac{\text{Total Number of Customer Interruptions}}{\text{Total Number of Customers Served}}$$

January - March 2015



Outage Cause	Count
Equipment	12
Tree	9
Vehicle Accident	3
Utility Human Error	1
Total	25

Questions ?



**READING MUNICIPAL LIGHT DEPARTMENT
FY 15 CAPITAL BUDGET VARIANCE REPORT
FOR PERIOD ENDING MARCH 31, 2015**

PROJ	DESCRIPTION	TOWN	ACTUAL COST MAR	YTD ADDITIONS	ANNUAL BUDGET	REMAINING BALANCE
CONSTRUCTION:						
101	5W9 Reconductoring - Ballardvale Area	W		11,586	253,000	241,414
102	Pole Line Upgrade Lowell Street	W	17,929	79,371	173,000	93,630
104	Upgrade Old Lynnfield Center URDs (Cook's Farm)	LC		56,087	217,000	160,913
105	4W5 - 4W6 Tie	R			70,000	70,000
106	URD Upgrades	ALL		51,425	319,000	267,575
107	Step-down Area Upgrades	ALL	21,286	60,872	203,000	142,128
212	Force Account West Street	R			224,000	224,000
	SUB-TOTAL		39,215	259,341	1,459,000	1,199,660
STATION UPGRADES:						
108	Relay Replacement Project - Gaw Station #4	R			50,000	50,000
* 110	Station 3 - Replacement of Service Cutouts	NR		2,192		
130	Remote Terminal Unit (RTU) Replacement - Station 3	NR			85,000	85,000
810	Station 5 RTU Replacement	W	2,884	2,884	-	(2,884)
	SUB-TOTAL		2,884	5,076	135,000	132,116
NEW CUSTOMER SERVICES:						
112	New Service Installations (Commercial / Industrial)	ALL		12,465	57,000	44,535
113	New Service Installations (Residential)	ALL	4,280	97,760	260,000	162,240
	SUB-TOTAL		4,280	110,225	317,000	206,775
ROUTINE CONSTRUCTION:						
114	Routine Construction	ALL	147,322	1,381,518	947,000	(434,518)
SPECIAL PROJECTS / CAPITAL PURCHASES:						
103	Distribution Protection and Automation	ALL			69,000	69,000
116	Transformers and Capacitors	ALL		144,980	444,000	299,020
117	Meter Purchases (including "500 Club")	ALL		55,171	127,000	71,829
122	Engineering Analysis Software and Data Conversion	ALL			55,000	55,000
125	GIS	ALL	-	-	150,000	150,000
126	Communication Equipment (Fiber Optic)	ALL		4,700	30,000	25,300
* 131	LED Street Light Pilot Program	ALL		26,250	37,000	10,751
132	Outage Management Software and Integration	ALL			85,000	85,000
133	Predictive Asset Management Program	ALL			80,000	80,000
134	Substation Test Equipment	ALL	82,025	82,025	121,000	38,975
135	Arc Flash Study	ALL	2,092	2,092	35,000	32,908
137	SCADA System Upgrade - Hardware	ALL	15,949	36,281	63,000	26,719
	SUB-TOTAL		100,066	351,499	1,296,000	944,502
OTHER CAPITAL PROJECTS:						
118	Rolling Stock Replacement	ALL			434,000	434,000
119	Security Upgrades All Sites	ALL	5,012	22,265	61,000	38,735
120	Great Plains / Cogsdale Upgrade	ALL	7,093	46,443	350,000	303,557
121	HVAC System Upgrade - 230 Ash Street	R		10,900	399,000	388,100
123	Oil Containment Facility Construction	LC		11,168	80,000	68,832
127	Hardware Upgrades	ALL	6,805	35,192	102,000	66,808
128	Software and Licensing	ALL	39,971	68,287	122,000	53,713
129	Master Facilities Site Plan	R			50,000	50,000
136	Organizational / Reliability Studies	ALL	64,436	64,436	100,000	35,564
	SUB-TOTAL		123,317	258,691	1,698,000	1,439,309
TOTAL CAPITAL BUDGET			\$ 417,084	\$ 2,366,349	\$ 5,852,000	\$ 3,487,843

* completed project

READING MUNICIPAL LIGHT DEPARTMENT

**Engineering and Operations
Monthly Report**

March 2015

CAPITAL IMPROVEMENTS

Construction Projects:		% Complete FY14-15 Status	Month	YTD
102	Pole Line Upgrade- Lowell Street, Wilmington • Construction has begun (as of 1/14/15).	35%	\$17,929	\$79,371
107	Step-down Area Upgrades – All Towns • Vine Street Area, Reading	On-going	\$21,286	\$60,872
New Customer Service Connections:				
112	Service Installations – Commercial/Industrial:	On-going		\$12,465
113	Service Installations – Residential: This item includes new or upgraded overhead and underground services.	On-going	\$4,280	\$97,760
Special Projects/Capital Purchases:				
134	Substation Test Equipment	100%	\$82,025	\$82,025
135	ARC Flash Study	100%	\$2,092	\$2,092
137	SCADA System Upgrades	100%	\$15,949	\$36,281
810	Station 5 RTU Replacement	100%	\$2,884	\$2,884

ROUTINE CONSTRUCTION:	MAR	YTD
Pole Setting/Transfers	56,133	317,599
Overhead/Underground	29,935	385,899
Projects Assigned as Required • Fiber Framing	16,406	236,599
Pole Damage/Knockdowns • Work was done to repair or replace three (3) poles	4,383	37,989
Station Group		97,532
Hazmat/Oil Spills		3,831
Porcelain Cutout Replacement Program	16,549	24,519
Lighting (Street Light Connections)	2,629	20,414
Storm Trouble	0	34,702
Underground Subdivisions (new construction)	0	47,434
Animal Guard Installation	0	5,812
Miscellaneous Capital Costs	21,287	169,189
TOTAL:	<u>\$ 147,322</u>	<u>\$ 1,381,518</u>

MAINTENANCE PROGRAMS

Aged/Overloaded Transformer Replacement through March 31, 2015

Padmount:

Single-Phase: 11.69% replaced (of those over 20 years old)

Three-Phase: 6.41% replaced (of those over 20 years old)

Overhead:

Single-Phase: 9.23% replaced (of those over 20 years old)

Three-Phase: 3.33% replaced (of those over 20 years old)

Pole Testing System-wide (600-1,000 poles/year) (as of 5/6/15)

Year-one inspection complete: 645 poles tested (~10%)

- 390 silver tag (PASSED)
- 233 red tag (FAILED): **76 have been replaced**
- 22 double red tag (CONDEMNED): **22 have been replaced**

29 of 98 transfers have been completed

13.8kV/35kV Feeders – Quarterly Inspections

5W8, 5W9, 5W4, 5W5, 4W7, 4W23, 3W8, 3W18, 3W6, 3W13, 3W5, 3W15, 4W5, 4W6, 4W13, 4W10, 4W12, 4W16

Miscellaneous branches and vines were found and removed.

Manhole Inspections

Pending.

Porcelain Cutout Replacements (with Polymer)

As of March 31, 2015, there are 284 remaining porcelain cutouts to be replaced. 90% complete.

Substations:

Infrared Scanning (Monthly)

Station 3 Scanning complete through March – no hot spots found

Station 4 Scanning complete through March – no hot spots found

Station 5 Scanning complete through March – no hot spots found

Substation Maintenance Program

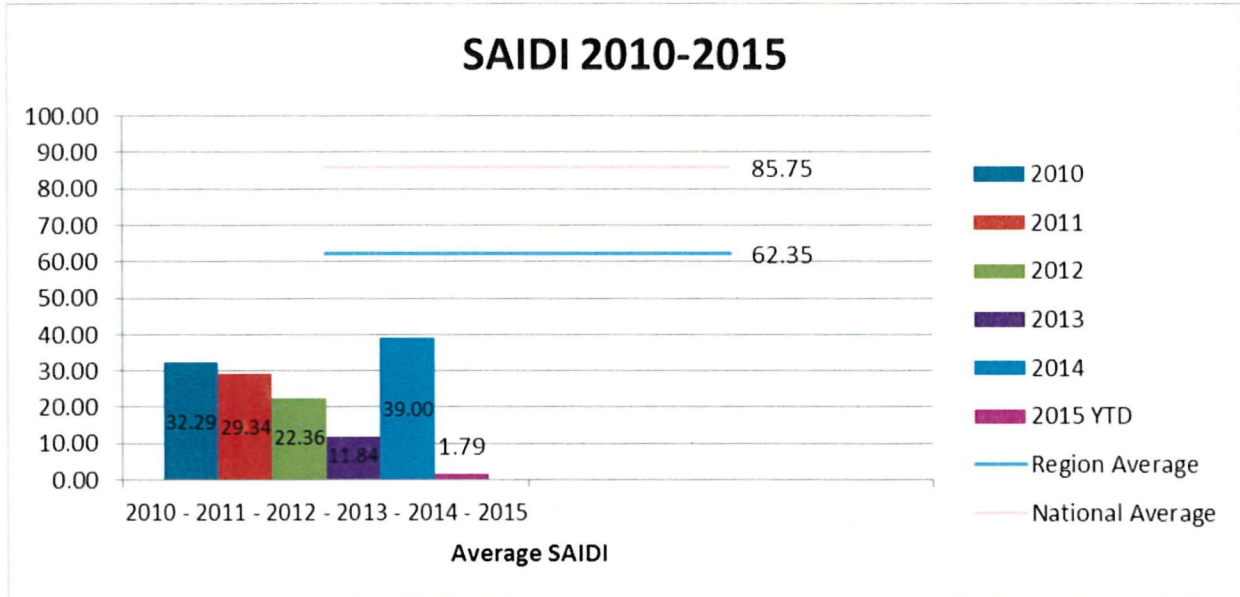
- *Inspection of all three stations by UPG in progress. 100% complete*
-

SYSTEM RELIABILITY

Key industry standard metrics have been identified to enable the RMLD to measure and track system reliability.

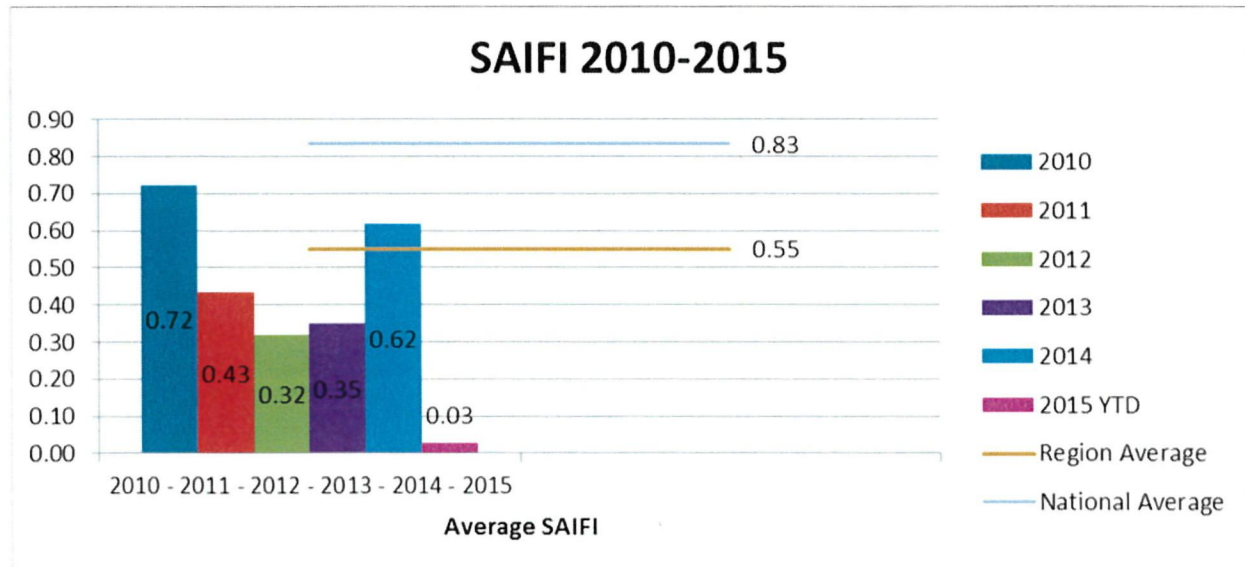
SAIDI (System Average Interruption Duration Index) is defined as the average interruption duration (in minutes) for customers served by the utility system during a specific time period.

SAIDI = the sum of all customer interruption durations within the specified time frame ÷ by the average number of customers served during that period.



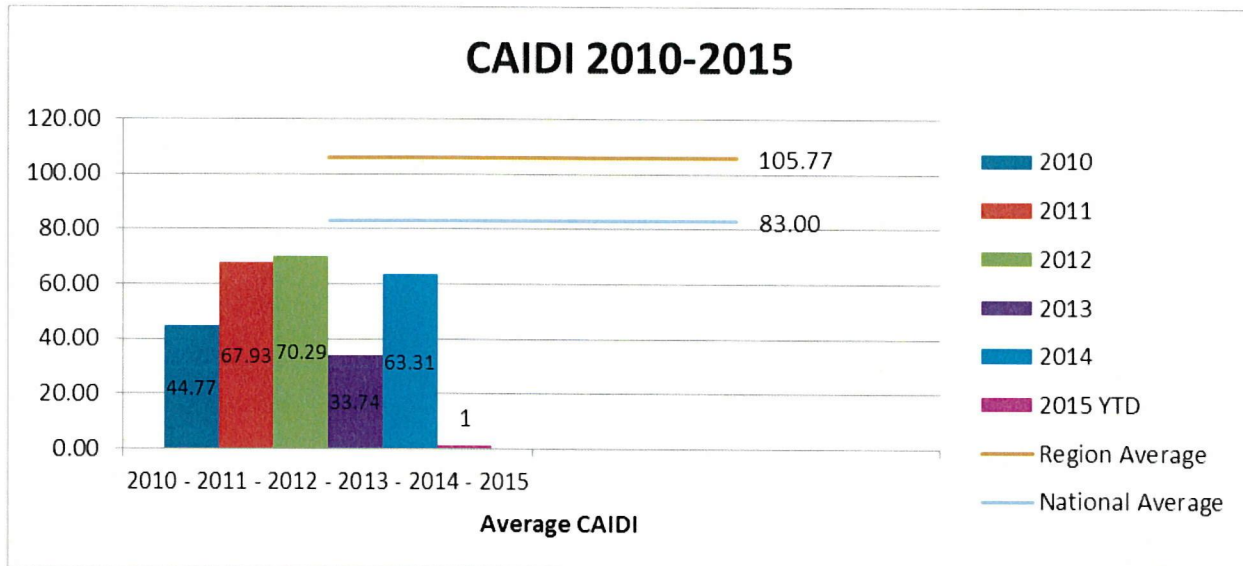
SAIFI (System Average Interruption Frequency) is defined as the average number of instances a customer on the utility system will experience an interruption during a specific time period.

SAIFI = the total number of customer interruptions ÷ average number of customers served during that period.



CAIDI (Customer Average Interruption Duration Index) is defined as the average duration (in minutes) of an interruption experienced by customers during a specific time frame.

CAIDI = the sum of all customer interruption durations during that time period ÷ the number of customers that experienced one or more interruptions during that time period.

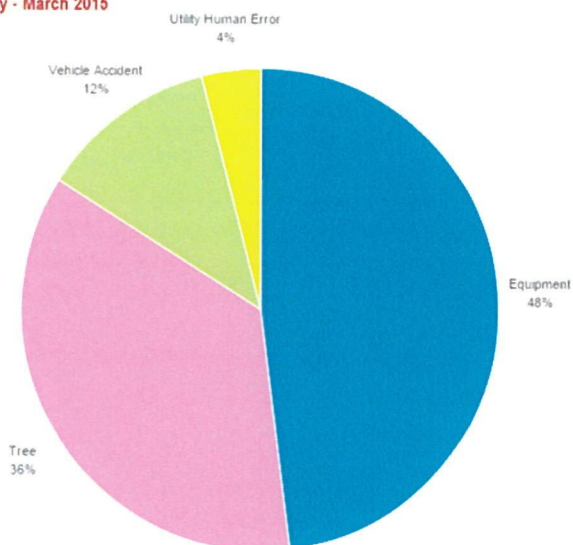


This metric reflects the average customer experience (minutes of duration) during an outage.

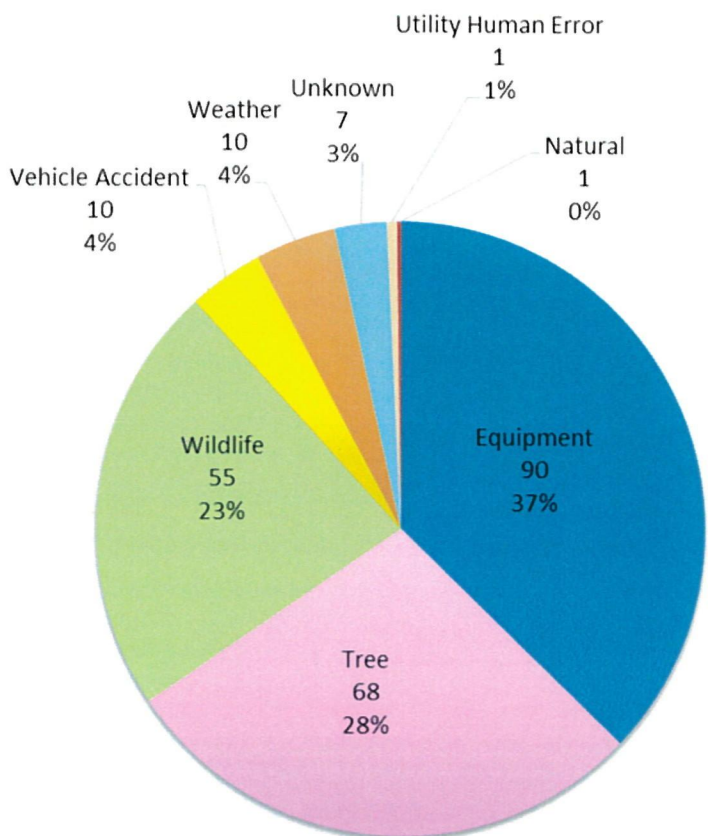
Note: Since SAIDI, SAIFI and CAIDI are sustained interruption indices; only outages lasting longer than one minute are included in the calculations.

Outages Causes Calendar YTD (from eReliability website)

January - March 2015



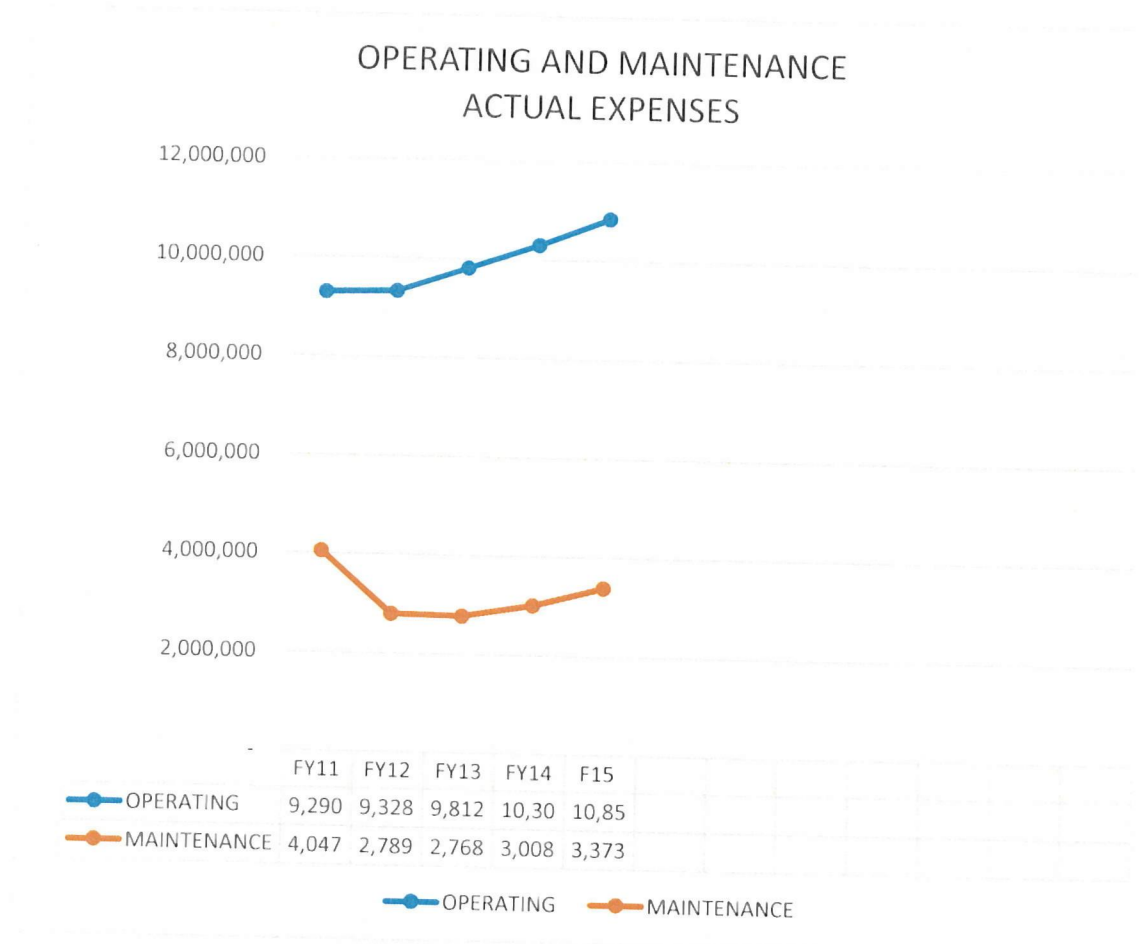
Outage Cause	Count
Equipment	12
Tree	9
Vehicle Accident	3
Utility Human Error	1
Total	25



Outage Causes
Annual Average 2010-2015

- Equipment
- Tree
- Wildlife
- Vehicle Accident
- Weather
- Unknown
- Utility Human Error
- Natural

FINANCIAL REPORT
ATTACHMENT 6



Dt: May 5, 2015

To: RMLB, Coleen O'Brien, Jeanne Foti

Fr: Bob Fournier

Sj: March 31, 2015 Report

The results for the first nine months ending March 31, 2015, for the fiscal year 2015 will be summarized in the following paragraphs.

1) Change in Net Assets: (Page 3A)

*For the month of March, the net loss or the negative change in net assets was \$817,072 decreasing the year to date net income to \$1,957,387. The year to date budgeted net income was \$1,595,375, resulting in net income being over budget by \$362,012 or 22.7%. Actual year to date fuel expenses exceeded fuel revenues by \$528,071 and purchased power capacity and transmission (ppct) revenues exceed ppct expenses by \$680,901.

2) Revenues: (Page 3A)

*Year to date base revenues were under budget by \$367,498 or 2.18%. Actual base revenues were \$16.4 million compared to the budgeted amount of \$16.8 million.

3) Expenses: (Page 12A)

*Year to date purchased power base expense was over budget by \$506,010 or 2.3%. Actual purchased power base costs were 22.0 million and budgeted power base costs were \$21.5 million.

*Year to date operating and maintenance (O&M) expenses combined were over budget by \$28,274 or .27%. Actual O&M expenses and budgeted expenses were at \$10.6 million.

*Depreciation expense and voluntary payments to the Towns were on budget.

4) Cash: (Page 9)

- *Operating Fund was at \$11,725,347.
- * Capital Fund balance was at \$5,738,974.
- * Rate Stabilization Fund was at \$6,759,552.
- * Deferred Fuel Fund was at \$3,604,623.
- * Energy Conservation Fund was at \$584,792.

5) General Information:

*Year to date kwh sales (Page 5) were 528,921,813 which is 1,970,998 million kwh or .37%, behind last year's actual figure.

Budget Variance:

*Cumulatively, the five divisions were over budget by \$2,575 or .02%

FINANCIAL REPORT

MARCH 31, 2015

ISSUE DATE: MAY 4, 2015

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
BUSINESS-TYPE PROPRIETARY FUND
STATEMENT OF NET ASSETS
3/31/2015

	PREVIOUS YEAR	CURRENT YEAR
ASSETS		
CURRENT		
UNRESTRICTED CASH (SCH A P.9)	13,893,614.38	11,728,347.39
RESTRICTED CASH (SCH A P.9)	15,191,576.82	20,526,355.15
RESTRICTED INVESTMENTS (SCH A P.9)	1,250,000.00	1,292,906.26
RECEIVABLES, NET (SCH B P.10)	6,005,915.12	7,716,416.82
PREPAID EXPENSES (SCH B P.10)	943,553.46	1,900,447.64
INVENTORY	1,453,723.81	1,628,593.44
TOTAL CURRENT ASSETS	38,738,383.59	44,793,066.70
NONCURRENT		
INVESTMENT IN ASSOCIATED CO (SCH C P.2)	31,379.32	26,993.75
CAPITAL ASSETS, NET (SCH C P.2)	70,296,648.63	69,664,353.99
TOTAL NONCURRENT ASSETS	70,328,027.95	69,691,347.74
TOTAL ASSETS	109,066,411.54	114,484,414.44
 LIABILITIES		
CURRENT		
ACCOUNTS PAYABLE	7,901,585.69	6,169,828.91
CUSTOMER DEPOSITS	731,657.83	834,407.02
CUSTOMER ADVANCES FOR CONSTRUCTION	399,624.15	558,908.48
ACCRUED LIABILITIES	190,641.25	171,677.77
TOTAL CURRENT LIABILITIES	9,223,508.92	7,734,822.18
NONCURRENT		
ACCRUED EMPLOYEE COMPENSATED ABSENCES	2,885,367.88	2,918,870.73
TOTAL NONCURRENT LIABILITIES	2,885,367.88	2,918,870.73
TOTAL LIABILITIES	12,108,876.80	10,653,692.91
 NET ASSETS		
INVESTED IN CAPITAL ASSETS, NET OF RELATED DEBT	70,296,648.63	69,664,353.99
RESTRICTED FOR DEPRECIATION FUND (P.9)	4,137,612.78	5,738,974.40
UNRESTRICTED	22,523,273.33	28,427,393.14
TOTAL NET ASSETS (P.3)	96,957,534.74	103,830,721.53
TOTAL LIABILITIES AND NET ASSETS	109,066,411.54	114,484,414.44

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
NONCURRENT ASSET SCHEDULE
3/31/2015

SCHEDULE C

	PREVIOUS YEAR	CURRENT YEAR
SCHEDULE OF INVESTMENTS IN ASSOCIATED COMPANIES		
NEW ENGLAND HYDRO ELECTRIC	3,261.87	2,975.74
NEW ENGLAND HYDRO TRANSMISSION	28,117.45	24,018.01
TOTAL INVESTMENTS IN ASSOCIATED COMPANIES	31,379.32	26,993.75
SCHEDULE OF CAPITAL ASSETS		
LAND	1,265,842.23	1,265,842.23
STRUCTURES AND IMPROVEMENTS	6,430,639.92	6,306,838.38
EQUIPMENT AND FURNISHINGS	12,977,665.88	12,551,310.68
INFRASTRUCTURE	49,622,500.60	49,540,362.70
TOTAL CAPITAL ASSETS, NET	70,296,648.63	69,664,353.99
TOTAL NONCURRENT ASSETS	70,328,027.95	69,691,347.74

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
BUSINESS-TYPE PROPRIETARY FUND
STATEMENT OF REVENUES, EXPENSES AND CHANGES IN FUND NET ASSETS
3/31/2015

	MONTH LAST YEAR	MONTH CURRENT YEAR	LAST YEAR TO DATE	CURRENT YEAR TO DATE	YTD % CHANGE
OPERATING REVENUES: (SCH D P.11)					
BASE REVENUE	3,890,772.46	1,617,939.53	35,242,208.28	16,456,711.52	-53.30%
FUEL REVENUE	3,049,133.54	2,372,124.71	24,255,077.82	26,171,814.75	7.90%
PURCHASED POWER CAPACITY	170,209.37	2,394,543.72	509,434.06	22,667,928.12	4349.63%
FORFEITED DISCOUNTS	90,400.98	111,905.43	709,048.71	646,656.96	-8.80%
ENERGY CONSERVATION REVENUE	54,551.61	51,465.20	522,540.03	517,597.83	-0.95%
GAW REVENUE	14,415.68	0.00	489,669.08	0.00	-100.00%
NYPA CREDIT	(321,914.91)	(130,242.61)	(858,927.11)	(727,657.76)	-15.28%
TOTAL OPERATING REVENUES	6,947,568.73	6,417,735.98	60,869,050.87	65,733,051.42	7.99%
OPERATING EXPENSES: (SCH E P.12)					
PURCHASED POWER CAPACITY	1,426,843.70	1,463,262.28	13,136,735.11	12,825,378.23	-2.37%
PURCHASED POWER TRANSMISSION	897,755.34	951,509.01	8,700,383.05	9,161,648.07	5.30%
PURCHASED POWER FUEL	3,420,919.01	3,101,903.54	25,763,796.92	25,972,228.26	0.81%
OPERATING MAINTENANCE	820,478.90	851,655.64	7,314,220.74	8,137,944.46	11.26%
DEPRECIATION	244,128.37	288,712.09	2,144,643.09	2,530,390.24	17.99%
VOLUNTARY PAYMENTS TO TOWNS	314,969.55	321,788.79	2,834,725.95	2,896,099.11	2.17%
	116,666.67	118,000.00	1,048,517.01	1,052,754.00	0.40%
TOTAL OPERATING EXPENSES	7,241,761.54	7,096,831.35	60,943,021.87	62,576,442.37	2.68%
OPERATING INCOME	(294,192.81)	(679,095.37)	(73,971.00)	3,156,609.05	-4367.36%
NONOPERATING REVENUES (EXPENSES)					
CONTRIBUTIONS IN AID OF CONST	1,918.87	0.00	33,102.73	89,491.75	170.35%
RETURN ON INVESTMENT TO READING	(191,768.42)	(194,405.26)	(1,725,915.76)	(1,749,647.28)	1.38%
INTEREST INCOME	10,469.72	5,641.29	46,253.54	98,271.69	112.46%
INTEREST EXPENSE	(251.77)	(251.41)	(3,440.89)	(3,544.86)	3.02%
OTHER (MDSE AND AMORT)	45,164.06	51,038.49	364,327.33	366,207.02	0.52%
TOTAL NONOPERATING REV (EXP)	(134,467.54)	(137,976.89)	(1,285,673.05)	(1,199,221.68)	-6.72%
CHANGE IN NET ASSETS	(428,660.35)	(817,072.26)	(1,359,644.05)	1,957,387.37	-243.96%
NET ASSETS AT BEGINNING OF YEAR			98,317,178.79	101,873,334.16	3.62%
NET ASSETS AT END OF MARCH			96,957,534.74	103,830,721.53	7.09%

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
BUSINESS-TYPE PROPRIETARY FUND
STATEMENT OF REVENUES, EXPENSES AND CHANGES IN FUND NET ASSETS
3/31/2015

	ACTUAL YEAR TO DATE	BUDGET YEAR TO DATE	VARIANCE*	% CHANGE
OPERATING REVENUES: (SCH F P.11B)				
BASE REVENUE	16,456,711.52	16,824,210.00	(367,498.48)	-2.18%
FUEL REVENUE	26,171,814.75	28,237,970.00	(2,066,155.25)	-7.32%
PURCHASED POWER CAPACITY	22,667,928.12	22,297,499.00	370,429.12	1.66%
FORFEITED DISCOUNTS	646,656.96	850,927.00	(204,270.04)	-24.01%
ENERGY CONSERVATION REVENUE	517,597.83	529,694.00	(12,096.17)	-2.28%
NYPA CREDIT	<u>(727,657.76)</u>	<u>(524,997.00)</u>	<u>(202,660.76)</u>	38.60%
TOTAL OPERATING REVENUES	65,733,051.42	68,215,303.00	(2,482,251.58)	-3.64%
OPERATING EXPENSES: (SCH G P.12A)				
PURCHASED POWER CAPACITY	12,825,378.23	12,255,551.00	569,827.23	4.65%
PURCHASED POWER TRANSMISSION	9,161,648.07	9,225,465.00	(63,816.93)	-0.69%
PURCHASED POWER FUEL	25,972,228.26	29,197,957.00	(3,225,728.74)	-11.05%
OPERATING MAINTENANCE	8,137,944.46	8,196,522.00	(58,577.54)	-0.71%
DEPRECIATION	2,530,390.24	2,443,538.00	86,852.24	3.55%
VOLUNTARY PAYMENTS TO TOWNS	2,896,099.11	2,918,997.00	(22,897.89)	-0.78%
	<u>1,052,754.00</u>	<u>1,062,000.00</u>	<u>(9,246.00)</u>	-0.87%
TOTAL OPERATING EXPENSES	62,576,442.37	65,300,030.00	(2,723,587.63)	-4.17%
OPERATING INCOME	3,156,609.05	2,915,273.00	241,336.05	8.28%
NONOPERATING REVENUES (EXPENSES)				
CONTRIBUTIONS IN AID OF CONST	89,491.75	150,000.00	(60,508.25)	-40.34%
RETURN ON INVESTMENT TO READING	(1,749,647.28)	(1,749,645.00)	(2.28)	0.00%
INTEREST INCOME	98,271.69	74,997.00	23,274.69	31.03%
INTEREST EXPENSE	(3,544.86)	(2,250.00)	(1,294.86)	57.55%
OTHER (MDSE AND AMORT)	366,207.02	207,000.00	159,207.02	76.91%
TOTAL NONOPERATING REV (EXP)	<u>(1,199,221.68)</u>	<u>(1,319,898.00)</u>	<u>120,676.32</u>	-9.14%
CHANGE IN NET ASSETS	1,957,387.37	1,595,375.00	362,012.37	22.69%
NET ASSETS AT BEGINNING OF YEAR	101,873,334.16	101,873,334.16	0.00	0.00%
NET ASSETS AT END OF MARCH	<u>103,830,721.53</u>	<u>103,468,709.16</u>	<u>362,012.37</u>	0.35%

* () = ACTUAL UNDER BUDGET

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
RECONCILIATION OF CAPITAL FUNDS
3/31/2015

SOURCE OF CAPITAL FUNDS:

DEPRECIATION FUND BALANCE 7/1/14	4,130,584.59
CONSTRUCTION FUND BALANCE 7/1/14	1,000,000.00
INTEREST ON DEPRECIATION FUND FY 15	16,139.00
DEPRECIATION TRANSFER FY 15	2,896,099.11
OTHER - LED GRANT	<u>62,500.00</u>
TOTAL SOURCE OF CAPITAL FUNDS	8,105,322.70

USE OF CAPITAL FUNDS:

LESS PAID ADDITIONS TO PLANT THRU MARCH	2,366,348.30
GENERAL LEDGER CAPITAL FUNDS BALANCE 3/31/15	<u><u>5,738,974.40</u></u>

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
SALES OF KILOWATT HOURS
3/31/2015

SALES OF ELECTRICITY:	MONTH LAST YEAR	MONTH CURRENT YEAR	LAST YEAR TO DATE	CURRENT YEAR TO DATE	YTD % CHANGE
RESIDENTIAL SALES	20,848,488	20,626,652	202,363,496	199,492,134	-1.42%
COMM. AND INDUSTRIAL SALES	31,768,994	29,273,602	304,897,175	304,911,288	0.00%
PRIVATE STREET LIGHTING	76,479	79,624	675,927	712,545	5.42%
TOTAL PRIVATE CONSUMERS	<u>52,693,961</u>	<u>49,979,878</u>	<u>507,936,598</u>	<u>505,115,967</u>	-0.56%
MUNICIPAL SALES:					
STREET LIGHTING	240,064	237,189	2,158,478	2,179,674	0.98%
MUNICIPAL BUILDINGS	884,289	785,967	7,350,967	7,432,444	1.11%
TOTAL MUNICIPAL CONSUMERS	<u>1,124,353</u>	<u>1,023,156</u>	<u>9,509,445</u>	<u>9,612,118</u>	1.08%
SALES FOR RESALE	284,914	246,558	2,591,545	2,584,169	-0.28%
SCHOOL	1,341,677	1,291,370	10,855,223	11,609,559	6.95%
TOTAL KILOWATT HOURS SOLD	<u>55,444,905</u>	<u>52,540,962</u>	<u>530,892,811</u>	<u>528,921,813</u>	-0.37%

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
KILOWATT HOURS SOLD BY TOWN
3/31/2015

MONTH	TOTAL	READING	LYNNFIELD	NO. READING	WILMINGTON
RESIDENTIAL	20,626,652	6,751,327	2,663,968	4,885,817	6,325,540
COMM & IND	29,273,602	3,793,204	208,689	4,404,108	20,867,601
PVT ST LIGHTS	79,624	13,418	1,490	24,791	39,925
PUB ST LIGHTS	237,189	79,671	32,299	41,206	84,013
MUNI BLDGS	785,967	257,775	134,583	120,819	272,790
SALES/RESALE	246,558	246,558	0	0	0
SCHOOL	1,291,370	441,017	239,928	260,940	349,485
TOTAL	52,540,962	11,582,970	3,280,957	9,737,681	27,939,354

YEAR TO DATE

RESIDENTIAL	199,492,134	62,381,127	28,379,843	45,642,242	63,088,922
COMM & IND	304,911,288	38,245,933	2,396,039	47,012,246	217,257,070
PVT ST LIGHTS	712,545	120,446	13,649	223,339	355,111
PUB ST LIGHTS	2,179,674	732,410	294,595	382,641	770,028
MUNI BLDGS	7,432,444	2,031,996	1,511,121	1,281,400	2,607,927
SALES/RESALE	2,584,169	2,584,169	0	0	0
SCHOOL	11,609,559	3,910,113	2,400,757	1,980,040	3,318,649
TOTAL	528,921,813	110,006,194	34,996,004	96,521,908	287,397,707

LAST YEAR TO DATE

RESIDENTIAL	202,363,496	64,089,035	28,385,340	46,971,337	62,917,784
COMM & IND	304,897,175	38,581,340	2,483,314	47,824,019	216,008,502
PVT ST LIGHTS	675,927	118,009	12,680	204,680	340,558
PUB ST LIGHTS	2,158,478	726,138	292,500	377,757	762,083
MUNI BLDGS	7,350,967	2,054,108	1,445,389	1,289,327	2,562,143
SALES/RESALE	2,591,545	2,591,545	0	0	0
SCHOOL	10,855,223	3,873,370	2,445,386	1,351,200	3,185,267
TOTAL	530,892,811	112,033,545	35,064,609	98,018,320	285,776,337

KILOWATT HOURS SOLD TO TOTAL

MONTH	TOTAL	READING	LYNNFIELD	NO. READING	WILMINGTON
RESIDENTIAL	39.26%	12.85%	5.07%	9.30%	12.04%
COMM & IND	55.72%	7.22%	0.40%	8.38%	39.72%
PVT ST LIGHTS	0.15%	0.03%	0.00%	0.05%	0.07%
PUB ST LIGHTS	0.45%	0.15%	0.06%	0.08%	0.16%
MUNI BLDGS	1.50%	0.49%	0.26%	0.23%	0.52%
SALES/RESALE	0.47%	0.47%	0.00%	0.00%	0.00%
SCHOOL	2.45%	0.84%	0.46%	0.50%	0.65%
TOTAL	100.00%	22.05%	6.25%	18.54%	53.16%

YEAR TO DATE

RESIDENTIAL	37.72%	11.79%	5.37%	8.63%	11.93%
COMM & IND	57.65%	7.23%	0.45%	8.89%	41.08%
PVT ST LIGHTS	0.13%	0.02%	0.00%	0.04%	0.07%
PUB ST LIGHTS	0.41%	0.14%	0.06%	0.07%	0.14%
MUNI BLDGS	1.41%	0.38%	0.29%	0.24%	0.50%
SALES/RESALE	0.49%	0.49%	0.00%	0.00%	0.00%
SCHOOL	2.19%	0.74%	0.45%	0.37%	0.63%
TOTAL	100.00%	20.79%	6.62%	18.24%	54.35%

LAST YEAR TO DATE

RESIDENTIAL	38.12%	12.07%	5.35%	8.85%	11.85%
COMM & IND	57.43%	7.27%	0.47%	9.01%	40.68%
PVT ST LIGHTS	0.13%	0.02%	0.00%	0.04%	0.07%
PUB ST LIGHTS	0.41%	0.14%	0.06%	0.07%	0.14%
MUNI BLDGS	1.38%	0.39%	0.27%	0.24%	0.48%
SALES/RESALE	0.49%	0.49%	0.00%	0.00%	0.00%
SCHOOL	2.04%	0.73%	0.46%	0.25%	0.60%
TOTAL	100.00%	21.11%	6.61%	18.46%	53.82%

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
FORMULA INCOME
3/31/2015

TOTAL OPERATING REVENUES	(P.3)	65,733,051.42
ADD:		
POLE RENTAL		0.00
INTEREST INCOME ON CUSTOMER DEPOSITS		3,566.17
LESS:		
OPERATING EXPENSES	(P.3)	(62,576,442.37)
CUSTOMER DEPOSIT INTEREST EXPENSE		(3,544.86)
FORMULA INCOME (LOSS)		<u>3,156,630.36</u>

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
GENERAL STATISTICS
3/31/2015

	MONTH OF MAR 2014	MONTH OF MAR 2015	% CHANGE		YEAR MAR 2014	THRU MAR 2015
			2014.	2015		
SALE OF KWH (P.5)	55,444,905	52,540,962	-1.45%	-0.37%	530,892,811	528,921,813
KWH PURCHASED	59,029,265	58,925,210	-0.49%	-3.04%	551,961,652	535,201,067
AVE BASE COST PER KWH	0.039380	0.024833	2.80%	-39.43%	0.039563	0.023964
AVE BASE SALE PER KWH	0.070174	0.030794	2.56%	-53.13%	0.066383	0.031114
AVE COST PER KWH	0.097333	0.077474	0.33%	-15.94%	0.086240	0.072492
AVE SALE PER KWH	0.125168	0.075942	-2.57%	-28.09%	0.112070	0.080595
FUEL CHARGE REVENUE (P.3)	2,727,218.63	2,241,882.10	-11.84%	8.75%	23,396,150.71	25,444,156.99
LOAD FACTOR	77.13%	78.85%				
PEAK LOAD	104,839	102,366				

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
SCHEDULE OF CASH AND INVESTMENTS
3/31/2015

SCHEDULE A

	PREVIOUS YEAR	CURRENT YEAR
UNRESTRICTED CASH		
CASH - OPERATING FUND	13,890,614.38	11,725,347.39
CASH - PETTY CASH	3,000.00	3,000.00
TOTAL UNRESTRICTED CASH	13,893,614.38	11,728,347.39
 RESTRICTED CASH		
CASH - DEPRECIATION FUND	4,137,612.78	5,738,974.40
CASH - TOWN PAYMENT	925,305.27	937,215.75
CASH - DEFERRED FUEL RESERVE	241,841.17	3,604,623.69
CASH - RATE STABILIZATION FUND	6,709,447.36	6,759,552.68
CASH - UNCOLLECTIBLE ACCTS RESERVE	200,000.00	200,000.00
CASH - SICK LEAVE BENEFITS	1,645,706.94	1,716,789.36
CASH - HAZARD WASTE RESERVE	150,000.00	150,000.00
CASH - CUSTOMER DEPOSITS	731,657.83	834,407.02
CASH - ENERGY CONSERVATION	450,005.47	584,792.25
TOTAL RESTRICTED CASH	15,191,576.82	20,526,355.15
 INVESTMENTS		
SICK LEAVE BUYBACK	1,250,000.00	1,292,906.26
TOTAL CASH BALANCE	30,335,191.20	33,547,608.80

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
SCHEDULE OF ACCOUNTS RECEIVABLE
3/31/2015

SCHEDULE B

SCHEDULE OF ACCOUNTS RECEIVABLE	PREVIOUS YEAR	CURRENT YEAR
RESIDENTIAL AND COMMERCIAL	2,167,663.98	2,434,566.15
ACCOUNTS RECEIVABLE - OTHER	75,136.50	103,232.78
ACCOUNTS RECEIVABLE - LIENS	37,169.47	33,214.37
ACCOUNTS RECEIVABLE - EMPLOYEE ADVANCES	892.14	892.14
SALES DISCOUNT LIABILITY	(220,754.60)	(189,102.33)
RESERVE FOR UNCOLLECTIBLE ACCOUNTS	(212,214.87)	(288,655.57)
TOTAL ACCOUNTS RECEIVABLE BILLED	1,847,892.62	2,094,147.54
UNBILLED ACCOUNTS RECEIVABLE	4,158,022.50	5,622,269.28
TOTAL ACCOUNTS RECEIVABLE, NET	6,005,915.12	7,716,416.82

SCHEDULE OF PREPAYMENTS

PREPAID INSURANCE	1,018,637.22	1,008,368.32
PREPAYMENT PURCHASED POWER	(606,229.13)	358,882.24
PREPAYMENT PASNY	242,260.90	259,957.39
PREPAYMENT WATSON	274,360.77	260,539.58
PURCHASED POWER WORKING CAPITAL	14,523.70	12,700.11
TOTAL PREPAYMENT	943,553.46	1,900,447.64

ACCOUNTS RECEIVABLE AGING MARCH 2015:

RESIDENTIAL AND COMMERCIAL	2,434,566.15
LESS: SALES DISCOUNT LIABILITY	(189,102.33)
GENERAL LEDGER BALANCE	2,245,463.82

CURRENT	1,682,844.67	74.95%
30 DAYS	421,241.29	18.76%
60 DAYS	72,056.60	3.21%
90 DAYS	21,631.88	0.96%
OVER 90 DAYS	47,689.38	2.12%
TOTAL	2,245,463.82	100.00%

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
SCHEDULE OF OPERATING REVENUE
3/31/2015

SCHEDULE D

SALES OF ELECTRICITY:	MONTH LAST YEAR	MONTH CURRENT YEAR	LAST YEAR TO DATE	CURRENT YEAR TO DATE	YTD % CHANGE
RESIDENTIAL SALES	2,895,802.39	1,859,329.86	25,311,684.49	18,896,674.52	-25.34%
COMM AND INDUSTRIAL SALES	3,700,746.74	2,014,889.49	31,577,868.74	21,795,933.70	-30.98%
PRIVATE STREET LIGHTING	6,657.81	9,148.12	51,714.40	84,797.20	63.97%
TOTAL PRIVATE CONSUMERS	<u>6,603,206.94</u>	<u>3,883,367.47</u>	<u>56,941,267.63</u>	<u>40,777,405.42</u>	-28.39%
MUNICIPAL SALES:					
STREET LIGHTING	30,676.78	(64,851.50)	247,385.70	174,044.60	-29.65%
MUNICIPAL BUILDINGS	109,418.66	59,375.40	832,026.41	582,186.39	-30.03%
TOTAL MUNICIPAL CONSUMERS	<u>140,095.44</u>	<u>(5,476.10)</u>	<u>1,079,412.11</u>	<u>756,230.99</u>	-29.94%
SALES FOR RESALE	36,669.33	19,691.69	300,347.00	219,485.22	-26.92%
SCHOOL	159,934.29	92,481.18	1,176,259.36	875,404.64	-25.58%
SUB-TOTAL	<u>6,939,906.00</u>	<u>3,990,064.24</u>	<u>59,497,286.10</u>	<u>42,628,526.27</u>	-28.35%
FORFEITED DISCOUNTS	90,400.98	111,905.43	709,048.71	646,656.96	-8.80%
PURCHASED POWER CAPACITY	170,209.37	2,394,543.72	509,434.06	22,667,928.12	4349.63%
ENERGY CONSERVATION - RESIDENTIAL	20,863.23	20,658.31	202,475.22	199,629.26	-1.41%
ENERGY CONSERVATION - COMMERCIAL	33,688.38	30,806.89	320,064.81	317,968.57	-0.65%
GAW REVENUE	14,415.68	0.00	489,669.08	0.00	-100.00%
NYPA CREDIT	(321,914.91)	(130,242.61)	(858,927.11)	(727,657.76)	-15.28%
TOTAL REVENUE	<u>6,947,568.73</u>	<u>6,417,735.98</u>	<u>60,869,050.87</u>	<u>65,733,051.42</u>	7.99%

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
SCHEDULE OF OPERATING REVENUE BY TOWN
3/31/2015

MONTH	TOTAL	READING	LYNNFIELD	NO. READING	WILMINGTON
RESIDENTIAL	1,859,329.86	611,133.05	239,222.21	439,467.60	569,507.00
INDUS/MUNI BLDG	2,074,264.89	312,253.39	28,264.19	332,640.59	1,401,106.72
PUB. ST. LIGHTS	(64,851.50)	(21,631.70)	(8,669.55)	(11,595.43)	(22,954.82)
PRV. ST. LIGHTS	9,148.12	1,504.29	174.14	2,978.28	4,491.41
CO-OP RESALE	19,691.69	19,691.69	0.00	0.00	0.00
SCHOOL	92,481.18	31,463.70	17,073.02	18,936.20	25,008.26
TOTAL	3,990,064.24	954,414.42	276,064.01	782,427.24	1,977,158.57

THIS YEAR TO DATE

RESIDENTIAL	18,896,674.52	5,935,691.05	2,672,364.35	4,314,726.50	5,973,892.62
INDUS/MUNI BLDG	22,378,120.09	3,195,418.54	318,364.04	3,629,456.77	15,234,880.74
PUB. ST. LIGHTS	174,144.60	58,482.14	23,523.09	30,553.47	61,585.90
PRV. ST. LIGHTS	84,797.20	14,061.11	1,651.90	27,562.07	41,522.12
CO-OP RESALE	219,485.22	219,485.22	0.00	0.00	0.00
SCHOOL	875,404.64	298,077.28	178,992.72	151,533.35	246,801.29
TOTAL	42,628,626.27	9,721,215.34	3,194,896.08	8,153,832.17	21,558,682.68

LAST YEAR TO DATE

RESIDENTIAL	25,311,684.49	8,051,844.14	3,529,042.12	5,874,286.60	7,856,511.63
INDUS/MUNI BLDG	32,409,895.15	4,515,300.10	442,633.04	5,252,830.41	22,199,131.60
PUB. ST. LIGHTS	247,385.70	80,418.06	31,758.49	43,976.63	91,232.52
PRV. ST. LIGHTS	51,714.40	8,934.69	950.56	16,203.51	25,625.64
CO-OP RESALE	300,347.00	300,347.00	0.00	0.00	0.00
SCHOOL	1,176,259.36	422,015.66	260,088.96	151,411.05	342,743.69
TOTAL	59,497,286.10	13,378,859.65	4,264,473.17	11,338,708.20	30,515,245.08

PERCENTAGE OF OPERATING INCOME TO TOTAL

MONTH	TOTAL	READING	LYNNFIELD	NO. READING	WILMINGTON
RESIDENTIAL	46.60%	15.32%	6.00%	11.01%	14.27%
INDUS/MUNI BLDG	51.99%	7.83%	0.71%	8.34%	35.11%
PUB. ST. LIGHTS	-1.63%	-0.54%	-0.22%	-0.29%	-0.58%
PRV. ST. LIGHTS	0.23%	0.04%	0.00%	0.07%	0.12%
CO-OP RESALE	0.49%	0.49%	0.00%	0.00%	0.00%
SCHOOL	2.32%	0.79%	0.43%	0.47%	0.63%
TOTAL	100.00%	23.93%	6.92%	19.60%	49.55%

THIS YEAR TO DATE

RESIDENTIAL	44.33%	13.92%	6.27%	10.12%	14.02%
INDUS/MUNI BLDG	52.50%	7.50%	0.75%	8.51%	35.74%
PUB. ST. LIGHTS	0.41%	0.14%	0.06%	0.07%	0.14%
PRV. ST. LIGHTS	0.20%	0.03%	0.00%	0.06%	0.11%
CO-OP RESALE	0.51%	0.51%	0.00%	0.00%	0.00%
SCHOOL	2.05%	0.70%	0.42%	0.36%	0.57%
TOTAL	100.00%	22.80%	7.50%	19.12%	50.58%

LAST YEAR TO DATE

RESIDENTIAL	42.54%	13.53%	5.93%	9.87%	13.21%
INDUS/MUNI BLDG	54.47%	7.59%	0.74%	8.83%	37.31%
PUB. ST. LIGHTS	0.42%	0.14%	0.05%	0.07%	0.16%
PRV. ST. LIGHTS	0.09%	0.02%	0.00%	0.03%	0.04%
CO-OP RESALE	0.50%	0.50%	0.00%	0.00%	0.00%
SCHOOL	1.98%	0.71%	0.44%	0.25%	0.58%
TOTAL	100.00%	22.49%	7.16%	19.05%	51.30%

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
BUDGETED REVENUE VARIANCE REPORT
3/31/2015

SCHEDULE F

	ACTUAL YEAR TO DATE	BUDGET YEAR TO DATE	VARIANCE *	% CHANGE
SALES OF ELECTRICITY:				
RESIDENTIAL	8,942,410.17	8,832,203.00	110,207.17	1.25%
COMM AND INDUSTRIAL SALES PRIVATE STREET LIGHTING MUNICIPAL BUILDINGS	7,052,351.70	7,328,438.00	(276,086.30)	-3.77%
PUBLIC STREET LIGHTING	66,907.17	264,106.00	(197,198.83)	-74.67%
SALES FOR RESALE	90,013.54	103,602.00	(13,588.46)	-13.12%
SCHOOL	<u>305,028.94</u>	<u>295,861.00</u>	<u>9,167.94</u>	3.10%
TOTAL BASE SALES	16,456,711.52	16,824,210.00	(367,498.48)	-2.18%
TOTAL FUEL SALES	<u>26,171,814.75</u>	<u>28,237,970.00</u>	<u>(2,066,155.25)</u>	-7.32%
TOTAL OPERATING REVENUE	42,628,526.27	45,062,180.00	(2,433,653.73)	-5.40%
FORFEITED DISCOUNTS	646,656.96	850,927.00	(204,270.04)	-24.01%
PURCHASED POWER CAPACITY	22,667,928.12	22,297,499.00	370,429.12	100.00%
ENERGY CONSERVATION - RESIDENTIAL	199,629.26	200,744.00	(1,114.74)	-0.56%
ENERGY CONSERVATION - COMMERCIAL	317,968.57	328,950.00	(10,981.43)	-3.34%
NYPA CREDIT	(727,657.76)	(524,997.00)	(202,660.76)	38.60%
TOTAL OPERATING REVENUES	<u><u>65,733,051.42</u></u>	<u><u>68,215,303.00</u></u>	<u><u>(2,482,251.58)</u></u>	-3.64%

* () = ACTUAL UNDER BUDGET

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
SCHEDULE OF OPERATING EXPENSES
3/31/2015

SCHEDULE E

OPERATION EXPENSES:	MONTH LAST YEAR	MONTH CURRENT YEAR	LAST YEAR TO DATE	CURRENT YEAR TO DATE	YTD % CHANGE
PURCHASED POWER CAPACITY	1,426,843.70	1,463,262.28	13,136,735.11	12,825,378.23	-2.37%
PURCHASED POWER TRANSMISSION	897,755.34	951,509.01	8,700,383.05	9,161,648.07	5.30%
TOTAL PURCHASED POWER	<u>2,324,599.04</u>	<u>2,414,771.29</u>	<u>21,837,118.16</u>	<u>21,987,026.30</u>	0.69%
OPERATION SUP AND ENGINEERING EXP	38,661.63	47,212.01	382,927.55	397,020.38	3.68%
STATION SUP LABOR AND MISC	9,668.87	13,542.19	87,038.79	120,176.99	38.07%
LINE MISC LABOR AND EXPENSE	46,730.27	57,100.53	594,599.52	631,164.63	6.15%
STATION LABOR AND EXPENSE	33,834.44	45,733.74	365,713.98	388,748.01	6.30%
STREET LIGHTING EXPENSE	6,420.58	9,015.47	57,585.48	69,008.86	19.84%
METER EXPENSE	16,931.59	16,850.22	162,546.89	149,393.14	-8.09%
MISC DISTRIBUTION EXPENSE	33,911.39	34,555.39	278,301.52	338,479.57	21.62%
METER READING LABOR & EXPENSE	310.37	474.28	17,521.50	12,544.01	-28.41%
ACCT & COLL LABOR & EXPENSE	138,704.45	156,442.59	1,145,146.28	1,337,448.81	16.79%
UNCOLLECTIBLE ACCOUNTS	10,500.00	10,000.00	94,500.00	90,000.00	-4.76%
ENERGY AUDIT EXPENSE	26,733.31	31,758.41	280,146.84	304,910.18	8.84%
ADMIN & GEN SALARIES	83,389.67	52,682.28	662,654.63	599,227.56	-9.57%
OFFICE SUPPLIES & EXPENSE	27,853.77	29,214.26	212,238.70	231,992.91	9.31%
OUTSIDE SERVICES	18,462.14	29,435.30	304,504.17	297,977.62	-2.14%
PROPERTY INSURANCE	28,463.75	31,242.39	259,441.76	272,737.70	5.12%
INJURIES AND DAMAGES	3,389.53	4,472.39	31,336.26	33,566.42	7.12%
EMPLOYEES PENSIONS & BENEFITS	236,418.17	225,136.83	1,701,007.77	2,233,137.41	31.28%
MISC GENERAL EXPENSE	15,308.53	6,800.84	132,025.62	111,828.46	-15.30%
RENT EXPENSE	17,853.12	16,485.41	153,427.26	128,515.22	-16.24%
ENERGY CONSERVATION	26,933.32	33,501.11	391,556.22	390,066.58	-0.38%
TOTAL OPERATION EXPENSES	<u>820,478.90</u>	<u>851,655.64</u>	<u>7,314,220.74</u>	<u>8,137,944.46</u>	11.26%
MAINTENANCE EXPENSES:					
MAINT OF TRANSMISSION PLANT	227.08	227.08	2,043.74	2,043.74	0.00%
MAINT OF STRUCT AND EQUIPMT	11,974.30	35,932.35	131,345.76	400,337.11	204.80%
MAINT OF LINES - OH	151,586.98	157,594.53	1,223,040.55	1,312,532.65	7.32%
MAINT OF LINES - UG	16,287.00	16,192.11	152,114.83	129,667.45	-14.76%
MAINT OF LINE TRANSFORMERS	0.00	0.00	87,218.31	61,321.32	0.00%
MAINT OF ST LT & SIG SYSTEM	(52.84)	(42.87)	(457.28)	(149.25)	-67.36%
MAINT OF GARAGE AND STOCKROOM	50,975.23	62,985.67	428,743.44	460,960.03	7.51%
MAINT OF METERS	206.71	0.00	11,495.05	0.00	-100.00%
MAINT OF GEN PLANT	12,923.91	15,823.22	109,098.69	163,677.19	50.03%
TOTAL MAINTENANCE EXPENSES	<u>244,128.37</u>	<u>288,712.09</u>	<u>2,144,643.09</u>	<u>2,530,390.24</u>	17.99%
DEPRECIATION EXPENSE	314,969.55	321,788.79	2,834,725.95	2,896,099.11	2.17%
PURCHASED POWER FUEL EXPENSE	3,420,919.01	3,101,903.54	25,763,796.92	25,972,228.26	0.81%
VOLUNTARY PAYMENTS TO TOWNS	116,666.67	118,000.00	1,048,517.01	1,052,754.00	0.40%
TOTAL OPERATING EXPENSES	<u>7,241,761.54</u>	<u>7,096,831.35</u>	<u>60,943,021.87</u>	<u>62,576,442.37</u>	2.68%

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
BUDGETED OPERATING EXPENSE VARIANCE REPORT
3/31/2015

SCHEDULE G

OPERATION EXPENSES:	ACTUAL YEAR TO DATE	BUDGET YEAR TO DATE	VARIANCE *	% CHANGE
PURCHASED POWER CAPACITY	12,825,378.23	12,255,551.00	569,827.23	4.65%
PURCHASED POWER TRANSMISSION	9,161,648.07	9,225,465.00	(63,816.93)	-0.69%
TOTAL PURCHASED POWER	<u>21,987,026.30</u>	<u>21,481,016.00</u>	<u>506,010.30</u>	2.36%
OPERATION SUP AND ENGINEERING EXP	397,020.38	437,631.00	(40,610.62)	-9.28%
STATION SUP LABOR AND MISC	120,176.99	81,259.00	38,917.99	47.89%
LINE MISC LABOR AND EXPENSE	631,164.63	509,336.00	121,828.63	23.92%
STATION LABOR AND EXPENSE	388,748.01	299,653.00	89,095.01	29.73%
STREET LIGHTING EXPENSE	69,008.86	62,447.00	6,561.86	10.51%
METER EXPENSE	149,393.14	181,806.00	(32,412.86)	-17.83%
MISC DISTRIBUTION EXPENSE	338,479.57	303,164.00	35,315.57	11.65%
METER READING LABOR & EXPENSE	12,544.01	23,167.00	(10,622.99)	-45.85%
ACCT & COLL LABOR & EXPENSE	1,337,448.81	1,288,127.00	49,321.81	3.83%
UNCOLLECTIBLE ACCOUNTS	90,000.00	90,000.00	0.00	0.00%
ENERGY AUDIT EXPENSE	304,910.18	366,195.00	(61,284.82)	-16.74%
ADMIN & GEN SALARIES	599,227.56	631,307.00	(32,079.44)	-5.08%
OFFICE SUPPLIES & EXPENSE	231,992.91	225,900.00	6,092.91	2.70%
OUTSIDE SERVICES	297,977.62	272,465.00	25,512.62	9.36%
PROPERTY INSURANCE	272,737.70	340,056.00	(67,318.30)	-19.80%
INJURIES AND DAMAGES	33,566.42	36,942.00	(3,375.58)	-9.14%
EMPLOYEES PENSIONS & BENEFITS	2,233,137.41	2,099,122.00	134,015.41	6.38%
MISC GENERAL EXPENSE	111,828.46	205,372.00	(93,543.54)	-45.55%
RENT EXPENSE	128,515.22	159,003.00	(30,487.78)	-19.17%
ENERGY CONSERVATION	390,066.58	583,570.00	(193,503.42)	-33.16%
TOTAL OPERATION EXPENSES	<u>8,137,944.46</u>	<u>8,196,522.00</u>	<u>(58,577.54)</u>	-0.71%
MAINTENANCE EXPENSES:				
MAINT OF TRANSMISSION PLANT	2,043.74	2,250.00	(206.26)	-9.17%
MAINT OF STRUCT AND EQUIPMENT	400,337.11	362,822.00	37,515.11	10.34%
MAINT OF LINES - OH	1,312,532.65	1,256,412.00	56,120.65	4.47%
MAINT OF LINES - UG	129,667.45	98,093.00	31,574.45	32.19%
MAINT OF LINE TRANSFORMERS	61,321.32	117,000.00	(55,678.68)	-47.59%
MAINT OF ST LT & SIG SYSTEM	(149.25)	7,341.00	(7,490.25)	-102.03%
MAINT OF GARAGE AND STOCKROOM	460,960.03	434,894.00	26,066.03	5.99%
MAINT OF METERS	0.00	37,205.00	(37,205.00)	-100.00%
MAINT OF GEN PLANT	163,677.19	127,521.00	36,156.19	28.35%
TOTAL MAINTENANCE EXPENSES	<u>2,530,390.24</u>	<u>2,443,538.00</u>	<u>86,852.24</u>	3.55%
DEPRECIATION EXPENSE	2,896,099.11	2,918,997.00	(22,897.89)	-0.78%
PURCHASED POWER FUEL EXPENSE	25,972,228.26	29,197,957.00	(3,225,728.74)	-11.05%
VOLUNTARY PAYMENTS TO TOWNS	1,052,754.00	1,062,000.00	(9,246.00)	-0.87%
TOTAL OPERATING EXPENSES	<u>62,576,442.37</u>	<u>65,300,030.00</u>	<u>(2,723,587.63)</u>	-4.17%

* () = ACTUAL UNDER BUDGET

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
BUDGETED OPERATING EXPENSE VARIANCE REPORT
3/31/2015

OPERATION EXPENSES:	RESPONSIBLE SENIOR MANAGER	2015 ANNUAL BUDGET	ACTUAL YEAR TO DATE	REMAINING BUDGET BALANCE	REMAINING BUDGET %
PURCHASED POWER CAPACITY	JP	16,332,282.00	12,825,378.23	3,506,903.77	21.47%
PURCHASED POWER TRANSMISSION	JP	12,556,732.00	9,161,648.07	3,395,083.93	27.04%
TOTAL PURCHASED POWER		<u>28,889,014.00</u>	<u>21,987,026.30</u>	<u>6,901,987.70</u>	23.89%
OPERATION SUP AND ENGINEERING EXP	HJ	583,668.00	397,020.38	186,647.62	31.98%
STATION SUP LABOR AND MISC	HJ	108,848.00	120,176.99	(11,328.99)	-10.41%
LINE MISC LABOR AND EXPENSE	HJ	657,259.00	631,164.63	26,094.37	3.97%
STATION LABOR AND EXPENSE	HJ	398,849.00	388,748.01	10,100.99	2.53%
STREET LIGHTING EXPENSE	HJ	82,907.00	69,008.86	13,898.14	16.76%
METER EXPENSE	HJ	247,938.00	149,393.14	98,544.86	39.75%
MISC DISTRIBUTION EXPENSE	HJ	402,885.00	338,479.57	64,405.43	15.99%
METER READING LABOR & EXPENSE	HJ	30,922.00	12,544.01	18,377.99	59.43%
ACCT & COLL LABOR & EXPENSE	RF	1,705,333.00	1,337,448.81	367,884.19	21.57%
UNCOLLECTIBLE ACCOUNTS	RF	120,000.00	90,000.00	30,000.00	25.00%
ENERGY AUDIT EXPENSE	JP	488,284.00	304,910.18	183,373.82	37.55%
ADMIN & GEN SALARIES	CO	842,170.00	599,227.56	242,942.44	28.85%
OFFICE SUPPLIES & EXPENSE	CO	301,000.00	231,992.91	69,007.09	22.93%
OUTSIDE SERVICES	CO	351,650.00	297,977.62	53,672.38	15.26%
PROPERTY INSURANCE	HJ	453,200.00	272,737.70	180,462.30	39.82%
INJURIES AND DAMAGES	HJ	49,059.00	33,566.42	15,492.58	31.58%
EMPLOYEES PENSIONS & BENEFITS	HJ	2,746,619.00	2,233,137.41	513,481.59	18.70%
MISC GENERAL EXPENSE	CO	240,727.00	111,828.46	128,898.54	53.55%
RENT EXPENSE	HJ	212,000.00	128,515.22	83,484.78	39.38%
ENERGY CONSERVATION	JP	778,812.00	390,066.58	388,745.42	49.92%
TOTAL OPERATION EXPENSES		<u>10,802,130.00</u>	<u>8,137,944.46</u>	<u>2,664,185.54</u>	24.66%
MAINTENANCE EXPENSES:					
MAINT OF TRANSMISSION PLANT	HJ	3,000.00	2,043.74	956.26	31.88%
MAINT OF STRUCT AND EQUIPMT	HJ	484,026.00	400,337.11	83,688.89	17.29%
MAINT OF LINES - OH	HJ	1,675,794.00	1,312,532.65	363,261.35	21.68%
MAINT OF LINES - UG	HJ	130,694.00	129,667.45	1,026.55	0.79%
MAINT OF LINE TRANSFORMERS	HJ	156,000.00	61,321.32	94,678.68	60.69%
MAINT OF ST LT & SIG SYSTEM	HJ	9,745.00	(149.25)	9,894.25	101.53%
MAINT OF GARAGE AND STOCKROOM	HJ	567,531.00	460,960.03	106,570.97	18.78%
MAINT OF METERS	HJ	43,290.00	0.00	43,290.00	100.00%
MAINT OF GEN PLANT	RF	170,180.00	163,677.19	6,502.81	3.82%
TOTAL MAINTENANCE EXPENSES		<u>3,240,260.00</u>	<u>2,530,390.24</u>	<u>709,869.76</u>	21.91%
DEPRECIATION EXPENSE	RF	3,892,000.00	2,896,099.11	995,900.89	25.59%
PURCHASED POWER FUEL EXPENSE	JP	36,249,653.00	25,972,228.26	10,277,424.74	28.35%
VOLUNTARY PAYMENTS TO TOWNS	RF	1,416,000.00	1,052,754.00	363,246.00	25.65%
TOTAL OPERATING EXPENSES		<u>84,489,057.00</u>	<u>62,576,442.37</u>	<u>21,912,614.63</u>	25.94%

TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
PROFESSIONAL SERVICES
03/31/2015

PROFESSIONAL SERVICES BY PROJECT

ITEM	DEPARTMENT	ACTUAL	BUDGET	VARIANCE
1 RMLD AND PENSION TRUST AUDIT FEES	ACCOUNTING	35,297.34	35,000.00	297.34
2 LEGAL-FERC/ISO/POWER/OTHER	INTEGRATED RESOURCES	116,438.60	103,725.00	12,713.60
3 NERC COMPLIANCE AND AUDIT	E & O	12,490.00	7,875.00	4,615.00
4 LEGAL	ENGINEERING	6,844.50	10,125.00	(3,280.50)
5 LEGAL-GENERAL	GM	109,231.35	39,753.00	69,478.35
6 LEGAL SERVICES	HR	17,675.83	47,997.00	(30,321.17)
7 SURVEY RIGHT OF WAY/ ENVIRONMENTAL	BLDG. MAINT.	0.00	7,740.00	(7,740.00)
8 INSURANCE CONSULTANT/OTHER	GEN. BENEFIT	0.00	20,250.00	(20,250.00)
TOTAL		<u>297,977.62</u>	<u>272,465.00</u>	<u>25,512.62</u>

PROFESSIONAL SERVICES BY VENDOR

	ACTUAL
MELANSON HEATH & COMPANY	29,920.00
PLM ELECTRIC POWER COMPANY	14,526.50
RUBIN AND RUDMAN	197,401.33
UTILITIY SERVICES INC.	12,490.00
CHOATE HALL & STEWART	9,184.08
WILLIAM F. CROWLEY- ATTORNEY	2,477.24
HUDSON RIVER ENERGY GROUP	2,925.62
STONE CONSULTING	1,000.00
TRI COUNTY APPRAISAL OF SOUTH FLORIDA	525.00
DUNCAN & ALLEN	27,527.85
TOTAL	<u>297,977.62</u>

RMLD
 DEFERRED FUEL CASH RESERVE ANALYSIS
 03/31/15

DATE	GROSS CHARGES	REVENUES	NYPA CREDIT	MONTHLY DEFERRED	TOTAL DEFERRED
Jun-14					4,132,694.96
Jul-14	3,287,589.94	3,782,699.41	(35,898.34)	459,211.13	4,591,906.09
Aug-14	2,768,364.01	3,844,854.74	(47,884.92)	1,028,605.81	5,620,511.90
Sep-14	2,358,565.60	2,758,999.30	(73,836.15)	326,597.55	5,947,109.45
Oct-14	2,290,434.18	2,425,374.16	(74,545.03)	60,394.95	6,007,504.40
Nov-14	2,374,999.11	2,418,013.33	(68,098.89)	(25,084.67)	5,982,419.73
Dec-14	2,754,212.60	2,662,761.53	(81,999.49)	(173,450.56)	5,808,969.17
Jan-15	3,456,178.99	2,845,745.09	(100,190.60)	(710,624.50)	5,098,344.67
Feb-15	3,579,980.29	3,061,242.48	(114,961.73)	(633,699.54)	4,464,645.13
Mar-15	3,101,903.54	2,372,124.71	(130,242.61)	(860,021.44)	3,604,623.69

RMLD
BUDGET VARIANCE REPORT
FOR PERIOD ENDING MARCH 31, 2015

DIVISION	ACTUAL	BUDGET	VARIANCE	% CHANGE
BUSINESS DIVISION	7,580,458	7,513,096	67,362	0.90%
INTEGRATED RESOURCES AND PLANNING	811,415	1,053,491	(242,076)	-22.98%
ENGINEERING AND OPERATIONS	3,853,908	3,665,438	188,470	5.14%
FACILITY	3,544,561	3,522,689	21,872	0.62%
GENERAL MANAGER	580,035	618,238	(38,203)	-6.18%
SUB-TOTAL	16,370,378	16,372,953	(2,575)	-0.02%
PURCHASED POWER CAPACITY	12,825,378	12,255,551	569,827	4.65%
PURCHASED POWER TRANSMISSION	9,161,648	9,225,465	(63,817)	-0.69%
PURCHASED POWER FUEL	25,972,228	29,197,957	(3,225,729)	-11.05%
TOTAL	<u>64,329,632</u>	<u>67,051,926</u>	<u>(2,722,294)</u>	-4.06%

MGL CHAPTER 30B BID
ATTACHMENT 7

RMLD



Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash Street
P.O. Box 150
Reading, MA 01867-0250

Tel: (781) 944-1340
Fax: (781) 942-2409
Web: www.rml.com

May 5, 2015

Town of Reading Municipal Light Board

Subject: Digger Derrick

On March 16, 2015 a bid invitation was placed in the Goods and Services Bulletin and on March 18, 2015 a bid invitation was placed as a legal notice in the Reading Chronicle, Middlesex East, requesting proposals for one Digger Derrick for the Reading Municipal Light Department.

An invitation to bid was sent to the following nineteen companies:


Altec Industries, Inc.	Baker Equipment	Boston Freightliner, Inc.
Coastal International Truck, LLC	CUES	DC Bates
Fredrickson Bros., Inc.	G & S Industrial, Inc.	James A. Kiley Co.
Liberty Chevrolet	Mid-State International Trucks, Inc.	Minuteman Trucks
Moore GMC Truck Inc.	Morse Manufacturing Inc.	NESCO
Nutmeg International Trucks, Inc.	Patriot International Trucks of Boston, LLC	Raymond Bucket Guys
Sunrise Equipment Company	Taylor & Lloyd, Inc.	

Bids were received from four companies: Altec Industries, Inc., Boston Freightliner, Inc., James A. Kiley Co., and Taylor & Lloyd, Inc.

The bids were publicly opened and read aloud at 11:00 a.m. on April 16, 2015, in the Town of Reading Municipal Light Department's Audio Visual Spurr Room, 230 Ash Street, Reading, Massachusetts.

The bids were reviewed, analyzed and evaluated by staff and recommended to the General Manager. Move that bid 2015-24 for one Digger Derrick be awarded to: James A. Kiley Co. for \$253,550.00 as the lowest, qualified and responsive bidder on the recommendation of the General Manager.

The FY2015 Capital Budget amount for this item is \$231,750.00.



Coleen O'Brien



Hamid Jaffari



Paula O'Leary

Digger Derrick

Bid 2015-24

<u>Bidder</u>	<u>Vehicle Purchase Price</u>	<u>Trade In Value</u>	<u>Vehicle Cost Before Trade</u>	<u>**Optional Extended Warranties</u>	<u>Delivery Date ARO</u>	<u>Responsive Bidder</u>	<u>Exceptions</u>
Altec Industries, Inc.	\$217,096.00	\$5,000.00	\$222,096.00	\$3,150.00	34-37 weeks	No	Yes ¹
Boston Freightliner	\$254,500.00	\$7,900.00	\$262,400.00	\$2,400.00	34 weeks	Yes	No
James A. Kiley Co.	\$253,550.00	\$4,500.00	\$258,050.00	\$3,210.00	32-40 weeks	Yes	No
Taylor & Lloyd, Inc.	\$253,686.00	\$4,500.00	\$258,186.00	\$0.00	30-40 weeks	Yes	Yes ²

****RMLD required at a minimum the offering of an extended warranty to cover: 5 years - 100,000 Miles - 10,000 Hours on: Engine, Transmission, Rear Axle and Differential and Front Axle**

¹ Bidder submitted 9 (nine) exceptions to bid, major exceptions were weight ratings at all degree intervals.

² Bidder submitted 1 (one) minor exception to bid (engine block heater wattage). Bidder did not submit pricing for Optional Extended Warranty.

BOARD MATERIAL AVAILABLE
BUT NOT DISCUSSED

Jeanne Foti

From: Jeanne Foti
Sent: Tuesday, May 05, 2015 1:12 PM
To: RMLD Board Members Group
Subject: Account Payable Warrant and Payroll

Good afternoon.

In an effort to save paper, the following timeframes had no Account Payable and Payroll questions.

Account Payable Warrant – No Questions

March 20, March 27, April 3, April 10, April 17, April 24 and May 1.

Payroll – No Questions

March 23 and April 6.

This e-mail will be printed for the Board Packet for the RMLD Board meeting on May 14, 2015.

Jeanne Foti
Reading Municipal Light Department
Executive Assistant
230 Ash Street
Reading, MA 01867

781-942-6434 Phone
781-942-2409 Fax

Please consider the environment before printing this e-mail.

Jeanne Foti

From: Coleen O'Brien
Sent: Friday, April 24, 2015 9:56 AM
To: Tom O'Rourke
Cc: Dave Hennessy; David Talbot; John Stempeck; Phil Pacino; Jeanne Foti
Subject: Payroll Questions

Categories: Blue Category

Good morning Tom:

The following are Comments/Questions from Commissioner O'Rourke:

1. What is OT High Class?

Overtime High Class is when an employee works overtime at a higher classification. The base pay used in the FLSA overtime calculation is at the higher classification rate. On this payroll dated 4/24/15, there were two employees receiving higher class overtime; one who is a 1st class lineman level 1C was covering as a T-man at level T2, the second who was covering as a Leader Lineman at level L2.

2. Seems to be a fair amount OT?

The OT for the past weekend included: 1) Mandatory OT per contract for Saturday and (2) Contractor paid OT for Fiber installation. This is a paid OT by Light Tower to install fiber cable for their use.

Thank you,

Coleen M. O'Brien
General Manager
Reading Municipal Light Department
230 Ash Street
Reading, MA 01867

Jeanne Foti

From: Coleen O'Brien
Sent: Tuesday, May 05, 2015 2:31 PM
To: Tom O'Rourke
Cc: Dave Hennessy; David Talbot; John Stempeck; Phil Pacino; Jeanne Foti
Subject: Payroll Question - Monday, May 4, 2015

Categories: Blue Category

Payroll question on pay date 5/8/15.

1. How do you arrive at RMLD employee overtime hourly rate of \$ 100.78

Fair Labor Standard Act (FLSA) incorporates any Shift pay and Stand By pay during the week along with any longevity, clothing and boot allowances (paid through payroll) on a yearly basis. This is added to the employee's base hourly rate before computing their overtime rate. On the Patriot day holiday week, the employee was on Standby B, which is 16 hours of regular pay. This added \$ 19.124 to his base pay before overtime. The employee's yearly longevity pay is \$ 525 which added \$.2524 to his base pay of \$ 47.81.

$\$ 47.81 + \$19.124 + \$0.2524 = \$ 67.1864 \times 1.5 = \$ 100.7796.$

Thank you,

Coleen

TOWN OF READING MUNICIPAL LIGHT DEPARTMENT
RATE COMPARISONS READING & SURROUNDING TOWNS

April-15

	RESIDENTIAL 750 kWh's	RESIDENTIAL-TOU 1500 kWh's 75/25 Split	RES. HOT WATER 1000 kWh's	COMMERCIAL 7,300 kWh's 25.000 kW Demand	SMALL COMMERCIAL 1,080 kWh's 10.000 kW Demand	SCHOOL RATE 35000 kWh's 130.5 kW Demand	INDUSTRIAL - TOU 109,500 kWh's 250.000 kW Demand 80/20 Split
READING MUNICIPAL LIGHT DEPT.							
TOTAL BILL	\$99.19	\$172.37	\$121.54	\$900.70	\$174.92	\$4,200.60	\$682,279.59
PER KWH CHARGE	\$0.13226	\$0.11491	\$0.12154	\$0.12338	\$0.16196	\$0.12002	\$0.09917
NATIONAL GRID							
TOTAL BILL	\$180.85	\$360.39	\$241.13	\$1,742.04	\$252.35	\$6,955.02	\$1,223,765.00
PER KWH CHARGE	\$0.24114	\$0.24026	\$0.24113	\$0.23864	\$0.23366	\$0.19871	\$0.17788
% DIFFERENCE	82.32%	109.08%	98.39%	93.41%	44.27%	65.57%	79.36%
EVERSOURCE(NSTAR)							
TOTAL BILL	\$181.43	\$330.66	\$239.76	\$1,471.77	\$231.79	\$7,684.44	\$1,683,252.22
PER KWH CHARGE	\$0.24190	\$0.22044	\$0.23976	\$0.20161	\$0.21462	\$0.21956	\$0.24467
% DIFFERENCE	82.90%	91.83%	97.26%	63.40%	32.51%	82.94%	146.71%
PEABODY MUNICIPAL LIGHT PLANT							
TOTAL BILL	\$90.35	\$174.60	\$118.43	\$947.57	\$146.69	\$4,686.48	\$634,952.17
PER KWH CHARGE	\$0.12046	\$0.11640	\$0.11843	\$0.12980	\$0.13583	\$0.13390	\$0.09229
% DIFFERENCE	-8.92%	1.30%	-2.56%	5.20%	-16.14%	11.57%	-6.94%
MIDDLETON MUNICIPAL LIGHT DEPT.							
TOTAL BILL	\$99.77	\$198.39	\$132.64	\$959.51	\$168.44	\$4,762.93	\$807,171.40
PER KWH CHARGE	\$0.13303	\$0.13226	\$0.13264	\$0.13144	\$0.15596	\$0.13608	\$0.11733
% DIFFERENCE	0.58%	15.09%	9.13%	6.53%	-3.71%	13.39%	18.31%
WAKEFIELD MUNICIPAL LIGHT DEPT.							
TOTAL BILL	\$126.74	\$235.92	\$159.38	\$1,202.79	\$191.68	\$5,648.08	\$955,959.30
PER KWH CHARGE	\$0.16898	\$0.15728	\$0.15938	\$0.16477	\$0.17749	\$0.16137	\$0.13896
% DIFFERENCE	27.77%	36.87%	31.13%	33.54%	9.59%	34.46%	40.11%

TOWN OF READING MUNICIPAL LIGHT DEPARTMENT
RATE COMPARISONS READING & SURROUNDING TOWNS

May-15

	RESIDENTIAL 750 kWh's	RESIDENTIAL-TOU 1500 kWh's 75/25 Split	RES. HOT WATER 1000 kWh's	COMMERCIAL 7,300 kWh's 25.000 kW Demand	SMALL COMMERCIAL 1,080 kWh's 10.000 kW Demand	SCHOOL RATE 35000 kWh's 130.5 kW Demand	INDUSTRIAL - TOU 109,500 kWh's 250.000 kW Demand 80/20 Split
READING MUNICIPAL LIGHT DEPT.							
TOTAL BILL	\$101.28	\$176.54	\$124.32	\$937.20	\$180.32	\$4,375.60	\$716,677.59
PER KWH CHARGE	\$0.13504	\$0.11769	\$0.12432	\$0.12838	\$0.16696	\$0.12502	\$0.10417
NATIONAL GRID							
TOTAL BILL	\$128.23	\$242.61	\$170.97	\$1,284.84	\$184.71	\$5,026.87	\$843,563.59
PER KWH CHARGE	\$0.17098	\$0.16174	\$0.17097	\$0.17601	\$0.17103	\$0.14362	\$0.12262
% DIFFERENCE	26.61%	37.43%	37.52%	37.09%	2.44%	14.88%	17.70%
EVERSOURCE(NSTAR)							
TOTAL BILL	\$180.21	\$328.23	\$238.13	\$1,471.77	\$231.79	\$7,684.44	\$804,039.34
PER KWH CHARGE	\$0.24027	\$0.21882	\$0.23813	\$0.20161	\$0.21462	\$0.21956	\$0.11687
% DIFFERENCE	77.93%	85.93%	91.54%	57.04%	28.55%	75.62%	12.19%
PEABODY MUNICIPAL LIGHT PLANT							
TOTAL BILL	\$90.35	\$174.60	\$118.43	\$947.57	\$146.69	\$4,686.48	\$634,952.17
PER KWH CHARGE	\$0.12046	\$0.11640	\$0.11843	\$0.12980	\$0.13583	\$0.13390	\$0.09229
% DIFFERENCE	-10.79%	-1.10%	-4.74%	1.11%	-18.65%	7.10%	-11.40%
MIDDLETON MUNICIPAL LIGHT DEPT.							
TOTAL BILL	\$99.77	\$198.39	\$132.64	\$959.51	\$168.44	\$4,762.93	\$807,171.40
PER KWH CHARGE	\$0.13303	\$0.13226	\$0.13264	\$0.13144	\$0.15596	\$0.13608	\$0.11733
% DIFFERENCE	-1.49%	12.38%	6.69%	2.38%	-6.59%	8.85%	12.63%
WAKEFIELD MUNICIPAL LIGHT DEPT.							
TOTAL BILL	\$126.74	\$235.92	\$159.38	\$1,202.79	\$191.68	\$5,648.08	\$955,959.30
PER KWH CHARGE	\$0.16898	\$0.15728	\$0.15938	\$0.16477	\$0.17749	\$0.16137	\$0.13896
% DIFFERENCE	25.14%	33.64%	28.20%	28.34%	6.30%	29.08%	33.39%