

Company Name: Con Edison
Case Description:
Case: 08-E-0539

Response to City of NY Interrogatories – Set NYC1
Date of Response: 06/10/2008
Responding Witness: Hutcheson

Question No. :13

Is it correct that: a. The current Con Edison approach to recovering negative net salvage from ratepayers over the life of an asset creates a Federal and/or State income tax liability funded by ratepayers for each year of the life of that asset? If so, what is the applicable tax liability for each dollar of negative net salvage reflected in rates over the life of the asset? b. Upon incurring the actual negative net salvage, Con Edison can then deduct that expense and reduce its tax liability in the year the expense was incurred? c. Assuming income tax rates do not vary over time, and aside from the reduction in income taxes in the year the negative net salvage is incurred, ratepayers receive no compensation for funding income taxes payable on negative net salvage accruals. In other words, that the current approach requires ratepayers to make an interest free loan to Federal and/or State tax departments.

Response:

- a. No, it is not correct that the Company's current approach to recovering negative net salvage from ratepayers over the life of an asset creates a Federal and/or State income tax liability that is funded by ratepayers for each year of the life of that asset.

See attachment for an example of the income tax effects of the recovery of negative net salvage. The example assumes a 5-year book and tax recovery period with a 20% negative net salvage recovery factor used for books. Removal of the asset is assumed to occur in year 6.

The example disproves the premise of the question about creating an income tax liability that is funded by ratepayers. It shows that total tax expense computed for cost of service purposes is zero for each of the first four years of the asset's life. A compensating imbalance between tax and book occurs in years 5 and 6 only due to the delay in removing the asset.

- b. Yes, the Company agrees that once the actual amount of negative net salvage is incurred, it can be deducted as shown in the example, thereby reducing the Company's tax liability in the year that the expense is incurred.

- c. No, it is not correct that the Company's approach to net salvage recovery results in ratepayers making an interest free loan to Federal and/or State tax departments. The attachment referred to in (a) above disproves that claim.

**Consolidated Edison Company of New York, Inc.
Example the Flow for Tax Purposes With Negative Salvage**

Asset Basis (dollars)	10,000
Book Life (years)	5
Net Salvage Factor	-20%
Book Depreciation Rate (incl. Net Salvage)	24%

<u>Cost of Service</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Total</u>
Billed Revenues (Net Negative Salvage)	2,400	2,400	2,400	2,400	2,400	2,400	12,000
Adj. To Revenue Requirement for Taxes							
Book Deprec. Exp. (Net Negative Salvage)	2,400	2,400	2,400	2,400	2,400	2,400	12,000

Net Income Before Tax -

Schedule M

Flow Through

Additions

Book Depreciation	2,400	2,400	2,400	2,400	2,400	2,400	12,000
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Deductions:

Negative Salvage						2,000	2,000
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Tax Depreciation - Flow through	2,400	2,400	2,400	2,400	400		10,000
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	2,400	2,400	2,400	2,400	400	2,000	12,000
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Normalized

Deduction:

Tax Depreciation - Normalized	(400)	800	(480)	(1,248)	752	576	-
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Taxable Income	400	(800)	480	1,248	1,248	(2,576)	-
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Combined Federal and State Inc. Tax @ 40.61%	162	(325)	195	507	507	(1,046)	-
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Tax Computation

Current Income Tax @ 40.61%	162	(325)	195	507	507	(1,046)	-
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Deferred Income Tax @ 40.61%	(162)	325	(195)	(507)	305	234	-
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Tax Expense - Cost of Service	-	-	-	-	812	(812)	-
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Rate Base

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
Plant in Service	10,000	10,000	10,000	10,000	10,000	10,000

Less: Accumulated Depreciation Reserve	(2,400)	(4,800)	(7,200)	(9,600)	(12,000)	(10,000)
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Net Plant	7,600	5,200	2,800	400	(2,000)	-
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Accum. Deferrred Tax	162	(163)	32	539	234	-
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Rate Base	7,762	5,037	2,832	939	(1,766)	-
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Tax Depreciation

	<u>MARCS RATES</u>	<u>Tax Basis</u>	<u>Total Tax Deprec.</u>	<u>Flow Thru Deprec.</u>	<u>Normalized Deprec.</u>
Year 1	20.00%	10,000	2,000	2,400	(400)
Year 2	32.00%		3,200	2,400	800
Year 3	19.20%		1,920	2,400	(480)
Year 4	11.52%		1,152	2,400	(1,248)
Year 5	11.52%		1,152	400	752
Year 6	5.76%		576	-	576
	100.00%		10,000	10,000	-

Company Name: Con Edison
Case Description:
Case: 08-E-0539

Response to City of NY Interrogatories – Set NYC3
Date of Response: 08/22/2008
Responding Witness:

Question No. :43Rev

This interrogatory serves as a continuation of the City of New York’s IR-13, which sought information regarding the income tax impacts of the Company’s current method of depreciating negative net salvage over the life of an asset. Accompanying this interrogatory is the original attachment provided by the Company in its response to City IR-13 (hereinafter referred to as “NYC IR 43 Exhibit A” or “Exhibit A”). Also accompanying this interrogatory are two worksheets which are based on the same set of assumptions, and described further below. The first worksheet (hereinafter referred to as “NYC IR 43 Exhibit B” or “Exhibit B”) demonstrates the income tax consequences of utilizing a pay as you go (“PAYGO”) system of recovering negative net salvage (that is, in this example the negative net salvage is booked and recovered from ratepayers in year six). The second worksheet (hereinafter referred to as “NYC IR 43 Exhibit C” or “Exhibit C”) demonstrates the differences between the Company’s current method of depreciating negative net salvage and the PAYGO method. Exhibit C indicates that the current method, when compared to a PAYGO approach, requires ratepayers to make an interest free loan to Federal and/or State income tax departments. As can be seen at Row 36 of Exhibit C, in this example, the interest free loan to the Federal and State Government is approximately \$162 for each year of its five year life. That loan is “repaid” when there is a lower income tax of \$812 in year six that equals the sum of these payments. Further, Exhibit C demonstrates at Row 45 that the Company is funding these tax payments as they occur, and that by deferring the income taxes, it is adding these tax payments to rate base that is supported by ratepayers. Does Con Edison agree that: a. The worksheets accompanying this interrogatory are correct? If the Company disagrees, please set forth the reason(s) for such disagreement, accompanied by relevant data. b. Compared to the PAYGO method, the Company’s current method of depreciating negative net salvage results in a higher Federal/State income tax liability prior to the retirement of that asset? Assuming income tax rates do not vary over time, and aside from the dollar for dollar reduction in income taxes in the year the negative net salvage is incurred, ratepayers receive no compensation for funding income taxes payable on negative net salvage accruals? The higher income tax liability shown in Exhibit C is initially paid for by the Company and included in rate base? e. Please provide any relevant studies or data, in Excel Format with all formulae intact, the Company has prepared that compares the lifetime revenue requirement on a present value and/or nominal basis for either a single asset with an assumed life and negative net salvage or for Electric Plant as a whole, that reflects the income tax impacts on tax payments and rate base.

Response:

The following response is submitted based on the Company's understanding of the questions being asked as they relate to federal and state income tax liabilities. We would also note that the entire line of questions deals with the tax consequences of the Company's accounting for removal costs. All actions have tax consequences, but the more important issue concerns the benefits that the after-tax cash flow provides to the Company and the customer. In addition to representing the proper accounting and matching of benefits and costs, the after-tax cash flow provided by the accrual of removal costs are used to fund our construction expenditures and reduce rate base to the advantage of the customer. Without this accounting, our financing cost would be much higher. In addition to lowering the financing costs, this improves our cash flow and helps maintain our bond rating. The after-tax cash benefits the customer as a reduction to rate base.

- a. Yes, the Company agrees the worksheets are correct as they are all based on Exhibit A, which was originally supplied to demonstrate the income tax impacts of recovering negative net salvage value. Negative net salvage value as shown on Exhibit A is based on the Company's proper net salvage recovery methodology. Please refer to the responses to (c) & (d) below for further clarification.
- b. Yes, the Company agrees that, compared to the PAYGO method, the Company's current method of recovering net salvage results in a higher income tax liability prior to retirement of the asset. This is because the revenue is taxable in the year of receipt whereas negative net salvage recovery is not deductible until the costs are incurred. The Company's proper method of negative net salvage recovery seeks to recover a ratable share of the future retirement costs over the expected life of the asset while it is in service.
- c. Per Mr. Arnett's clarification that he was not trying to imply that ratepayers deserve compensation for paying income tax on accruals of net negative salvage but only trying to confirm that, with the caveats given in the question, there is no compensation, the Company confirms that there is no compensation. Please refer to the response to (d) below for further information.
- d. As indicated in the Company's original response, the Company agrees that the higher income tax liability, also shown in Exhibit C, is initially paid for by the Company and included in rate base. Ratepayers are not funding the income taxes on negative net salvage because the tax expense as shown on NYC #43 – Exhibit A line 42 is zero with the exception of years five and six.
- e. The Company has not prepared any such studies.

**Consolidated Edison Company of New York, Inc.
Example the Flow for Tax Purposes With Negative Salvage
Company Provided Worksheet to NYC IR 1-13**

Asset Basis (dollars)	10,000
Book Life (years)	5
Net Salvage Factor	-20%
Book Depreciation Rate (incl. Net Salvage)	24%

Cost of Service	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Billed Revenues (Net Negative Salvage)	2,400	2,400	2,400	2,400	2,400		12,000
Adj. To Revenue Requirement for Taxes							
Book Deprec. Exp. (Net Negative Salvage)	2,400	2,400	2,400	2,400	2,400		12,000

Net Income Before Tax	-	-	-	-	-	-	-
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**Schedule M
Flow Through**

Additions	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Book Depreciation	2,400	2,400	2,400	2,400	2,400		12,000

Deductions:

Negative Salvage						2,000	2,000
Tax Depreciation - Flow through	2,400	2,400	2,400	2,400	400		10,000
	2,400	2,400	2,400	2,400	400	2,000	12,000

Normalized

Deduction:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Tax Depreciation - Normalized	(400)	800	(480)	(1,248)	752	576	-

Taxable Income	400	(800)	480	1,248	1,248	(2,576)	-
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Combined Federal and State Inc. Tax @ 40.61%	162	(325)	195	507	507	(1,046)	-
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Tax Computation

Current Income Tax @ 40.61%	162	(325)	195	507	507	(1,046)	-
Deferred Income Tax @ 40.61%	(162)	325	(195)	(507)	305	234	-
Tax Expense - Cost of Service	-	-	-	-	812	(812)	-

Rate Base

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plant in Service	10,000	10,000	10,000	10,000	10,000	10,000
Less: Accumulated Depreciation Reserve	(2,400)	(4,800)	(7,200)	(9,600)	(12,000)	(10,000)
Net Plant	7,600	5,200	2,800	400	(2,000)	-
Accum. Deferrred Tax	162	(162)	32	539	234	-
Rate Base	7,762	5,038	2,832	939	(1,766)	-

Tax Depreciation

	MARCS RATES	Tax Basis	Total Tax Deprec.	Flow Thru Deprec.	Normalized Deprec.
Year 1	20.00%	10,000	2,000	2,400	(400)
Year 2	32.00%		3,200	2,400	800
Year 3	19.20%		1,920	2,400	(480)
Year 4	11.52%		1,152	2,400	(1,248)
Year 5	11.52%		1,152	400	752
Year 6	5.76%		576	-	576
	100.00%		10,000	10,000	-

Consolidated Edison Company of New York, Inc.
Example the Flow for Tax Purposes With Negative Salvage
PAYGO Case Salvage Billed in Year Six

Asset Basis (dollars)	10,000	
Book Life (years)	5	
Net Salvage Factor	0%	20% Billed in year 6
Book Depreciation Rate (incl. Net Salvage)	20%	

Cost of Service	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Billed Revenues (Net Negative Salvage)	2,000	2,000	2,000	2,000	2,000	2,000	12,000
Adj. To Revenue Requirement for Taxes							
Book Deprec. Exp. (Net Negative Salvage)	2,000	2,000	2,000	2,000	2,000	2,000	12,000

Net Income Before Tax	-	-	-	-	-	-	-
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Schedule M
Flow Through

Additions	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Book Depreciation	2,000	2,000	2,000	2,000	2,000	2,000	12,000
Deductions:							
Negative Salvage						2,000	2,000
Tax Depreciation - Flow through	2,000	2,000	2,000	2,000	2,000	2,000	10,000
	2,000	2,000	2,000	2,000	2,000	2,000	12,000

Normalized

Deduction:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Tax Depreciation - Normalized	-	1,200	(80)	(848)	(848)	576	-
Taxable Income	-	(1,200)	80	848	848	(576)	-
Combined Federal and State Inc. Tax @ 40.61%	-	(487)	32	344	344	(234)	-

Tax Computation

Current Income Tax @ 40.61%	-	(487)	32	344	344	(234)	-
Deferred Income Tax @ 40.61%	-	487	(32)	(344)	(344)	234	-
Tax Expense - Cost of Service	-	-	-	-	-	-	-

Rate Base

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plant in Service	10,000	10,000	10,000	10,000	10,000	10,000
Less: Accumulated Depreciation Reserve	(2,000)	(4,000)	(6,000)	(8,000)	(10,000)	(10,000)
Net Plant	8,000	6,000	4,000	2,000	-	-
Accum. Deferred Tax	-	(487)	(455)	(110)	234	-
Rate Base	8,000	5,513	3,545	1,890	234	-

Tax Depreciation

	MARCS RATES	Tax Basis	Total Tax Deprec.	Flow Thru Deprec.	Normalized Deprec.
Year 1	20.00%	10,000	2,000	2,000	-
Year 2	32.00%		3,200	2,000	1,200
Year 3	19.20%		1,920	2,000	(80)
Year 4	11.52%		1,152	2,000	(848)
Year 5	11.52%		1,152	2,000	(848)
Year 6	5.76%		576	-	576
	100.00%		10,000	10,000	-

**Consolidated Edison Company of New York, Inc.
Example the Flow for Tax Purposes With Negative Salvage
Differences PAYGO less Original 1-13 Worksheet**

Asset Basis (dollars)	10,000
Book Life (years)	5
Net Salvage Factor	-20%
Book Depreciation Rate (incl. Net Salvage)	24%

<u>Cost of Service</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Total</u>
Billed Revenues (Net Negative Salvage)	(400)	(400)	(400)	(400)	(400)	2,000	-
Adj. To Revenue Requirement for Taxes							
Book Deprec. Exp. (Net Negative Salvage)	(400)	(400)	(400)	(400)	(400)	2,000	-
Net Income Before Tax	-	-	-	-	-	-	-
<u>Schedule M</u>							
<u>Flow Through</u>							
<u>Additions</u>							
Book Depreciation	(400)	(400)	(400)	(400)	(400)	2,000	-
<u>Deductions:</u>							
Negative Salvage						-	-
Tax Depreciation - Flow through	(400)	(400)	(400)	(400)	1,600	-	-
	(400)	(400)	(400)	(400)	1,600	-	-
<u>Normalized</u>							
<u>Deduction:</u>							
Tax Depreciation - Normalized	400	400	400	400	(1,600)	-	-
Taxable Income	(400)	(400)	(400)	(400)	(400)	2,000	-
Combined Federal and State Inc. Tax @ 40.61%	(162)	(162)	(162)	(162)	(162)	812	-

<u>Tax Computation</u>							
Current Income Tax @ 40.61%	(162)	(162)	(162)	(162)	(162)	812	-
Deferred Income Tax @ 40.61%	162	162	162	162	(650)	-	-
Tax Expense - Cost of Service	-	-	-	-	(812)	812	-

<u>Rate Base</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
Plant in Service	-	-	-	-	-	-
Less: Accumulated Depreciation Reserve	400	800	1,200	1,600	2,000	-
Net Plant	400	800	1,200	1,600	2,000	-
Accum. Deferrred Tax	(162)	(325)	(487)	(650)	-	-
Rate Base	238	475	713	950	2,000	-

<u>Tax Depreciation</u>	<u>MARCS RATES</u>	<u>Tax Basis</u>	<u>Total Tax Deprec.</u>	<u>Flow Thru Deprec.</u>	<u>Normalized Deprec.</u>
Year 1	20.00%	-	-	(400)	400
Year 2	32.00%	-	-	(400)	400
Year 3	19.20%	-	-	(400)	400
Year 4	11.52%	-	-	(400)	400
Year 5	11.52%	-	-	1,600	(1,600)
Year 6	5.76%	-	-	-	-
	<u>100.00%</u>	-	-	-	-

Company Name: Con Edison
Case Description:
Case: 08-E-0539

Response to DPS Interrogatories – Set DPS5
Date of Response: 06/05/2008
Responding Witness:

Question No. :50

Subject: Priority of O&M and Capital Projects Exhibits - 1. Provide electronic copies of IIP-2 through IIP-7, and IIP-9 in Excel spreadsheet format with all formulas and cells unlocked. Also, include in these electronic copies, to the left of each project description, the priority ranking of each. 2. Provide company policies, procedures, directives, and manuals that explain the metrics, weightings and methodologies the company uses in prioritizing its capital and O&M projects.

Response:

1. See the attached files which reflect each exhibit (O&M and Capital) with prioritizations. Also DPS 25 provides an overall description of the prioritization process.
2. The attached policies and procedures are utilized for project inclusion in the budget process: Electric Operation Procedure (5-3-14/Customer Service Procedure) which was revised effective June 2008; Corporate Instruction 610-1; Project Prioritization Definitions; Central Operations Procedure (10-0-5); Engineering Service Request Process; and the Prioritization, which explains that process for distribution.



**CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
4 IRVING PLACE
NEW YORK, NY 10003**

**DISTRIBUTION ENGINEERING
PERFORMANCE OPERATIONAL ENGINEERING SECTION**

**SPECIFICATION EOP - 5314
REVISION 4
JUNE, 2008**

**EFFECTIVE DATE
JUNE 1, 2008**

**ELECTRIC OPERATIONS--ENGINEERING AND DESIGN:
ED-1 BUDGET PRIORITIZATION**

**FILE: ELECTRIC OPERATIONS GUIDELINES
MANUAL NO. 9**

TARGET AUDIENCE	DISTRIBUTION ENGINEERING REGIONAL ENGINEERING
NESC REFERENCE	ALL SECTIONS

TABLE OF CONTENTS

1.0	PURPOSE	3
2.0	POLICY	3
3.0	DEFINITIONS	3
4.0	FUNDING PRIORITIZATION	4
5.0	AUTHOR	6
6.0	PROCEDURAL RESPONSIBILITY	6
8.0	EXHIBITS	7
	EXHIBIT A	8
	EXHIBIT B	9
	EXHIBIT C	10

Specification	Revision	Rev Date	Effective Date	Copyright Information	Page
EOP - 5314	4	03/27/2008	6/1/2008	1987-2008 Consolidated Edison Co. of New York, Inc.	2/10
Filing Information		Electric Operations Guidelines		Manual No. 9	

Paper copies of procedures and instructions are uncontrolled and therefore may be outdated. Please consult Distribution Engineering Intranet Site [Distribution Engineering](#) or <http://distribution>, for the current version prior to use.

1.0 PURPOSE

To achieve the company's distribution system improvement program objectives, assign responsibility for prioritizing ED-1 projects and specify the annual work prioritization process.

2.0 POLICY

Distribution system capital projects will be prioritized based on the annual ED-1 budgeted funds on a system-wide basis. ED-1 Program funding based upon approved rate case amounts shall be completed to meet the commitments of the rate case. System reinforcement projects will be prioritized based on the greatest impact on system performance improvement that can be obtained for the funds expended.

3.0 ED-1 BUDGET CATEGORIES

ED-1 budget includes the following business categories based upon the company's mission and the strategic business plan that support this mission. The annual and the five year budget process provide the funding required achieving this mission. The ED – 1 business activities are:

- Public and Employee safety programs
- Customer demand and Emergency response
- Regulatory and Environmental excellence programs
- System reliability programs
- Strategic IT initiatives

4.0 DEFINITIONS

3.1 Funding. Monies budgeted for specific projects or programs.

3.2 Overload. Load condition that is most likely to result in system component failure.

3.3 Undervoltage. Voltage condition threshold that will render customer equipment inoperable.

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EOP - 5314	4	03/27/2008	6/1/2008	1987-2008 Consolidated Edison Co. of New York, Inc.	3/10
Filing Information		Electric Operations Guidelines	Manual No. 9		

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4.0 FUNDING PRIORITIZATION

4.1 Priority Levels. The Chief Distribution Engineer (CDE) will review proposed programs/projects to determine prioritization for funding projects in the ED-1 capital budget. Funding shall be determined based on meeting program objectives, risk assessment and availability of human resources.

The ED-1 budget priorities shall be as follows:

4.1.1 PRIORITY 1: Public and Employee Safety Programs

Public and Employee safety programs developed to mitigate public and employee safety risks, such as: Vented Manhole Cover replacement, Transformer failure mitigation and Overhead Pole Inspection (Osmose Pole treatment) programs.

4.1.2 PRIORITY 2: Customer Demand and Emergency Response

These include system reinforcement and new equipment installed to meet forecasted system electric load growth and customer expectations including emergency response. Area substation load relief projects and Primary feeder relief shall be within this priority. Exhibit A provides further guidance on prioritizing the various programs within this business category.

4.1.3 PRIORITY 3: Regulatory / Environmental Excellence Programs

Public improvement projects requiring relocation of company facilities and environmental programs, such as Oil Minder equipment installation and other such programs.

4.1.4 PRIORITY 4: System Reliability

This category includes all programs that are identified for distribution system reliability improvements such as Paper Cable removal, 4kV unit substation reliability, annual Hi-pot program, the ten-year network and non-network system improvement plans etc.

4.1.5 PRIORITY 5: Strategic Information Technology Initiatives

Includes those projects that enhance efficiency and process improvements through use of technology in electric operations such as Mobile dispatch system, Electric distribution Information

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systems, work management systems, Outage management system etc.

4.2 Process. The annual and five year funding allocation process shall strive to meet the program objectives of each individual program and allocate available funds in the priority order discussed above. In order to maximize the benefits of available funds and resources, the annual feeder and transformer relief shall be priorities based on highest to lowest overloads and associated individual risk evaluation of each component. It is permissible to defer low level minor impact overloads if total funding will be exceeded in a given year. Table II provides further guidance on prioritizing of load relief projects.

Programs that have been adequately funded must be completed to meet the targeted units.

4.3 ED-1 Budgeting. Each region shall prepare their five-year request for capital funding of system reinforcement projects, by the date established for the annual budget process and submit them electronically to Cable, Network and Equipment sections of the Distribution Engineering (DE) department for their review using the shared database established by Planning & Analysis for that purpose.

For load relief projects each region shall provide a list indicating the magnitude of the overload or undervoltage, estimated cost, percent loading compared to current component rating and expected improvement after relief is completed.

For reliability programs and projects, each region shall provide a description of each project or program indicating the cost and expected improvement in system performance. Networks with the lowest reliability index should receive priority in funding the project. Non-network programs or projects will be prioritized based on maximum system performance impact for the dollars to be expended. Each reliability project submittal the following information shall be provided:

- Description of the project
- Type of improved impact to the system
- Magnitude of the expected improvement
- Number of units associated with each program
- Estimated cost

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EOP - 5314	4	03/27/2008	6/1/2008	1987-2008 Consolidated Edison Co. of New York, Inc.	5/10
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Reliability projects shall be identified with one of the reliability programs listed in Table III. Programs may be added to or deleted from the list as required.

A five year system reinforcement request shall be submitted to Cable, Network and Equipment sections of DE via the C-39 form which lists the five year request of programs and projects. Funding and units shall be shown for each program and/or project listed.

The Cable, Network and Equipment sections of DE will review the submission and provide initial priority recommendations for system reinforcement projects. The review will focus on ensuring the submittal is aligned with meeting program objectives and any company obligations, optimization of system performance enhancement within the funding request and recommending alternatives. The focus of the analysis will be on the following:

- Impact on SAIFI
- Impact on CAIDI
- Impact on "network reliability index"
- Impact on customer satisfaction
- Cost benefit analysis

The Cable, Network and Equipment sections of DE will meet with the regional General Managers and regional Engineering Managers to discuss the program, alternatives and priorities for the reliability projects, and develop consensus regarding order of priorities for reliability projects.

5.0 AUTHOR

Section Manager, Performance and Operational Engineering, Distribution Engineering, is the author of this procedure.

6.0 PROCEDURAL RESPONSIBILITY

The Chief Engineer, Distribution Engineering, has responsibility for this procedure.

Specification	Revision	Rev Date	Effective Date	Copyright Information	Page
EOP - 5314	4	03/27/2008	6/1/2008	1987-2008 Consolidated Edison Co. of New York, Inc.	6/10
Filing Information		Electric Operations Guidelines	Manual No. 9		

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7.0 EXHIBITS

EXHIBIT B System Reinforcement Relief Guidelines

EXHIBIT C System Reinforcement Programs

Jyotin N. Thaker (Signature on File)

Jyotin N. Thaker
Chief Distribution Engineer,
Distribution Engineering Department

Author: Maria Rodriguez

REVISION 1: Rescind CSP 5-3-14 and rename to EOP-5314.	FILE: Electric Operation Guidelines Manual No. 9
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Specification	Revision	Rev Date	Effective Date	Copyright Information	Page
EOP - 5314	4	03/27/2008	6/1/2008	1987-2008 Consolidated Edison Co. of New York, Inc.	7/10
Filing Information		Electric Operations Guidelines	Manual No. 9		

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EXHIBIT A

**CUSTOMER DEMAND AND EMERGENCY RESPONSE RELIEF GUIDELINES
Funding Priority 2**

PRIORITY NUMBER	DESCRIPTION	RELIEF CRITERIA
1.	Area substation overload	Normal load > normal rating and/or Emergency load > emergency rating.
2.	Primary network feeder	Normal load > 100% Normal Rating, 1st contingency and 2nd contingency > 105% emergency rating.
3.	4kv substation overload	Normal >100% and/or emergency ≥ 115%
4.	Primary non-network feeder overload 13kv and above	Normal > 105% 1st contingency: ≥ 115% of emergency rating
5.	Secondary network transformer/mains overload	>100% of normal rating ≥ 115% of 1st or 2nd contingency rating depending on design
6.	4kv feeder overload	>100% of normal rating emergency ≥ 130% of emergency rating for Underground and Overhead
7.	Primary non-network feeder overload 13kv and above	1st contingency cable on main run of feeder >105% & <115% of emergency rating. Other cable and open wire >105% & < 115% of emergency rating.

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EXHIBIT B (Cont.)

SYSTEM REINFORCEMENT RELIEF PRIORITIES

PRIORITY NUMBER	DESCRIPTION	RELIEF CRITERIA
8.	Primary network feeder overload	1st cont.: >100% & <105% 2nd cont.: >100% & <105% of emergency rating
9.	4kv feeder overload	≥ 120% & <130% for Overhead ≥ 110% & <130% for UG cable of emergency rating
10.	All other 4kv substations	>100% & <115% of emergency rating
11.	Secondary network transformer/mains overload	≥ 110% & <115% of 1st or 2nd contingency rating depending on design
12.	Primary non-network feeder overload 13kv and above	1st contingency: >100% & <105% of emergency rating
13.	Secondary network transformer/mains overload	>100% & <110% of 1st or 2nd contingency rating depending on Design
14.	4kv feeder overload	>100% & <120% Overhead >100% & < 110% UG Cable of emergency rating

Specification	Revision	Rev Date	Effective Date	Copyright Information	Page
EOP - 5314	4	03/27/2008	6/1/2008	1987-2008 Consolidated Edison Co. of New York, Inc.	9/10
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EXHIBIT C

SYSTEM REINFORCEMENT PROGRAMS

RELIEF

Area Substations
Primary Feeders
4kv Substations
4kv Feeders
Transformers & Secondary
<\$100K Load Relief
27kV and 33kV Shunt Reactors

RELIABILITY

Paper Cable Replacement (including targeted stop joints)
Galleries Retirement
Remote Monitoring NWP
#4 #6 Wire & 4kv S.S. Cable
Multibank Retirement
Obsolete Network Protectors
Special Projects
Simplification
Isolation Devices (SF-6 Switches)
Five Year Inspection Program
4kv Obsolescence & Substation Retirement
Defective Aerial Cable
Jumbo Transformers
Hi-Pot Program (Spring Program and After O/A)
General Improvements
Vented Manhole Cover Program
Oil Minders
Grounding Transformers
VRS Replacement / Automation
Auto Loop Reliability
4KV Sectionalizing (ECSO & Anderson Switch Replacement)
Osmose Pole Treatment
Defective DBC Replacement
Tempo Relay Replacement
4KV Reliability
Facilities Relocation
Grounding
27kV and 33kV Shunt Reactors
<\$100K Reliability

Specification	Revision	Rev Date	Effective Date	Copyright Information	Page
EOP - 5314	4	03/27/2008	6/1/2008	1987-2008 Consolidated Edison Co. of New York, Inc.	10/10
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**CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
SUBSTATION OPERATIONS CAPITAL PROJECTS**

Priority	DESCRIPTION	<u>\$000s</u>			
		RATE CASE SUBMISSION			
		2009	2010	2011	3 YEAR TOTAL
	SUPPORT ECONOMIC GROWTH	\$ 317,000	\$ 263,000	\$ 127,000	\$ 707,000
B1	Astor-Establish New Area Substation	6,000	-	-	6,000
B2	York-Establish New Area Substation	137,000	106,000	4,000	247,000
B5	Transformer Cooling Program	1,000	-	1,000	2,000
B4	Woodrow-Install Third Transformer And Fresh Kills Expand 138kV Station	22,000	6,000	-	28,000
B3	Newtown-Establish Station	72,000	56,000	4,000	132,000
B13	Westside-Establish New Transmission Station	-	-	100,000	100,000
B14	Emergent Load Relief Program	3,000	3,000	3,000	9,000
B12	Hudson Yards-Establish New Substation	30,000	30,000	-	60,000
B11	Gateway-Establish New Area Substation	7,000	-	-	7,000
B9	Corona-Install Transformer No. 10	10,000	13,000	-	23,000
B10	Corona-Replace Transformer No. 7	-	-	5,000	5,000
B8	Millwood W-Replace Limiting 13kV Bus	-	1,000	1,000	2,000
B7	Parkchester-Install 4th Transformer	3,000	12,000	5,000	20,000
B6	Parkchester-Install 3rd Cap Bank	1,000	1,000	-	2,000
	<u>GENERATION INTERCONNECTION</u>				
C1	Astoria East-Install Phase Angle Regulator	14,000	20,000	2,000	36,000
C2	Corona-Install Series Reactor	11,000	15,000	2,000	28,000
	Sub-Total	\$ 317,000	\$ 263,000	\$ 127,000	\$ 707,000
					\$ -
	SYSTEM AND COMPONENT PERFORMANCE	\$ 199,615	\$ 194,085	\$ 165,435	\$ 559,135
	EQUIPMENT				
5	Elmsford-Install New Substation (need 138kV Bus Revamp)	37,000	36,000	8,000	81,000
6	Corona - Install Additional 138kV Breakers	-	5,000	-	5,000
33	Condition Based Monitoring Equipment	250	250	250	750
7	Obsolete 138kV Circuit Breaker Program	11,700	11,700	11,700	35,100
25	Obsolete Circuit Switcher Replacement	500	500	500	1,500
8	Replace 345kV Circuit Breaker Other Than ATB	8,000	8,000	8,000	24,000
12	Replace Disconnect Switches	4,600	4,600	4,800	14,000
9	Replace Obsolete Transformers	13,000	21,000	21,000	55,000
1	Replace Overdutied 13/27kV Circuit Breaker Programs	10,800	10,800	10,800	32,400
A1	Failed Transformer Program	33,960	22,285	20,285	76,530
A3	Rainey-Replace Temp Transformer With Permanent	4,000	-	-	4,000

**CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
SUBSTATION OPERATIONS CAPITAL PROJECTS**

Priority	DESCRIPTION	<u>\$000s</u>			
		RATE CASE SUBMISSION			
		2009	2010	2011	3 YEAR TOTAL
A2	Failed Equipment Other Than Transformers	1,500	1,500	1,500	4,500
	Sub-Total	\$ 125,310	\$ 121,635	\$ 86,835	\$ 333,780
	RELAY				
22	Control Cable Upgrade Program	1,000	1,000	1,000	3,000
14	Relay Modifications	5,500	5,500	5,500	16,500
10	Upgrade Analog Circuits To Digital Fiber	2,000	2,000	1,800	5,800
	Sub-Total	\$ 8,500	\$ 8,500	\$ 8,300	\$ 25,300
	MISCELLANEOUS COMPONENTS				
35	Additional G&T Devices	1,000	1,000	1,000	3,000
3	Area Substation Reliability And Auto Ground Circuit Switchers	10,500	10,500	10,500	31,500
18	Battery & Rectifier Replacement	3,500	3,500	3,500	10,500
20	Capacitor Cable Upgrade Program	3,000	3,000	3,000	9,000
15	Category Alarms	2,250	2,250	3,900	8,400
37	Construct Relay Enclosure Houses	1,500	1,500	1,500	4,500
29	Corona Settlement	1,000	1,000	-	2,000
36	Diesels / Blackstart Restoration (Phase 2) - Upgrade Station L & P	1,200	1,000	1,000	3,200
44	East River Complex - Install Wall	2,500	2,500	-	5,000
28	Various-Facility Upgrade	8,000	8,000	8,000	24,000
17	Fire Pump Test Header Installation	500	500	500	1,500
2	High Voltage Test Sets	5,000	2,000	2,000	9,000
42	New Maximo Upgrade	400	-	-	400
41	Rapid Restore Enhancements- Mapping/Modeling System	200	200	200	600
19	Reinforced Ground Grid	500	500	500	1,500
21	Revenue Metering Upgrade	500	500	500	1,500
23	Roof Replacement Program	3,000	3,000	2,100	8,100
27	Small Capital Equipment Program	4,000	4,000	4,000	12,000
4	SOCCS - RTU Replacement	3,000	3,000	-	6,000
34	Substation Automation Target Information System	2,000	2,000	2,000	6,000
13	East River-Protection System Upgrade	3,500	3,500	3,100	10,100
32	Buchanan-Substation Continuance	-	-	10,000	10,000
31	E179th Street-Substation Continuance	-	2,500	5,000	7,500
30	E 63rd Street-Substation Continuance	5,000	5,000	5,000	15,000
39	White Plains-Substation Continuance	550	-	-	550

**CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
SUBSTATION OPERATIONS CAPITAL PROJECTS**

Priority	DESCRIPTION	<u>\$000s</u>			
		RATE CASE SUBMISSION			
		2009	2010	2011	3 YEAR TOTAL
40	Substation Loss Contingency	2,000	2,000	2,000	6,000
38	Switchgear Enclosure Upgrade Program	500	500	500	1,500
43	Technology Improvements	705	500	500	1,705
	Sub-Total	\$ 65,805	\$ 63,950	\$ 70,300	\$ 200,055
					-
	PUBLIC SAFETY AND ENVIRONMENTAL	\$ 15,000	\$ 15,000	\$ 15,000	\$ 45,000
16	Environmental Risk Mitigation	3,500	3,500	3,500	10,500
11	Pumping Plant Improvement	8,500	8,500	8,500	25,500
24	PURS Supervisory Control & Data Acquisition	3,000	3,000	3,000	9,000
	Sub-Total	\$ 15,000	\$ 15,000	\$ 15,000	\$ 45,000
					-
	SECURITY	\$ 4,100	\$ 4,000	\$ 4,000	\$ 12,100
26	Security Enhancements	4,100	4,000	4,000	12,100
	Sub-Total	\$ 4,100	\$ 4,000	\$ 4,000	\$ 12,100
					-
	TOTAL SUBSTATION OPERATIONS	535,715	476,085	311,435	1,323,235

**CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
SUBSTATION OPERATIONS O&M PROGRAMS**

	\$000s					
Program Description	Category	Priority	2007 Historical Spending for Rate Case Request	Requested Amount Approved in 2008 Rate Case	Program Changes 2010	Forecast RYE 2010
Flame Retardant Clothing	Public Safety / Environmental	1	113	355	228	341
SSO Staffing - New Facilities	Economic Growth	2	315	4,701	4,897	5,212
SF6 Gas Emissions Reduction Program	Public Safety / Environmental	3	76	200	124	200
Bus Enclosure	System Component Performance	4	550	New	498	1,048
Dynamic Feeder Rating System	System Component Performance	5	85	165	130	215
Operator Staffing Augmentation for Existing Facilities	System Component Performance	6	-	1,648	1,760	1,760
Telecommunications (Digital Fiber Optics/ System Expansion)	Technology System	7	751	480	216	967
Field Operation Trainers	System Component Performance	8	-	153	154	154
Structural Integrity / Station Betterment	System Component Performance	9	-	2,000	2,475	2,475
Corrective Maintenance Normalization	System Component Performance	10	-	New	1,400	1,400
Advanced Control Systems Group	Technology	11	-	792	830	830
Total of Programs Listed Above for Substation Operations	Total		\$1,890	\$10,494	\$12,712	\$14,602

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
SYSTEM AND TRANSMISSION OPERATIONS CAPITAL PROJECTS
TRANSMISSION OPERATIONS CAPITAL PROJECTS / PROGRAMS

Priority	DESCRIPTION	\$000s			
		Rate Case Submission			
		2009	2010	2011	3 Year Total
	SUPPORT ECONOMIC GROWTH	\$ 21,144	\$ 23,000	\$ 1,000	\$ 45,144
B2	Vernon - W49th St-38M72 Upgrade	20,144	22,000	-	42,144
B1	Dynamic Feeder Rating	1,000	1,000	1,000	3,000
	Sub-Total	\$ 21,144	\$ 23,000	\$ 1,000	\$ 45,144
	SYSTEM AND COMPONENT PERFORMANCE	\$ 184,300	\$ 140,300	\$ 87,600	\$ 412,200
2	179th St-Reinforcement - M29 (Includes Academy)	130,000	75,000	15,000	220,000
3	Sprain Brook - W 49th St-Feeder M51	6,700	6,700	-	13,400
4	Cable System Enhancement - Pothead Alarms	500	500	500	1,500
5	Replace 69M43/69M44 With 38M53 & 38M54	3,000	-	-	3,000
6	Reinforce Hudson River Crossing Towers	3,000	2,400	1,800	7,200
9	Replacement of Feeders 18001 & 18002	21,000	30,000	20,000	71,000
10	Emergent Transmission Reliability	10,000	10,000	10,000	30,000
8	Replace Feeder 69M41 & 69M45	-	-	6,000	6,000
12	Re-Conductor Dunwoodie – Sprain Brook Transmission Corridor	1,500	4,000	4,000	9,500
16	Manhattan-Replace 69kV Feeders On QBB	-	3,000	14,000	17,000
17	Feeder 34182/4	-	-	5,000	5,000
15	Staten Island-Feeders 38R51 And 38R52	-	-	4,000	4,000
A1	Transmission Feeder Failures	5,000	5,000	5,000	15,000
11	Upgrade Overhead 345kV Transmission Structures	2,100	2,200	2,300	6,600
18	Staten Island-M-Line Tower Relocation	1,500	1,500	-	3,000
	Sub-Total	\$ 184,300	\$ 140,300	\$ 87,600	\$ 412,200
	PUBLIC SAFETY AND ENVIRONMENTAL	\$ 1,750	\$ 1,750	\$ 1,750	\$ 5,250
A2	DEC Program Line	1,750	-	-	1,750
A3	Environmental Enhancements	-	1,750	1,750	3,500
	Sub-Total	\$ 1,750	\$ 1,750	\$ 1,750	\$ 5,250
	TOTAL TRANSMISSION OPERATIONS	\$ 207,194	\$ 165,050	\$ 90,350	\$ 462,594

**CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
SYSTEM AND TRANSMISSION OPERATIONS CAPITAL PROJECTS
SYSTEM OPERATION CAPITAL PROGRAMS**

2009		(\$000s) Rate Case Submission			
Priority	DESCRIPTION	2009	2010	2011	3 Year Total
	ADVANCED TECHNOLOGY	\$ 10,150	\$ 8,700	\$ 2,750	\$ 21,600
1	Energy Management Systems	2,000	-	-	2,000
13	Work Management Systems	3,250	3,250	300	6,800
20	EMS Continuance	-	500	1,000	1,500
7	Operation Requirements (On-Line Systems)	3,400	2,650	500	6,550
14	District Operations Improvement	1,000	1,800	950	3,750
21	Bulk Power Improvements	500	500	-	1,000
	Sub-Total	\$ 10,150	\$ 8,700	\$ 2,750	\$ 21,600
					-
	OTHER	\$ 6,650	\$ 1,050	\$ 500	\$ 8,200
19	Facilities / Utilities Improvements	6,650	1,050	500	8,200
		\$ 6,650	\$ 1,050	\$ 500	\$ 8,200
					0
	TOTAL SYSTEM OPERATION	\$ 16,800	\$ 9,750	\$ 3,250	\$ 29,800

**CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
SYSTEM & TRANSMISSION OPERATIONS O&M PROGRAMS**

		\$000s			
		2007 HISTORY - RYE 2010			
Rate Case Rank	Title	2007 Historical Spending per Rate Case Request	Requested Amount Approved in 2008 Rate Case	Program Changes 2010	Forecast RYE 2010
	SUPPORT ECONOMIC GROWTH	\$ -	\$ 100	\$ 100	\$ 100
10	Sequencing and Scheduling - Add 3rd District Operator (DO)	-	100	100	100
	Sub-Total	\$ -	\$ 100	\$ 100	\$ 100
	SYSTEM AND COMPONENT PERFORMANCE	\$ 7,851	\$ 3,516	\$ 7,470	\$ 15,321
16	Coating Refurbishment	473	New	1,027	1,500
7	Conductor Repairs	230	450	220	450
11	ECC facility maintenance costs	2,068	2,100	82	2,150
13	ECC Trainer / Compliance Monitor Position	-	New	125	125
1	Feeder Emergencies	4,808	New	3,018	7,826
21	Install Bird Discouragers on Selected Portions of P & F Line	-	270	270	270
12	Normalized Human Resources	-	New	2,322	2,322
8	Overhead Line Inspections	145	278	133	278
18	Tower Painting	-	140	140	140
19	Transmission Planning Studies	21	118	79	100
4	Transmission reliability - industry group fees	106	160	54	160
	Sub-Total	7,851	3,516	7,470	15,321
	PUBLIC SAFETY AND ENVIRONMENTAL	\$ 453	\$ 1,550	\$ 1,097	\$ 1,550
9	Manhole Inspections	453	950	497	950
17	PFT Patrols	-	600	600	600
	Sub-Total	453	1,550	1,097	1,550
	IMPROVE STORM RESPONSE	\$ -	\$ 700	\$ 700	\$ 700
20	Improve Overhead Transmission Restoration Capability	-	700	700	700
	Sub-Total	\$ -	\$ 700	\$ 700	\$ 700
	ADVANCED TECHNOLOGY	\$ 4,750	\$ 6,350	\$ 1,605	\$ 6,355
6	AECC equipment support and maintenance	102	400	298	400
3	Communications Infrastructure	4,557	5,100	543	5,100
14	NERC and EMS Training	91	150	64	155
5	New EMS system license maintenance	-	700	700	700
	Sub-Total	\$ 4,750	\$ 6,350	\$ 1,605	\$ 6,355
	PROCESS IMPROVEMENT	\$ -	\$ 625	\$ 625	\$ 625
2	1 Additional HR for NYISO functions	-	100	100	100
23	Conductor Cart Training	-	75	75	75
25	Live Line Maintenance Procedures	-	175	175	175
22	Training Specialist for TLM Training Programs	-	125	125	125
24	Update Plan and Profile Drawings	-	50	50	50
	ENHANCED CUSTOMER SERVICE				
15	Training for Emergency CIG	-	100	100	100
	Sub-Total	\$ -	\$ 625	\$ 625	\$ 625
	Total of Programs Listed Above for System & Transmission Operations	\$13,054	\$ 12,841	\$11,597	\$24,651

Exhibit HA-8, Schedule 7, IIP 6 & 7

Title	\$000s					
	Rate Case Submission					
	Priority	Forecast RYE 2009	Forecast RYE 2010	Forecast RYE 2011	Forecast RYE 2012	Forecast RYE 2013
Support Economic Growth		\$1,111	\$3,105	\$4,025	\$5,129	\$5,129
Customer Focused Service Ruling Program	High 11	\$244	\$226	\$226	\$226	\$226
SMART Electric Technologies - new program	High 16	\$592	\$592	\$592	\$592	\$592
500 MW DSM Monitoring & Verification	High 17	\$0	\$292	\$384	\$476	\$476
500 MW DSM Market Research Support	High 18	\$0	\$400	\$400	\$400	\$400
500 MW DSM Program Administration	High 19	\$0	\$920	\$1,748	\$2,760	\$2,760
500 MW DSM Training	High 20	\$0	\$200	\$200	\$200	\$200
500 MW DSM Website Development	High 21	\$0	\$200	\$200	\$200	\$200
Commerical Service Representative Automation	Medium 2	\$275	\$275	\$275	\$275	\$275
System and Component Performance		\$3,225	\$13,106	\$13,706	\$13,466	13,466
Unit Substation repairs and inspection	Medium 7	\$2,325	\$1,097	\$1,097	\$1,097	\$1,097
Automatic Transfer Switch Operator Replacement	Low 2	\$900	\$900	\$900	\$160	\$160
RMS Response Group	Medium 12	\$0	\$1,820	\$1,820	\$1,820	\$1,820
Electrical Engineering Support - Man	Medium 13	\$0	\$4,740	\$4,840	\$4,840	\$4,840
O&M Vault Repairs - Man	High 10	\$0	\$4,549	\$5,049	\$5,549	\$5,549
Public Safety and Environmental		\$71,867	\$72,700	\$74,393	\$75,587	\$75,587
Dissolved Gas in Oil Analysis (DGOA)	High 2	\$3,725	\$3,941	\$3,966	\$3,990	\$3,990
5 Year OH Inspection Program	High 5	\$1,089	\$3,226	\$3,351	\$3,481	\$3,481
5-Year UG Structure Inspection Program	High 6	\$35,001	\$23,829	\$23,691	\$23,691	\$23,691
Annual Stray Voltage Testing Program	High 7	\$12,500	\$8,892	\$8,892	\$8,892	\$8,892
Electric Distribution Inspection System (EDIS) Improvements	Medium 16	\$30	\$200	\$200	\$200	\$200
Mobile Stray Voltage Testing - Sarnoff devices	High 8	\$14,850	\$21,074	\$22,009	\$23,022	\$23,022
Network Transformer vault cleaning program	High 9	\$4,357	\$6,951	\$7,697	\$7,724	\$7,724
Central Quality Assurance	Medium 3	\$315	\$4,587	\$4,587	\$4,587	\$4,587
Storm Hardening and Response		\$18,434	\$21,052	\$21,052	\$21,052	\$21,052
Customer Response Program	High 12	\$418	\$388	\$388	\$388	\$388
Danger Tree Removal	High 3	\$632	\$634	\$634	\$634	\$634
3-Phase Gang Switch Inspection and Repair program	Low 3	\$101	\$349	\$349	\$349	\$349
Line Clearance Program	High 4	\$13,755	\$15,433	\$15,433	\$15,433	\$15,433
Overhead Planning Group	Medium 15	\$131	\$163	\$163	\$163	\$163
Double Wood program	High 1	\$1,000	\$2,648	\$2,648	\$2,648	\$2,648
Rear Lot Pole Elimination	Low 1	\$2,397	\$1,437	\$1,437	\$1,437	\$1,437
Process Improvement		\$11,364	\$14,086	\$16,196	\$18,332	\$18,332
Area System Profile Program	Medium 1	\$100	\$100	\$100	\$100	\$100
Technical Support/NYC Regulatory Liaison Program	High 13	\$376	\$220	\$220	\$220	\$220
Field Auditing & Quality Control Program	High 14	\$563	\$394	\$394	\$394	\$394
NAICS Code Append	High 15	\$50	\$12	\$12	\$38	\$38
Establishment of a Regional Contractor Oversight / Review Group	Medium 17	\$126	\$237	\$237	\$237	\$237
Electric Operations Process Management - EOPM	Medium 4	\$800	\$800	\$800	\$800	\$800
Engineering Contractor -Vendor Layouts	Medium 5	\$497	\$497	\$497	\$497	\$497
Enhanced Project Planning	Medium 6	\$7,834	\$9,358	\$9,358	\$9,358	\$9,358
Electric Distribution Equipment Reconditioning & Repairs	Low 4	\$1,018	\$1,018	\$1,018	\$1,018	\$1,018
Accounting By Network	Medium 8	\$0	\$350	\$350	\$350	\$350
Mapping System Upgrade - IT	Medium 18	\$0	\$0	\$2,000	\$4,000	\$4,000
COOP's	Medium 9	\$0	\$350	\$350	\$350	\$350
Senior Civil Engineers	Medium 10	\$0	\$100	\$100	\$100	\$100
Staffing Additions - DE	Medium 11	\$0	\$110	\$220	\$330	\$330
Programming resources for Electric Operations Applications – FIN Team	Medium 14	\$0	\$540	\$540	\$540	\$540
Total of Programs Listed Above for Electric Operations O&M		\$106,001	\$124,049	\$129,372	\$133,566	\$133,566