

Reading Municipal Light Board of Commissioners

Regular Session

230 Ash Street

Reading, MA 01867

April 24, 2014

Start Time of Regular Session: 5:35 p.m.

End Time of Regular Session: 6:57 p.m.

Commissioners:

John Stempeck, Chairman

Phillip B. Pacino, Vice Chair

Robert Soli, Secretary Pro-Tem

David Talbot, Commissioner (Remote Participation)

Thomas O'Rourke, Commissioner

Staff:

Coleen O'Brien, General Manager

Bob Fournier, Accounting/Business Manager

David Polson, Facilities Manager

Hamid Jaffari, Director of E&O

Jane Parenteau, Director of Integrated Resources

Mark Uvanni, IT Manager

Patricia Mellino, Operational Assistant

Citizens' Advisory Board:

Dennis Kelley

Public:

None

Call Meeting to Order

Chairman Stempeck called the meeting to order and stated that the meeting was being videotaped, it is live in Reading only.

Opening Remarks

Chairman Stempeck read the RMLD Board of Commissioners Code of Conduct.

Chairman Stempeck welcomed new Commissioner Thomas O'Rourke and Dennis Kelley Citizens' Advisory Board (CAB) member.

Chairman Stempeck stated that Commissioner Talbot would be attending the meeting via remote participation due to geographic distance.

Discussion of Fiscal Year 2015 Capital and Operating Budgets

Fiscal Year 2015 Operating Budget

Ms. O'Brien thanked the Board for allowing the staff to present the Operating and Capital budgets this evening. The RMLD annually files a DPU report which provides the outline and basis for all electric utility budgets, FERC accounting essentially divides electric budgets into operating, the 500 and 900 series numbers and the capital which is the 300 series numbers. Ms. O'Brien stated that this evening each division manager will first provide the highlights of their operating budget and then their capital outlay. Ms. O'Brien said that the budget has been reformatted to tell a story via a six-year plan, what has happened, how we are doing and what we plan to do in the future. The justifications to what we do for all intended purposes are backed in large by engineering standards, science and a sprinkle of politics. Ms. O'Brien said that the objective is straight forward, we want the decal on the side of our trucks that says "Reliable for Generations" to be true. To maintain that objective a utility must have strategic plans in place that address the electric system, its power supply and employees along with its financial health. Ms. O'Brien said that these plans address efficiency, safety and procedures to optimize reliability, when formalized and implemented on a consistent basis we will be true to our motto. The six-year plan will remain updated, the operating six-year financials focus on revenues and our statutory duty to cover all of our production costs. The RMLD Capital Six-Year Plan focusses on reliability and the essential enterprise projects and appropriate funding including the Depreciation Fund balances.

Ms. O'Brien mentioned one issue is the percent change that is seen in the Operating Budget noting that this is not reflective or a difference from the FY14 budget, rather a percent difference from what has been spent. Ms. O'Brien then turned the meeting to Mr. Fournier.

Mr. Fournier stated that this evening the staff would be presenting the FY15 Operating Budget. Mr. Fournier said that he had distributed a handout prior to the meeting and would inform the Board when they should refer to it.

Discussion of Fiscal Year 2015 Capital and Operating Budgets

Fiscal Year 2015 Operating Budget

This evening they would only be reviewing the summary section and that the individual division's detail will be used as a reference but it would not be discussed. Mr. Fournier reported that the Six-Year Plan shows the current year as seven months actual and projecting out for the remaining five months of this fiscal year. The FY15 Operating Budget which will be presented tonight and going out four more years to show that picture. Mr. Fournier noted that the bottom line showing the ROR percentage which is the Rate of Return, by statute we are allowed to make up to 8% of our net plant and those percentages show what we are anticipating based on those revenue and expense projections for those upcoming years.

Mr. Fournier asked the Board to look at the first page of the handout Operating Budget Draft 1. This draft shows what is contained in this budget and that in FY15 the RMLD is projecting to about eighty-seven million dollars in expenses stating that this business is a highly fixed cost business. The purchase power base cost, fuel cost, depreciation, our commitments to the towns and normal accounting processes which are the miscellaneous deductions for loss and disposal and of the \$87M, seventy-three million of that is more or less fixed costs or 84% of the budget that leaves about 16% or \$14M of semi-variable costs which entails the balance of the budget. Some of the obvious items are labor expense, employee pensions and benefits, overtime, insurances, and training which all are normal accounting activities that take part during the year. Mr. Fournier said that the 16% is really a fraction of the total budget.

Mr. Fournier stated that each division manager will explain the main drivers that make up the 2015 budget to arrive at that \$2.5 million Net Income. Mr. Fournier said that on the last page of the three page handout, RMLD noticed some changes or adjustments that needed to be made in the \$2.5M that was presented in Draft I. The first two were a re-classification from the Capital labor budget to the Operating budget which was a decrease in net income of about \$15,800 and a \$45 adjustment on the CAB side to be as accurate as possible. Mr. Fournier reported that the big ticket item was the decrease in the tree trimming expense from \$757,000 to \$640,000 and stated that there will be a Draft II. Mr. Fournier stated that Draft II represents a Net Income of \$2.6M and that was what the CAB had recommended at their last meeting. Mr. Fournier said that the CAB is on board with this figure.

Mr. Fournier explained that they just covered the summary and the rest of the pages are the detail and that it breaks out the revenue and other expenses. Mr. Fournier stated that the next section is the description of RMLD's Power Supply which Ms. Parenteau will present.

Mr. Pacino entered the meeting at 5:45 p.m.

Ms. Parenteau reported that in the past with several new Board members one of the recommendations was that the various projects and unit entitlements be listed with a description. Ms. Parenteau said that following the description section is a list of the Purchase Power Expenses which are broken down by project type as well as capacity, transmission and energy. Some of the contracts are long-term unit contracts while some are energy only contracts.

Ms. Parenteau reported that the Capacity total was at \$16.3M and Transmission at \$12.556M for a total of \$28.889M for the FY15 budget. Fuel is projected to come in at \$36.249M based on the market conditions at the time the budget was created.

Chairman Stempeck asked if there were any questions. Mr. Soli asked if transmission should go up during the year, is there any response that the RMLD makes. Ms. Parenteau replied yes, currently within our rate structure the RMLD has a Purchase Power adjustment which looks at the forecasted transmission costs and it compares the actual transmission costs. If there is an increase midstream we are able to make adjustments through the Purchase Power Adjustment costs.

Mr. Fournier stated that the division managers would be addressing the key points within their budgets on the Budget/Actual Comparison Summary which is typically found in the monthly financials.

Ms. Parenteau reported on the Integrated Resources and Planning (IR&P) division. Within this division there are two primary focuses one being the wholesale side which is the Power Supply and the other focus in the group is the retail side with the efficiency programs as well as working with the RMLD's commercial customers and municipal towns. The RMLD is integrating both the wholesale side along with the customer base as well as tying into the electrical benefit for the short and long term reliability of the electrical system. The RMLD is actually integrating all of the programs with the electrical side, the wholesale side and the customer side and focusing the Integrated Resources and Planning budget in that direction.

Mr. Talbot asked if there was an increase in the efforts in this direction on how the RMLD will help commercial customers. Ms. Parenteau replied that the group is increasing their personnel, working on economic development programs to work with the municipalities that the RMLD serves in Wilmington, North Reading, Reading and portions of Lynnfield to try to grow the kilowatt hour sales that allows the RMLD to have lower rates.

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Mr. Talbot asked for clarification of what line item Ms. Parenteau was referring to. Ms. Parenteau replied that it was basically the strategy that the RMLD was moving forward with so there is no one particular line item. It is the direction that the Integrated Resources and Planning group along with the RMLD is working towards in terms of programs and staffing.

Mr. Talbot asked if the RMLD has enough communications infrastructure to do what Ms. Parenteau was talking about. Ms. Parenteau replied that she and Mr. Seldon have been actively working with Mr. Jaffari and the E&O group to utilize an outside vendor in lieu of having active personnel within the Department to assist them with that so that they would have the communication capabilities without utilizing any fiber.

Mr. Soli asked if Ms. Parenteau projected load growth for next year and if so how much. Ms. Parenteau replied that the RMLD has projected a flat growth minus the economic development piece, and that over the last five years the growth has been flat to slightly decreasing.

Chairman Stempeck said that there was talk of a meeting from Town Hall for economic growth or developing an economic growth portfolio.

Ms. O'Brien reported on the budgets for the General Manager, Human Resources, Community Relations, the CAB and Board. With respect to the General Manager's budget, the legal fees were being categorized in such a way that it did not make a lot of sense. They were reallocated so all legal fees that have to do with Power Supply would be under Integrated Resources & Planning, all legal fees that have to do with employees and unions would be put under Human Resources and all legal fees that may have to do with general questions or Chapter 164 statutory questions would come under the General Manager.

Ms. O'Brien stated that there is a part time Tech Admin that will be going into Integrated Resources & Planning to help with all of these programs moving forward and the other half was put into the General Manager's budget but needed to be reallocated to Community Relations. It is the RMLD's intent that Community Relations will be highly supporting Integrated Resources & Planning so that we can have a much better effort to convey to the public what we are doing on a consistent and regular basis.

Ms. O'Brien said that the miscellaneous under the General Manager is APPA, NEPPA and all of the industry related dues. As far as Human Resources is concerned other than the reallocation of the legal fees the miscellaneous has to do with the physicals, drug and alcohol testing, job postings, new employees, want ads and items of that nature. Ms. O'Brien reported that the supplies under Community Relations in general have to do with the Public Power Week open house along with the Rotary and Chamber dues. The CAB is a budget that is based on the Twenty Year plan that has to do with travel, training and consultants. That figure was adjusted slightly back down to \$15,000 to correct the typo that Mr. Fournier spoke of.

Mr. Pacino asked what is appropriate for the CAB and is that in compliance with the Twenty Year Agreement, stating there is a set amount in the Twenty Year agreement that they are to have each year. Ms. O'Brien replied that there was a typo and now this is in accordance with the plan. Mr. Fournier said that Mr. Pacino may not have been here when he reported that there was a \$45 adjustment to get the CAB back to a level \$15,000 level which is where they needed to be.

Mr. Polson, Facilities Manager stated that he is responsible for four budgets. In the General Benefits budget the main drivers are pension increases, OPEB (Other Post-Employment Benefits) and healthcare. Mr. Polson noted that in the Transportation budget which includes the fleet, there is no amount listed there because the money is allocated to the different operating groups and that budget is level funded with no changes. Mr. Polson reported that the RMLD has developed an eight to ten year plan for vehicle replacement which is in line with industry standards for other utility companies for the larger vehicles. The Building Maintenance budget is for the interior and exterior building maintenance for all the RMLD facilities and that there is no significant change. Materials Management is responsible for all the warehousing and insurances with no major change.

Mr. Fournier reported that the Business division is responsible for Administration section as well as internal and external customers. There are no major changes anticipated in FY15 from what we have currently in place except for some of the obligations that are required through agreements that need to be in effect. There are four departments that comprise of this division and except for normal increases there are really no significant changes happening this year in the Business division. Chairman Stempeck asked if there were any questions. Mr. Pacino asked what the depreciation rate is. Mr. Fournier replied 5 percent.

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Mr. Fournier said that the last division to report would be Engineering & Operations. He then instructed the group to refer to page seven of the handout.

Mr. Jaffari, Director of Engineering & Operations stated that he is in charge of Engineering & Operations, Technical Services and Facilities. The main drivers in the budget for operating expenses are education, preventative maintenance program, tree trimming, metering, street lights, outside services, labor and supplies. Mr. Jaffari stated that education is a main driver in the budget and reported that he and Ms. O'Brien were developing the CDPs (Career Development Plans) for the employees in response to their needs, skills and training that they need in order to do their job more effectively and efficiently. Training programs for the Substation Technical Services and Engineers in the area of the SCADA, Milsoft which is an engineering model, electrical code and outage management system.

Mr. Jaffari reported that another driver is the preventative maintenance program which includes hazardous waste, transformer disposal, pole inspection, maintenance of the aged overhead and underground facilities, also replacing the porcelain cutouts, the infra-red scan of the distribution system and substations as well as the substation vegetation.

RMLD is revamping the cyclic tree trimming program. Mr. Jaffari stated that once we have the engineering load flow model along with reliability indices they would indicate to us the problem areas. Then, we would modify the maintenance program to respond to the needs of the areas and make changes.

Expenditures in metering for calibration tools and testing meters, street light maintenance, outside services include the NERC (North American Electric Reliability Corporation) compliance consultants, the standards keep getting increased.

Mr. Jaffari reported that the RMLD is getting ready to be in compliance with another NERC standard on BES (Bulk Electric System), which is coming right around the corner. Labor is another driver in the budget, the department needs to hire two more staff in Technical Services in order to officially form the Technical Services group so they can perform testing at the substations. This will insure that RMLD can maintain the substations to make sure that reliability starts with the source for Stations 3, 4 & 5. Mr. Jaffari stated that there will be one new staff person in engineering to maintain the GIS model; right now the RMLD is trying to bring that model up-to-date, the data is being compiled with the assistance of consultants. Another new hire as part of the career development succession planning that Ms. O'Brien started is an Assistant General Foreman.

The next driver is supplies which include fire-resistant clothing, substation testing a big ticket item at \$150,000 to test all devices at the substations including transformers, breakers and relays so we set the baseline for moving forward to start the cyclic maintenance program (3-5 years) for testing and making sure that the substations are reliable. Chairman Stempeck asked if they are tested once per year, once every three years and asked what the cycle is. Mr. Jaffari replied that the breakers and relays should be tested every two to three years, personal preference for transformer testing is every three years, but can be tested up to every five years. The RMLD equipment has not been tested in so long that the current status is not known at this time, once there is confidence that the relays are functioning properly they can be tested in a two to three year cycle.

Chairman Stempeck asked if the training described also have to do with the RMLD performing the underground as opposed to using outside services. Ms. O'Brien replied that the UPG (United Power Group) will be performing a baseline assessment and testing that will double as training for Technical Services employees to get them off the ground. As Mr. Jaffari stated this will give us a baseline of where of our equipment is so that we can come up with a cycle of maintenance program. The RMLD will go with Fischbach & Moore until the end of that contract so we will be able to double up on not only the underground work but also get the training aspect out of it as well. Chairman Stempeck asked what was left on the length of the contract. Ms. O'Brien stated that it was her belief that the Fischbach & Moore contract goes through 2015 and the UPG for the maintenance will be three to four months and then there will be a baseline to put into the program and we are off and running from there.

Mr. Jaffari said that they have already developed a cyclic maintenance program that will automatically tell us when the next due date is, this was done for Stations 3, 4 & 5 and we are now just waiting for the data to be compiled, once the data is entered the software will figure out the next due date for retesting. Ms. O'Brien stated that was done in-house.

Mr. O'Rourke asked on education and development, how much is instructor-led versus online and how much is in-house versus outsourced. Mr. Jaffari replied that mostly the training will be outside and that some of the in-house training he can provide himself, as well as Ms. O'Brien and other employees. For example; the Milsoft training will initially be done by the vendor then the subsequent training for engineers he can do himself. Mr. Jaffari stated that because of his affiliation with ECNE and the fact that he teaches courses for them training will be discounted for the RMLD employees.

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Mr. O'Rourke asked if there was much training online. Mr. Jaffari replied that it is his experience that for technical courses you really need in class interaction with an instructor and the classroom environment is much better for learning. Remote courses are much better for refresher courses once you have the basic understanding and knowledge from the classroom environment.

Mr. Fournier as he stated at the outset that there would be Draft II this draft will show approximately \$100,000 increase in Net Income from Draft I from \$2.5M to \$2,652,997. The CAB did take a vote at 5:00, and made a recommendation to accept that figure for the FY15 Operating Budget.

Fiscal Year 2015 Operating Budget

Mr. Pacino made a motion seconded by Mr. O'Rourke that the RMLD Board of Commissioners move to recommend the Fiscal Year 2015 Operating Budget with an Adjusted Net Income of \$2,652,997 as presented.

Chairman Stempeck polled the Board. Motion carried by a polling of the Board:

Mr. Talbot; Aye, Mr. Pacino; Aye, Mr. O'Rourke; Aye, Mr. Soli; Aye, and Chairman Stempeck, Aye.

Motion carried 5:00.

Mr. Soli stated that he would like to make an amendment to the motion.

Mr. Soli made a motion that the non-fuel FY15 Operating Budget with an Adjusted Net Income of \$2.65M as it was approved and that the fuel budget target a \$2.5M a year end balance with progress towards these goals be reported to the RMLD each month.

Chairman Stempeck asked Mr. Soli to comment on the amendment and to explain why. Mr. Soli asked if someone would second the motion. Chairman Stempeck asked if there was a second. Mr. Pacino replied that he did not understand the amendment and it would be appropriate to explain what it is that is trying to be accomplished. Mr. Soli replied that the number did not change and said that in the spring we got into trouble because the Board could not see that the real bottom line was being missed as opposed to businesses where they have one bottom line we have two. One bottom line we are allowed to make a profit, the other is the fuel charge that we are allowed to pass through to the customers but not make any money and this motion mixes those two up. Mr. Soli said that we really should keep our eye on two balls, how we are doing towards the amount that is 8% taking out the fuel and then how is the fuel doing towards meeting the reserve. Chairman Stempeck said so this is to provide more visibility and transparency into what it is, it is not depending on the budgeted numbers but tracking it on a month by month or quarter by quarter basis. Mr. Soli stated that we do get the numbers, but no one has been subtracting out the fuel.

Ms. O'Brien asked Ms. Parenteau to speak to this unbundling and make a recommendation on the motion. Ms. Parenteau said that it is her understanding with the new Cost of Service and how the Department is going to be unbundling their rates so that the distribution charge will be separated with the power supply charges which will include capacity, transmission and fuel. Ms. Parenteau believes the point that Mr. Soli is making is because the way the rates are currently structured part of the power supply costs are embedded in the base rates which make it difficult to track as he had said. The Cost of Service proposal and the directive that the consultant is working on is to unbundle those rates so that there will be much more transparency in terms of the power supply being a pass through and the 8% that the Board is speaking of. Ms. Parenteau stated that this should help the Board in terms of those financials and the transparency of the power supply skewing the overall bottom line. Chairman Stempeck asked then that this will accomplish the same thing that Mr. Soli is asking for. Ms. Parenteau replied yes.

Chairman Stempeck stated that if it does not then it can be addressed in terms of another motion at the next meeting or the appropriate meeting to then further unbundle it so we get an idea of what is happening and then asked Mr. Soli if that would serve the purpose. Chairman Stempeck asked how difficult is it to meet Mr. Soli's motion, is it merely a redistribution of the financials to basically reconstitute them or is it significantly more difficult to do the unbundling at this point in time.

Mr. O'Rourke said that the amount is not changing so we can approve the amount as originally motioned it sounds like it is a reporting or displaying data issue which he is in favor to have visibility on items that are not so easy to find but that could be accomplished with an addendum or summary to be reported monthly. Mr. O'Rourke is not sure it changes the motion. Ms.

O'Brien said that we spoke to this issue which is one of the objectives of unbundling, when you unbundle you are separating all of power supply including fuel which are all pass-throughs and the RMLD does not make money on any of them.

Ms. O'Brien stated that we are working towards unbundling and to do that will be part of the Cost of Service presentation.

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Ms. O'Brien believes that the billing system is going to be able to handle that, so we working towards that objective and is not sure the purpose it serves right at this very moment when we are working towards what Mr. Soli had requested. Mr. Soli said that in the past Cost of Service studies the capacity and transmission we made money on. Mr. Soli recollected that when the new set of rates came out the PPA that was on the bill then went into the base charge. Ms. Parenteau said that we do not make money on it what happens is that it is a part of revenue and when you look at the Mr. Fournier's calculation in terms of what the Department is able to earn a return on that is our net plan which comes out of the revenue so we never make any money on capacity or transmission. Ms. Parenteau stated that we collect revenue for our rate structure and are able to earn a return on the net plant.

Chairman Stempeck said that he would like to table this to an offline discussion. Ms. Parenteau stated that we could accomplish what Mr. Soli is requesting through a reporting mechanism, unbundling the rates would accomplish this and that is scheduled to be implemented for this this fiscal year. Chairman Stempeck asked if Mr. Soli would withdraw his motion and move to table it to see if the reporting can accomplish the same mechanism. Mr. Soli replied that we have two balls that we should keep our eyes on and previously we only kept our eye on one and it got us in trouble. Mr. Pacino commented that he did not fully understand what Mr. Soli was trying to accomplish. Chairman Stempeck said that they should look at it and consider it absolutely but right at this moment he did not understand it either.

Mr. Pacino said that they should vote on the budget, instruct the Department to take a look at this and report back to the Board at the next meeting in order for the Board to get a better understanding of what this is trying to do. Mr. Soli stated that was fine.

Chairman Stempeck said that he would like to go back to the original motion and if everyone is in favor a roll call vote would have to be taken because Mr. Talbot is participating remotely.

Discussion of Fiscal Year 2015 Capital and Operating Budgets

Fiscal Year 2015 Capital Budget

Ms. O'Brien reported that the RMLD staff has done an excellent job generating the new capital outlay which now includes similar to the Operating Budget a six-year plan. While we are here tonight to focus on FY15 and have provided to you where we expect to land at the end of FY14, what is scheduled for FY15 and then what is planned for FY16 through FY19. New focus items that were mentioned previously include the GIS which is the mapping system that produces the geographically correct map of our system assets, the GIS as Mr. Jaffari stated is the basis for our engineering modeling software that works to determine the accuracy of our system, coordination and protection as well as our future reliability planning addressing capacity and flexibility to meet the challenges of the future including areas that we may be able to get additional kilowatt hour sales. The second area that was discussed previously is the lack of system maintenance where we are developing a predictive asset management system that would tie into the GIS and serve as a basis for assessing the current condition of our assets, with the appropriate data loaded, it will support predictive maintenance to extend the life of the equipment and schedule replacements prior to any equipment failure.

The LED streetlight conversion of which the pilot report is completed the Board will be receiving a copy of that this week. It includes converting approximately 8,000 lights at less than \$3M for significant energy savings to each of the towns and a decrease in maintenance. Engineering is finalizing the pilot program. It targets the areas for the pilot program LED light placements within each town. Ms. O'Brien said that she along with Ms. Parenteau and Project Engineer Brian Smith are meeting with each of the Town Managers and the CAB representatives from each town to go over the pilot. Ms. O'Brien reported that the streetlight rate is being produced and will be presented at the Cost of Service presentation. Inventory is now being stocked with LEDs and the RMLD will no longer carry the conventional lights and the towns will be credited for any lights that the RMLD replaces.

Ms. O'Brien turned the focus to the capital outlay spreadsheet where it shows the six-year plan for Facilities, MIS and the System. On the right hand side is a tickler with an explanation of the objective of the project and on page two is where the funding schedule can be found for the plant depreciation. Ms. O'Brien explained that some of the items that go beyond FY15 it does not necessarily mean the money will be spent it is a place holder and that we are taking a conservative approach to make sure that we have the funding. The table lists the starting amounts what we might be looking for and any type of force accounts where we might get any state reimbursements or bonding and it shows where we will land.

Mr. Polson reported that the HVAC budget was a multi-year plan that was discussed and approved in previous years and reflects the plan out over a period of two years.

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The Master Site Plan is very similar that was approved last year with place holders for FY16 and FY17 for anticipated work that will be the result of the Master Site Plan.

The Station 1 Rehabilitation Project will be part of the overall site plan and was moved out pending the outcome of Master Site Plan for the best use of the buildings.

The Covered Storage is the same situation falling under the site plan as well.

Mr. Polson stated that the Oil Containment Project is new and that the RMLD has a consultant studying the facilities. Mr. Polson reported that right now the RMLD is in compliance and has a Spill Prevention, Control and Countermeasure Plan (SPCC) and that we are evaluating the facilities for opportunities to mitigate any potential risk that we might have. The RMLD will have studies performed this year and work performed next year.

The Security Upgrades are to make sure that the RMLD is compliant with the NERC and FERC requirements at the substations and that the RMLD on a regular basis makes security improvements at its facilities. Mr. Polson stated that over the next few years there will be added security at the substations.

Mr. Polson said that the Rolling Stock Replacement Project was developed as a ten year plan. The plan helps to make sure that we are leveling our vehicle replacement and reducing maintenance costs on the fleet. Chairman Stempeck asked if the Rolling Stock was getting more reliable. Mr. Polson replied that we have reduced some of our stock including trucks, trailers and vehicles and we are constantly evaluating the stock while reducing the fleet. Mr. Polson stated that we do need to maintain enough vehicles to address situations like severe weather and to ensure that the vehicles are all operating correctly. The history of the fleet is that they have all been up and running during critical times and credits this to a very good vehicle maintenance plan. Mr. Polson said that this too will be evaluated as part of the Organizational Study.

Mr. Uvanni reported on three items in the Capital Budget, Hardware and Software Upgrades and Licensing. The first project is the Great Plains/Cogsdale Update. The RMLD will be updating the back office Financial and Customer Service Management software which is about ten years old and is at the end of its lifecycle. A conversion/migration will be performed and will take up approximately the rest of calendar year 2014 and could possibly go into calendar year 2015. Mr. Uvanni stated that it is going to be a big project personnel wise because it touches everybody and there will be a lot of training and testing involved.

Mr. Uvanni said that there will be Hardware and Software Upgrades and Licensing and that this year the hardware line item for the most part encompasses turning everything into virtual machines. Mr. Uvanni reported that we are just about done but there are a few left and then to virtualize all of the servers, the related software, the backup software, storage area networks and replication software that goes with it. On the pure software side Mr. Uvanni stated that money is always put aside for custom programming to build up the integration between Outage Management, GIS, Utility Authorization Number Management System and other specific software for backup and replication of virtual machines and related systems. Mr. Uvanni reported that the Great Plains/Cogsdale is the big project this year.

Chairman Stempeck asked if there had been any issues relative to this Heartbleed Bug virus. Mr. Uvanni replied that it is a wide spread issue and that people use open source software for SSL for Secure Sockets Layer connections so it affected roughly two-thirds of all secure websites. Mr. Uvanni stated that we have not run into it yet, the big companies like Microsoft, the Googles and a lot of the major banks have already patched it but obviously it caught a lot of people by surprise.

Mr. O'Rourke asked on the Customer Service software update what is the expected go live date and is there much of a potential impact on Customer Service when that happens. Mr. Uvanni replied that the go live date is the second or third week of December, we really want to do it by the end of the year but it really is a big undertaking mostly training and extensive testing. There are so many things that it touches from metering to service orders, credit and collections, receivables, the bill itself which will have a change of format.

Mr. O'Rourke asked if it was a hard cut or do you run parallel systems. Mr. Uvanni replied that you run parallel for certain things but it is very difficult to run parallel in everything, you almost create more work and more confusion by trying to tie everything out. The bottom line is to make sure that your receivables bill for bill ties out that is really the main concern. Mr. Uvanni said that if he were to choose a bill on the current system with all things being equal is that bill going to look the same. This is the bottom line on the new system so that is really where you test.

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Mr. Uvanni stated that he had been through a few of these before and there is a process that they will follow and as far as customer service for our customers the impact is minimal to none.

Mr. Jaffari reported on the capital authorization improvement projects for his section starting with Project 108, Relay Replacement – Station 4. Currently at the Gaw substation there are electromechanical relays that are not capable of bringing analog data to the Remote Terminal Unit (RTU) back to the SCADA only one phase. In order to enhance the capability and use the full capacity of the SCADA system we need to replace those with solid state relays so we can bring more power quality data back especially power factor and the harmonics.

Mr. Jaffari reported on Project 130, Remote Terminal Unit (RTU) Replacement – Station 3 and said that there are actually two RTU replacements one at Station 3 and one at Station 5. Station 5 should be complete by the end of June to mid-July 2014 and Station 3 will be done in FY2015. The current RTU at Station 3 is not capable of providing all the data such as voltage, current and the effect on harmonics by upgrading that it is going to be operating the SCADA system now they will be synced in to bring more data back for engineering and analysis.

Project 122, Engineering Analysis Software & Data Conversion this project along with Project 125, GIS go hand in hand. Mr. Jaffari explained earlier that GIS is a platform for engineering models and once we have the data in the GIS database completed then we can convert that model into an engineering Milsoft model. Then, the Department will have an up-to-date load flow model that we can perform all sorts of engineering analysis.

Mr. Jaffari reported on state-funded project on West Street, Reading. This project is scheduled for construction completion in FY2015 to widen the road. The next project is Pole Line Upgrade – Lowell Street, Wilmington. This area is of old construction and needs to be brought up-to-code by upgrading the poles, wires and circuits. Mr. Pacino asked where they are going to widen West Street. Mr. Jaffari replied that it would be close to Route 93.

The next project discussed was Distribution Protection & Automation. Mr. Jaffari reported that once they have the working load flow model and the Reliability Study recommendations, this will provide the road map for automation in order to further sectionalize the circuits. Mr. Jaffari said adding more protective devices prevents tripping breakers due to a fault at the end of a circuit and it minimizes the affected outage areas. Mr. Jaffari stated that you have to have a road map for planning ten to fifteen years ahead.

Mr. Jaffari reported on the SCADA System Upgrades stating that the Surveillance Software is upgraded for free and that they are also going to provide us with the Outage Management System upgrade for free. However, there are some costs involved for installation and training and that will be about \$60,000. Once the SCADA System is brought up-to-date with the RTUs at the substations we will have the capability to bring data back from substations to SCADA for engineering analysis. This is going to enhance the capability of the engineers in order to do all sorts of engineering analysis.

The LED Street Light Pilot Area project will be in four areas, one area in each of the four towns. Mr. Jaffari reported that there will be eighty lights then subsequently the following years FY16, FY17 and FY18 the RMLD will be spending close to \$1.2M each year in order to change out all the street lights to LED efficient lights.

Mr. Jaffari reported that the Outage Management Software & Integration project goes hand in hand with the SCADA System upgrade.

The Predictive Asset Management Program project which is a number of predictive programs and once we have the working model we can develop these programs in order to protect our assets.

Mr. Jaffari reported on the Substation Test Equipment project, as we form the Technical Services group so they can test the substations we will need to provide them with the testing equipment. Mr. Jaffari stated that right now we rely on UPG and once the RMLD staff is trained we will be taking the ownership and will be testing our 13.8 kV equipment from A-Z including transformers and breakers. However, for some 35kv devices and 115kv we will still have to rely on outside services like UPG.

Mr. Pacino left the meeting at 6:45 p.m.

The Arc Flash Study project, Mr. Jaffari reported this is another requirement that we need to meet. This study is going to be performed as soon as the Milsoft model has been completed. Mr. Jaffari said the Arc Flash Study will see which devices need to completely shut down in order to perform switching or maintenance work safely.

Discussion of Fiscal Year 2015 Capital and Operating Budgets

Fiscal Year 2015 Capital Budget

Mr. Jaffari reported that the RFP has been sent out for the Organizational/Reliability Study to provide a road map for the next twenty years with an outline on the priority on how we need to allocate the money and the spending in order to make sure that we are going in the right direction with a plan in place.

Mr. Jaffari stated that the rest of the projects are continued and are historic to previous years FY13 continuing to FY19.

Mr. Soli said that he was the Board representative at the CAB meeting and had written down a few notes that may be of interest. It looks like the depreciation for next year will be at 3% the General Manager had said that sometime in the future that it might be necessary to fund this plan to increase the depreciation to 5%.

Ms. O'Brien stated that what is in here beyond FY15 is place holders, it does show that one way of doing it is that the DPU allows you to increase your depreciation up to 5% and you have to file. This targets areas like the facilities, if we are looking at the efficiency use of all of our facilities and we would spend a certain amount of money to renovate the architectural building next door or whatever we are going to do with that along with the LED street lights we would ramp up to five then back down to three.

Mr. Soli said that within the Capital Budget between improvements that are probably pretty well thought out but we do not know what the escalation is and these are prosperous times and other things that look to be just place holders there is about \$1M in here of what seems to be somewhat or quite iffy. Mr. Soli asked if the Board could get a report of how the plan is fleshing out. Chairman Stempeck said that those place holders are there because we are doing things new and differently and that we are setting that foundation for the future and sometimes it is very difficult to see into the future unless you have them in place. Chairman Stempeck stated that clearly we are all about reliability and lowering the costs where we can. Mr. Jaffari said reliability, efficiency and productivity are the three main ingredients behind all the forecasting of the capital improvements moving forward.

Ms. O'Brien stated that prior to this budget you never saw what happened in FY14, now we are letting you know how we are doing with last year and as soon as this gets approved and we get into FY15 then you will get a how we are doing in FY15 with all of the budgets. Ms. O'Brien said that Mr. Jaffari would go over them quickly during the meetings. Chairman Stempeck said that clearly the visibility of the future years is the way it should be done.

Ms. O'Brien stated that there was talk at one of the meetings that we are upgrading the Ballardvale Area to Target. Ms. O'Brien said that we are probably looking at some kind of substation in that area and are waiting for the consultant. Mr. O'Rourke said that it gives you visibility and enables discussion and if you are not on the radar screen you do not have a chance to talk about it.

Mr. O'Rourke asked that something like the GIS in the systems area is there much support or interface with the Information Technology group because a lot of your areas have a heavy IT component. Mr. Jaffari replied that there is close coordination and at the last meeting it was mentioned that he and Mr. Uvanni had provided a technology roadmap and would share that with him. This roadmap shows how all the different technologies come together and it shows how they managed. Ms. O'Brien said that it operates on a super highway like a service bus where you have outage management, metering, data, SCADA where this all integrates in so it can all be managed where not one system can be down and effect everything else.

Fiscal Year 2015 Capital Budget

Mr. Soli made a motion seconded by Mr. O'Rourke that the RMLD Board of Commissioners move to approve the Fiscal Year 2015 Capital Budget dated March 28, 2014 in the amount of \$5,849,673 as presented.

Chairman Stempeck polled the Board. Motion carried by a polling of the Board:

Mr. Talbot; Aye, Mr. O'Rourke; Aye, Mr. Soli; Aye, and Chairman Stempeck, Aye.

Motion carried 4:0:0. (Mr. Pacino was not present for this motion.)

Adjournment

At 6:57 p.m. Mr. Soli made a motion seconded by Mr. O'Rourke move to adjourn the Regular Session.

Chairman Stempeck polled the Board. Motion carried by a polling of the Board:

Mr. Talbot; Aye, Mr. O'Rourke; Aye, Mr. Soli; Aye, and Chairman Stempeck, Aye.

Motion carried 4:0:0. (Mr. Pacino was not present for this motion.)



**READING MUNICIPAL LIGHT
DEPARTMENT**

***FY 2015
CAPITAL BUDGET***

MARCH 28, 2014

Coleen O'Brien
General Manager

FY15 CAPITAL BUDGET

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Reading Municipal Light Department
SYSTEM PROFILE
(based on CY 2013)

SERVICE TERRITORY	51 square miles serving Reading, North Reading, Wilmington and part of Lynnfield
TOTAL OPERATING REVENUES	\$78,928,607
NUMBER OF CUSTOMERS	29,599
ANNUAL PEAK LOAD	167,759 kW on July 19, 2013
ANNUAL SALES	696,522,779 kWh
PLANT VALUE	\$128,824,441 (Gross) \$69,875,363 (Net)
SUPPLY VOLTAGE	115 kV
SUPPLY CAPACITY	<i>Station 4:</i> (3) 60 MVA Transformers (2) 40 MVA Transformers 260 MVA Connected, 200 MVA Firm <i>Station 3:</i> (2) 60 MVA Transformers 120 MVA Connected, 60 MVA Firm
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	3,729 – 253.37 MVA Capacity
DISTRIBUTION SUBSTATIONS	(3) 380 MVA Capacity
UTILITY POLES	17,225 poles <i>Ownership:</i> 65% Verizon, 35% RMLD <i>Ownership By Town:</i> North Reading – RMLD Lynnfield – Verizon Reading <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 Wilmington <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)

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READING MUNICIPAL LIGHT DEPARTMENT Capital Improvements FY14-19

\$ Shown in thousands

Rows Shaded (beige) Represent
Completed Projects

TOWN	PG #	PROJECT #	PROJECT NAME	FY14 BUDGET	FY14 YTD Actual (2/2014)	FY14 EST.	FY15 PLAN EST.	FY16	FY17	FY18	FY19	BRIEF DESCRIPTION
F A	4	121	HYAC System Upgrade - 230 Ash Street	275		50	399	250				Replace (2) boilers, (2) chillers, (3) air handling units, (2) building automation systems addressing air filtration and efficiency.
F A	6	129	Master Facilities Site Plan	150		50	50	2,000	2,000			Study will include consideration of solar generation on-site and best use of all facilities including leased.
F A	n/a	124	Rehabilitation of Station 1, 225 Ash Street	520				500	2,000			Proceed based on findings of Master Facilities Plan. Offset by potential sale of 230 Ash.
F A	n/a	120	Build Covered Storage	150								Model into project 129.
F A	9	180	Oil Containment Facility Construction			80	80					Comprehensive study of all sites and temporary measures; oil water separator, environmental compliance.
F A	11	180	Security Upgrades All Sites			61	61	29	25	25		Access control, alarm monitoring, video and perimeter monitoring along the fence lines.
F A	14	118	Refilling Stock Replacement (vehicles, trailers fork trucks)	470	245	470	434	439	431	523		560 Scheduled vehicle replacement.
M A	19	180	Great Plains/Capable Update				350	50				Data conversion and upgrade to including software, hardware, training, consulting, and project management.
M A	22	127	Hardware Upgrades	181	93	98	102	122	122	122		200 Upgrade ESX servers, upgrade EMC SAN storage, GIS server.
M A	24	128	Software and Licensing	180	50	73	122	146	146	146		146 Custom programming OM/UBH/GIS/GPS; Vector One cluster license, Sharepoint and 80 Cal's
M A	27	101	SW9 Reconductoring - Balladale Area, Wilmington	165	32	169	253	196				Upgrade 7,000' of circuit to 795 spacer for capacity feeding Balladale area (Target).
S L	29	104	Upgrading of Old Lymfield Center URDS (Good's Farm)	411	10	174	217					Upgrade for reliability and to meet construction standards.
S R	31	105	4WS-4W6 Tie	97	10	35	70					Install 1,500' of circuit S56 spacer in order to shift distribution load feeding Addison Wesley and South Main St and complete extension to Summer Street.
S R	33	108	Relay Replacement - Station 4 (Gow)	117			50	67				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	35	130	Remote Terminal Unit (RTU) Replacement - Station 3	84			85					Upgrade to add functionality of the existing SEL relays. RTU will be IP addressable and will include Ethernet connection.
S A	37	122	Engineering Analysis Software & Data Conversion	37	18	25	55					Microsoft engineering modeling integration with GIS.
S A	39	125	GIS	0		30	150					Current GIS model requires data integrity and quality inspection. Comprehensive data collection.
S R	42	180	Force Account West Street, Reading				224					Reconstruction of West Street, R. (State project). Estimated July 2014 start date. Partial state reimbursement (cost/revenue).
S W	44	180	Pole Line Upgrade - Lowell Street, Wilmington				173					Upgrade (20) poles to proper strength, create proper clearance between utilities and transfer. Benefit to long term reliability.
S A	46	180	Distribution Protection & Automation				69	30	30	30		30 Install reclosers on feeders for fault isolation and installing capacitor controls for various cap banks on the system.
S A	48	180	SCADA System Upgrades - Hardware				63					Upgrade SCADA system to a new version supporting new technology.
S A	50	131	LED Street Light Pilot Area - All Towns			10	37	1,200	1,200	1,200		Pilot to be done in FY15. Potential FY15 Grant.
S A	52	180	Outage Management Software & Integration				85					
S A	54	180	Predictive Asset Management Program				80	80	30	30		30 Asset management system to track distribution and substation assets in a preventative manner.
S A	56	180	Substation Test Equipment				121	50	30	30		Purchase of test equipment for substation and metering.
S A	58	180	Art Flash Study				35					
S A	60	180	Organizational/Reliability Study				100	100				
S A	63	116	Transformers & Capacitors	284		456	444	300	300	300		300 Purchase of units for proposed projects and stock.
S A	65	125	Communication Equipment (fiber optic)	100	7	20	30	25	25	25		25 Materials to accommodate expanded use of fiber optic network.
S A	67	117	Meters Purchases (Including 500 Club)	345	134	268	127					Purchase Meters for stock. 500 Club meter upgrade is being investigated.
S A	69	105	URD Upgrades - All Towns	210	22	210	319	213	213	213		213 Replace primary and neutral cables and pad mount transformers as needed in various aging URDs. Improved reliability.
S A	71	107	Step-down Area Upgrades - All Towns	233		179	203	250	250	250		250 Convert areas to 15 kV, remove antiquated equipment and step-downs to lower losses and improve system efficiency.
S A	73	112	New Service Installations (Commercial/Industrial)	56	27	42	57	50	50	50		50 Install new and upgraded commercial three-phase electrical services as requested.
S A	73	113	New Service Installations (Residential)	200	151	236	260	250	250	250		250 Install new and upgraded residential services as requested.
S A	77	114	Route Construction	1,014	1,017	1,576	947	1,000	1,000	1,000		1,000 Non-project capital including labor, pole sets, transformers, US, police details, and OT.
F A	123	103	New Radio System	100	93	99						New digital radio system to provide better coverage and added features.
S L	103	103	Upgrading Old Lymfield Center URDS (Trog Hawley)	141	71	71						Upgrade for reliability and capacity and to meet construction standards.
S L	801		Essex Street Reconductoring		59	59						7,200' of 335 spacer cable and (3) transformers. Improved reliability.
S NR	110		Station 3 - Replacement of Service Cans	30		30						Replace potted porcelain cans which are prone to failure.

READING MUNICIPAL LIGHT DEPARTMENT Capital Improvements FY14-19

\$ Shown in thousands

TOWN	PG #	PROJECT NAME	FY14 BUDGET	FY14 YTD Actual (2/2014)	FY14 EST.	FY15 PLAN EST.	FY16	FY17	FY18	FY19	BRIEF DESCRIPTION
S	R	111 Station 4 Gateway Replacement - 4W13	245	138	158						Replace 1,700 circuit feet of UG cable on 4W13 w/750 cu for increased capacity and reliability.
S	R	109 Station 4 (Gaw) 33kv Potential Transformer Replacement	40		40						Replace six 30+ year old potential transformers.
S	W	115 Station 5 - Gateway Replacements SW9 and SW10	95		95						Underground cables are original to substation (early 1980's). Upgrade feeders for load and reliability reasons, and create a spare feeder on Bus E.
S	W	802 West Street - 4W13 OH Reconductoring	162	165	165						Upgrade 3,500 circuit feet of 33kv spacer cable with 795 spacer cable for increased reliability and capacity.
S	W	810 Station 5 RTU Replacement			33						Purchase pre-wired RTU enclosure to replace existing RTU enclosure which is unsupported and does not have enough points.
S	R	T80 Station 4 (Gaw) Back-up Generator					103				Purchase and install an emergency generator for Gaw Station 4.
S	R	T80 4W9 Gateway Replacement - Station 4					239				Upgrade 2,850 circuit feet of UG cable on Causeway Road and Lowell Street, R, with 750 mm cu for increased reliability and capacity.
S	R	T80 4W4 Gateway Replacement - Station 4					341				Upgrade 3,700 circuit feet of UG cable on West Street, R and West St. W to 750 mm cu for increased reliability and capacity.
S	W	102 4W4 Reconductoring - Wilmington	166				170				Upgrade 5,500 circuit feet of 33kv spacer cable on industrial Way with 795 spacer cable for increased reliability and capacity.
S	W	TBD SW5 Reconductoring - Wildwood to Union Drive					214	214			Upgrade 25,000 circuit feet of 33kv spacer cable on Wildwood, Woburn, and Andover Streets to 795 spacer cable.
S	R	TBD 4W5 Gateway Replacement - Station 4						234			Upgrade 1,700 circuit feet of UG cable on West Street, R to 750 mm cu for increased reliability and capacity.
S	R	TBD 4W6 Gateway Replacement - Station 4							243		Upgrade 1,850 circuit feet of UG cable on West Street, R to 750 mm cu for increased reliability and capacity.
TOTAL			6,102	2,382	5,041	5,850	8,410	8,571	4,671	3,079	

TABLE 1: PLANT VALUES & DEPRECIATION EXPENSE

Plant in Service (Beginning)
Additions
Adjustments (Property Retirement)
Plant in Service (Ending)
Less Land and Land Rights
Depreciable Plant in Service

Accumulated Reserve For Depreciation

Net Plant in Service

Maximum allowed Return on Net Plant (%)

Maximum allowed Return on Net Plant (\$)

Estimated Return on Net Plant (%)

Estimated Return on Net Plant (\$)

Bond Proceeds and Other Fund Sources

Prior Year Adjustment

Capital Improvements

Principal Payment

Ending Balance

TABLE 2: DEPRECIATION FUND BALANCES

* Interest Rate on Fund Balances

Mass DOT (Highway): West Street

TABLE 3: BOND PROCEEDS & OTHER FUND SOURCES

Mass DOT (Highway): West Street

FACILITIES MANAGEMENT

Continuing Projects:

	Page #	Project #
⌘ HVAC System Upgrade	4	121
⌘ Master Facilities Site Plan	6	129
Rehabilitation of Station 1 – Pending Master Facilities Site Plan		124
Building Covered Storage – Pending Master Facilities Site Plan		120

New Projects for FY15:

⌘ Oil Containment Facility Construction	9	TBD
⌘ Security Upgrades – All Sites	11	TBD

Annual Projects:

⌘ Rolling Inventory	14	118
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CAPITAL PROJECT SUMMARY

Project Name: HVAC System Upgrade – 230 Ash Street

Project Schedule: FY14-16

Project Manager: David Polson
Facilities Manager

Reason for Expenditure:

Upgrade the HVAC system at 230 Ash Street.

Brief Description/Scope:

Replace two (2) boilers, two (2) chillers, three (3) air handling units, two (2) building automation systems; address building envelope and air infiltration. Improve the overall energy efficiency of the building.

FY 2015 – Replace boilers, chillers and ABS – Estimated Cost \$400,000

FY 2016 – Replace Air Handling units and remaining ABS – Estimated cost \$250,000

Barriers:

Final design and equipment lead time.

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

Scope of work remains the same.

Status Update From Prior Fiscal Year:

FY14 Estimated spending \$50,000 for project preparation, engineering and design costs.

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: HVAC System Upgrade - 230 Ash Street

SCHEDULE: FY14-16

PROJECT #: 121

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC.	TOTAL
Replace boilers, chillers and ABS.				\$39,079		\$360,000	\$399,079
14.25 weeks Facilities Labor	Unit Cost			\$2,742	per week		
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost						

Total RMLD Crew Weeks
Total U/G Crew Weeks

TOTAL \$39,079 \$360,000

FY15 ESTIMATED COST: \$399,079

Estimated: FY14 \$50,000
Estimated: FY16 \$250,000

ESTIMATED TOTAL PROJECT COST: \$699,079

CAPITAL PROJECT SUMMARY

Project Name: Master Facilities Site Plan

Project Schedule: FY14-17

Project Manager: David Polson
Facilities Manager

Reason for Expenditure:

The Master Facilities Site Plan will continue into FY15 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 the 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: Increase (Decrease)

Status Update From Prior Fiscal Year:

FY14 The study will be influenced by the Organizational Study and additional collaboration with the Town. Facilities Master Site Plan RFP will be sent out at the end of March 2014.

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Master Facilities Site Plan

SCHEDULE: FY14-17

PROJECT #: 129

ITEM	CREW WEEKS	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.						\$38,000	\$38,000
Unit Cost							
Facilities Department Labor:				\$12,341			\$12,341
4.5 week (s)				\$2,742		per week	
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
Police Details (if applicable)							
Unit Cost							

TOTAL \$12,341

FY15 ESTIMATED COST: \$50,341

Estimated: FY14 \$50,000

ESTIMATED PROJECT COST: \$100,341

FACILITIES MANAGEMENT

NEW PROJECTS

CAPITAL PROJECT SUMMARY

Project Name: Oil Containment Facility Construction

Project Schedule: FY14-15

Project Manager: David Polson
Facilities Manager

Reason for Expenditure:

Perform a study and take temporary measures related to oil containment at Station 3 and the Ash Street Campus

Brief Description/Scope:

RMLD stores new and used oil filled equipment in multiple locations. This project provides engineering and design services, centralizes the location of the equipment and provides temporary containment measures. There will be two containment areas, one at the Ash Street Campus and a second at Station 3. Permanent concrete containment areas will be installed in FY15.

Barriers:

Engineering, Design & Permitting

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

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Oil Containment Facility Construction

SCHEDULE: FY2014-15

PROJECT #: TBD

ITEM	CREW WEEKS 4-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.						\$80,000	\$80,000
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost						

TOTAL \$80,000

FY15 ESTIMATED COST: \$80,000

Estimated: FY14 \$80,000

ESTIMATED TOTAL PROJECT COST: \$160,000

CAPITAL PROJECT SUMMARY

Project Name: Security Upgrades – All Sites

Project Schedule: FY15-19

Project Manager: David Polson
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: Increase (Decrease)

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Security Upgrades - All Sites

SCHEDULE: FY15-19

PROJECT #: TBD

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 alarms and perimeter fencing.				\$10,970		\$50,000	\$60,970
4 weeks Facilities Labor	Unit Cost			\$2,742	per week		
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost						

TOTAL

\$10,970

\$50,000

FY15 ESTIMATED COST: \$60,970

Estimated:	FY16	\$25,000
	FY17	\$25,000
	FY18	\$25,000
	FY19	\$25,000

ESTIMATED PROJECT COST: \$160,970

FACILITIES MANAGEMENT

ANNUAL PROJECTS

CAPITAL PROJECT SUMMARY

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

Project Schedule: Annual

Project Manager: David Polson
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 FY 2015 four (4) new vehicles will be purchased and six (6) vehicles/trailers will be retired.

Barriers:

Lead time for line trucks is +/- 300 days once the order is placed. Bid process and award must be completed early to ensure delivery within Fiscal Year 2015.

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

Status Update From Prior Fiscal Year:

TABLE 1: ROLLING STOCK CAPITAL OUTLAY

Vehicle ID #	Year	Last Mileage Date	Current Mileage	Average Annual Maintenance Costs	Department	Vehicle Type	2014	2015	Comment
2	2005	12/24/13	29,848	\$960.35	Pool	Toyota Prius		<u>Surplus</u>	
3	New Vehicle - Sub Maintenance				Tech Services	Box Truck		\$150,000.00	
4	2005	1/14/14	78,000	\$1,607.87	Meter	Ford F-150		<u>Surplus</u>	
7	2007	10/31/13	104,663	\$1,913.33	Customer Service	Ford Escape will be surplusd when new vehicle is received		\$26,000.00	
9	2003	12/19/13	196,939	\$15,545.05	Line	Inter - 40'Bucket	<u>Surplus</u>		
10	2014	2/1/14	0	\$0.00	Line	Inter - 40'Bucket	\$183,244.00		
11	1999	12/30/13	63,427	\$14,618.05	Line	Ford - 55'Bucket	<u>Surplus</u>		
13	2008	1/21/14	91,638	\$2,038.16	Line GF	Ford Escape will be surplusd when new vehicle is received		\$26,000.00	
14	1998	12/4/13	62,081	\$11,413.72	Line	Inter - 45'Digdrk		\$231,750.00	
30	1999	10/17/13	73,993	\$1,322.65	Line	Ford Van	<u>Surplus</u>		NR
30	2014	2/1/14	0	\$0.00	Stallions	Ford - F- 150	\$29,965.00		
31	2014	2/1/14	0	\$0.00	Engineering	Ford - F-150	\$30,397.00		
35	2002	9/16/13	123,495	\$3,076.35	Line	Ford F-150	<u>Surplus</u>		NR
44	2001	12/11/13	49,041	\$16,315.01	Line	Sterling - 55'Bucket	<u>Surplus</u>		
44	2014	2/1/14	0	\$0.00	Line	Intern 55' MH	\$198,000.00		
48	2000	12/2/13	49,128	\$11,558.78	Line	Chevy - 40'Bucket		<u>Surplus</u>	
T5	1979	n/a		Insp	Line	Nevlen Cable	<u>Surplus</u>		Scrap
T6	1979	n/a		Insp	Line	Nevlen Cable		<u>Surplus</u>	
T10	1984	n/a		Insp	Line	Nevlen Cargo	<u>Surplus</u>		Scrap
T11	1984	n/a		Insp	Line	Nevlen Cargo	<u>Surplus</u>		Scrap
							<u>\$441,606.00</u>	<u>\$433,750.00</u>	

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Rolling Stock Replacement

SCHEDULE: FY15

PROJECT #: 118

ITEM	CREW WEEKS	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
Purchase (1) Box Truck						\$150,000	\$150,000
Unit Cost						\$150,000 per vehicle	
Purchase (2) small SUVs						\$52,000	\$52,000
Unit Cost						\$26,000 per vehicle	
Purchase (1) 45' Digger Derrick						\$231,750	\$231,750
Unit Cost						\$231,750 per vehicle	
Unit Cost							
Unit Cost							
Unit Cost							
Police Details (if applicable)							
Unit Cost							

TOTAL \$433,750

TOTAL PROJECT COST: \$433,750

MIS

Continuing Projects:

None

Page #

Project #

n/a

New Projects for FY15:

⌘ Great Plains/Cogsdale Update

19

TBD

Annual Projects:

⌘ Hardware Upgrades

22

127

⌘ Software Upgrades

24

128

MIS

NEW PROJECTS

CAPITAL PROJECT SUMMARY

Project Name: Great Plains/Cogsdale Upgrade

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: Increase (Decrease)

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Great Plains/Cogsdale Upgrade

SCHEDULE: FY15-16

PROJECT #: TBD

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						\$200,000	\$200,000
Unit Cost							
CDM Project Mangement and Consulting - GP/Cogsdale Update						\$150,000	\$150,000
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							

TOTAL \$350,000

FY15 ESTIMATED COST: \$350,000

Estimated: FY16 \$50,000

ESTIMATED TOTAL PROJECT COST: \$400,000

MIS

ANNUAL PROJECTS

CAPITAL PROJECT SUMMARY

Project Name: Hardware Upgrades

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.

- Vmware ESXI Servers plus contract labor
- Upgrade EMC SAN Storage
- New GIS Server

Barriers:

None anticipated at this time.

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

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Hardware Upgrades SCHEDULE: FY15
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 and installation.				\$7,000		\$50,000	\$57,000
2.41 weeks MIS Administration	Unit Cost	\$2,907		per week			
b) VMware ESXI Servers plus Contract Labor						\$21,000	\$21,000
	Unit Cost						
c) Upgrade EMC SAN Storage				\$2,500		\$11,000	\$13,500
0.86 weeks MIS Administration	Unit Cost	\$2,907					
d) New GIS Server				\$2,500		\$7,500	\$10,000
0.86 weeks MIS Administration	Unit Cost	\$2,907		per week			
	Unit Cost						
	Unit Cost						
	Unit Cost						
TOTAL		\$9,500		\$89,500			

TOTAL PROJECT COST: \$101,500

CAPITAL PROJECT SUMMARY

Project Name: Software and Licensing

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 programing/development for OM/UAN/GIS/GPS
- Veeam One – an additional cluster license
- Sharepoint on-site standard and 80 CAL's

Barriers:

None anticipated at this time.

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

Status Update From Prior Fiscal Year:
n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Software and Licensing

SCHEDULE: FY15

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.				\$6,000		\$40,000	\$46,000
2.06 week(s) MIS Administration	Unit Cost			\$2,907		per week	
b) Custom programming/development OM/UAN/GIS/GPS						\$50,000	\$50,000
	Unit Cost						
c) Veeam One - additional VM Cluster License				\$1,000		\$7,500	\$8,500
0.344 week(s) MIS Administration	Unit Cost			\$2,907		per week	
d) SharePoint On-Site Standard and 80 CAL's				\$2,500		\$15,000	\$17,500
0.86 week(s) MIS Administration	Unit Cost			\$2,907		per week	
	Unit Cost						
	Unit Cost						
	Unit Cost						
TOTAL				\$9,500		\$112,500	

TOTAL PROJECT COST: **\$122,000**

SYSTEM

Continuing Projects Update:

	Page #	Project #
⌘ 5W9 OH Reconductoring – Ballardvale Area	27	101
⌘ Upgrade Old Lynnfield Center URDs (Cook's Farm)	29	104
⌘ 4W5-4W6 Tie	31	105
⌘ Relay Replacement – Station 4 (Gaw)	33	108
⌘ Remote Terminal Unit (RTU) Replacement - Station 3	35	130
⌘ Engineering Analysis Software and Data Conversion	37	122
⌘ GIS	39	125

New Projects for FY15:

⌘ Force Account (Mass DOT) West Street, Reading	42	TBD
⌘ Pole Line Upgrade – Lowell Street, W	44	TBD
⌘ Distribution Protection & Automation	46	TBD
⌘ SCADA System Upgrade	48	TBD
⌘ LED Street Light Conversion	50	131
⌘ Outage Management Software & Integration	52	TBD
⌘ Predictive Asset Management System	54	TBD
⌘ Substation Test Equipment	56	TBD
⌘ Arc Flash Study	58	TBD
⌘ Organizational Study/Reliability Study	60	TBD

Annual Projects:

⌘ Transformers, Capacitors & Reclosers	63	116
⌘ Communication Equipment (Fiber)	65	126
⌘ Meters	67	117
⌘ URD Upgrades – All Towns	69	106
⌘ Step-down Area Upgrades – All Towns	71	107
⌘ New Service Installations	73	
Commercial/Industrial		112
Residential		113
⌘ Routine Construction	77	114

CAPITAL PROJECT SUMMARY

Project Name: 5W9 Reconductoring – Balladvale Area, Wilmington

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 Ave in North Wilmington.

Change in Scope of Work from Prior Fiscal Year: Increase (Decrease)
n/a

Status Update From Prior Fiscal Year:

FY14 The framing for Wildwood Street was started in January. The primary cable for this project is now in stock. We may have two crews work on this project to get the FY14 scheduled work completed before June 1.

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

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

SCHEDULE: FY2014-16

PROJECT #: 101

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC.	TOTAL
Install 25,200 feet of 795 spacer cable (8,400 circuit feet). Re-use existing messenger.	8.0	\$93,693	\$14,720			\$65,000	\$173,413
Unit Cost		\$11,712	\$1,840				
Reframe approximately 60 poles with new brackets, miscellaneous sleeves, hardware and connectors.	3.0	\$35,135	\$5,520			\$10,000	\$50,655
Unit Cost		\$11,712	\$1,840		per week		
Unit Cost							
Unit Cost							
Engineering Labor: 1 week(s)				3,629			\$3,629
Unit Cost				\$3,629	per week		
Police Details (if applicable) 10.0 week(s)				\$24,807			\$24,807
Unit Cost				\$2,481	per week		

Total RMLD Crew Weeks 11.0
Total U/G Crew Weeks

TOTAL \$128,827 \$20,240 \$28,437 \$75,000

FY15 ESTIMATED COST: \$252,504

Estimated: FY14 \$169,494
Estimated: FY16 \$196,483

ESTIMATED TOTAL PROJECT COST: \$618,481

CAPITAL PROJECT SUMMARY

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

Project Schedule: FY14-15 **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, 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 Tophet 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: Increase (Decrease)

n/a

Status Update From Prior Fiscal Year:

FY14 This project will start in FY14 and continue 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.

FISCAL 2015 CAPITAL BUDGET COST SHEET

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

SCHEDULE: FY14-15

PROJECT #: 104

ITEM	CREW WEEKS 4-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.	8.0	\$93,693	\$14,720				\$108,413
	Unit Cost	\$11,712	\$1,840			per week	
Underground Contractor: Complete one mile of trench	2-Man 12.0			\$68,717	\$480		\$69,197
	Unit Cost			\$5,726	\$40	per week	
	Unit Cost						
	Unit Cost						
Engineering labor				\$14,517			\$14,517
4.0 weeks	Unit Cost			\$3,629			
	Unit Cost						
Police Details (If applicable)				\$24,807			\$24,807
10.0 weeks	Unit Cost			\$2,481		per week	
Total RMLD Crew Weeks 8.0 Total U/G Crew Weeks 12.0							
TOTAL	20.0	\$93,693	\$14,720	\$108,041	\$480	\$0	

FY15 ESTIMATED COST: \$216,934

Estimated: FY14 \$174,000

ESTIMATED TOTAL PROJECT COST: \$390,934

CAPITAL PROJECT SUMMARY

Project Name: 4W5-4W6 Tie

Project Schedule: FY14-15 **Project Manager:** Peter Price, Chief Engineer

Reason for Expenditure:

With the development of the Addison Wesley Property and South Main Street, there is a need to shift a portion of the 4W6 distribution onto another circuit. Circuit 4W5 was extended down Oak Street from West Street many years ago in anticipation of the development of South Main Street. This project would complete the circuit extension down Oak Street to Summer Street. This project will add to the long-term reliability of the area and switching contingencies.

Brief Description/Scope:

Install approximately 1,500 circuit of 556 spacer and messenger, conductor 1,500 feet of secondary cable. Verizon to replace six (6) poles and the RMLD will install two (2) laminated poles.

Barriers:

None anticipated at this time.

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

n/a

Status Update From Prior Fiscal Year:

FY14 Laminated poles will be set by RMLD in FY14. Waiting for Verizon to replace other poles.

FISCAL 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: 4W5 - 4W6 Tie

SCHEDULE: FY2014-15

PROJECT #: 105

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
Install 4,500 feet of 558 1,500 feet of 0.052 messenger	2	\$23,423	\$3,680			\$10,875	\$37,978
Unit Cost		\$11,712	\$1,840			See box at left.	
Install 1,500 feet 4/0 secondary cable	1	\$11,712	\$1,840			\$3,000	\$16,552
Unit Cost		\$11,712	\$1,840			See box at left.	
15 Miscellaneous pole line hardware and materials.						\$3,000	\$3,000
Unit Cost						\$200 per pole	
Replace poles - Verizon set and change 6 - 45' poles						\$2,400	\$2,400
Unit Cost						\$400 per pole	
Engineering 0.4 week				\$1,452			\$1,452
Unit Cost				\$3,629		per week	
Police Details (if applicable) 3.6 weeks				\$8,931			\$8,931
Unit Cost				\$2,481		per week	

Total RMLD Crew Weeks 3.0
Total U/G Crew Weeks

TOTAL	\$35,135	\$5,520	\$10,382	\$19,275
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FY15 ESTIMATED COST: \$70,312

Estimated: FY14 \$35,000

ESTIMATED TOTAL PROJECT COST: \$105,312

CAPITAL PROJECT SUMMARY

Project Name: Relay Replacement - Station 4 (Gaw)

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: Increase (Decrease)
none

Status Update From Prior Fiscal Year:

This project is a carry-over from FY14.

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Relay Replacement - Station 4 (Gaw)

SCHEDULE: FY15-16

PROJECT #: 108

ITEM	CREW WEEKS	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
Miscellaneous materials including wire, test blocks, terminals, panels, etc.						\$1,114	\$1,114
	Unit Cost						
Senior Techs (2)				\$25,812			\$25,812
10.0 weeks (5 weeks each)				\$2,581	per week		
	Unit Cost						
Technical Services Manager				\$14,107			\$14,107
3.8 weeks				\$3,671	per week		
	Unit Cost						
Engineering Consultant Design and Inter-connection, and as built plans						\$6,405	\$6,405
	Unit Cost				See box at left.		
Electrical Testing Contractor testing and commissioning						\$2,562	\$2,562
	Unit Cost				See box at left.		
	Unit Cost						
Police Details (if applicable)							
	Unit Cost						

Total RMLD Crew Weeks
Total U/G Crew Weeks

TOTAL

\$39,919 \$10,081

FY15 ESTIMATED COST: \$50,000

Estimated FY16 **\$67,000**

ESTIMATED TOTAL PROJECT COST: \$117,000

CAPITAL PROJECT SUMMARY

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

Project Schedule: FY15

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: Increase (Decrease)

n/a

Status Update From Prior Fiscal Year:

FY14 This project was carried over from FY14.

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: RTU Replacement - Station 3

SCHEDULE: FY15

PROJECT #: 130

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Purchase RTU and pre-wired enclosure and miscellaneous equipment.						55,000	\$55,000
Substation Senior Tech Labor: Mount and rewire SCADA points from interposition cabinet to new RTU. 3 week(s)				7,743			\$7,743
	Unit Cost			2,581			
Technical Services Manager Labor: 3 week(s)				11,012			\$11,012
	Unit Cost			3,671			
Engineering Labor: Create new DNP com-line and program SCAD master. 3 week(s)				10,888			\$10,888
	Unit Cost			3,629		per week	

Total RMLD Crew Weeks
Total U/G Crew Weeks

TOTAL \$29,843 \$55,000

FY15 ESTIMATED COST: \$84,643

CAPITAL PROJECT SUMMARY

Project Name: Engineering Analysis Software & Data Conversion

Project Schedule: FY14-15 **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: Increase (Decrease)

n/a

Status Update From Prior Fiscal Year:

FY14 RMLD needs to work with contractor to gather data for the ESRI model before Milsoft completes final data conversion.

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Engineering Analysis Software & Data Conversion

SCHEDULE: FY14-15

PROJECT #: 122

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Distribution System						\$55,000	\$55,000
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost						
Police Details (if applicable) week(s)	Unit Cost					per week	

Total RMLD Crew Weeks
Total U/G Crew Weeks

TOTAL

\$55,000

FY15 ESTIMATED COST: \$55,000

Estimated: FY14 \$25,000

ESTIMATED PROJECT COST: \$80,000

CAPITAL PROJECT SUMMARY

Project Name: GIS

Project Schedule: FY14-15 **Project Manager:** Hamid Jaffari, Director of Engineering and Operations

Reason for Expenditure:

GIS and GPS technology is used by electric companies to locate and map all of its assets in a geographically accurate format. This will facilitate system modeling, including contingency and reliability planning, developing system protection and coordination studies, creating maps, developing maintenance programs. This will enable us to make sound operational decisions by having data attributes in an engineering accurate scale of units. The RMLD GIS database does not reflect an as-built condition of the electric system with the data that has been inputted. Over 60 % of data has never been entered and no attribute list per system property unit has been developed. Critical electrical data that is necessary to build a valid engineering model is missing because the GIS database has not been fully updated since its creation. The goal of the GIS project is to evaluate the RMLD GIS database integrity and its data accuracy system wide, collect more field data, and bring the ESRI database up-to-date. RMLD is creating a template of desired GIS attributes to include the Milsoft WindMilMap required attributes for engineering analysis. 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 using an outside data collector will be performed along with a data integration effort.

Brief Description/Scope:

Staff augmentation for comprehensive data collection to produce GIS as-built.

Barriers:

None anticipated at this time.

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

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: GIS

SCHEDULE: FY14-15

PROJECT #: 130

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Staff Augmentation for comprehensive field data collection.						\$150,000	\$150,000
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost						
Police Details (If applicable) week(s)							
	Unit Cost						

TOTAL \$150,000

FY15 ESTIMATED COST: \$150,000

Estimated FY14 \$50,000

ESTIMATED PROJECT COST: \$200,000

SYSTEM

NEW PROJECTS

CAPITAL PROJECT SUMMARY

Project Name: Force Account – West Street, Reading

Project Schedule: FY15

Project Manager: Peter Price, Chief Engineer

Reason for Expenditure:

MassDOT 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 MassDOT has approved these relocations, but they must be formally presented and approved by the Town.

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

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL 2015 CAPITAL BUDGET COST SHEET

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

SCHEDULE: FY15

PROJECT #: TBD

ITEM	CREW WEEKS 4-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 Street between South Street and Summer Avenue.	4.5	\$52,702	\$8,280			\$23,000	\$83,982
Unit Cost		\$11,712	\$1,840		See box at left		
Frame 42 poles for spacer cable circuit, primary laterals and secondary cable and transfer.	5.5	\$64,414	\$10,120			\$7,500	\$82,034
Unit Cost		\$11,712	\$1,840				
Relocate primary conduits and cables feeding Westcott Circle to new pole (working with Underground Crew).	1	\$11,712	\$1,840				\$13,552
Unit Cost		\$11,712	\$1,840		per pole		
Underground Contractor: See above.	2-Man 1	\$5,726	\$40				\$5,766
		\$5,726	\$40				
Engineering Labor:				\$10,888			\$10,888
3.0 weeks	Unit Cost			\$3,629	per week		
Police Details (if applicable)				\$27,288			\$27,288
11.0 weeks	Unit Cost			\$2,481	per week		

Total RMLD Crew Weeks 11.0
Total U/G Crew Weeks 1.0

TOTAL	\$134,554	\$20,280	\$38,176	\$30,500
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TOTAL PROJECT COST: **\$223,510**

CAPITAL PROJECT SUMMARY

Project Name: Pole Line Upgrade – Lowell Street, Wilmington

Project Schedule: FY15

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: Increase (Decrease)

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

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

SCHEDULE: FY15

PROJECT #: TBD

ITEM	CREW WEEKS	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
4-Man							
5.0		\$58,558	\$9,200			\$12,000	\$79,758
Install approximately twenty (20) 55' -1 poles on Lowell Street between West Street and Woburn Street. Transfer three (3) spacer cable circuits and two (2) aerial cable circuits.							
Unit Cost		\$11,712	\$1,840				per week
4.0		\$46,848	\$7,360			\$7,300	\$61,508
Frame 20 poles for three (3) spacer cable circuits and two (2) aerial circuits with new brackets and hardware.							
Unit Cost		\$11,712	\$1,840				per week
Unit Cost		\$11,712	\$1,840				
Unit Cost							
Engineering Labor: 2 week(s)				7,259			\$7,259
Unit Cost				3,620			per week
Police Details (if applicable) 10.0 week(s)				\$24,007			\$24,007
Unit Cost				\$2,481			per week

Total RMLD Crew Weeks 9.0
Total U/G Crew Weeks

TOTAL \$105,404 \$18,580 \$32,068 \$19,300

FY15 ESTIMATED COST: \$173,330

CAPITAL PROJECT SUMMARY

Project Name: Distribution Protection & Automation

Project Schedule: FY15-19 **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: Increase (Decrease)

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Distribution Protection and Automation

SCHEDULE: FY15-19

PROJECT #: TBD

ITEM	CREW WEEKS	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Purchase and Install: (2) Reclosers with SCADA ready controls.	4-Man 1.0	\$11,712	\$1,840			\$51,000	\$64,552
	Unit Cost	\$11,712	\$1,840			\$25,500 each	
							\$0
	Unit Cost						
							\$0
	Unit Cost						
							\$0
	Unit Cost						
Engineering Labor: 0.6 week(s)				\$2,178			\$2,178
	Unit Cost			\$3,629		per week	
Police Details (if applicable) 1.0 week(s)				\$2,481			\$2,481
	Unit Cost			\$2,481		per week	

Total RMLD Crew Weeks 1.0
Total U/G Crew Weeks

TOTAL	\$11,712	\$1,840	\$4,668	\$0	\$51,000
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FY15 ESTIMATED COST: \$69,210

Estimated	FY16	\$30,000
	FY17	\$30,000
	FY18	\$30,000
	FY19	\$30,000

ESTIMATED PROJECT COST: \$189,210

CAPITAL PROJECT SUMMARY

Project Name: SCADA System Upgrades - Hardware

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

Reason for Expenditure:

SCADA Servers are original to the SCADA installation in 2000. Servers are running on Microsoft Server 2000 and need to be upgraded to the most current version.

Brief Description/Scope:

Purchase two new servers, one work station, two 16 port Ethernet switches, four 32" monitors and related hardware and cabling. Survalent to provide on-site technical assistance, as required.

Barriers:

None anticipated at this time.

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

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: SCADA Upgrade

SCHEDULE: FY15

PROJECT #: TBD

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Purchase two (2) 161-port terminal servers and related hardware.						\$20,000	\$20,000
						\$10,000 per server	
On-site technical assistance.						\$10,000	\$10,000
	Unit Cost						
Purchase additional work-station and four (4) monitors (32")						\$7,500	\$7,500
	Unit Cost						
Purchase OMS System software and technical services for system integration (on-site and remote).						\$15,000	\$15,000
	Unit Cost						
Engineering Labor:				\$10,888			\$10,888
3 Weeks	Unit Cost			\$3,629		per week	
	Unit Cost						

TOTAL \$10,888 \$62,500

FY15 ESTIMATED COST: \$83,388

CAPITAL PROJECT SUMMARY

Project Name: LED Street Light Pilot Area – All Towns

Project Schedule: FY15

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. This project will allow us to evaluate the performance of, monitor the energy usage of and get feedback on the lighting provided by this newer technology. With this information we can determine if this is the path that the RMLD will choose for street lighting in the future

Brief Description/Scope:

Purchase and install approximately 80 LED street lights, 20 per town, in the pilot area that is chosen. The replacements will be a direct replacement with an LED fixture that has approximately the same lumen output as the original fixture.

Barriers:

None anticipated at this time.

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

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: LED Street Light Pilot

SCHEDULE: FY15

PROJECT #: 131

ITEM	CREW WEEKS 2-Man	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
Pilot Program:	1	\$5,858	\$920			\$24,400	\$31,178
Install light fixtures.							
80 LED Light Fixtures and Photocells	Unit Cost	\$5,858	\$920			\$305 per unit	
						\$600	\$800
Purchase Meters and Sockets							
4 units (meter and socket)	Unit Cost					\$150 per meter	
Meter Tech Labor:		\$2,519					\$2,519
Install Meters and Sockets							
1 week(s)	Unit Cost	\$2,519				per week	
	Unit Cost						
	Unit Cost						
Police Detail:				\$2,481			\$2,481
1 week(s)	Unit Cost			\$2,481			
	Unit Cost						

TOTAL	\$8,375	\$920	\$2,481	\$25,000
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Total RMLD Crew Weeks 1.00

Total U/G Crew Weeks

FY15 ESTIMATED COST: \$36,775

CAPITAL PROJECT SUMMARY

Project Name: Outage Management Software & Integration

Project Schedule: FY15

Project Manager: Peter Price, Chief Engineer

Reason for Expenditure:

To create a live, real time Outage Management System (OMS). Once integrated, this will give the RMLD a real time OMS system that will import network connectivity from ESRI and Milsoft, customer information from Cogsdale, and outage data from the Itron Fixed Network.

Brief Description/Scope:

Survallent Technologies, the RMLD's SCADA manufacturer will provide the Survalent SmartOMS software for the dual redundant servers, the System Configuration Status interface, the MultiSpeak GIS Batch interface for ESRI and WindMil, the MultiSpeak CIS interface for Cogsdale, the MultiSpeak AMR interface for the Itron Fixed Network, and the OMS Outage Portal. Survalent to also provide one week of remote training for the programming and maintenance of SCADA Master System and OMS, one week on-site installation, commissioning, and assistance. Also includes the first year of support for the OMS.

Barriers:

Standard MultiSpeak interfaces are included. Survalent will evaluate and quote custom interfaces as required. New SCADA servers and the WindMil projects must be completed prior to this project.

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

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Outage Management Software & Integrator

SCHEDULE: FY15

PROJECT #: TBD

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Software Purchase						\$60,000	\$60,000
Custom Programming						\$10,000	\$10,000
	Unit Cost						
	Unit Cost						
	Unit Cost						
Engineering Labor				\$14,517			\$14,517
4 week(s)	Unit Cost			\$3,629	per week		
Police Details (if applicable) week(s)	Unit Cost						
TOTAL							
							\$14,517
							\$70,000
FY15 ESTIMATED COST:							\$84,517

CAPITAL PROJECT SUMMARY

Project Name: Predictive Asset Management Program

Project Schedule: FY15-19 **Project Manager:** Nick D'Alleva
Technical Services Manager

Reason for Expenditure:

This project is necessary to either purchase or design an Asset Management System that will track and trend the condition of RMLD's distribution and substation equipment.

Brief Description/Scope:

The RMLD will be exploring a predictive asset management program that can track the maintenance of distribution and substation equipment. The system will also allow RMLD to address maintenance issues that might arise in similar types of equipment.

Barriers:

None anticipated at this time.

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

Status Update From Prior Fiscal Year:
n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Predictive Asset Management

SCHEDULE: FY15-19

PROJECT #: TBD

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Purchase and/or design of predictive asset management system.						\$80,000.00	\$80,000.00
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost						

TOTAL \$80,000

FY15 ESTIMATED COST: \$80,000

Estimated	FY16	\$80,000
Estimated	FY17	\$30,000
Estimated	FY18	\$30,000
Estimated	FY19	\$30,000

ESTIMATED PROJECT COST: \$250,000

CAPITAL PROJECT SUMMARY

Project Name: Substation Test Equipment

Project Schedule: FY15-18

**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 need to be purchased.

Barriers:

None anticipated at this time.

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

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Substation Test Equipment

SCHEDULE: FY15-18

PROJECT #: TBD

ITEM	CREW WEEKS	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER MATERIAL /EHICLI	NEW & MISC	TOTAL
Purchase of various test equipment.						\$121,000	\$121,000
	Unit Cost						
							\$0
	Unit Cost						
							\$0
	Unit Cost						
							\$0
	Unit Cost						
							\$0
	Unit Cost						

TOTAL 0.0 0 \$0 \$0 \$0 \$121,000

FY15 ESTIMATED COST: \$121,000

FY16 \$50,000

FY17 \$50,000

FY18 \$50,000

ESTIMATED PROJECT COST: \$271,000

CAPITAL PROJECT SUMMARY

Project Name: Arc Flash Study

Project Schedule: FY15

Project Manager: Hamid Jaffari, Director of
Engineering and Operations

Reason for Expenditure:

Arc Flash is the result of a rapid release of energy due to an arcing fault between a phase bus bar and another phase bus bar, neutral or a ground. During an arc fault the air is ionized and becomes conductive. Arc faults are generally limited to systems where the bus voltage is in excess of 120 volts. The purpose of this study is to bring RMLD into compliance with NEC and NFPA70E Arc Flash requirements.

The NEC only requires that Arc Flash labels be displayed to warn of potential electric Arc Flash hazards. A detailed study of the RMLD system is required to determine the NEC required Arc Flash labels and suggestions to reduce Arc Flash energy.

NFPA70E, 2004, article 130.3 states, "A flash hazard analysis **shall** be done in order to protect personnel from the possibility of being injured by an arc flash." This option requires the employer to provide either an independent outside source or a qualified internal source to perform this analysis in accordance with the calculations defined by the NFPA70E or IEEE 1584. This option defines what level of PPE is required to protect RMLD employees when working near or energized devices.

Brief Description/Scope:

Qualified outside energy consultant to perform detailed report in accordance with NFPA70E.

Barriers:

GIS and Milsoft modeling complete.

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

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Arc Flash Study

SCHEDULE: FY15

PROJECT #: TBD

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Consultant to perform study.						\$35,000	\$35,000
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost						
Police Details (If applicable) week(s)							
	Unit Cost						

TOTAL \$35,000

FY15 ESTIMATED COST: \$35,000

CAPITAL PROJECT SUMMARY

Project Name: Organizational/Reliability Study

Project Schedule: FY15-16 **Project Managers:** Coleen O'Brien, General Manager
Hamid Jaffari, Director of E&O

Reason for Expenditure:

The purpose of this study is to prepare a guideline for RMLD to provide excellent customer service including competitively priced electricity as a result of diligence in the areas of power supply risk management, system reliability and flexibility, and overall business efficiency.

This project includes both an Electric System Reliability Study and Organizational Study. The Organizational Study includes an assessment of the current organizational set up and recommending the required system facilities, engineering and operational functions, safety, and energy efficiency measures as they relate to current and future trending industry practices and standards. The reliability study includes an evaluation of RMLD distribution system to:

- 1) prepare a long and short range system planning study to provide adequate substation and feeder capacity for anticipated load growth, and
- 2) provide a roadmap to improve system reliability, introduce reasonable system distribution automation, and improve operating flexibility by incorporating system expansion plans with overall system rehabilitation and operation objectives.

Brief Description/Scope:

Barriers:

None anticipated at this time.

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

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Organizational & Reliability Study

SCHEDULE: FY15-16

FY15 SCOPE:

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC	TOTAL
Consultant to conduct study.						\$100,000	\$100,000
	Unit Cost						
	Unit Cost						
	Unit Cost						
	Unit Cost			\$3,670.75			
	Unit Cost						
Police Details (if applicable) week(s)	Unit Cost					\$2,480.75 per week	

Total RMLD Crew Weeks
Total U/G Crew Weeks

TOTAL \$100,000

FY15 ESTIMATED COST: \$100,000

FY16 \$100,000

ESTIMATED PROJECT COST: \$200,000

SYSTEM

ANNUAL PROJECTS

CAPITAL PROJECT SUMMARY

Project Name: Transformers & Capacitors

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: 8 units |
| b) | Single-phase padmount transformers
for proposed subdivisions and stock. | Quantity: 70 units |
| c) | Three-phase polemount transformers
for proposed commercial projects and stock | Quantity: 10 units |
| d) | Single-phase polemount transformers
for proposed residential services and stock. | Quantity: 60 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: Increase (Decrease)

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Transformers and Capacitors

SCHEDULE: FY15

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 8 units						\$96,000	\$96,000
	Unit Cost	\$12,000 per unit					
b) Single-phase padmount transformers for proposed subdivisions and stock 70 units						\$154,000	\$154,000
	Unit Cost	\$2,200 per unit					
c) Three-phase polemount transformers for proposed commercial services and stock 10 units						\$60,000	\$60,000
	Unit Cost	\$6,000 per unit					
d) Single phase polemount transformers for proposed residential services and stock 60 units						\$84,000	\$84,000
	Unit Cost	\$1,400 per unit					
e) Submersible transformers for stock 4 units						\$20,000	\$20,000
	Unit Cost	\$5,000					
f) 1200 kVar capacitor banks 4 units						\$30,000	\$30,000
	Unit Cost	\$7,500					

TOTAL \$444,000

TOTAL PROJECT COST \$444,000

CAPITAL PROJECT SUMMARY

Project Name: Communication Equipment (for Fiber Optic)

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: Increase (Decrease)

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Communication Equipment (Fiber)

SCHEDULE: FY15

PROJECT #: 126

ITEM	CREW WEEKS 4-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.						\$15,000	\$15,000
3.0 units		Unit Cost				\$5,000	
Contract labor and materials for splicing fiber.						\$15,000	\$15,000
3.0 units		Unit Cost				\$5,000	
		Unit Cost					
		Unit Cost					
		Unit Cost					
		Unit Cost					

TOTAL

#REF! \$30,000

TOTAL PROJECT COST: **\$30,000**

CAPITAL PROJECT SUMMARY

Project Name: Meter Purchases (including 500 Club)

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. The proposal is to replace the existing meters with meters that can be read remotely with the fixed network system.

Brief Description/Scope:

100 residential time-of-use (TOU) meters – AMR and miscellaneous hardware will be purchases for stock.

The RMLD will begin changing out all "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.

Barriers:

None anticipated at this time.

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

n/a

Status Update From Prior Fiscal Year:

FY14 "500 Club" commercial upgrade is a carry-over.

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Meters

SCHEDULE: FY15

PROJECT #: 117

ITEM	CREW WEEKS	RMLD CREW LABOR COST	RMLD CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
For Stock:							
Residential TOU ERT Meters AMR						\$20,000	\$20,000
100 units	Unit Cost					\$200 each	
Locking sealing rings, seals and meter switches						\$10,000	\$10,000
For 500 Club:							
Meters and miscellaneous supplies.						\$55,000	\$55,000
100 units	Unit Cost					\$550 each	
Technical Services Manager:							
Labor				\$3,671			\$3,671
1 week(s)	Unit Cost			\$3,671	per week		
Station Techs:							
Labor				\$15,334			\$15,334
4 week(s) Regular Time	Unit Cost			\$2,555.75	per week		
2 week(s) Over Time							
Network/System Administration:							
Labor				\$18,895			\$18,895
6.5 week(s)	Unit Cost			\$2,907	per week		
Engineering:							
Labor				\$3,629			\$3,629
1 week(s)	Unit Cost			\$3,629	per week		

TOTAL \$41,530 \$85,000

TOTAL PROJECT COST: \$126,530

CAPITAL PROJECT SUMMARY

Project Name: URD Upgrades – All Towns

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 pad mount 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 pad-mounted 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: Increase (Decrease)

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: URD Upgrades - All Towns

SCHEDULE: FY2015

PROJECT #: 106

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC.	TOTAL
Install approximately 50 padmount transformers. (Transformers are included in Annual Transformer Purchase)	10.0	\$117,116	\$18,400				\$135,516
Unit Cost		\$11,712	\$1,840				
Install approximately 7,000 feet of 1/0 Al UG cable and 7,000 feet of #2 CU neutral.	3.0	\$35,135	\$5,520			\$20,000	\$60,655
Unit Cost		\$11,712	\$1,840			\$2,000	
Materials: splices, elbows, terminations, connectors, box pads, tape, etc.						\$30,000	\$30,000
Unit Cost							
Unit Cost							
Underground Contractor: 13 week(s)				\$74,443	\$520		\$74,963
Unit Cost				\$5,726	\$40		
Engineering Labor: 5 week(s)				18,148			\$18,148
Unit Cost				\$3,629		per week	
Police Details (if applicable) week(s)							
Unit Cost						per week	

Total RMLD Crew Weeks 13.0
Total U/G Crew Weeks 13.0

TOTAL	\$152,250	\$23,920	\$92,590	\$520	\$50,000
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FY15 ESTIMATED COST: **\$319,280**

CAPITAL PROJECT SUMMARY

Project Name: Step-down Area Upgrades – All Towns

Project Schedule: Annual

Project Manager: Peter Price, Chief Engineer

Reason for Expenditure:

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

Barriers:

None anticipated at this time.

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

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

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

SCHEDULE: FY15

PROJECT #: 107

ITEM	CREW WEEKS 4-Man	RMLD CREW LABOR COSTS	RMLD CREW VEHICLE COSTS	OTHER LABOR	OTHER VEHICLE	MATERIAL & MISC.	TOTAL
Install 7,000' of 1/0 primary.	3.0	\$35,136	\$5,520			\$7,000	\$47,655
Unit Cost		\$11,712	\$1,840				
Install 7,000' of 4/0 - 3/C sec cable	5.0	\$58,558	\$9,200			\$14,000	\$81,758
Unit Cost		\$11,712	\$1,840				
Replace 15 transformers.	2.0	\$23,423.14	\$3,680			\$21,000	\$48,103
Unit Cost		\$11,712	\$1,840			\$1,400 per transformer	
Miscellaneous Hardware \$200 per pole for approximately 65 poles.						\$13,000	\$13,000
Unit Cost						\$200 per pole	
Underground Contractor: week(s)							
Unit Cost							
Engineering Labor: 2 week(s)				7,259			\$7,259
Unit Cost				3,629		per week	
Police Details (if applicable) 2.0 week(s)				\$4,961			\$4,961
Unit Cost				\$2,481		per week	
Total RMLD Crew Weeks 10.0							
Total U/G Crew Weeks							
TOTAL		\$117,116	\$18,400	\$12,220		\$55,000	

FY15 ESTIMATED COST: **\$202,736**

CAPITAL PROJECT SUMMARY

Project Name: Service Installations (Commercial and Residential)

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: Increase (Decrease)

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Service Installations-Commercial/Industrial

SCHEDULE: FY15

PROJECT #: 112

ITEM	CREW WEEKS 4-Man	CREW LABOR COST	CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
Installation of new commercial/ industrial service connections.	3	35,135	5,520			15,893	\$56,548
Unit Cost		\$11,712	\$1,840			See box at left.	
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
Police Details (if applicable) A							
Unit Cost							

Total RMLD Crew Weeks 3.0
Total U/G Crew Weeks

TOTAL	3.0	\$35,135	\$5,520	\$15,893
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TOTAL PROJECT COST \$56,548

FISCAL 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Service Installations - Residential Customers

SCHEDULE: FY15

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).	30	\$175,674	\$27,600			\$56,250	\$259,524
Unit Cost		\$5,855.79	\$920			per week	
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							
Unit Cost							

Total RMLD Crew Weeks 30.0 2-man crews
Total U/G Crew Weeks

TOTAL 30.0 175,674 \$27,600 \$56,250

TOTAL PROJECT COST \$259,524

CAPITAL PROJECT SUMMARY

Project Name: Routine Construction

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: Increase (Decrease)

n/a

Status Update From Prior Fiscal Year:

n/a

FISCAL YEAR 2015 CAPITAL BUDGET COST SHEET

CAPITAL PROJECT NAME: Routine Construction

SCHEDULE: FY15

PROJECT #: 113

ITEM	CREW WEEKS	CREW LABOR COST	CREW VEHICLE COST	OTHER LABOR	OTHER VEHICLE	NEW MATERIAL & MISC	TOTAL
a) Capital Construction	4-Man 15	\$175,674	\$27,600			\$50,000	\$253,274
	Unit Cost	\$11,712	\$1,840			per week	
b) Street Light Installations	2-man 3.6	\$21,081	\$3,312				\$24,393
Included with LED Pilot for FY15	Unit Cost	\$5,856	\$920			per week	
c) Pole Setting/Transfers	4-Man 12	\$140,539	\$22,080			\$35,000	\$197,619
	Unit Cost	\$11,712	\$1,840			per week	
d) Engineering Labor				\$29,034			\$29,034
8.0 weeks	Unit Cost			\$3,629		per week	
e) General Line Foreman Labor				\$85,615			\$85,615
26.0 weeks	Unit Cost			\$3,293		per week	
f) U/G Construction	2-Man 6	\$34,358	\$240			\$75,000	\$109,598
	Unit Cost	\$5,726	\$40			per week	
g) Police Details				\$49,615			\$49,615
20.0 weeks	Unit Cost			\$2,481		per week	
h) Overtime	4-Man 15	\$170,546	\$27,600				\$198,146
	Unit Cost	\$11,369.74	\$1,840			per week	
Total RMLD Crew Weeks	4-Man 27.0						
Total U/G Crew Weeks	2-Man 3.6						
TOTAL	33.0	\$542,198	\$80,832	\$164,264		\$160,000	

TOTAL PROJECT COST **\$947,294**

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READING MUNICIPAL LIGHT DEPARTMENT
2015 OPERATING BUDGET SUMMARY DRAFT 1
MARCH 31, 2014

	2015 BUDGET [A]	% CHANGE [A] & [B]	2014 7 MTHS ACT 5 MTHS BUD [B]	% CHANGE [B] & [C]	FY 13 ACTUAL [C]
OPERATING REVENUE:					
SALES OF ELEC - BASE	50,449,523.00	8.73%	46,400,000	2.64%	45,208,258
SALES OF ELEC - FUEL	36,949,646.00	14.45%	32,284,101	-6.02%	34,351,756
ENERGY CONSERVATION	692,860.00	0.96%	686,292	0.12%	685,480
PURCHASE POWER ADJUSTMENT	0.00	-100.00%	1,139,813	0.14%	1,138,193
GAW REVENUE	0.00	-100.00%	692,642	-0.50%	696,142
NYPA CREDIT	(700,000.00)	7.26%	(652,649)	-7.68%	-706,940
TOTAL OPERATING REVENUE	87,392,029	8.49%	80,550,199	-1.01%	81,372,889
OPERATING EXPENSES:					
PURCHASED POWER - BASE	28,889,014	-0.95%	29,167,159	3.73%	28,117,958
OPERATION EXPENSE	10,786,355	13.23%	9,526,178	-2.92%	9,812,541
MAINTENANCE EXPENSE	3,357,261	11.76%	3,003,950	-69.39%	2,768,230
DEPRECIATION EXPENSE	3,892,000	3.02%	3,777,786	36.47%	3,665,630
TOWN PAYMENTS	1,416,000	1.25%	1,398,521	-61.85%	1375900
SUB-TOTAL	48,340,629	3.13%	46,873,594	2.48%	45,740,259
PURCHASED POWER - FUEL	36,249,653	14.60%	31,631,195	-5.03%	33,305,373
TOTAL OPERATING EXPENSES	84,590,282	7.75%	78,504,789	-0.88%	79,045,632
NET OPERATING INCOME	2,801,747	36.98%	2,045,410	-12.11%	2,327,257
OTHER INCOME:					
MDSE AND JOBBING	276,000	23.56%	223,370	-33.25%	334,634
INTEREST INCOME	100,000	114.61%	46,596	90.70%	24,434
FORFEITED DISCOUNTS	1,109,890	15.16%	963,743	4.57%	921,639
MISCELLANEOUS REVENUE	750,000	19.73%	626,428	-33.78%	946,040
TOTAL OTHER INCOME	2,235,890	20.20%	1,860,137	-16.46%	2,226,747
MISCELLANEOUS INCOME DEDUCTIONS:					
CUSTOMER DEPOSIT INTEREST EXP	3,000	-28.35%	4,187	265.68%	1,145
OTHER DEDUCTIONS (ROI)	2,482,863	1.30%	2,450,999	-11.51%	2,769,741
TOTAL MISCELLANEOUS DEDUCTIONS	2,485,863	1.25%	2,455,186	-11.39%	2,770,886
NET INCOME	2,551,773	75.94%	1,450,361	-18.66%	1,783,118

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READING MUNICIPAL LIGHT DEPARTMENT
2015 OPERATING BUDGET SUMMARY DRAFT 1
MARCH 31, 2014

	2015 BUDGET [A]	% CHANGE [A] & [B]	2014 7 MTHS ACT 5 MTHS BUD [B]	% CHANGE [B] & [C]	FY 13 ACTUAL [C]
PROJECTED REVENUE					
RESIDENTIAL REVENUE	<u>21,850,876</u>	8.15%	<u>20,204,971</u>	0.87%	<u>20,030,704</u>
COMMERCIAL REVENUE	<u>28,006,544</u>	10.66%	<u>25,308,513</u>	2.62%	<u>24,661,227</u>
STREET LIGHT REVENUE:					
PUBLIC	221,493	12.34%	197,158	0.70%	195,783
PRIVATE	68,823	68.56%	40,830	52.24%	26,820
SUB TOTAL	<u>290,316</u>	21.99%	<u>237,988</u>	6.91%	<u>222,603</u>
COOP - RESALE REVENUE	301,992	26.32%	<u>239,062</u>	-18.61%	293,721
TOTAL BASE REVENUE	<u>50,449,528</u>	9.70%	<u>45,990,534</u>	1.73%	<u>45,155,550</u>
FUEL REVENUE	36,949,646	19.10%	31,024,101	-9.69%	34,351,756
LESS PASNY CREDIT	(700,000)	7.26%	(652,645)	-7.68%	(706,940)
TOTAL NET FUEL REVENUE	<u>36,249,646</u>	19.35%	<u>30,371,456</u>	-9.73%	<u>33,644,816</u>
PURCHASED POWER ADJUSTMENT (PPA)	<u>1,050,884</u>	63.29%	<u>643,562</u>	-43.46%	<u>1,138,193</u>
ENERGY CONSERVATION - RESIDENTIAL	256,568	0.84%	254,440	-0.91%	256,789
ENERGY CONSERVATION - COMMERCIAL	436,292	1.03%	431,852	0.74%	428,691
TOTAL ENERGY CONSERVATION	<u>692,860</u>	0.96%	<u>686,292</u>	0.12%	<u>685,480</u>
GAW REVENUE	<u>0</u>	-100.00%	<u>692,642</u>	-0.50%	<u>696,142</u>
TOTAL REVENUES	<u>88,442,918</u>	12.83%	<u>78,384,486</u>	-3.67%	<u>81,372,886</u>

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READING MUNICIPAL LIGHT DEPARTMENT
2015 OPERATING BUDGET SUMMARY DRAFT 1
MARCH 31, 2014

	2015 BUDGET [A]	% CHANGE [A] & [B]	2014 7 MTHS ACT 5 MTHS BUD [B]	% CHANGE [B] & [C]	FY 13 ACTUAL [C]
PROJECTED MISCELLANEOUS REVENUE					
MMWEC FLUSH OF FUNDS	500,000	0.00%	500,000	15.23%	433,900
CONTRIBUTIONS IN AID OF CONSTRUCTION	200,000	161.68%	76,428	-83.15%	453,679
SURPLUS APPLIED TO DEPRECIATION	50,000	0.00%	50,000	-14.47%	58,461
TOTAL MISCELLANEOUS REVENUE	<u>750,000</u>	19.73%	<u>626,428</u>	-33.78%	<u>946,040</u>

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READING MUNICIPAL LIGHT DEPARTMENT
2016 OPERATING BUDGET SUMMARY DRAFT 1
MARCH 31, 2014

	2015 BUDGET [A]	% CHANGE [A] & [B]	2014 7 MTHS ACT 5 MTHS BUD [B]	% CHANGE [B] & [C]	FY 13 ACTUAL [C]
OPERATING EXPENSES:					
555 PURCHASED POWER	65,138,667	7.14%	60,798,354	-1.02%	61,423,331
TOTAL PURCHASED POWER	65,138,667	7.14%	60,798,354	-1.02%	61,423,331
568 MAINT OF TRANS PLANT	3,000	5.78%	2,836	4.07%	2,725
TOTAL TRANSMISSION EXP	3,000	5.78%	2,836	4.07%	2,725
580 OPER SUPER & ENGIN	583,668	18.27%	493,524	-1.99%	503,570
581 OPERATION LABOR	93,027	-10.07%	103,444	36.06%	76,028
581 1 OPERATION LABOR MISC	657,259	-15.77%	780,307	11.53%	699,667
582 OPERATION SUPPLIES & EXP	398,849	-16.23%	476,102	-0.46%	478,286
585 STREET LIGHTING EXP	82,907	1.93%	81,339	7.81%	75,447
586 METER EXP	247,938	11.67%	222,018	18.18%	187,867
588 MISC DISTRIBUTION EXP	402,885	7.67%	374,169	6.41%	351,642
590 MAINT OF STRUCTURE & EQUIP	484,026	223.25%	149,735	5.91%	141,374
593 MAINT OF LINES OH	1,792,794	10.92%	1,616,244	4.87%	1,541,147
594 MAINT OF LINES UG	130,694	-59.51%	322,749	57.69%	204,673
595 MAINT OF LINE TRANSFORMS	156,000	9.63%	142,299	-2.12%	145,386
596 MAINT OF ST LT & SIG SYS	9,745	142.48%	4,019	-3367.48%	(1)
597 MAINT OF METERS	43,290	108.73%	20,740	-51.20%	4,160
TOTAL DISTRIBUTION EXP	5,083,084	6.19%	4,786,689	7.63%	4,160
902 METER READING LABOR & EXP	30,922	-14.69%	36,246	-51.51%	74,751
903 ACCT & COLL LABOR & EXP	1,705,333	11.16%	1,534,169	2.89%	1,491,101
904 UNCOLLECTABLE ACCTS	120,000	-4.76%	126,000	232.28%	37,920
TOTAL CUST ACCT EXP	1,856,255	9.42%	1,696,415	5.78%	1,603,772
916 ENERGY AUDIT EXP	1,267,096	33.90%	946,302	-21.96%	1,212,536
920 ADMIN & GENERAL SALARIES	842,170	1.22%	832,033	8.30%	768,287
921 1 OFFICE SUPPLIES EXP	301,000	9.67%	274,458	-0.58%	276,073
923 OUTSIDE SERVICE EMPLOYED	351,650	-15.88%	418,019	-34.00%	633,341
924 PROPERTY INSURANCE	453,200	15.29%	393,089	6.28%	369,873
925 INJURIES & DAMAGES	49,059	5.07%	46,692	2.19%	45,691
926 EMPLOYEES PENSIONS & BENS	2,746,619	35.98%	2,019,837	-7.09%	2,174,071
930 MISC GENERAL EXP	240,772	41.77%	169,832	6.17%	159,956
931 RENT EXPENSE	212,000	6.75%	198,601	1.11%	196,422
932 1 MAINT OF GARAGE & STCKRM	567,531	-5.69%	601,777	5.34%	571,295
935 MTN OF GEN PLANT	170,180	18.55%	143,548	20.37%	119,256
TOTAL ADMIN & GEN EXP	7,201,277	19.14%	6,044,188	-7.39%	6,526,801
GRAND TOTAL	79,282,282	8.12%	73,328,482	-0.91%	74,004,089
LESS: PURCHASED POWER	(65,138,667)	7.14%	(60,798,354)	-198.98%	61,423,331
MAINTENANCE EXPENSES	(3,357,261)	11.76%	(3,003,950)	8.52%	(2,768,229)
TOTAL OPERATION EXPENSE	10,786,355	13.23%	9,526,178	-83.76%	58,655,102

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READING MUNICIPAL LIGHT DEPARTMENT
2015 OPERATING BUDGET SUMMARY DRAFT 1
MARCH 31, 2014

	2015 BUDGET [A]	% CHANGE [A] & [B]	2014 7 MTHS ACT 5 MTHS BUD [B]	% CHANGE [B] & [C]	FY 13 ACTUAL [C]
MAINTENANCE EXPENSE:					
568 MTN OF TRANS. PLANT	3,000	5.63%	2,840	4.22%	2,725
590 MTN OF STRUCTURES	484,026	223.25%	149,735	5.91%	141,374
593 MTN OF LINES - OH	1,792,794	10.92%	1,616,244	4.87%	1,541,147
594 MTN OF LINES - UG	130,694	-59.51%	322,749	57.69%	204,673
595 MTN OF LINE TRANS.	156,000	9.63%	142,299	-2.12%	145,386
596 MTN OF ST. LIGHTS	9,745	142.48%	4,019	-3367.48%	(123)
597 MAINT OF METERS	43,290	108.73%	20,740	-51.20%	42,496
932 1 MTN OF GEN PLANT	567,531	-5.69%	601,777	5.34%	571,295
935 MTN OF GEN PLANT	170,180	18.55%	143,548	20.37%	119,256
TOTAL MAINTENANCE EXPENSES	<u>3,357,261</u>	11.76%	<u>3,003,951</u>	8.52%	<u>2,768,229</u>
DEPRECIATION EXPENSE:					
403 DEPRECIATION EXPENSE	<u>3,892,000</u>	3.02%	<u>3,777,787</u>	3.06%	<u>3,665,630</u>
OTHER TAXES:					
408 OTHER TAXES (2% TOWN PAYMTS)	<u>1,416,000</u>	1.25%	<u>1,398,522</u>	1.64%	<u>1,375,900</u>
INTEREST ON CUSTOMER DEPOSITS:					
419-2 INTEREST EXP ON CUST DEP	<u>3,000</u>	-28.35%	<u>4,187</u>	265.68%	<u>1,145</u>

CC

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Description of RMLD's Power Supply

Stony Brook Intermediate Unit

The Stony Brook Intermediate Unit is a 354-megawatt, combined-cycle power plant that entered commercial operation in 1981.

The unit's three gas turbines generate electricity using either No. 2 oil or natural gas, with additional electricity produced using a single steam turbine in the combined-cycle process. MMWEC completed construction of a natural gas pipeline to serve the Intermediate Unit in September 2002. The RMLD has a Life of Unit (LOU) entitlement for 14.453% of the unit or approximately 51 Mws. The RMLD has paid off the debt service associated with this project.

Quick Facts – Stonybrook Intermediate Unit

Location	Ludlow, Massachusetts
On-Line Date	1981
Fuel	No. 2 oil/natural gas
Principal Owner/Operator	MMWEC
Total Capacity	354 megawatts

Stony Brook Peaking Unit

The Stony Brook Peaking Unit is a 172-megawatt peaking plant that entered commercial operation in 1982.

The unit's two turbines generate electricity using No. 2 oil. The RMLD has a Life of Unit (LOU) entitlement for 19.516% of the unit which is equivalent to approximately 33 Mws. The RMLD has paid off the debt service associated with this project.

Group, Inc. NextEra owns 88.2% of Seabrook Station. The other owners are MMWEC (11.59%) and two Massachusetts municipal utilities, the Taunton Municipal Lighting Plant (0.13%) and Hudson Light & Power Department (0.08%).

NextEra has announced plans to seek an extension of its Seabrook operating license from the current license expiration of 2030 to 2050. RMLD signed 3 different projects to finance Seabrook, Mix 1, Project 4, and Project 5. The debt service associated with these projects will be paid-off in 2014, 2017 & 2018 respectively. The RMLD has a Life of Unit (LOU) for 0.635% or approximately 8 Mws of the unit.

Quick Facts – Seabrook Station

Location	Seabrook, New Hampshire
On-Line Date	1990
Fuel	Nuclear – Pressurized Water Reactor
Principal Owner/Operator	NextEra Energy Resources, LLC
Total Capacity	1,244 megawatts

Millstone Unit 3

Millstone Unit 3 is a 1,237-megawatt nuclear generating plant located in Waterford, Connecticut. Millstone Unit 3, which began operation in 1986, is the newest and largest of the Millstone Station's three nuclear units, one of which is retired from service. The principal owner and operator of Millstone Station is Dominion Nuclear Connecticut, Inc., a subsidiary of Virginia-based Dominion Resources, Inc. Dominion Connecticut owns 93.4% of Millstone Unit 3.

The Nuclear Regulatory Commission (NRC) on November 28, 2005 approved Dominion Nuclear Connecticut's request for a 20-year operating license extension for Millstone's Unit 3 reactor. The license now expires in November, 2045. RMLD signed two different projects to finance Millstone #3, Mix 1 and Project 3. The debt service associated with these projects will be paid off in 2014 & 2018 respectively. The RMLD has a LOU agreement for 0.404% of the units which equates to approximately 4.6 Mws.

6/1/2015 – 5/31/2016	\$5.90	\$6.40
6/1/2016 – 5/31/2017	\$6.15	\$6.65

JP Morgan

In June, 2010 the RMLD signed a system power contract with JP Morgan that is effective from January 1, 2011 through December 31, 2014. The RMLD receives energy only from this contract. The amount of energy purchased fluctuates on a monthly basis for both the on-peak and off-peak period. RMLD has secured fixed pricing for this contract.

NextEra Energy Power Marketing, LLC

In June, 2011 the RMLD signed a system power contract with NextEra that is effective from January 1, 2012 through December 31, 2015. The RMLD receives energy only from this contract. The amount of energy purchased fluctuates on a monthly basis for both the on-peak and off-peak period. RMLD has secured fixed pricing for this contract.

Exelon

In June, 2012 the RMLD signed a system power contract with Exelon that is effective from January 1, 2013 through December 31, 2016. The RMLD receives energy only from this contract. The amount of energy purchased fluctuates on a monthly basis for both the on-peak and off-peak period. RMLD has secured fixed pricing for this contract.

BP Energy

In July, 2013 the RMLD signed a system power contract with BP Energy that is effective from January 1, 2014 through December 31, 2017. The RMLD receives energy only from this contract. The amount of energy purchased fluctuates on a monthly basis for both the on-peak and off-peak period. RMLD has secured fixed pricing for this contract.

Swift River Hydro

In March, 2011 the RMLD signed a purchase power agreements with Swift River Hydro LLC for the output of four hydro systems located in Massachusetts that are effective from February 1, 2011 through January 31, 2026. The Swift River Trading Company is

- **Indian River Hydro:** 15 year term beginning on February 1, 2011 and ending January 31, 2026. RMLD is purchasing all of the products produced by or attributable to the facility. The facility has a nameplate capacity of 1.4 Mws. The products include, but are not limited to, Energy, Installed Capacity, Ancillary Services, Renewable Energy Certificates and Environmental Attributes (to the extent not included in the RECs). The contract price for these products is \$100/Mwh for the first year, escalated 2.25% thereafter. The facility is not currently qualified for FCM. Until the Seller qualifies the facility for FCM the contract price is reduced by \$5.00/Mwh.

Collins Hydro

In August, 2013 the RMLD signed a purchase power agreements with Swift River Hydro LLC for the output of Collins Hydro located in between Ludlow and Wilbraham Massachusetts. The contract with Swift River Hydro is effective from September 1, 2013 through August 31, 2028. The RMLD receives enery only from this contract. The average annual generation is approximately 5,667 megawatt-hours per year.

Pioneer Hydro

In August, 2013 the RMLD signed a purchase power agreements with Ware River Power Inc. for the output of Pioneer Hydro located in Ware, Massachusetts. The contract for Pioneer Hydro is effective from September 1, 2013 through August 31, 2028. The RMLD receives enery only from this contract. The average annual generation is approximately 4,480 megawatt-hours per year.

READING MUNICIPAL LIGHT DEPARTMENT

2015 BUDGET SUMMARY

PURCHASED POWER EXPENSE		TOTAL
NUCLEAR MIX #1 - MILLSTONE	C	924,765
MILLSTONE - TRANSMISSION	T	17,664
MILLSTONE - ENERGY	E	160,523
NUCLEAR MIX #1 - SEABROOK	C	70,731
SEABROOK - TRANSMISSION	T	180
SEABROOK - ENERGY	E	19,823
PROJECT #3 - DEBT SERVICE	C	1,283,131
PROJECT #3 - TRANSMISSION	T	12,624
PROJECT #3 - ENERGY	E	123,087
PROJECT #4 - DEBT SERVICE	C	3,345,119
PROJECT #4 - TRANSMISSION	T	4,104
PROJECT #4 - ENERGY	E	486,505
PROJECT #5 - DEBT SERVICE	C	436,780
PROJECT #5 - TRANSMISSION	T	504
PROJECT #5 - ENERGY	E	60,037
NYPA - CAPACITY*	C	206,064
NYPA - TRANSMISSION*	T	634,410
NYPA - ENERGY*	E	130,874
REMVEC**	E	9,000
ISO-NE CAPACITY	C	2,265,114
ISO-NE TRANSMISSION***	T	11,810,652
ISO-NE ENERGY	E	6,116,209
NEMA CONGESTION****	E	(711,600)
HYDRO QUEBEC SUPPORT SERVICES	C	277,200
STONYBROOK PEAKING PROJECT - CAPACITY	C	572,830
STONYBROOK PEAKING PROJECT - TRANSM	T	33,592
STONYBROOK PEAKING PROJECT - ENERGY	E	397,230
STONYBROOK INTERMEDIATE PROJECT - CAPACI	C	1,316,835
STONYBROOK INTERMEDIATE PROJECT - TR	T	42,997
STONYBROOK INTERMEDIATE PROJECT - ENER	E	1,747,295
J P MORGAN	E	7,293,496
NEXTERA	E	6,098,655
EXELON	E	4,798,187
BRAINTREE WATSON - CAPACITY	C	1,550,718
BRAINTREE WATSON - ENERGY	E	640,261
COOP / RESALE	E	25,200
MACQUARIE / INTEGRYS	E	5,486,096
SWIFT RIVER HYDRO	E	3,368,775
NEXTERA CAPACITY PURCHASE	C	4,083,000
TOTAL BUDGETED PURCHASED POWER		<u>65,138,667</u>

PURCHASED POWER BASE EXPENSE:

TOTAL CAPACITY PURCHASED	C	16,332,287
TOTAL TRANSMISSION PURCHASED	T	<u>12,556,727</u>
TOTAL		<u>28,889,014</u>

PURCHASED POWER FUEL EXPENSE:

TOTAL ENERGY PURCHASED	E	<u>36,249,653</u>
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* PASNY: POWER AUTHORITY FOR THE STATE OF NEW YORK

** REMVEC: RHODE ISLAND, EASTERN MASSACHUSETTS, VERMONT ENERGY CONTROL

*** ISO-NE: INDEPENDENT SYSTEM OPERATOR - NEW ENGLAND

**** NEMA: NORTHEAST MASSACHUSETTS

2015 BUDGET SUMMARY

PURCHASE POWER EXPENSE

PROJECT	CAPACITY	% of Total	TRANSMISSION	% of Total	ENERGY	% of Total	TOTAL	% of Total
NUC. MIX #1 MILLSTONE	924,765	5.7%	17,663	0.1%	160,522	0.4%	1,102,949	1.7%
NUC. MIX #1 SEABROOK	70,731	0.4%	180	0.0%	19,823	0.1%	90,734	0.1%
PROJ. #3 MILLSTONE	1,283,131	7.9%	12,628	0.1%	123,086	0.3%	1,418,844	2.2%
PROJ. #4 SEABROOK	3,345,120	20.5%	4,104	0.0%	486,508	1.3%	3,835,732	5.9%
PROJ. #5 SEABROOK	436,779	2.7%	507	0.0%	60,035	0.2%	497,321	0.8%
NYP&A	206,061	1.3%	634,410	5.1%	130,877	0.4%	971,348	1.5%
STONYBROOK PEAKING PROJECT	572,829	3.5%	33,592	0.3%	397,230	1.1%	1,003,651	1.5%
STONYBROOK INTERMEDIATE PROJECT	1,316,835	8.1%	42,995	0.3%	1,747,295	4.8%	3,107,124	4.8%
ISO-NE	2,265,118	13.9%	11,810,652	94.1%	6,116,208	16.9%	20,191,978	31.0%
BRAINTREE WATSON	1,550,719	9.5%			640,259	1.8%	2,190,978	3.4%
NEXTERA	4,083,000	25.0%			6,098,657	16.8%	10,181,657	15.6%
HYDRO QUEBEC SUPPORT SERVICES	277,200	1.7%					277,200	0.4%
JP MORGAN					7,293,496	20.1%	7,293,496	11.2%
EXELON					4,798,187	13.2%	4,798,187	7.4%
REMVEC					9,000	0.0%	9,000	0.0%
COOP / RESALE					25,200	0.1%	25,200	0.0%
NEMA CONGESTION					(711,600)	-2.0%	(711,600)	-1.1%
BP ENERGY					5,486,095	15.1%	5,486,095	8.4%
SUMMIT HYDRO					0	0.0%	0	0.0%
SWIFT RIVER HYDRO					3,368,774	9.3%	3,368,774	5.2%
TOTAL	16,332,288	100.0%	12,556,732	100.0%	36,249,650	100.0%	65,138,669	100.0%

NYP&A : New York Power Authority

ISO-NE: Independent System Operator - New England

REMVEC: Rhode Island, Eastern Massachusetts, Vermont, Energy Control

NEMA: Northeast Massachusetts

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RMLD
BUDGET / ACTUAL COMPARISON SUMMARY SCHEDULE DRAFT 1
3/31/14

DIVISION	2015 BUDGET [A]	% CHANGE [A] & [B]	2014 7 MTHS ACT 5 MTHS BUD [B]	% CHANGE [B] & [C]	FY 13 ACTUAL [C]
BUSINESS DIVISION	10,143,540	3.91%	9,761,564	1.79%	9,589,645
ENERGY SERVICES	1,405,396	32.09%	1,063,954	0.54%	1,058,281
ENGINEERING AND OPERATIONS	4,966,221	5.89%	4,689,811	1.47%	4,622,081
FACILITY	4,623,594	21.29%	3,812,130	2.99%	3,701,470
GENERAL MANAGER	<u>798,728</u>	-4.25%	<u>834,165</u>	1.48%	<u>821,967</u>
SUB-TOTAL	21,937,478	8.81%	20,161,624	1.86%	19,793,444
PURCHASED POWER BASE	28,889,020	-0.95%	29,167,159	17.25%	24,876,985
PURCHASED POWER FUEL	36,249,650	14.60%	31,631,195	-10.86%	35,484,630
TOTAL	<u>87,076,148</u>	7.55%	<u>80,959,978</u>	1.00%	<u>80,155,059</u>

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RMLD
ENERGY SERVICES DIVISION
BUDGET / ACTUAL COMPARISON SUMMARY SCHEDULE DRAFT 1
3/31/14

ENERGY SERVICES 75	2015 BUDGET TOTAL		2014 7 MTHS ACT 5 MTHS BUD		FY 13 ACTUAL
01-75-5916-000 ENERGY SERV EXP	48,000	28.58%	37,330	15.97%	32,189
01-75-5916-101 LABOR REG	423,184	24.52%	339,859	-15.46%	401,995
01-75-5916-102 LABOR OT	-	-100.00%	113	-96.84%	3,577
01-75-5916-103 EE EDUCATION	15,600	227.11%	4,769	-49.65%	9,472
01-75-5916-105 SUPPLIES	-	0.00%	-	0.00%	-
01-75-5916-109 KEY ACCOUNT	1,500	-74.62%	5,910	1210.42%	451
01-75-5921-000 OFFICE SUPPLIES	-	0.00%	-	-100.00%	79
01-75-5923-000 OUTSIDE SERVICES	138,300	17.55%	117,653	15.01%	102,295
01-75-5916-XXX CONSERVATION	778,812	39.49%	558,320	9.86%	508,223
GRAND TOTAL	<u>1,405,396</u>	32.09%	<u>1,063,954</u>	0.54%	<u>1,058,281</u>

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RMLD
GENERAL MANAGER DIVISION
BUDGET / ACTUAL COMPARISON SUMMARY SCHEDULE DRAFT 1
3/31/14

	2015 BUDGET TOTAL		2014 7 MTHS ACT 5 MTHS BUD		FY 13 ACTUAL
GENERAL MANAGER 51					
01-51-5920-101 LABOR REG	268,865	7.86%	249,283	-5.39%	263,497
01-51-5920-102 LABOR OT	-	-100.00%	234	-83.35%	1,405
01-51-5921-000 OFFICE SUPPLIES	-	-100.00%	153	-84.88%	1,012
01-51-5923-000 OUTSIDE SERVICES	53,000	-69.07%	171,382	53.60%	111,577
01-51-5930-103 EE EDUCATION	9,000	184.63%	3,162	-6.48%	3,381
01-51-5930-105 MISC GENERAL	55,000	3.00%	53,396	-32.58%	79,198
01-51-5930-106 VEHICLE	4,660	-419.86%	(1,457)	-75.80%	(6,021)
SUB-TOTAL	390,525	-17.98%	476,153	4.87%	454,049
HUMAN RESOURCES 52					
01-52-5920-101 LABOR REG	114,411	1.99%	112,183	6.05%	105,783
01-52-5921-000 OFFICE SUPPLIES	-	0.00%	-	0.00%	-
01-52-5923-000 OUTSIDE SERVICES	64,000	17.16%	54,624	-46.28%	101,680
01-52-5930-103 EE EDUCATION	6,580	46.22%	4,500	2594.61%	167
01-52-5930-105 SUPPLIES	900	71.76%	524	17.49%	446
01-52-5930-109 MISC GENERAL	13,540	31.47%	10,299	-14.20%	12,003
SUB-TOTAL	199,431	9.50%	182,130	-17.24%	220,079
MUNITY RELATIONS 54					
01-54-5920-101 LABOR REG	94,516	21.86%	77,564	5.51%	73,511
01-54-5920-102 LABOR OT	-	-100.00%	652	100.00%	-
01-54-5921-000 OFFICE SUPPLIES	-	0.00%	-	0.00%	-
01-54-5930-109 MISC GENERAL	82,320	21.02%	68,020	17.27%	58,002
01-54-5930-103 EE EDUCATION	2,400	2.96%	2,331	1764.80%	125
01-54-5930-105 SUPPLIES	6,990	-27.13%	9,592	117.01%	4,420
SUB-TOTAL	186,226	17.75%	158,159	16.24%	136,058
CAB 56					
01-56-5920-101 LABOR REG	5,024	83.70%	2,735	711.57%	337
01-56-5920-102 LABOR OT	1,200	104.08%	588	13.51%	518
01-56-5930-105 SUPPLIES	-	0.00%	-	0.00%	-
01-56-5930-109 MISC GENERAL	8,821	73.13%	5,095	-17.26%	6,158
SUB-TOTAL	15,045	78.73%	8,418	20.03%	7,013
BOARD 58					
01-58-5930-109 MISC GENERAL	7,500	-19.40%	9,305	95.16%	4,768
SUB-TOTAL	7,500	-19.40%	9,305	95.16%	4,768
GRAND TOTAL	798,728	-4.25%	834,165	1.48%	821,967

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RMLD
FACILITY MANAGER DIVISION
BUDGET / ACTUAL COMPARISON SUMMARY SCHEDULE DRAFT 1
3/31/14

	2015 BUDGET TOTAL		2014 7 MTHS ACT 5 MTHS BUD		FY 13 ACTUAL
GENERAL BENEFITS 53					
01-53-5920-101 LABOR REG	104,050	-22.17%	133,692	79.16%	74,622
01-53-5920-102 LABOR OT	-	-100.00%	228	100.00%	-
01-53-5921-000 OFFICE SUPPLIES	-	-100.00%	1,015	100.00%	-
01-53-5930-103 EE EDUCATION	21,600	71900.00%	30	-68.42%	95
01-53-5930-105 SUPPLIES	1,000	138.66%	419	100.00%	-
01-53-5923-000 OUTSIDE SERVICES	27,000	170.00%	10,000	54.85%	6,458
01-53-5924-000 PROPERTY INSURANCE	453,200	15.29%	393,089	1.69%	386,560
01-53-5925-000 INJURIES & DAMAGES	49,059	5.07%	46,692	32.53%	35,230
01-53-5926-000 EE PENS & BENEFIT	2,746,619	35.98%	2,019,837	-0.34%	2,026,826
01-53-5930-109 MISC GENERAL	3,300	49.12%	2,213	572.64%	329
01-53-5931-000 RENT	212,000	6.75%	198,601	0.94%	196,756
SUB-TOTAL	<u>3,617,828</u>	28.94%	<u>2,805,816</u>	2.89%	<u>2,726,876</u>
TRANSPORTATION 63					
01-63-5933-109 MISC GENERAL	(236,072)	181.37%	(83,902)	11650.98%	(714)
01-63-5933-101 LABOR REG	65,370	16.42%	56,151	-30.99%	81,372
01-63-5933-102 LABOR OT	8,400	57.98%	5,317	-55.23%	11,877
01-63-5933-103 EE EDUCATION	2,400	380.00%	500	100.00%	-
01-63-5933-105 SUPPLIES	392,920	-978.54%	(44,724)	-88.34%	(383,433)
LESS ALLOCATION RECLASS	(233,018)	-449.57%	66,658	-77.09%	290,844
SUB-TOTAL	<u>-</u>	0.00%	<u>-</u>	0.00%	<u>-</u>
BUILDING MAINTENANCE 64					
01-64-5923-000 OUTSIDE SERVICES	10,350	116.21%	4,787	-95.21%	99,979
01-64-5932-101 LABOR REG	100,951	-19.87%	125,977	-2.74%	129,530
01-64-5932-102 LABOR OT	32,000	11.95%	28,585	16.93%	24,446
01-64-5932-103 EE EDUCATION	2,400	380.00%	500	156.41%	195
01-64-5932-105 SUPPLIES	432,180	-3.25%	446,716	21.29%	368,308
SUB-TOTAL	<u>577,881</u>	-4.73%	<u>606,565</u>	-2.55%	<u>622,458</u>
MATERIALS MANAGEMENT 60					
01-60-5588-109 MISC DIST EXP	70,000	5.53%	66,333	48.90%	44,548
01-60-5588-101 LABOR REG	294,625	5.19%	280,087	0.77%	277,946
01-60-5588-102 LABOR OT	15,000	26.42%	11,865	25.29%	9,470
01-60-5588-103 EE EDUCATION	10,260	553.09%	1,571	516.08%	255
01-60-5588-105 SUPPLIES	13,000	-6.29%	13,873	51.11%	9,181
01-60-5588-104 RFP EXPENSES	-	-100.00%	440	-94.85%	8,538
01-60-5921-000 OFFICE SUPPLIES	25,000	-2.27%	25,580	1063.79%	2,198
SUB-TOTAL	<u>427,885</u>	7.04%	<u>399,749</u>	13.52%	<u>352,136</u>
GRAND TOTAL	<u>4,623,594</u>	21.29%	<u>3,812,130</u>	2.99%	<u>3,701,470</u>

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RMLD
BUSINESS DIVISION
BUDGET / ACTUAL COMPARISON SUMMARY SCHEDULE DRAFT 1
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ACCOUNTING 59	2015 BUDGET TOTAL		2014 7 MTHS ACT 5 MTHS BUD		FY 13 ACTUAL
01-59-5903-101 LABOR REG	217,219	9.75%	197,917	5.07%	188,360
01-59-5903-102 LABOR OT	400	100.00%	200	100.00%	-
01-59-5903-103 EE EDUCATION	6,200	100.00%	-	0.00%	-
01-59-5903-105 SUPPLIES	333,000	15.31%	288,790	27.92%	225,760
01-59-5921-000 OFFICE SUPPLIES	276,000	11.53%	247,464	13.21%	218,584
01-59-5923-000 OUTSIDE SERVICES	35,000	-9.09%	38,500	0.47%	38,320
SUB-TOTAL	<u>867,819</u>	12.29%	<u>772,871</u>	15.18%	<u>671,024</u>
CUSTOMER SERVICE 62					
01-62-5903-101 LABOR REG	525,214	7.25%	489,720	4.35%	469,283
01-62-5903-102 LABOR OT	2,000	147.22%	809	-88.70%	7,159
01-62-5903-103 EE EDUCATION	4,800	34.19%	3,577	7.87%	3,316
01-62-5903-104 TEMP LABOR	-	0.00%	-	-100.00%	16,680
01-62-5903-105 SUPPLIES	18,000	-4.53%	18,854	-21.65%	24,064
01-62-5903-106 VEHICLE	4,660	-419.86%	(1,457)	-75.80%	(6,021)
01-62-5903-109 RES ENERGY AUDITS	-	0.00%	-	0.00%	-
01-62-5904-000 UNCOLLECT ACCOUNTS	120,000	-4.76%	126,000	21.28%	103,896
01-62-5921-000 OFFICE SUPPLIES	-	0.00%	-	-100.00%	1,303
SUB-TOTAL	<u>674,674</u>	5.83%	<u>637,503</u>	2.88%	<u>619,680</u>
MIS 61					
01-61-5903-101 LABOR REG	562,439	10.46%	509,184	15.68%	440,175
01-62-5903-102 LABOR OT	800	-65.13%	2,294	-85.51%	15,837
01-61-5903-103 EE EDUCATION	9,600	-32.06%	14,130	330.27%	3,284
01-61-5903-105 SUPPLIES	21,000	106.90%	10,150	-61.05%	26,060
01-61-5935-000 MTN GEN PLANT	170,180	18.55%	143,548	62.27%	88,460
01-61-5921-000 OFFICE SUPPLIES	-	-100.00%	138	-98.88%	12,278
SUB-TOTAL	<u>764,019</u>	12.45%	<u>679,444</u>	15.93%	<u>586,094</u>
MISCELLANEOUS DEDUCTIONS 57/77					
01-77-5403-000 DEPRECIATION EXP	3,892,000	3.02%	3,777,787	6.35%	3,552,329
01-77-5408-000 VOLUNTARY PAYMENTS	1,416,000	1.25%	1,398,522	3.47%	1,351,568
01-77-5419-000 INTEREST EXP	3,000	-28.35%	4,187	186.78%	1,460
01-77-5426-000 OTHER DEDUCTIONS	2,482,863	1.30%	2,451,000	-11.51%	2,769,914
01-57-5920-101 BM LABOR REG	40,764	3.86%	39,250	6.18%	36,967
01-57-5930-109 BM MISC GENERAL	2,400	140.00%	1,000	64.20%	609
SUB-TOTAL	<u>7,837,027</u>	2.15%	<u>7,671,746</u>	-0.53%	<u>7,712,847</u>
GRAND TOTAL	<u>10,143,540</u>	3.91%	<u>9,761,564</u>	1.79%	<u>9,589,645</u>

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RMLD
ENGINEERING AND OPERATIONS DIVISION
BUDGET / ACTUAL COMPARISON SUMMARY SCHEDULE DRAFT 1
3/31/14

	2015 BUDGET TOTAL		2014 7 MTHS ACT 5 MTHS BUD		FY 13 ACTUAL
E&O MGR 55					
01-55-5920-101 LABOR REG	211,840	-1.42%	214,896	14.92%	186,997
01-55-5920-102 LABOR OT	1,500	106.33%	727	-80.21%	3,673
01-55-5921-000 OFFICE SUPPLIES	-	0.00%	-	-100.00%	197
01-55-5930-103 EE EDUCATION	9,600	200.75%	3,192	-64.89%	9,091
01-55-5930-106 VEHICLE	4,660	-320.87%	(2,110)	-64.96%	(6,021)
01-55-5923-000 OUTSIDE SERVICES	10,500	-21.44%	13,365	-34.34%	20,355
01-55-5930-105 MISC GENERAL	500	56.74%	319	-33.26%	478
SUB-TOTAL	238,601	3.56%	230,389	7.27%	214,770
ENGINEERING 66					
01-65-5580-101 LABOR REG	522,008	22.53%	426,014	0.53%	423,763
01-65-5580-102 LABOR OT	25,000	-51.39%	51,432	-30.77%	74,296
01-65-5580-103 EE EDUCATION	24,000	193.15%	8,187	-33.74%	12,356
01-65-5580-105 SUPPLIES	8,000	-7.26%	8,626	26.50%	6,819
01-65-5580-106 VEHICLE	4,660	-734.06%	(735)	-84.78%	(4,828)
01-65-5921-000 OFFICE SUPPLIES	-	-100.00%	81	-92.07%	1,021
01-65-5923-000 OUTSIDE SERVICES	13,500	75.14%	7,708	100.00%	-
SUB-TOTAL	597,168	19.12%	501,313	-2.36%	513,427
LINE 66					
01-66-5568-109 MTN OF TRANS EXP	3,000	5.63%	2,840	4.22%	2,725
01-66-5581-101 LABOR MISC	513,259	-23.25%	668,706	16.13%	575,831
01-65-5581-109 GENERAL EXP	90,000	7.67%	83,587	1.21%	82,589
01-66-5581-103 EE EDUCATION	54,000	92.76%	28,014	-38.75%	45,738
01-66-5585-109 STREET LIGHT EXP	25,000	6.10%	23,563	-48.86%	46,074
01-66-5585-101 LABOR REG ST LIGHT	26,605	-15.77%	31,585	-21.72%	40,347
01-66-5585-102 LABOR OT ST LIGHT	8,000	17.34%	6,818	-34.12%	10,349
01-66-5585-106 VEHICLE ST LIGHT	23,302	20.28%	19,373	-5.27%	20,451
01-66-5593-000 MTN OF LINES	144,821	-36.39%	227,670	4.14%	218,623
01-66-5593-101 LABOR REG MTN LINE	490,586	3.52%	473,920	-5.56%	501,812
01-66-5593-102 LABOR OT MTN LINE	241,866	-19.14%	299,112	-33.72%	451,261
01-66-5593-106 VEHICLE MTN OH LINE	158,452	83.97%	86,131	217.49%	27,129
01-78-5593-110 TREE TRIMMING	757,069	43.00%	529,411	26.47%	418,609
01-66-5594-109 MTN UG LINE	104,755	-62.52%	279,487	100.00%	-
01-66-5594-101 LABOR REG UG LINES	15,559	-37.20%	24,777	308.19%	6,070
01-66-5594-102 LABOR OT UG LINE	5,000	-40.71%	8,433	581.18%	1,238
01-66-5594-106 VEHICLE MTN UG LINE	5,380	-46.47%	10,051	-410.60%	(3,236)
01-66-5596-109 ST LT & SIG EXP	250	142.72%	103	-99.95%	203,132
01-66-5596-101 LABOR REG ST LT/SG	6,915	124.74%	3,077	100.00%	-
01-66-5596-102 LABOR OT ST LT/SG	250	142.72%	103	100.00%	-
01-66-5596-106 VEHICLE ST LT/SG	2,330	216.60%	736	-312.10%	(347)
01-66-5921-000 OFFICE SUPPLIES	-	-	-	-100.00%	302
SUB-TOTAL	2,676,399	-4.67%	2,807,497	6.00%	2,648,697

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RMLD
ENGINEERING AND OPERATIONS DIVISION
BUDGET / ACTUAL COMPARISON SUMMARY SCHEDULE DRAFT 1
3/31/14

E&O MGR 55	2015 BUDGET TOTAL		2014 7 MTHS ACT 5 MTHS BUD		FY 13 ACTUAL
01-55-5920-101 LABOR REG	211,840	-1.42%	214,896	14.92%	186,997
01-55-5920-102 LABOR OT	1,500	106.33%	727	-80.21%	3,673
01-55-5921-000 OFFICE SUPPLIES	-	0.00%	-	-100.00%	197
01-55-5930-103 EE EDUCATION	9,600	200.75%	3,192	-64.89%	9,091
01-55-5930-106 VEHICLE	4,660	-320.87%	(2,110)	-64.96%	(6,021)
01-55-5923-000 OUTSIDE SERVICES	10,500	-21.44%	13,365	-34.34%	20,355
01-55-5930-105 MISC GENERAL	500	56.74%	319	-33.26%	478
SUB-TOTAL	238,601	3.56%	230,389	7.27%	214,770
ENGINEERING 65					
01-65-5580-101 LABOR REG	522,008	22.53%	426,014	0.53%	423,763
01-65-5580-102 LABOR OT	25,000	-51.39%	51,432	-30.77%	74,296
01-65-5580-103 EE EDUCATION	24,000	193.15%	8,187	-33.74%	12,356
01-65-5580-105 SUPPLIES	8,000	-7.26%	8,626	26.50%	6,819
01-65-5580-106 VEHICLE	4,660	-734.06%	(735)	-84.78%	(4,828)
01-65-5921-000 OFFICE SUPPLIES	-	-100.00%	81	-92.07%	1,021
01-65-5923-000 OUTSIDE SERVICES	13,500	75.14%	7,708	100.00%	-
SUB-TOTAL	597,168	19.12%	501,313	-2.36%	513,427
66					
01-66-5568-109 MTN OF TRANS EXP	3,000	5.63%	2,840	4.22%	2,725
01-66-5581-101 LABOR MISC	513,259	-23.25%	668,706	16.13%	575,831
01-65-5581-109 GENERAL EXP	90,000	7.67%	83,587	1.21%	82,589
01-66-5581-103 EE EDUCATION	54,000	92.76%	28,014	-38.75%	45,738
01-66-5585-109 STREET LIGHT EXP	25,000	6.10%	23,563	-48.86%	46,074
01-66-5585-101 LABOR REG ST LIGHT	26,605	-15.77%	31,585	-21.72%	40,347
01-66-5585-102 LABOR OT ST LIGHT	8,000	17.34%	6,818	-34.12%	10,349
01-66-5585-106 VEHICLE ST LIGHT	23,302	20.28%	19,373	-5.27%	20,451
01-66-5593-000 MTN OF LINES	144,821	-36.39%	227,670	4.14%	218,623
01-66-5593-101 LABOR REG MTN LINE	490,586	3.52%	473,920	-5.56%	501,812
01-66-5593-102 LABOR OT MTN LINE	241,866	-19.14%	299,112	-33.72%	451,261
01-66-5593-106 VEHICLE MTN OH LINE	158,452	83.97%	86,131	217.49%	27,129
01-78-5593-110 TREE TRIMMING	757,069	43.00%	529,411	26.47%	418,609
01-66-5594-109 MTN UG LINE	104,755	-62.52%	279,487	100.00%	-
01-66-5594-101 LABOR REG UG LINES	15,559	-37.20%	24,777	308.19%	6,070
01-66-5594-102 LABOR OT UG LINE	5,000	-40.71%	8,433	581.18%	1,238
01-66-5594-106 VEHICLE MTN UG LINE	5,380	-46.47%	10,051	-410.60%	(3,236)
01-66-5596-109 ST LT & SIG EXP	250	142.72%	103	-99.95%	203,132
01-66-5596-101 LABOR REG ST LT/SG	6,915	124.74%	3,077	100.00%	-
01-66-5596-102 LABOR OT ST LT/SG	250	142.72%	103	100.00%	-
01-66-5596-106 VEHICLE ST LT/SG	2,330	216.60%	736	-312.10%	(347)
01-66-5921-000 OFFICE SUPPLIES	-	-	-	-100.00%	302
SUB-TOTAL	2,676,399	-4.67%	2,807,497	6.00%	2,648,697

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2015 BUDGET SUMMARY

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OPERATING REVENUE:	JUL 14	AUG 14	SEP 14	OCT 14	NOV 14	DEC 14	JAN 15	FEB 15	MAR 15	APR 15	MAY 15	JUN 15	TOTAL
SALES OF ELEC - BASE	4,825,608	4,976,719	4,907,009	3,896,893	3,959,753	3,814,761	4,142,424	4,210,765	3,944,532	3,917,010	3,630,594	4,223,460	50,449,523
SALES OF ELEC - FUEL	3,492,677	3,601,140	3,658,494	2,968,042	2,940,256	2,757,807	2,950,028	3,073,135	2,896,391	2,884,163	2,684,990	3,142,523	36,949,646
ENERGY CONSERVATION	65,843	67,716	68,811	53,704	55,084	51,597	55,270	57,624	54,245	54,011	50,205	58,950	682,860
PURCHASE POWER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0
GAW REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0
NYPA CREDIT	(58,333)	(58,333)	(58,333)	(58,333)	(58,333)	(58,333)	(58,333)	(58,333)	(58,333)	(58,333)	(58,333)	(58,337)	(700,000)
TOTAL OPERATING REVENUE	8,325,595	8,587,242	8,575,981	6,750,306	6,896,780	6,565,832	7,089,369	7,283,191	6,836,835	6,756,851	6,307,456	7,356,556	87,352,029
OPERATING EXPENSES:													
PURCHASED POWER - BASE	2,719,894	2,524,710	2,675,996	2,093,095	2,228,899	2,353,924	2,301,093	2,316,142	2,275,261	2,107,941	2,459,899	2,800,160	28,889,014
OPERATION EXPENSE	1,025,126	851,838	974,384	871,102	823,964	948,614	907,009	843,029	935,604	856,977	831,629	913,079	10,786,355
MAINTENANCE EXPENSE	295,816	258,674	279,051	298,266	250,534	305,278	308,511	260,825	274,332	297,457	249,525	278,993	3,357,261
DEPRECIATION EXPENSE	324,333	324,333	324,333	324,333	324,333	324,333	324,333	324,333	324,333	324,333	324,333	324,337	3,892,000
TOWN PAYMENTS	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	1,416,000
SUB-TOTAL	4,483,168	4,077,554	4,371,764	3,704,796	3,737,730	4,050,150	3,958,946	3,864,329	3,929,530	3,704,708	4,023,386	4,434,569	48,340,629
PURCHASED POWER - FUEL	3,662,273	3,038,671	2,355,661	2,338,577	2,516,034	3,349,862	4,991,993	4,064,678	2,880,208	2,209,022	2,180,953	2,661,721	36,249,653
TOTAL OPERATING EXPENSES	8,145,441	7,116,225	6,727,425	6,043,373	6,253,764	7,400,012	8,950,939	7,929,007	6,809,738	5,913,730	6,204,339	7,096,290	84,590,282
NET OPERATING INCOME	180,154	1,471,017	1,848,556	716,933	642,996	(834,180)	(1,861,550)	(645,816)	27,067	843,121	103,117	270,306	2,801,747
OTHER INCOME:													
MOSE AND JOBBING	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	276,000
INTEREST INCOME	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,337	100,000
FORFEITED DISCOUNTS	106,163	109,498	107,954	85,732	87,115	83,925	91,133	92,637	86,780	86,174	79,873	92,916	1,109,890
MISCELLANEOUS REVENUE	50,000	0	0	50,000	0	0	50,000	0	0	50,000	0	560,000	750,000
TOTAL OTHER INCOME	187,496	140,821	139,287	167,065	118,448	115,258	172,466	123,970	118,113	167,507	111,206	674,253	2,235,890
MISCELLANEOUS INCOME DEDUCTIONS:													
CUSTOMER DEPOSIT INTEREST EXP	250	250	250	250	250	250	250	250	250	250	250	250	3,000
OTHER DEDUCTIONS (ROI)	194,405	194,405	194,405	194,405	194,405	194,405	194,405	194,405	194,405	194,405	194,405	344,405	2,482,863
TOTAL MISCELLANEOUS DEDUCTIONS	194,655	194,655	194,655	194,655	194,655	194,655	194,655	194,655	194,655	194,655	194,655	344,655	2,485,863
NET INCOME	172,995	1,417,182	1,793,188	689,343	566,789	(913,577)	(1,863,739)	(716,501)	(49,445)	855,973	19,668	599,904	2,551,773

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PROJECTED REVENUE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
RESIDENTIAL REVENUE:													
RESIDENTIAL A-RATE	2,230,914	2,271,500	2,104,721	1,470,042	1,544,284	1,598,950	1,529,575	1,794,631	1,581,887	1,588,472	1,319,739	1,679,628	21,115,343
RESIDENTIAL WATER HEATER A-RATE	40,244	41,553	39,252	29,529	34,457	37,799	46,898	45,056	41,078	40,151	30,458	33,999	460,494
RESIDENTIAL TIME OF USE	27,941	29,467	27,571	19,094	20,155	21,905	26,655	26,466	20,198	18,776	15,816	20,795	274,839
SUB TOTAL	2,299,099	2,342,520	2,171,554	1,516,665	1,598,896	1,659,654	2,005,128	1,866,153	1,643,163	1,647,399	1,366,013	1,734,422	21,850,676
COMMERCIAL REVENUE:													
COMMERCIAL C RATE	1,357,292	1,399,623	1,461,782	1,266,806	1,265,568	1,159,872	1,153,015	1,255,966	1,269,302	1,205,590	1,195,808	1,313,590	15,309,214
SCHOOL RATE	74,905	64,496	81,188	85,598	91,966	86,327	82,416	96,724	88,731	87,627	80,547	87,947	1,008,473
INDUSTRIAL REVENUE:													
INDUSTRIAL TIME OF USE	1,037,377	1,113,811	1,135,414	980,249	956,210	866,541	851,750	942,581	891,093	932,084	945,547	1,036,200	11,688,857
SUB TOTAL	2,469,574	2,577,930	2,678,384	2,332,654	2,313,744	2,112,740	2,092,181	2,295,271	2,249,126	2,226,301	2,221,902	2,437,737	28,006,544
STREET LIGHT REVENUE:													
PUBLIC	18,449	18,449	18,451	18,473	18,485	18,490	18,493	18,493	18,405	18,407	18,449	18,449	221,493
PRIVATE	5,726	5,679	5,697	5,721	5,751	5,000	5,902	5,903	5,655	5,657	5,677	5,655	68,823
SUB TOTAL	24,175	24,128	24,148	24,194	24,236	24,290	24,395	24,396	24,060	24,064	24,126	24,104	290,316
COOP - RESALE REVENUE	32,760	32,141	32,923	21,380	22,877	18,077	22,720	24,535	28,183	20,246	18,563	27,197	301,992
TOTAL BASE REVENUE	4,825,608	4,976,719	4,907,009	3,896,893	3,959,753	3,874,761	4,142,424	4,210,765	3,944,532	3,917,010	3,630,594	4,223,460	50,449,528
FUEL REVENUE	3,492,877	3,601,140	3,658,494	2,865,042	2,940,256	2,787,807	2,950,028	3,073,135	2,896,391	2,884,163	2,684,990	3,142,523	36,949,646
LESS PASNY CREDIT	(58,333)	(58,333)	(58,333)	(58,333)	(58,333)	(58,333)	(58,333)	(58,333)	(58,333)	(58,333)	(58,333)	(58,337)	(700,000)
TOTAL NET FUEL REVENUE	3,434,544	3,542,807	3,600,161	2,806,709	2,881,923	2,699,474	2,891,695	3,014,802	2,838,058	2,825,826	2,626,657	3,084,186	36,249,646
PURCHASED POWER ADJUSTMENT (PPA)	109,253	91,178	109,388	74,732	84,390	83,666	89,642	93,618	77,819	78,874	79,248	79,076	1,050,884
ENERGY CONSERVATION - RESIDENTIAL	27,057	27,573	25,540	17,751	18,713	19,445	23,543	21,894	19,228	19,294	15,929	20,601	256,568
ENERGY CONSERVATION - COMMERCIAL	38,586	40,143	43,271	35,953	36,371	32,152	31,727	35,730	35,017	34,717	34,276	38,349	436,292
TOTAL ENERGY CONSERVATION	65,643	67,716	68,811	53,704	55,084	51,597	55,270	57,624	54,245	54,011	50,205	58,950	692,860
GAW REVENUE	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL REVENUES	8,434,648	8,678,420	8,685,369	6,835,038	6,981,150	6,649,498	7,179,031	7,376,809	6,914,654	6,875,725	6,386,704	7,445,672	88,442,918
FUEL CHARGE													

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2015 BUDGET SUMMARY

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PROJECTED MISCELLANEOUS REVENUE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
MMWEC FLUSH OF FUNDS	0	0	0	0	0	0	0	0	0	0	0	500,000	500,000
CONTRIBUTIONS IN AID OF CONSTRUCTION	50,000	0	0	50,000	0	0	50,000	0	0	50,000	0	0	200,000
SURPLUS APPLIED TO DEPRECIATION	0	0	0	0	0	0	0	0	0	0	0	50,000	50,000
TOTAL MISCELLANEOUS REVENUE	50,000	0	0	50,000	0	0	50,000	0	0	50,000	0	550,000	750,000

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	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
PURCHASED POWER EXPENSE													
NUCLEAR MIX #1 - MILLSTONE	101,990	102,470	102,279	21,259	102,980	101,105	65,726	65,834	64,161	65,606	65,507	65,648	924,765
T	1,472	1,472	1,472	1,472	1,472	1,472	1,472	1,472	1,472	1,472	1,472	1,472	17,664
MILLSTONE - TRANSMISSION	14,739	14,739	14,264	0	14,283	14,739	15,034	15,034	15,034	15,034	15,034	15,034	160,523
C	9,039	8,494	8,640	(9,520)	7,486	9,394	5,863	5,719	7,481	5,928	6,009	6,200	70,731
NUCLEAR MIX #1 - SEABROOK	15	15	15	15	15	15	15	15	15	15	15	15	180
T	1,667	1,667	1,613	1,667	1,667	1,667	1,700	1,536	1,698	1,646	1,700	1,646	19,823
SEABROOK - TRANSMISSION	109,473	109,470	109,467	66,949	109,471	109,519	111,463	111,467	111,462	111,490	111,453	111,447	1,283,131
C	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	12,624
PROJECT #3 - TRANSMISSION	11,302	11,302	10,937	0	10,952	11,302	11,528	10,412	11,512	11,558	11,528	11,156	123,087
T	283,383	283,365	283,320	283,293	283,282	283,238	274,252	274,211	274,101	274,311	274,150	274,133	3,345,119
PROJECT #3 - ENERGY	342	342	342	342	342	342	342	342	342	342	342	342	4,104
PROJECT #4 - TRANSMISSION	40,914	40,914	39,594	40,914	39,549	40,914	41,732	37,694	41,676	40,386	41,732	40,386	486,505
C	36,766	36,763	36,758	36,755	36,755	36,751	36,041	36,037	36,036	36,053	36,033	36,032	436,780
PROJECT #5 - TRANSMISSION	42	42	42	42	42	42	42	42	42	42	42	42	504
PROJECT #5 - DEBT SERVICE	5,049	5,049	4,986	5,049	4,893	5,049	5,150	4,651	5,143	4,984	5,150	4,984	60,037
T	17,172	17,172	17,172	17,172	17,172	17,172	17,172	17,172	17,172	17,172	17,172	17,172	206,064
PROJECT #5 - ENERGY	17,509	30,268	14,682	7,570	13,686	47,297	137,809	173,522	118,902	33,427	19,555	20,163	634,410
C	11,006	11,006	10,651	11,006	10,666	11,006	11,227	10,140	10,864	10,864	11,227	10,864	130,874
NYP&A - TRANSMISSION*	750	750	750	750	750	750	750	750	750	750	750	750	9,000
T	188,230	188,230	188,230	188,230	188,230	188,230	188,230	188,230	188,230	188,230	188,230	188,230	2,265,114
REINVECT**	1,003,804	1,003,815	1,223,902	778,422	801,146	907,977	858,228	818,427	796,976	715,696	1,123,587	1,393,572	11,810,682
ISO-NE CAPACITY	959,364	392,085	426,772	322,712	616,764	978,313	137,301	569,999	223,445	(59,300)	(59,300)	(59,300)	6,116,209
C	(59,300)	(59,300)	(59,300)	(59,300)	(59,300)	(59,300)	(59,300)	(59,300)	(59,300)	(59,300)	(59,300)	(59,300)	(711,600)
ISO-NE ENERGY	23,100	23,100	23,100	23,100	23,100	23,100	23,100	23,100	23,100	23,100	23,100	23,100	277,200
T	48,647	48,794	38,422	48,086	48,778	47,536	48,639	49,402	48,109	49,965	49,342	47,970	572,890
HYDRO QUEBEC SUPPORT SERVICES	1,594	1,594	1,875	2,189	1,590	2,835	1,527	4,800	2,750	1,441	4,687	2,648	33,982
C	5,075	5,075	4,887	5,062	4,961	5,261	343,095	4,800	5,201	4,564	4,687	4,562	397,220
STONYBROOK PEAKING PROJECT - TRANSMISSION	100,518	105,803	131,721	157,978	117,162	104,535	57,060	79,309	121,445	113,282	111,233	116,789	1,316,835
T	1,706	1,473	1,793	3,083	1,533	3,688	1,684	1,429	3,585	1,429	1,408	3,726	42,997
STONYBROOK INTERMEDIATE PROJECT - CAPAC	49,114	49,114	47,291	48,010	48,010	50,913	1,037,594	232,265	50,328	44,168	45,360	44,147	1,747,285
C	639,389	628,882	427,289	452,218	428,823	484,460	1,329,029	1,244,121	589,395	338,841	316,280	456,769	7,293,496
STONYBROOK INTERMEDIATE PROJECT - ENER	685,186	684,001	474,323	336,867	371,277	617,166	702,923	577,982	413,344	387,113	361,593	486,880	6,098,655
T	507,461	492,681	348,291	490,527	344,586	400,658	518,012	441,366	274,851	284,841	338,648	355,995	4,796,187
EXELON	132,040	132,040	127,812	126,605	126,605	129,624	132,176	130,911	127,748	127,748	127,756	129,653	1,550,718
C	27,357	27,357	26,341	27,268	26,341	26,341	26,341	26,341	26,341	26,341	26,341	26,341	316,280
BRANTREE WATSON - CAPACITY	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	25,200
T	605,489	599,311	473,239	485,210	391,753	442,144	460,299	417,657	376,200	381,802	406,354	446,638	5,486,096
COOP / RESALE	155,611	133,738	101,733	167,516	258,440	334,362	318,232	296,184	473,161	492,511	403,963	233,324	3,368,775
MACQUARIE / INTERGRYS	339,000	339,000	339,000	339,000	339,000	339,000	339,000	339,000	339,000	339,000	339,000	339,000	4,083,000
SWIFT RIVER HYDRO													
NEXTERA CAPACITY PURCHASE													
TOTAL BUDGETED PURCHASED POWER	6,382,167	5,563,381	6,031,657	4,431,672	4,736,933	5,703,786	7,293,086	6,382,820	5,153,469	4,316,963	4,680,852	5,461,891	65,138,667

PURCHASED POWER BASE EXPENSE:

TOTAL CAPACITY PURCHASED	C	1,369,368	1,394,701	1,400,021	1,298,906	1,389,204	1,298,922	1,320,392	1,358,124	1,350,823	1,348,985	1,376,928	16,332,287
TOTAL TRANSMISSION PURCHASED	T	1,330,536	1,130,009	1,270,075	794,167	820,878	984,730	1,002,471	997,750	757,118	1,150,914	1,423,232	12,556,727
TOTAL		2,719,894	2,524,710	2,670,100	2,093,073	2,210,082	2,283,652	2,322,863	2,355,874	2,107,941	2,499,899	2,800,160	28,889,014
PURCHASED POWER FUEL EXPENSE:													
TOTAL ENERGY PURCHASED	E	3,662,273	3,038,671	2,355,661	2,338,577	2,516,034	3,349,862	4,991,893	4,084,678	2,209,022	2,180,953	2,681,721	36,249,653
TOTAL ENERGY PURCHASED	E	0	0	0	0	0	0	0	0	0	0	0	0

* PASNY: POWER AUTHORITY FOR THE STATE OF NEW YORK
 ** REMVECT: RHODE ISLAND, EASTERN MASSACHUSETTS, VERMONT ENERGY CONTROL
 *** ISO-NE: INDEPENDENT SYSTEM OPERATOR - NEW ENGLAND
 **** NEMA: NORTH EAST MASSACHUSETTS

READING MUNICIPAL LIGHT DEPARTMENT

2015 BUDGET SUMMARY

DRAFT 1 3/31/14

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
OPERATING EXPENSES:													
555 PURCHASED POWER	6,382,167	5,563,381	5,031,657	4,431,672	4,736,933	5,703,786	7,293,086	6,382,820	5,153,469	4,316,963	4,680,852	5,461,881	65,138,667
TOTAL PURCHASED POWER	6,382,167	5,563,381	5,031,657	4,431,672	4,736,933	5,703,786	7,293,086	6,382,820	5,153,469	4,316,963	4,680,852	5,461,881	65,138,667
558 MAINT OF TRANS PLANT	250	250	250	250	250	250	250	250	250	250	250	250	3,000
TOTAL TRANSMISSION EXP	250	250	250	250	250	250	250	250	250	250	250	250	3,000
580 OPER SUPER & ENGIN	48,017	42,145	53,528	48,017	42,005	57,886	48,781	42,769	54,483	48,781	42,769	54,484	583,668
581 OPERATION LABOR	6,862	6,862	9,162	6,862	6,862	9,162	7,092	7,092	9,450	7,092	7,092	9,441	93,077
581 1 OPERATION LABOR MISC	49,169	49,169	58,423	49,169	49,169	58,423	53,752	49,169	58,423	49,169	49,169	58,423	657,259
582 OPERATION SUPPLIES & EXP	31,869	30,433	35,338	31,869	30,363	36,719	36,241	30,861	35,960	32,367	30,861	35,966	398,649
585 STREET LIGHTING EXP	6,477	7,117	7,503	6,477	6,417	7,789	6,719	6,430	7,518	6,490	6,430	7,541	82,907
588 METER EXP	18,072	17,431	20,323	18,072	17,011	22,335	23,786	20,319	24,457	21,390	20,319	24,434	247,938
588 MISC DISTRIBUTION EXP	31,285	30,385	35,331	31,285	30,385	37,831	31,839	30,339	36,624	31,839	30,339	36,944	402,885
590 MAINT OF STRUCTURE & EQUIP	39,414	37,478	43,391	39,414	37,408	44,535	39,712	37,706	43,764	39,712	37,706	43,785	484,026
593 MAINT OF LINES OH	143,801	145,653	159,031	143,801	140,883	163,261	147,146	141,183	159,393	144,091	141,183	163,359	1,792,794
594 MAINT OF LINES UG	10,770	10,898	11,071	10,770	10,758	11,151	10,841	10,760	11,074	10,772	10,760	11,070	130,694
595 MAINT OF LINE TRANSFORMS	39,000	0	0	39,000	0	0	39,000	0	0	39,000	0	0	156,000
596 MAINT OF ST LT & SIG SYS	757	821	892	757	751	928	789	753	893	759	753	892	9,745
597 MAINT OF METERS	5,007	4,907	5,633	4,907	4,907	5,705	2,006	2,006	2,067	2,006	2,006	2,073	43,290
TOTAL DISTRIBUTION EXP	430,501	383,300	450,285	430,401	376,930	470,195	447,704	386,647	454,105	433,458	379,987	439,570	5,083,084
902 METER READING LABOR & EXP	2,553	2,496	2,757	2,553	2,285	2,776	2,600	2,332	2,816	2,600	2,332	2,823	30,922
903 ACCT & COLL LABOR & EXP	138,940	134,168	160,502	131,751	127,839	158,419	147,541	129,333	159,634	133,245	129,333	154,628	1,705,333
904 UNCOLLECTABLE ACCTS	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	120,000
TOTAL CUST ACCT EXP	151,493	146,662	173,259	144,304	140,124	171,195	160,141	141,665	172,450	145,845	141,665	167,451	1,856,255
916 ENERGY AUDIT EXP	104,009	99,609	110,876	104,009	99,609	112,114	107,098	100,479	111,964	104,879	100,479	111,972	1,267,996
920 ADMIN & GENERAL SALARIES	64,466	64,091	80,089	64,466	64,081	83,239	65,149	64,774	80,942	65,149	64,774	80,942	842,170
921 1 OFFICE SUPPLIES EXP	25,100	25,100	25,100	25,100	25,100	25,100	25,100	25,100	25,100	25,100	25,100	25,100	301,000
923 OUTSIDE SERVICE EMPLOYED	26,385	43,885	43,885	26,385	26,385	26,385	26,385	26,385	26,385	26,385	26,385	26,415	361,650
924 PROPERTY INSURANCE	37,784	37,784	37,784	37,784	37,784	37,784	37,784	37,784	37,784	37,784	37,784	37,576	453,200
926 INJURIES & DAMAGES	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,041	49,059
926 EMPLOYEES PENSIONS & BENIS	367,408	215,758	215,758	215,908	215,758	215,758	221,258	215,758	215,758	215,958	215,758	215,781	2,746,619
930 MISC GENERAL EXP	34,425	13,701	35,720	39,690	11,196	10,720	34,179	15,140	10,601	17,054	10,400	7,947	240,772
931 RENT EXPENSE	17,667	17,667	17,667	17,667	17,667	17,667	17,667	17,667	17,667	17,667	17,667	17,663	212,900
932 1 MAINT OF GARAGE & STOCKRM	43,048	44,446	44,505	45,148	41,348	65,230	54,548	53,948	42,671	46,848	42,648	43,343	567,531
935 MTN OF GEN PLANT	13,769	14,219	14,219	14,219	14,219	14,219	14,219	14,219	14,219	14,219	14,219	14,221	170,180
TOTAL ADMIN & GEN EXP	739,696	580,299	629,640	694,413	557,194	612,253	607,425	575,292	587,129	574,881	559,252	584,801	7,201,277
GRAND TOTAL	7,703,108	6,673,892	6,285,092	5,601,040	5,811,431	6,967,679	8,508,606	7,486,674	6,367,405	5,471,397	5,762,006	6,653,953	79,282,282
LESS: PURCHASED POWER	(6,382,167)	(5,563,381)	(5,031,657)	(4,431,672)	(4,736,933)	(5,703,786)	(7,293,086)	(6,382,820)	(5,153,469)	(4,316,963)	(4,680,852)	(5,461,881)	(65,138,667)
MAINTENANCE EXPENSES	(295,816)	(258,674)	(279,051)	(298,266)	(250,534)	(305,278)	(308,511)	(260,825)	(274,332)	(297,457)	(245,525)	(278,983)	(3,357,261)
TOTAL OPERATION EXPENSE	1,025,126	851,838	974,384	871,102	823,964	948,614	907,009	843,029	939,604	856,977	831,629	913,079	10,786,355

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READING MUNICIPAL LIGHT DEPARTMENT

2015 BUDGET SUMMARY

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OTHER EXPENSES:

MAINTENANCE EXPENSE:

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
588 MTN OF TRANS. PLANT	250	250	250	250	250	250	250	250	250	250	250	250	3,000
590 MTN OF STRUCTURES	39,414	37,478	43,391	39,414	37,408	44,535	39,712	37,706	43,764	39,712	37,706	43,785	484,026
593 MTN OF LINES - OH	143,801	145,653	159,031	143,801	140,893	163,261	147,146	141,183	159,393	144,091	141,183	163,359	1,792,794
594 MTN OF LINES - UG	10,770	10,898	11,071	10,770	10,758	11,151	10,841	10,760	11,074	10,772	10,760	11,070	130,694
595 MTN OF LINE TRANS.	39,000	0	0	39,000	0	0	39,000	0	0	39,000	0	0	156,000
596 MTN OF ST. LIGHTS	757	821	892	757	751	928	789	753	853	759	753	892	9,745
597 MAINT OF METERS	5,007	4,907	5,693	4,907	4,907	5,705	2,006	2,006	2,067	2,006	2,006	2,073	43,290
932 1 MTN OF GEN PLANT	43,048	44,448	44,505	45,148	41,348	65,230	54,548	53,948	42,671	46,648	42,648	43,343	567,531
935 MTN OF GEN PLANT	13,769	14,219	14,219	14,219	14,219	14,219	14,219	14,219	14,219	14,219	14,219	14,221	170,180
TOTAL MAINTENANCE EXPENSES	295,816	258,674	279,051	298,266	250,534	305,278	308,511	280,825	274,332	287,457	249,525	278,993	3,357,261

DEPRECIATION EXPENSE:

403 DEPRECIATION EXPENSE

324,333	324,333	324,333	324,333	324,333	324,333	324,333	324,333	324,333	324,333	324,333	324,333	324,337	3,892,000
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OTHER TAXES:

408 OTHER TAXES (2% TOWN PAYMENTS)

118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	1,416,000
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INTEREST ON CUSTOMER DEPOSITS:

419-2 INTEREST EXP ON CUST DEP

250	250	250	250	250	250	250	250	250	250	250	250	250	3,000
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