Law Department PSEG Services Corporation

80 Park Plaza – T5, Newark, New Jersey 07102-4194

tel: 973-430-6479 fax: 973-430-5983 email: danielle.lopez@pseg.com



April 30, 2019

In The Matter of the Petition of
Public Service Electric and Gas Company
for Approval of Electric Base Rate
Adjustments Pursuant to the Madison 4kV Substation Project
(M&M 2019 Rate Filing)

BPU Docket No.	BPU Docket No.	
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VIA BPU E-FILING SYSTEM & OVERNIGHT MAIL

Aida Camacho-Welch, Secretary Board of Public Utilities 44 South Clinton Avenue, 3rd Flr. P.O. Box 350 Trenton, New Jersey 08625-0350

Dear Secretary Camacho-Welch:

Enclosed please find an original and two copies of Public Service Electric and Gas Company's filing in the above-referenced matter.

Please be advised that workpapers are being provided via electronic submission only.

Very truly yours,

Samill for

BPU

Joe Costa Board of Public Utilities 44 South Clinton Avenue 3rd Floor, Suite 314 P.O. Box 350 Trenton NJ 08625-0350 (609) 984-4558 joe.costa@bpu.nj.gov

BPU

Henry Rich Board of Public Utilities 44 South Clinton Avenue 3rd Floor, Suite 314 P.O. Box 350 Trenton NJ 08625-0350 (609) 341-5760 henry.rich@bpu.nj.gov

DAG

Patricia A. Krogman DAG
NJ Dept of Law & Public Safety
Division of Law
124 Halsey Street, 5th Flr.
P.O. Box 45029
Newark NJ 07101
(973) 648-3441
patricia.krogman@dol.lps.state.nj.us

DAG

Emma Xiao DAG NJ Dept of Law & Public Safety Division of Law 124 Halsey Street, 2nd Floor Newark NJ 07101 emma.xiao@law.njoag.gov

PSE&G

Bernard Smalls PSEG Services Corporation 80 Park Plaza-T5 Newark NJ 07102-4194 (973) 430-5930 bernard.smalls@pseg.com

Rate Counsel

Stefanie A. Brand Division of Rate Counsel 140 East Front Street, 4th Flr. P.O. Box 003 Trenton NJ 08625 (609) 984-1460 sbrand@rpa.state.nj.us

BPU

John Masiello Board of Public Utilities 44 South Clinton Avenue 3rd Floor, Suite 314 P.O. Box 350 Trenton NJ 08635-0350 john.masiello@bpu.nj.gov

BPU

Scott Sumliner
Board of Public Utilities
44 South Clinton Avenue
3rd Floor, Suite 314
P.O. Box 350
Trenton NJ 08625-0350
(609) 292-4519
scott.sumliner@bpu.nj.gov

DAG

Alex Moreau DAG NJ Dept. of Law & Public Safety Division of Law 124 Halsey Street, 5th Flr. P.O. Box 45029 Newark NJ 07101 (973) 648-3762 Alex.Moreau@dol.lps.state.nj.us

PSE&G

Michele Falcao PSEG Services Corporation 80 Park Plaza, T5 P.O. Box 570 Newark NJ 07102 (973) 430-6119 michele.falcao@pseg.com

PSE&G

Matthew M. Weissman Esq. PSEG Services Corporation 80 Park Plaza, T5 P.O. Box 570 Newark NJ 07102 (973) 430-7052 matthew.weissman@pseg.com

Rate Counsel

Lisa Gurkas Division of Rate Counsel 140 East Front Street, 4th Flr. P.O. Box 003 Trenton NJ 08625 (609) 984-1460 lgurkas@rpa.state.nj.us

BPU

Stacy Peterson Board of Public Utilities 44 South Clinton Avenue 3rd Floor, Suite 314 P.O. Box 350 Trenton NJ 08625-0350 (609) 292-4517 stacy.peterson@bpu.nj.gov

DAG

Geoffrey Gersten
NJ Dept. of Law & Public Safety
Division of Law
124 Halsey Street, 5th Flr.
P.O. Box 45029
Newark NJ 07101
(973) 648-3510
geoffrey.gersten@dol.lps.state.nj.us

DAG

Caroline Vachier DAG
NJ Dept. of Law & Public Safety
Division of Law
124 Halsey Street, 5th Flr.
P.O. Box 45029
Newark NJ 07101
(973) 648-3709
caroline.vachier@dol.lps.state.nj.us

PSE&G

Danielle Lopez Esq.
Public Services Corporation
80 Park Plaza, T5
P.O. Box 570
Newark NJ 07102
973-430-6479
danielle.lopez@pseg.com

PSE&G

Caitlyn White
PSEG Services Corporation
80 Park Plaza, T-5
P.O. Box 570
Newark NJ 07102
(973)-430-5659
caitlyn.white@pseg.com

Rate Counsel

Kurt Lewandowski Esq. Division of Rate Counsel 140 East Front Street, 4th Flr. P.O. Box 003 Trenton NJ 08625 (609) 984-1460 klewando@rpa.state.nj.us

Public Service Electric and Gas Company ES - Madison and Marshall

Rate Counsel

Brian O. Lipman Division of Rate Counsel 140 East Front Street, 4th Flr. P.O. Box 003 Trenton NJ 08625 (609) 984-1460 blipman@rpa.nj.gov

Rate Counsel

Felicia Thomas-Friel Division of Rate Counsel 140 East Front Street, 4th Flr. P.O. Box 003 Trenton NJ 08625 (609) 984-1460 fthomas@rpa.nj.gov

Rate Counsel

Ami Morita Division of Rate Counsel 140 East Front Street, 4th Flr. P.O. Box 003 Trenton NJ 08625 (609) 984-1460 amorita@rpa.state.nj.us

Rate Counsel

Sarah Steindel Division of Rate Counsel 140 East Front Street, 4th Flr. P.O. Box 003 Trenton NJ 08625 (609) 984-1460 ssteinde@rpa.state.nj.us

STATE OF NEW JERSEY BOARD OF PUBLIC UTILITIES

IN THE MATTER OF THE PETITION OF)	PETITION
PUBLIC SERVICE ELECTRIC AND GAS)	BPU DOCKET NO.
COMPANY FOR APPROVAL OF THE)	
MADISON & MARSHALL SUBSTATION)	
PROJECT)	

VERIFIED PETITION

Public Service Electric and Gas Company ("PSE&G," "the Company," or "Petitioner"), a corporation of the State of New Jersey, having its principal offices at 80 Park Plaza, Newark, New Jersey, respectfully petitions the New Jersey Board of Public Utilities ("Board" or "BPU") pursuant to *N.J.S.A.* 48: 2-21, or any other statute the Board deems applicable, as follows:

INTRODUCTION AND OVERVIEW OF THE FILING

- 1. Petitioner is a public utility engaged in the distribution of electricity and the provision of electric Basic Generation Service ("BGS"), and distribution of gas and the provision of Basic Gas Supply Service ("BGSS"), for residential, commercial and industrial customers within the State of New Jersey. PSE&G provides service to approximately 2.2 million electric and 1.8 million gas customers in an area having a population in excess of 6.2 million persons and that extends from the Hudson River opposite New York City, southwest to the Delaware River at Trenton, and south to Camden, New Jersey.
- 2. Petitioner is subject to Board regulation for the purposes of setting its retail distribution rates and to assure safe, adequate, and reliable electric distribution and natural gas distribution service pursuant to N.J.S.A. 48:2-21 *et seq*.
 - 3. PSE&G is filing this Petition seeking Board approval for electric base rate changes

to provide for cost recovery of and on the Madison & Marshall ("M&M") Substation project and associated cost recovery.

BACKGROUND

- 4. On February 20, 2013, Public Service petitioned the Board in BPU Docket Nos. EO13020155 and GO13020156 for approval of the Energy Strong Program ("Energy Strong" or the "Program") for the recovery of costs to harden and make its electric and gas infrastructure more resilient.
- 5. The M&M Substations were initially part of the Energy Strong Flood Mitigation Subprogram, which was approved in a Board Order Approving Stipulation of Settlement dated May 21, 2014.
- 6. Paragraph 2 of this Energy Strong Stipulation provided that PSE&G may change the mitigation method for a station if it concludes that an alternative method would provide the same benefits to customers at a lower cost, or if permitting or other circumstances make it impossible or inappropriate to use the method specified in the engineering reports ("Engineering Reports") submitted in the Energy Strong proceeding.
- 7. On December 14, 2015, PSE&G provided notice that it anticipated raising and rebuilding both the Madison and Marshall electric substations at the Madison Substation site, rather than raising and rebuilding both stations at their original sites as provided in the Engineering Reports.
- 8. After initially raising objection, Rate Counsel agreed that PSE&G may proceed with the project, raising and rebuilding both the Madison and Marshall electric substations at

the Madison Substation site, *See* Agreement Regarding Withdrawal of Objection, filed November 30, 2016, ("M&M Agreement," attached hereto as Appendix A) at paragraph 5.

- 9. The parties also agreed that PSE&G may include the costs associated with the raise and rebuild of the Madison and Marshall substations in the filing of its Next Base Case, and that "if there is a clear likelihood that part or all of the Madison Marshall Substation project shall be in-service by the end of six months after the end of the test year in the Next Base Case, then the reasonable and prudent costs of the project shall be reflected in the rates established in that case. If part or all of the project shall be in service after the end of six months after the end of the test year in the Next Base Case, the Next Base Case shall remain open to reflect those reasonable and prudent costs in base rates at a later date. If part or all of the project is not in service one year after the end of the test year in the Next Base Rate Case, those costs will be reviewed and may be recovered, if deemed reasonable and prudent, in the base rate case after the Next Base Rate Case." *Id.*, at paragraph 6(d).
- 10. This Petition is being filed in accordance with the provisions of the M&M Agreement.
- 11. The M&M project went into service in April 2019, more than six months after the end of the test year for the PSE&G 2018 base rate case but less than one year after the end of the test year. As a result, the 2018 base rate case has remained open, and should now reflect the revenue requirement associated with the M&M project.
- 12. The Energy Strong Order outlined the Minimum Filing Requirements ("MFRs") for rate recovery petitions. Since the M&M project was initially included in Energy Strong,

the Company has included a matrix setting forth the location of each MFR in Appendix B to this Petition.

REQUEST FOR COST RECOVERY

- 13. PSE&G is seeking BPU approval to recover the revenue requirements associated with the M&M Substation capital investment incurred from October 1, 2014 through June 30, 2019. The annualized increase in electric revenue requirement associated with those investment costs is approximately \$7.4 million in revenue and is supported by Attachment 2, Schedule SS-M&M-2 attached hereto. The base rate revenue requirement adjustments and increase calculations have been used as the basis to increase current base rates, and include actual expenditures through March 31, 2019 and projected expenditures through June 30, 2019. The projected amounts for April 1, 2019 through June 30, 2019 will be updated with actual results by July 15, 2019.
- 14. Consistent with the Energy Strong recovery mechanism, PSE&G proposes the costs be rolled in to rates, including: depreciation/amortization expense providing for the recovery of the invested capital over its useful book life; return on the net investment, where net investment is the capital expenditures less accumulated depreciation/amortization, less associated accumulated deferred income taxes; and the impact of any tax adjustments applicable to the Program. The return on net investment will be based upon the Company's weighted average cost of capital ("WACC") approved by the Board in the 2018 base rate case.
- 15. Attachment 1 is the testimony of Edward F. Gray, PSE&G's Director of Electric Transmission & Distribution Engineering. Attachment 2 is the testimony of Stephen Swetz,

PSE&G's Senior Director Corporate Rates & Revenue Requirements supporting the revenue requirement and rate calculations.

- 16. The typical annual bill impacts for a typical residential customer as well as rate class average customers compared to rates as of April 1, 2019 are set forth in the testimony of Mr. Swetz. The forecasted impact on the typical residential electric customer is an increase of approximately 0.26% on an average annual bill or about a \$3.24 increase in the average annual bill.
- 17. Attachment 3 is a draft Form of Notice of Filing and of Public Hearings (Form of Notice). This Form of Notice will be placed in newspapers having a circulation within the Company's electric service territory upon scheduling of public hearing dates. Public hearings will be held in each geographic area within the Company's service territory, i.e., Northern, Central, and Southern. A Notice will be served on the County Executives and Clerks of all municipalities within the Company's electric service territory upon scheduling of public hearing dates.
- 18. Notice of this filing and two copies of the Petition, testimony, and schedules will be served upon the Department of Law and Public Safety, 124 Halsey Street, P.O. Box 45029, Newark, New Jersey 07101 and upon the Director, Division of Rate Counsel, 140 East Front Street 4th Floor, Trenton, N.J. 08625. Electronic copies of the Petition, testimony, and schedules will also be sent to the persons identified on the service list provided with this filing.
- 19. PSE&G requests that the Board find the proposed rates, as calculated in the proof of revenue, Attachment 2, Schedule SS-M&M-5, are just and reasonable and that PSE&G should

be authorized to implement the proposed rates as set forth herein, effective October 1, 2019 upon issuance of a written BPU order.

20. Any final rate relief found by the Board to be just and reasonable may be allocated by the Board for consistency with the provisions of N.J.S.A. 48:2-21 and for other good and legally sufficient reasons, to any class or classes of customers of the Company. Therefore, the average percentage changes in final rates may increase or decrease compared to the proposed rates based upon the Board's decision.

COMMUNICATIONS

21. Communications and correspondence related to the Petition should be sent as follows:

Matthew M. Weissman, Esq. General State Regulatory Counsel PSEG Services Corporation 80 Park Plaza, T5 P. O. Box 570 Newark, New Jersey 07102 Phone: (973) 430-7052

Michele Falcao Regulatory Filings Supervisor PSEG Services Corporation 80 Park Plaza, T5 P.O. Box 570

matthew.weissman@pseg.com

Newark, New Jersey 07102 Phone: (973) 430-6119

michele.falcao@pseg.com

Danielle Lopez
Assistant General Regulatory Counsel
PSEG Services Corporation
80 Park Plaza, T5
P.O. Box 570
Newark, New Jersey 07102

Phone: (973) 430-6479 danielle.lopez@pseg.com

Caitlyn White Regulatory Case Coordinator PSEG Services Corporation 80 Park Plaza, T5 P.O. Box 570 Newark, New Jersey 07102 Phone: (973) 430-5659

Phone: (973) 430-5659 caitlyn.white@pseg.com

CONCLUSION AND REQUESTS FOR APPROVAL

For all the foregoing reasons, PSE&G respectfully requests that the Board issue an Order

approving this Petition no later than September, 2019 and specifically finding that:

1. PSE&G is authorized to recover all costs identified herein associated with the

Madison & Marshall Substation through June 30, 2019, as such costs are reflected in this

Petition and accompanying materials, along with anticipated updates of data; and

2. The Madison & Marshall project as described herein is reasonable and in the

public's interest;

3. The cost recovery proposal and mechanism set forth in this Petition will provide for

implementation of just and reasonable rates and is approved;

4. The electric rates as calculated in the proof of revenue, Attachments 2, Schedule

SS-M&M-4 to this Petition, are just and reasonable and may be implemented for service

rendered on and after October 1, 2019; and

5. PSE&G may recover the Madison & Marshall Substation costs, on a full and timely

basis, under the cost recovery mechanism set forth herein.

Respectfully submitted,

PUBLIC SERVICE ELECTRIC

mother Wesom

AND GAS COMPANY

By:

Matthew M. Weissman, Esq.

DATED:

April 30, 2019

- 7 -

STATE OF NEW JERSEY COUNTY OF ESSEX

I, Michael P. McFadden, of full age, being duly sworn according to law, on his oath deposes and says:

- 1. I am Manager of Revenue Requirements of PSEG Services Corporation.
- 2. I have read the annexed Petition, and the matters contained therein are true to the best of my knowledge and belief.

Michael P. McFadden

Sworn to and Subscribed to Before me this 30th day of April, 2019

MICHELE D. FALCAO Notary Public, State of New Jersey My Commission Expires November 14, 2021 Martin C. Rothfelder Associate General Regulatory Counsel Law Department
PSEG Services Corporation

80 Park Plaza – T5, Newark, New Jersey 07102-4194

tel: 973-430-6479 fax: 973-430-5983 email: martin.rothfelder@pseg.com



November 30, 2016

In the Matter of the Petition of Public Service Electric and Gas Company For Approval of the Energy Strong Program (Madison & Marshall) BPU Docket Nos. EO13020155 & GO13020156

VIA ELECTRONIC DELIVERY& OVERNIGHT MAIL

Irene Kim Asbury, Secretary State of New Jersey Board of Public Utilities 44 South Clinton Avenue P.O. Box 350 Trenton, New Jersey 08625-0350

Re: AGREEMENT REGARDING WITHDRAWAL OF OBJECTION

Dear Secretary Asbury:

Enclosed for filing are ten copies of the Agreement Regarding Withdrawal of Objection. As the filing entails the withdrawal of an objection by a party, no Board action is required.

Very truly yours.

Norton C. Roter feller

C Attached Service List (E-mail only)

Public Service Electric and Gas Company Energy Strong (Madison & Marshall) BPU Docket Nos. EO13020155 & GO13020156

Page 1 of 2

BPU

Mark Beyer Board of Public Utilities 44 South Clinton Avenue, 3rd Floor, Suite 314 P.O. Box 350 Trenton NJ 08625-0350 (609) 292-2637 mark.beyer@bpu.nj.gov

BPU

Megan Lupo Board of Public Utilities 44 South Clinton Avenue 3rd Floor, Suite 314 P.O. Box 350 Trenton NJ 08625-0350 megan.lupo@bpu.nj.gov

BPU

Henry Rich Board of Public Utilities 44 South Clinton Avenue 3rd Floor, Suite 314 P.O. Box 350 Trenton NJ 08625-0350 (609) 341-5760 henry.rich@bpu.nj.gov

BPU

Scott Sumliner Board of Public Utilities 44 South Clinton Avenue 3rd Floor, Suite 314 P.O. Box 350 Trenton NJ 08625-0350 (609) 292-4519 scott.sumliner@bpu.nj.gov

DAG

Geoffrey Gersten
NJ Dept. of Law & Public Safety
Division of Law
124 Halsey Street, 5th Flr.
P.O. Box 45029
Newark NJ 07101
(973) 648-3510
geoffrey.gersten@dol.lps.state.nj.us

DAG

Caroline Vachier DAG
NJ Dept. of Law & Public Safety
Division of Law
124 Halsey Street, 5th Flr.
P.O. Box 45029
Newark NJ 07101
(973) 648-3709
caroline.vachier@dol.lps.state.nj.us

BPU

Joe Costa Board of Public Utilities 44 South Clinton Avenue 3rd Floor, Suite 314 P.O. Box 350 Trenton NJ 08625-0350 (609) 984-4558 joe.costa@bpu.nj.gov

BPU

John Masiello
Board of Public Utilities
44 South Clinton Avenue
3rd Floor, Suite 314
P.O. Box 350
Trenton NJ 08625-0350
john.masiello@bpu.state.nj.us

BPU

Bethany Rocque-Romaine Esq.
Board of Public Utilities
44 South Clinton Avenue
3rd Floor, Suite 314
P.O. Box 350
Trenton NJ 08625-0350
(609) 292-1496
bethany.rocque-romaine@bpu.nj.gov

BPU

Thomas Walker Board of Public Utilities 44 South Clinton Avenue 3rd Floor, Suite 314 P.O. Box 350 Trenton NJ 08625-0350 thomas.walker@bpu.nj.gov

DAG

Patricia A. Krogman DAG NJ Dept of Law & Public Safety Division of Law 124 Halsey Street, 5th Flr. P.O. Box 45029 Newark NJ 07101 (973) 648-3441 patricia.krogman@dol.lps.state.nj.us

DAG

Emma Xiao DAG NJ Dept of Law & Public Safety Division of Law 124 Halsey Street, 5th Flr. P.O. Box 45029 Newark NJ 07101 Emma.Xiao@dol.lps.state.nj.us

BPU

Son Lin Lai Board of Public Utilities 44 South Clinton Avenue 3rd Floor, Suite 314 P.O. Box 350 Trenton NJ 08625-0350 (609) 292-2098 son-lin.lai@bpu.nj.gov

BPU

Stacy Peterson
Board of Public Utilities
44 South Clinton Avenue
3rd Floor, Suite 314
P.O. Box 350
Trenton NJ 08625-0350
(609) 292-4517
stacy.peterson@bpu.nj.gov

BPU

Robert Schultheis Board of Public Utilities 44 South Clinton Avenue 3rd Floor, Suite 314 P.O. Box 350 Trenton NJ 08625-0350 (609) 984-9633 robert.schultheis@bpu.nj.gov

DAG

Geoffrey Gersten
NJ Dept. of Law & Public Safety
Division of Law
124 Halsey Street, 5th Flr.
P.O. Box 45029
Newark NJ 07101
(973) 648-3510
geoffrey.gersten@dol.lps.state.nj.us

DAG

Alex Moreau DAG NJ Dept. of Law & Public Safety Division of Law 124 Halsey Street, 5th Flr. P.O. Box 45029 Newark NJ 07101 (973) 648-3762 Alex.Moreau@dol.lps.state.nj.us

Public Service Electric and Gas Company Energy Strong (Madison & Marshall) BPU Docket Nos. EO13020155 & GO13020156

Page 2 of 2

PSE&G

Michele Falcao PSEG Services Corporation 80 Park Plaza, T5 P.O. Box 570 Newark NJ 07102 (973) 430-6119 michele.falcao@pseg.com

PSE&G

Matthew M. Weissman Esq. PSEG Services Corporation 80 Park Plaza, T5 P.O. Box 570 Newark NJ 07102 (973) 430-7052 matthew.weissman@pseg.com

Rate Counsel

Stefanie A. Brand Division of Rate Counsel 140 East Front Street, 4th Flr. P.O. Box 003 Trenton NJ 08625 (609) 984-1460 sbrand@rpa.state.nj.us

Rate Counsel

Brian O. Lipman Division of Rate Counsel 140 East Front Street, 4th Flr. P.O. Box 003 Trenton NJ 08625 (609) 984-1460 blipman@rpa.state.nj.us

Rate Counsel

Sarah Steindel Division of Rate Counsel 140 East Front Street, 4th Flr. P.O. Box 003 Trenton NJ 08625 (609) 984-1460 ssteinde@rpa.state.nj.us

Rate Counsel Consultant

Charles Salamone
Cape Power System Consulting, Inc.
630 Cumberland Drive
Flagler Beach FL 32136
(774) 271-0383
csalamone@capepowersystems.com

PSE&G

Connie E. Lembo PSEG Services Corporation 80 Park Plaza, T5 P.O. Box 570 Newark NJ 07102 (973) 430-6273 constance.lembo@pseg.com

PEGASUS-GLOBAL

Pegasus Global Holdings, Inc.® 1750 Emerick Road Cle Elum, WA 98922 p.galloway@pegasus-global.com j.clark@pegasus-global.com k.coe@pegasus-global.com h.sobel@pegasus-global.com

Rate Counsel

Lisa Gurkas Division of Rate Counsel 140 East Front Street, 4th Flr. P.O. Box 003 Trenton NJ 08625 (609) 984-1460 lgurkas@rpa.state.nj.us

Rate Counsel

Ami Morita Division of Rate Counsel 140 East Front Street, 4th Flr. P.O. Box 003 Trenton NJ 08625 (609) 984-1460 amorita@rpa.state.nj.us

Rate Counsel

Felicia Thomas-Friel Division of Rate Counsel 140 East Front Street, 4th Flr. P.O. Box 003 Trenton NJ 08625 (609) 984-1460 fthomas@rpa.state.nj.us

PSE&G

Martin C. Rothfelder Esq. PSEG Services Corporation 80 Park Plaza, T5 P.O. Box 570 Newark NJ 07102 (973) 430-6479 martin.rothfelder@pseg.com

Rate Counsel

Kurt Lewandowski Esq. Division of Rate Counsel 140 East Front Street, 4th Flr. P.O. Box 003 Trenton NJ 08625 (609) 984-1460 klewando@rpa.state.nj.us

Rate Counsel

Diane Schulze Esq.
Division of Rate Counsel
140 East Front Street, 4th Flr.
P.O. Box 003
Trenton NJ 08625
(609) 984-1460
dschulze@rpa.state.nj.us

Rate Counsel Consultant

Max Chang Synapse Energy Economics, Inc. 485 Massachusetts Ave., Suite 2 Cambrige MA 02139 (617) 661-3248 mchang@synapse-energy.com

STATE OF NEW JERSEY BOARD OF PUBLIC UTILITIES

IN THE MATTER OF THE PETITION OF PUBLIC SERVICE ELECTRIC AND GAS COMPANY FOR APPROVAL OF THE ENERGY STRONG PROGRAM

BPU DOCKET NOS. EO13020155 & GO13020156

AGREEMENT REGARDING WITHDRAWAL OF OBJECTION

APPEARANCES:

Martin C. Rothfelder, Esq., Associate General Regulatory Counsel for the Petitioner, Public Service Electric and Gas Company

Ami Morita, Esq., Managing Attorney - Electric, Brian Lipman, Esq., Litigation Manager, Felicia Thomas-Friel, Esq., Managing Attorney - Gas, Diane Schulze, Sarah Steindel and Kurt Lewandowski, Esq., Assistant Deputy Rate Counsels, New Jersey Division of Rate Counsel (Stefanie A. Brand, Director)

Patricia Krogman, Alex Moreau, and **Emma Xiao**, Deputy Attorneys General, for the Staff of the New Jersey Board of Public Utilities (Christopher S. Porrino, Attorney General of New Jersey)

The New Jersey Division of Rate Counsel (Rate Counsel), the Staff of the New Jersey Board of Public Utilities (Board Staff), and Public Service Electric and Gas Company (PSE&G), stipulate and agree as follows:

- 1. The PSE&G Energy Strong Program was approved in a Board "Order Approving Stipulation of Settlement" dated May 21, 2014 in BPU Docket Nos. EO13020155 and GO13020156 (Energy Strong Order) that adopted a Stipulation (Energy Strong Stipulation) among all the parties to that docket.
- 2. The Energy Strong Program that the Board approved involves up to \$1.22 billion of capital spending in five sub-programs, and provided for a cost recovery mechanism limited to \$1.0 billion of the program investment. Generally, the Energy Strong investments are

anticipated to be made over a three year (36-month) period, but an additional two years are provided for the Electric Station Flood Mitigation subprogram, a subprogram that was specified in the Energy Strong Stipulation as a \$620 million subprogram.

- 3. The Energy Strong Stipulation provided that under the Electric Station Flood Mitigation subprogram the Company would mitigate the 29 switching/substations listed in the stipulation using the method recommended by the Engineering Reports provided to the Parties in this proceeding on or about November 15, 2013.
- 4. Paragraph 2 of the Energy Strong Stipulation provides that PSE&G may change the mitigation method for a station if it concludes that an alternate method would provide the same benefits to customers at a lower cost, or if permitting or other circumstances make it impossible or inappropriate to use the method specified in the Engineering Reports. Any change in the mitigation method for a station will not be made without 15 days prior written and electronic notification to Board Staff (Director, Division of Energy or designee) and Rate Counsel providing them with the opportunity to object within that time period. If there is no objection by Board Staff or Rate Counsel within 15 days of receipt of the electronic notice, the Company may move forward with the change.
- 5. On December 14, 2015, PSE&G provided notice that it anticipates raising and rebuilding both the Madison and Marshall electric substations at the Madison Substation site, rather than raising and rebuilding both stations at their original sites as provided in the Engineering Reports. Via letter dated December 22, 2015, the Office of Rate Counsel objected to this change. Under this Agreement, Rate Counsel withdraws its objection to the December 14, 2015 noticed change in the Madison and Marshall projects.

- 6. Rate Counsel and PSE&G agree that PSE&G may proceed with the project, raising and rebuilding both the Madison and Marshall electric substations at the Madison Substation site, and that the following terms and conditions shall apply to that project:
 - a. PSE&G shall not undertake flood mitigation of the Madison and Marshall substations through the Energy Strong program and the costs of such station shall not be placed in any Energy Strong Adjustment Mechanism (ESAM) during the balance of the Energy Strong program approved via the Board's Energy Strong Order.
 - b. PSE&G will pursue the proposed raise and rebuild of the Madison and Marshall substations at the site of the Madison station.
 - c. The rebuild of the Madison and Marshall sub-stations are projects that are "major in nature and consequence" as those terms are used in *In the Matter of Elizabethtown Water Company Rate Case*, Decision on Motion for Decision on Test Year and Appropriate Time Period for Adjustments, BPU Docket 8504330 (May 23, 1985).
 - d. PSE&G may include the costs associated with the raise and rebuild of the Madison and Marshall substations in the filing of its Next Base Case as defined in paragraph 38 of the Energy Strong Stipulation (case to be filed no later than November 1, 2017). The issue of the prudence and reasonableness of the costs of the Madison and Marshall substation project will be determined by the Board in the Next Base Rate case, or any subsequent base rate case. If there is a clear likelihood that part or all of the Madison Marshall Substation project shall be in-service by the end of six months after the end of the test year in the Next Base Case, then the reasonable and prudent costs of the project shall be reflected in the rates established in that case. If part or all of the project shall be in service after the end of six months after the end of the test year in the Next Base Case, the Next Base Case shall remain open to reflect those reasonable and prudent costs in base rates at a later date. If the Next Base Case remains open for this purpose, PSE&G and Rate Counsel agree to support a reasonably timely resolution of that rate adjustment matter consistent with the time frames used in other infrastructure related rate adjustments. If part or all of the project is not in service one year after the end of the test year in the Next Base Rate Case, those costs will be reviewed and may be recovered, if deemed reasonable and prudent, in the base rate case after the Next Base Rate Case.
 - e. PSE&G shall cooperate with the Energy Strong Monitor in its review of this project in the same manner as if it was part of the Energy Strong program, as long as the Monitor is available under identical or similar terms as in the Energy Strong program.

- 7. Board Staff agrees to recommend Board action in the Next Base Case, consistent with paragraph 6 but cannot and does not bind the Board to the foregoing.
- 8. Notwithstanding the provisions in paragraph 22 of the Energy Strong Stipulation, the funds originally allocated to the Madison and Marshall substations in the Energy Strong should be reserved for projects consistent with Energy Strong, agreed upon by PSE&G, Board Staff, and Rate Counsel, and approved by the Board prior to the commencement of construction of the project.
- 9. The Signatories do not anticipate any Board action on this Agreement and consider this Agreement to be binding on them.
- 10. It is specifically understood and agreed that this Agreement represents a negotiated agreement and, except as otherwise expressly provided for herein:
 - a. By executing this Agreement, no Party waives any rights it possesses under any prior Stipulation or Agreement, except where the terms of this Agreement supersede such prior Stipulation or Agreement.
 - b. The contents of this Agreement shall not in any way be considered, cited or used by any of the undersigned Parties as an indication of any Party's position on any related or other issue litigated in any other proceeding or forum, except to enforce the terms of this Agreement.

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

CHRISTOPHER S. PORRINO, ATTORNEY GENERAL OF NEW JERSEY Attorney for the Staff of the New Jersey Board of Public Utilities

BY:	Noutin C. Noholih B.	Y:
	Martin C. Rothfelder, Esq.	Alex Moreau
		Deputy Attorney General

DATED: (1/29/6 DATED:

- 7. Board Staff agrees to recommend Board action in the Next Base Case, consistent with paragraph 6 but cannot and does not bind the Board to the foregoing.
- 8. Notwithstanding the provisions in paragraph 22 of the Energy Strong Stipulation, the funds originally allocated to the Madison and Marshall substations in the Energy Strong should be reserved for projects consistent with Energy Strong, agreed upon by PSE&G, Board Staff, and Rate Counsel, and approved by the Board prior to the commencement of construction of the project.
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PUBLIC SERVICE ELECTRIC AND GAS **COMPANY**

CHRISTOPHER S. PORRINO, **ATTORNEY** GENERAL OF NEW JERSEY Attorney for the Staff of the New Jersey Board of Public Utilities

Alex Moreau

Deputy Attorney General

DATED:

NEW JERSEY DIVISION OF RATE COUNSEL STEFANIE A. BRAND, DIRECTOR

Ami Morita, Esq.

Managing Attorney - Electric

DATED: 1//30/1-6

	PUBLIC SERVICE ELECTRIC AND GAS Minimum Filing Requirements – Madison & Marshall (M&M) Substations										
	MINIMUM FILING REQUIREMENTS	LOCATION IN FILING									
	I. General Filing Requirements										
1.	Income Statement for the most recent 12 month period, as filed with the BPU.	Attachment 4									
2.	Balance Sheet for the most recent 12 month period, as filed with the BPU.	Attachment 5									
3.	The approved Madison & Marshall capital budget broken down by major categories, both budgeted and actual amounts.	Attachment 1, Schedule EFG-M&M-2									
4.	For each Madison & Marshall subprogram: a. The original project summary; b. Expenditures incurred to date. c. Appropriate metric (e.g., miles of main replaced, relays installed, etc.)	Attachment 1, Schedule EFG-M&M-2									
5.	Madison & Marshall timeline with updates and expected changes.	Attachment 1, Schedule EFG-M&M-2									
6.	Calculation of the proposed rate adjustment to Madison & Marshall projects included in Plant in Service.	Attachment 2, Schedule SS-M&M-5									
7.	Calculation of the associated depreciation expense, based on those projects closed to Plant in Service during the period	Attachment 2, Schedule SS-M&M-2									
8.	A list of any and all funds or credits received from the United States government, the State of New Jersey, a county or a municipality, for work related to any of the Madison & Marshall projects, such as relocation, reimbursement, or stimulus money including an explanation of the financial treatment associated with the receipt of the government funds or credits.	N/A									
9.	Revenue requirement calculation showing the actual capital expenditures for the period for which the filing is made, as well as supporting calculations.	Attachment 2, Schedule SS-M&M-2									

STATE OF NEW JERSEY BOARD OF PUBLIC UTILITIES

In The Matter of the Petition of
Public Service Electric and Gas Company
for Approval of Electric Base Rate
Adjustments Pursuant to the Madison 4kV Substation
Project

BPU Docket No.	
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DIRECT TESTIMONY

OF

EDWARD F GRAY

DIRECTOR – TRANSMISSION AND DISTRIBUTION ENGINEERING

April 30, 2019

1 2 3 4 5 6 7		PUBLIC SERVICE ELECTRIC AND GAS COMPANY REBUTTAL TESTIMONY OF EDWARD F. GRAY DIRECTOR – TRANSMISSION AND DISTRIBUTION ENGINEERING MADISON 4KV SUBSTATION PROJECT
8	I.	INTRODUCTION
9	Q.	Please state your name and title.
10	A.	My name is Edward F. Gray, and I am the Director of Transmission and Distribution
11	Engi	neering for Public Service Electric and Gas Company (PSE&G, or the Company), the
12	Petit	ioner in this matter. My credentials are set forth in the attached Attachment 1, Schedule
13	EFG	-M&M-1.
14	Q.	What is the purpose of your testimony?
15	A.	This testimony provides information on the status of Madison and Marshall (M&M)
16	Subs	station executed outside of the Energy Strong Program as defined in the Agreement
17	Rega	arding Withdrawal of Objection (Agreement) signed by Rate Counsel, the Board of Public
18	Utili	ties (BPU) Staff and PSE&G dated November 30, 2016.
19		OVERVIEW OF MADISON 4KV PROJECT
20	Q.	Please describe the Madison 4kV Project.
21	A.	On February 20, 2013, Public Service petitioned the Board in BPU Docket Nos.
22	EO1	3020155 and GO13020156 for approval of the Energy Strong Program (Energy Strong or
23	the I	Program) for the recovery of costs to harden and make its electric and gas infrastructure
24	more	e resilient. The M&M Substations were originally part of Energy Strong and initially
25	prop	osed the raising and rebuilding of both stations at their respective locations, as provided in

ATTACHMENT 1

1 the Engineering Reports submitted in the Energy Strong proceeding. In December of 2015, the 2 Company provided notice to the parties that it changed the mitigation method initially proposed 3 and instead decided to consolidate the 4kV facilities for both of the M&M stations at the 4 Madison Substation site. The parties in the Energy Strong matter entered into an Agreement in 5 November, 2016 (the "Agreement") whereby Rate Counsel withdrew its objection to this 6 project change and agreed that PSE&G could raise and rebuild the M&M stations at the 7 The scope of work includes installing a new 4kV switchgear above flood 8 elevations at Madison Street Substation and re-routing the existing 4kV circuits from Marshall 9 Street to this new switchgear. The project scope also includes the removal and retirement of all 10 facilities located at the Marshall Substation. The agreement authorized that no costs for the 11 M&M Substations would be included in Energy Strong but could be included in the PSE&G's 12 "Next Base Rate Case," which was the Company's 2018 base rate case filed on January 12, 13 2018 Docket Nos. ER18010029 and GR18010030. The Agreement stated any reasonable 14 and prudent costs associated with the substations that were in service by June 30, 2019 could be 15 put into base rates established in the Base Rate Case. The Agreement also provided that "if 16 there is a clear likelihood that part or all of the Madison Marshall Substation project shall be in-17 service by the end of six months after the end of the test year in the Next Base Case, then the 18 reasonable and prudent costs of the project shall be reflected in the rates established in that 19 case." Pursuant to paragraph 6 d. of the agreement, "If part or all of the M&M project shall be in 20 service after the end of six months after the end of the test year in the Next Base Case, the Next 21 Base Case shall remain open to reflect those reasonable and prudent costs in base rates at a later 22 date. If the Next Base Case remains open for this purpose, PSE&G and Rate Counsel agree to

ATTACHMENT 1

1 support a reasonably timely resolution of that rate adjustment matter consistent with the time 2 frames used in other infrastructure related rate adjustments." Additionally, if part or all of the 3 project is not in service one year after the end of the test year in the Next Base Rate Case, those 4 costs will be reviewed and may be recovered, if deemed reasonable and prudent, in the base rate 5 case after the Next Base Rate Case. Therefore, any reasonable and prudent costs associated with 6 the project that are not in-service by June 30, 2019 would be included in PSE&G's next base 7 rate case. The project status, including both cost and schedule updates, have been reviewed with 8 both Rate Counsel and BPU Staff on a quarterly basis through reports and meetings run by the 9 Energy Strong Independent Monitor, Pegasus Global Holdings Inc. See Attachment 1, Schedule 10 EFG-M&M-2.

11 Q. Can you provide details on the implementation of the project to date and particularly the projects in service that are a part of this rate filing?

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A. Yes. All the 4kV substation equipment was placed into service in April 2019. All the manhole and conduit work required to carry the underground portions of the 4kV circuits was also placed in service as well. All the Madison circuits and 2 of the 12 Marshall circuits are currently being supplied by the new station equipment at Madison and the associated costs are considered "in-service" for this rate filing. The rate impacts described in this filing are only for recovery of costs associated with plant that is anticipated to be in service by June 30, 2019, including a contingency reserve as part of the forecasted figures through June 30, 2019 that will be updated with actual results in July 2019 updated filing. As such, no forecasted figures will be part of the M&M revenue requirements. However, the full removal and retirement of Marshall Street substation is expected by March 2021, expenditures of which are not included in

ATTACHMENT 1

- this filing. Attachment 1, Schedule EFG-M&M-2 provides the last Monitor Report detailing the
- 2 status of the M&M project through December 31, 2018, including the timeline for completion
- and actual expenditures compared to budget. Attachment 1, Schedule EFG-M&M-3 provides
- 4 the monthly cash flow for the roll-in for this program.
- 5 Q. Does this complete your testimony at this time?
- 6 A. Yes, it does.

1 **CREDENTIALS** 2 OF **EDWARD F GRAY** 3 4 DIRECTOR-TRANSMISSION AND DISTRIBUTION ENGINEERING 5 6 My name is Edward F. Gray and I am employed by Public Service Electric 7 and Gas. I am the Director – Transmission and Distribution Engineering where I am 8 responsible for engineering standards, reliability and maintenance programs for Electric 9 Transmission and Distribution. 10 EDUCATIONAL BACKGROUND 11 I graduated from Rensselaer Polytechnic Institute with a Bachelor of 12 Science degree in Civil Engineering. I also earned a Master's in Civil Engineering from 13 Rutgers University and a Master's in Management from New Jersey Institute of 14 Technology. I am a Licensed Professional Engineer in the State of New Jersey. 15 WORK EXPERIENCE 16 I have over 30 years' experience in Engineering and Asset Management at 17 PSE&G. I have had various positions at PSE&G in Substation Engineering, System 18 development for Electric and Gas work management, New Business Policy, Solar 19 Interconnections, Resource Planning and Financial Management. I am presently the 20 Director – Transmission and Distribution Engineering with oversight of electric

engineering standards, reliability and maintenance programs.

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ATTACHMENT 1 SCHEDULE EFG-M&M-1 PAGE 2 OF 2

I have been actively involved in Electric programs implemented since 2009. I was the program lead for Electric Distribution for both Capital Economic Stimulus Infrastructure Investment Programs responsible for the project implementation including cost and scheduling for each sub-program. For both programs developed discovery responses and was involved in various settlement and review meetings with BPU Staff and Rate Council. I was directly involved in my current position in the development of the Energy Strong program. I was actively involved in the preparation of testimony, project estimates, discovery responses and settlement meetings during the project approval. After approval, I was directly involved with project implementation on engineering and design of projects as well as working with the Independent Monitor on various process and data requests. I was also directly involved in the development of the currently proposed Energy Strong II program. I am actively involved in the preparation of testimony, project estimates, discovery responses and settlement meetings during the project approval process.

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In addition to these programs I have been involved with various items with Board Staff including storm cost recovery filings and the PVSC substation petition as well as other items related to Smart Growth and solar policy.

MADISON 4KV SUBSTATION PROJECT INDEPENDENT MONITOR 2018 ANNUAL REPORT



PREPARED AND SUBMITTED BY
PEGASUS GLOBAL HOLDINGS, INC. ®
25 MARCH 2019

Table of Contents

I.	Introduction.	1
II.	Background	2
III.	Current Status	2
IV.	Findings and Observations.	4
Lis	st of Acronyms/Abbreviations	
	Board of Public Utilities	BPU
	City of Hoboken.	City
	Delivery Projects & Construction	DP&C
	Federal Emergency Management Agency	FEMA
	Independent Monitor	IM
	Issued for Construction	IFC
	Issued for Review	IFR
	Madison 4kV Substation Project	Madison Project
	Pegasus-Global Holdings, Inc.	Pegasus-Global
	Public Service Electric and Gas Company	PSE&G
	Purchase Order	РО
	Utility Review Board	URB

I. Introduction

Pegasus-Global Holdings, Inc. (Pegasus-Global) was engaged by Public Service Electric and Gas Company (PSE&G) to provide independent monitoring services for PSE&G's Energy Strong Program. Under the Stipulation approved by the May 21, 2014 Order, PSE&G was required to hire a monitor to:

"[R]eview and report to Board Staff and Rate Counsel on the impact of the Energy Strong Program on overall system performance during severe weather events; cost effectiveness and efficiency; appropriate cost assignment; and other information deemed appropriate by the Company, Board Staff and Rate Counsel."

The independent monitor (IM) scope of work revolves around three primary tasks:

- 1) Review and report on the impact of the Energy Strong Program on overall system performance during severe weather events;
- 2) Review and report on cost effectiveness and efficiency; and,
- 3) Review and report on appropriate cost assignment.

In a November 30, 2016 agreement, Rate Counsel, the Board of Public Utilities (BPU) Staff, and PSE&G reached an agreement that allows PSE&G to proceed with the project of raising and rebuilding both the Madison and Marshall electric substations at the Madison Substation site outside of the Energy Strong Program. As such, going forward this project will be formally referred to as the Madison 4kV Substation Project (Madison Project¹). Among other things, the agreement contains several terms and conditions, including:

- PSE&G shall not undertake flood mitigation of the Madison and Marshall substations through the Energy Strong Program but may include the costs associated with the raise and rebuild of the Madison and Marshall substations in the filing of its next base case.
- PSE&G shall cooperate with the Energy Strong Monitor, the IM, in its review of this project in the same manner as if it was part of the Energy Strong Program, as long as the Monitor is available under identical or similar terms as in the Energy Strong Program.

This IM Madison 4kV Substation Project 2018 Annual Report is intended to convey the independent monitoring activities of the IM that have taken place during 2018 on the Madison Project, with heightened focus on the fourth quarter of 2018 status and activities. To the extent information is available after December 31, 2018 through the date of this report that will assist PSE&G, BPU, Staff, and Rate Counsel it has been included herein.

¹ For the purposes of this report, the project is generally referred to as the Madison Project, which is meant explicitly as the Madison 4kV Substation Project and does not make reference to the Madison 69kV Project that PSE&G is also executing.

II. Background²

A history of the Madison and Marshall substations can be found in prior IM reports on the Energy Strong Program.³

As of the end of 2018, there has been no change in the anticipated scope of work for the Madison Project. As previously described in the IM 2017 Second Quarter Madison Project Report, this project will result in the installation of a new 4kV sheltered aisle switchgear at the Madison 4kV Substation that conforms to the Federal Emergency Management Agency (FEMA) flood zone advisory base flood elevation plus two feet flood mitigation as required by the City of Hoboken (City). Outside plant underground and overhead infrastructure will be constructed to transfer the Marshall Street substation load to the new Madison Street 4kV substation of this project will allow for the transfer of the load from the Marshall Street substation to the Madison Street 4kV substation while increasing the overall resiliency and reliability of the new Madison Street 4kV substation infrastructure.

The Madison Project, as with other similar substation projects within the Energy Strong Program, is being performed by the Delivery Projects & Construction (DP&C) group within PSE&G and thus is subject to the same processes and procedures DP&C uses for those types of projects, including defining the scope of the project, preparing purchase orders, developing the project's key plan and its project execution plan, issuing drawings, obtaining all required permits, starting and managing construction, and commissioning and startup.

A history of the Madison Project property evaluation, remediation, and transfer status leading up to this 2018 Annual Report can be found in prior IM reports on the Madison Project.⁵

III. Current Status

Table 1 – Madison Project Milestone Dates as of December 31, 2018 presents the milestone schedule dates of the Madison Project based on the status of the project as of the end of the of 2018.

Madison Project Milestone Dates											
Milestone	Original Date	Current Date	Status								
Scope Locked	11/23/2016	11/23/2016	Complete								
Kick-Off	3/2/2017	3/2/2017	Complete								
Utility Review Board (URB) Approval for 2017	3/21/2017	3/21/2017	Complete								
Issue Switchgear Purchase Order (PO)	6/1/2017	5/8/2017	Complete								
Issue Capacitor Bank PO	6/1/2017	5/8/2017	Complete								
Issue Remaining Major Equipment POs	6/1/2017	5/8/2017	Complete								
Issue Purchase Order for Structural Steel	12/1/2017	2/12/2018	Complete								

Table 1 – Madison Project Milestone Dates as of December 31, 2018

² Rate Counsel, BPU Staff, and PSE&G reached a settlement on November 30, 2016, that noted an agreement that PSE&G may proceed with the Madison Project outside the Energy Strong Program, raising and rebuilding both the Madison and Marshall electric substations at the Madison substation site, subject to certain terms and conditions.

³ IM 2015 Annual Report, pages 44-48; IM 2016 First Quarter Report, pages 40-43; IM 2016 Revised Second Quarter Report, pages 45-47; IM 2016 Third Quarter Report, pages 37-38; IM 2016 Annual Report, page 46

⁴ IM 2017 Second Quarter Madison Project Report, page 2

⁵ See IM 2017 Second Quarter Madison Project Report, pages 2-3; IM 2017 Third Quarter Madison Project Report, pages 2-3; IM 2018 First Quarter Madison Project Report, pages 2-3; IM 2018 Second Quarter Madison Project Report, pages 2-3

Madison Project Milestone Dates											
Milestone	Original Date	Current Date	Status								
Civil Construction Start	12/8/2017	4/10/2018	Complete**								
Complete 70% Cost Estimate	12/29/2017	1/8/2018	Complete								
Inside Plant Construction Start	1/2/2018	4/10/2018	Complete**								
Major Equipment Delivery - Switchgear	2/28/2018	7/31/2018	Complete**								
Major Equipment Delivery – Capacitor Banks	2/28/2018	11/1/2018	Complete**								
Drawings – Final Issue for Review (IFR)	3/1/2018	5/21/2018	Complete**								
Electrical Construction Start	3/1/2018	6/18/2018	Complete**								
Drawings – Final Issue for Construction (IFC)	6/30/2018	6/28/2018	Complete								
Inside Plant Civil Construction Substantially Complete	8/1/2018	10/26/2018	Complete**								
Outside Plant Construction Complete	11/30/2018	2/1/2019	Revised – On Target**								
Startup Testing and Commissioning	11/30/2018	2/1/2019	Revised – On Target**								
Partial In-Service	12/31/2018	5/31/2019	Revised – On Target**								
Full In-Service*	12/31/2018	3/31/2020	Revised – On Target**								

^{*-}The new Madison 4kV Substation will be considered in service by PSE&G's definition when it is energized and carrying load, scheduled for December 2018. Additional load will be added through May 2019. At that point, the additional capacity created by the completion of the Madison 69kV Project, scheduled in December 2019, will be required to transfer any further load onto the new Madison 4kV switchgear in the new Madison 4kV Substation. The final cutover from Marshall, or the Energy Strong definition of "Full In-Service", is therefore March 2020. At that point, all current loads from both the Marshall Street and Madison Street substations will be carried by the new switchgear.

Activities during the fourth quarter of 2018 included setting of switchgear, feeder rows, and the capacitor bank, the completion of inside plant steel erection, and the pulling of control cables between switchgears. Two notable milestones achieved during the fourth quarter of 2018, as indicated on **Table 1**, were: 1) substantial completion of inside plant civil construction on October 26, 2018; and 2) the delivery of capacitor banks on November 1, 2018.

Work taking place early in 2019 includes commencement of startup testing and commissioning, which began on January 14, 2019, and the completion of outside plant construction that is now forecasted for completion on March 15, 2019. As shown in **Table 1**, the completion of outside plant construction was forecasted at the end of 2018 to be achieved on February 1, 2019, but additional underground duct bank pushed that milestone out to early March 2019 (with no perceived impact to the in-service dates and minimal cost impacts).

Table 2 – Madison Project Financial Summary as of December 31, 2018 presents a summary of the financial status of the Madison Project, including total spend, current estimate, and quarterly forecast and actual costs based on the status of the project as of the end of 2018.

Table 2 - Madison Project Financial Summary as of December 31, 2018

Madison Project Financial Summary									
Item	Amount in Thousands								
Project Spend to Date	\$47,804								
2018 URB Approval	\$31,215								
2018 Actual Spend	\$27,882								
Q4 2018 Actuals	\$7,153								

⁶ See IM 2017 Second Quarter Madison Project Report, pages 2-3; IM 2017 Third Quarter Madison Project Report, pages 2-4; IM 2017 Fourth Quarter Madison Project Report, pages 2-4; IM 2018 First Quarter Madison Project Report, pages 2-4; IM 2018 Second Quarter Madison Project Report, pages 2-3

^{**-}These milestones were revised from the original contemplated date based on the land acquisition and soil remediation efforts taking longer than initially planned.⁶

Q4 2018 Forecast		\$7,041	
Project Cost Estimate	Base	Risk & Contingency	Total
Project Cost Estimate	\$51,835	\$16,695	\$68,800

As identified in **Table 1**, during the fourth quarter of 2018 the actual spend on the Madison Project was approximately \$7.2 million, approximately \$0.11 million above the forecast. The fourth quarter variance was primarily the result of increased legal fees and relay tech costs on the project, which was largely offset by less underground material used than was forecasted. Total project spend as of the end of 2018 is approximately \$47.8 million, which is approximately 69% of the project's total budget.

IV. Findings and Observations

- Following the completion of soil remediation activities earlier in 2018, the Madison Project
 progress continued to advance essentially largely as planned, with outside plant construction
 forecasted to be completed during the first quarter of 2019, leading to the start of testing and
 commissioning. During the fourth quarter of 2018, there was no change to the forecasted inservice dates of May 31, 2019 (partial) and March 31, 2020 (full).
- Since the Madison Project is not under the Energy Strong Program it does not have the Energy Strong Stipulation constraints with regard to cost and schedule. However, PSE&G has developed a cost estimate and a schedule that is being monitored by the IM as if they were Stipulation requirements. At this time, the IM sees no issues that would prevent the Madison Project from being completed within the revised milestone date and on budget.

Cash Flows (\$000s)		Jan		Feb		Mar		Apr		May		Jun		July		Aug		Sept	Oct			Nov		Dec		Total	
Program Year - 2014																											
Direct In-Service	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	\$	_	\$	_	\$	_	Ś	_	
CWIP Spending	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	1	\$	1	Ś	4	Ś	7	
COR	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś		Ś		Ś	- '	Ś		
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	1	\$	1	\$	4	\$	7	
Program Year - 2015																											
Direct In-Service	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
CWIP Spending	\$	4	\$	5	\$	6	\$	8	\$	14	\$	14	\$	5	\$	6	\$	9	\$	192	\$	166	\$	(89)	\$	341	
COR	\$		\$		\$		\$		\$		\$		\$		\$		\$		\$		\$		\$		\$		
Total	\$	4	\$	5	\$	6	\$	8	\$	14	\$	14	\$	5	\$	6	\$	9	\$	192	\$	166	\$	(89)	\$	341	
Program Year - 2016																											
Direct In-Service	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
CWIP Spending	\$	16	\$	22	\$	28	\$	43	\$	33	\$	72	\$	10	\$	27	\$	16	\$	32	\$	7	\$	4	\$	311	
COR	\$		\$	-	\$		\$		\$		\$		\$		\$		\$		\$		\$		\$		\$	-	
Total	\$	16	\$	22	\$	28	\$	43	\$	33	\$	72	\$	10	\$	27	\$	16	\$	32	\$	7	\$	4	\$	311	
Program Year - 2017																											
Direct In-Service	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
CWIP Spending	\$	8	\$	6	\$	7	\$	(359)	\$	336	\$	706	\$	2,567	\$	1,806	\$	2,993	\$	3,750	\$	4,974	\$	2,672	\$	19,465	
COR	\$	_	\$		\$		\$	_	\$		\$		\$		\$	0	\$	2	\$	4	\$	9	\$	1	\$	16	
Total	\$	8	\$	6	\$	7	\$	(359)	\$	336	\$	706	\$	2,567	\$	1,806	\$	2,994	\$	3,754	\$	4,983	\$	2,672	\$	19,480	
Program Year - 2018																											
Direct In-Service	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
CWIP Spending	\$	700		2,096	\$	1,999	\$	3,889	\$	2,916	\$	1,923	\$		\$		\$		\$	2,648	\$	2,863	\$	1,333	\$	31,446	
COR	\$	3		1	\$		\$		\$	1	\$	4	\$	79	\$	311	\$	50	\$	102	\$	43	\$	40	\$	634	
Total	\$	703	\$	2,096	\$	1,999	\$	3,889	\$	2,917	\$	1,927	\$	4,740	\$	4,227	\$	2,553	\$	2,750	\$	2,906	\$	1,373	\$	32,080	
Program Year - 2019																											
Direct In-Service	\$	_	\$	_	\$	_	\$	627	\$	1,576	\$	4,265	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	6,468	
CWIP Spending	\$	1,539		2,162		1,808		-	Ś	-,	\$	-,	\$	_	Ś	_	Ś	_	Ś	_	\$	_	Ś	_	\$	5,509	
COR	Ś	36		13	Ś	4	Ś	18	Ś	45	Ś	8	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	124	
Total	\$	1,576		2,174	\$	1,813	\$	645	\$	1,621		4,272	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	12,102	
Totals																											
Direct In-Service	\$	-	\$	-	\$	-	\$	627	\$	1,576	\$	4,265	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	6,468	
CWIP Spending	\$	2,267		4,291	\$	3,849	\$	3,581		3,299		2,716		7,242		5,755	\$	5,521		6,623	\$	8,011	\$	3,924		57,079	
COR	\$	39		13	\$	4	\$	18	\$	46	\$	12	\$	79	\$	311	\$	52	\$	106	\$	52	\$	40	\$	774	
Total	\$	2,306		4,304	\$	3,853	\$	4,226	\$	4,921	\$	6,992	\$	7,322	\$	6,067	\$		\$	6,729	\$		\$		\$	64,321	

^{*} Land classification as CWIP Spending for presentation purposes only, not subject to AFUDC treatment offered to CWIP Projects eligible for AFUDC treatment.

ATTACHMENT 1
Schedule EFG-M&M-3
Page 2 of 3

Cash Flows (\$000s)	Jan Fe		Feb		Mar		Apr		May		Jun		July		Aug		Sept		Oct		Nov		Dec		Total	
Program Year - 2014																										
Direct In-Service	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
CWIP Spending	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	1	\$	1	\$	4	\$	7	
<u>COR</u>	\$ 	\$		\$		\$		\$		\$		\$		\$		\$		\$		\$	_	\$		\$	<u>-</u>	
Total	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	1	\$	1	\$	4	\$	7	
Program Year - 2015																										
Direct In-Service	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
CWIP Spending	\$ 4	\$	5	\$	6	\$	8	\$	14	\$	14	\$	5	\$	6	\$	9	\$	192	\$	166	\$	(89)	\$	341	
COR	\$ 	\$		\$		\$		\$		\$		\$		\$		\$		\$		\$		\$		\$		
Total	\$ 4	\$	5	\$	6	\$	8	\$	14	\$	14	\$	5	\$	6	\$	9	\$	192	\$	166	\$	(89)	\$	341	
Program Year - 2016																										
Direct In-Service	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
CWIP Spending	\$ 16	\$	22	\$	28	\$	43	\$	33	\$	72	\$	10	\$	27	\$	16	\$	32	\$	7	\$	4	\$	311	
COR	\$ 	\$		\$		\$		\$		\$		\$		\$		\$		\$		\$	_	\$		\$		
Total	\$ 16	\$	22	\$	28	\$	43	\$	33	\$	72	\$	10	\$	27	\$	16	\$	32	\$	7	\$	4	\$	311	
Program Year - 2017																										
Direct In-Service	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
CWIP Spending	\$ 8	\$	6	\$	7	\$	(363)	\$	329	\$	700	\$	2,550	\$	1,792	\$	2,987	\$	3,698	\$	4,909	\$	2,626	\$	19,248	
<u>COR</u>	\$ 	\$		\$		\$		\$		\$		\$		\$	0	\$	2	\$	4	\$	9	\$	1	\$	16	
Total	\$ 8	\$	6	\$	7	\$	(363)	\$	329	\$	700	\$	2,550	\$	1,792	\$	2,989	\$	3,702	\$	4,918	\$	2,627	\$	19,264	
Program Year - 2018																										
Direct In-Service	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
CWIP Spending	\$ 690	\$	701	\$	1,936	\$	3,892	\$	2,912	\$	1,928	\$	4,540	\$	3,903	\$	2,500	\$	2,634	\$	2,863	\$	1,472	\$	29,970	
COR	\$ 3	\$	1	\$		\$		\$	1	\$	4	\$	79	\$	311	\$	50	\$	102	\$	43	\$	40	\$	634	
Total	\$ 692	\$	701	\$	1,936	\$	3,892	\$	2,912	\$	1,932	\$	4,620	\$	4,213	\$	2,550	\$	2,736	\$	2,906	\$	1,511	\$	30,604	
Program Year - 2019																										
Direct In-Service	\$ -	\$	-	\$	-	\$	627	\$	1,576	\$	4,265	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	6,468	
CWIP Spending	\$ 1,539	\$	2,161	\$	1,808	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	5,508	
<u>COR</u>	\$ 36	\$	13	\$	4	\$	18	\$	45	\$	8	\$		\$		\$		\$		\$		\$		\$	124	
Total	\$ 1,576	\$	2,174	\$	1,813	\$	645	\$	1,621	\$	4,272	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	12,101	
Totals																										
Direct In-Service	\$ -	\$	-	\$	-	\$	627		1,576	\$	4,265		-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	6,468	
CWIP Spending	\$ 2,256	\$	2,895	\$	3,786	\$	3,581	\$	3,288	\$	2,715	\$	7,105	\$	5,728	\$	5,513	\$	6,556	\$	7,947	\$	4,017	\$	55,386	
COR	\$ 39	\$	13	\$	4	\$	18	\$	46	\$	12	\$	79	\$	311	\$	52	\$	106	\$	52	\$	40	\$	774	
Total	\$ 2,295	\$	2,908	\$	3,790	\$	4,226	\$	4,910	\$	6,991	\$	7,184	\$	6,040	\$	5,565	\$	6,663	\$	7,999	\$	4,057	\$	62,627	

Page 3 of 3

Cash Flows (\$000s)		Jan	Feb	r	Vlar	Apr	ı	May		Jun		July		Aug	9	Sept	Oct		Nov	Dec	Total
Program Year - 2014																					
Direct In-Service	\$	-	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -
CWIP Spending	\$	-	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -
COR	\$		\$ 	\$		\$ 	\$ \$		\$ \$	<u>-</u>	\$		\$ \$		\$ \$	<u> </u>	\$ 	\$ \$		\$ 	\$
Total	\$	-	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -
Program Year - 2015																					
Direct In-Service	\$	-	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -
CWIP Spending	\$	-	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -
<u>COR</u>	\$		\$ 	\$		\$ 	\$ \$		\$ \$		\$		\$ \$		\$	_	\$ 	\$		\$ 	\$
Total	\$	-	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -
Program Year - 2016																					
Direct In-Service	\$	-	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -
CWIP Spending	\$	-	\$ -	\$	-	\$ -	\$ \$ \$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -
COR	\$		\$ 	\$		\$ 	\$		\$ \$		\$		\$ \$		\$	_	\$ 	\$		\$ 	\$
Total	\$	-	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -
Program Year - 2017																					
Direct In-Service	\$	-	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -
CWIP Spending	\$	-	\$ -	\$	-	\$ 4		7	\$	6	\$		\$	14	\$	5	\$ 52	\$	65	\$ 46	\$ 217
<u>COR</u>	\$		\$ 	\$		\$ 	\$ \$		\$ \$		\$		\$ \$		\$		\$ 	\$		\$ 	\$
Total	\$	-	\$ -	\$	-	\$ 4	\$	7	\$	6	\$	17	\$	14	\$	5	\$ 52	\$	65	\$ 46	\$ 217
Program Year - 2018																					
Direct In-Service	\$	-	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -
CWIP Spending	\$	11	1,395	\$	63	\$ (4)	\$	4	\$	(5) \$	120		13	\$	3	\$ 14	\$	-	\$ (139)	1,476
<u>COR</u>	\$		\$ 	\$		\$ 	\$		\$		\$		\$		\$		\$ 	\$		\$ 	\$
Total	\$	11	\$ 1,395	\$	63	\$ (4)	\$	4	\$	(5) \$	120	\$	13	\$	3	\$ 14	\$	-	\$ (139)	\$ 1,476
Program Year - 2019																					
Direct In-Service	\$	-	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -
CWIP Spending	\$	0	\$ 1	\$	0		\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ 1
<u>COR</u>	\$		\$ 	\$		\$ 	\$		\$ \$		\$		\$		\$		\$ 	\$		\$ 	\$
Total	\$	0	\$ 1	\$	0	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ 1
Totals																					
Direct In-Service	\$	-	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -
CWIP Spending	\$	11	\$ 1,396	\$	63	\$ 0	\$	11	\$	1	\$	138	\$	27	\$	8	\$ 66	\$	65	\$ (93)	\$ 1,693
COR	\$		\$ 	\$		\$ 	\$		\$		\$		\$		\$		\$ 	\$		\$ 	\$
Total	\$	11	\$ 1,396	\$	63	\$ 0	\$	11	\$		\$	138		27		8	\$ 66	\$	65	\$ (93)	\$ 1,693
* - : f: + : CM/ID C	I C .					 	IDC +-				NAUD F		-1:-:1-		11004						

^{*} Land classification as CWIP Spending for presentation purposes only, not subject to AFUDC treatment offered to CWIP Projects eligible for AFUDC treatment.

STATE OF NEW JERSEY BOARD OF PUBLIC UTILITIES

In The Matter of the Petition of Public Service Electric and Gas Company for Approval of Electric Base Rate Adjustments Pursuant to the Madison 4kV Substation Project

BPU	Docket No.	
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DIRECT TESTIMONY

OF

STEPHEN SWETZ

SR. DIRECTOR – CORPORATE RATES AND REVENUE REQUIREMENTS

April 30, 2019

1 2 3 4 5	PUBLIC SERVICE ELECTRIC AND GAS COMPANY DIRECT TESTIMONY OF STEPHEN SWETZ SENIOR DIRECTOR – CORPORATE RATES AND REVENUE REQUIREMENTS
6	Q. Please state your name, affiliation and business address.
7	A. My name is Stephen Swetz, and I am the Senior Director - Corporate Rates and
8	Revenue Requirements for PSEG Services Corporation. My principal place of business is 80
9	Park Plaza, Newark, New Jersey 07102. My credentials are set forth in the attached
10	Attachment 2, Schedule SS-M&M-1.
11 12	Q. Please describe your responsibilities as the Senior Director – Corporate Rates and Revenue Requirements for PSEG Services Corporation.
13	A. As Senior Director - Corporate Rates and Revenue Requirements, my primary duties
14	are to plan, develop and direct Public Service Electric and Gas Company's (PSE&G or the
15	Company) calculation of electric and gas revenue requirements for the Company's base rates
16	as well as those for all cost recovery clauses. I also direct the retail pricing strategies, retail
17	rate design, embedded and marginal cost studies, and development and interpretation of tariff
18	provisions.
19 20	 Q. What is the purpose of your direct testimony in this proceeding? A. My testimony provides details of the calculation for the revenue requirement
21	associated with the Madison and Marshall (M&M) Substation, the associated cost recovery
22	methodology, and rate design for the M&M Petition filed with the New Jersey Board of
23	Public Utilities (BPU or the Board). This testimony also provides detailed schedules setting

- 1 forth the projected revenue requirement, rates and bill impacts associated with the M&M
- 2 capital investment in the M&M substation expected to be incurred through June 30, 2019.

3 Q. Please briefly discuss the genesis of the M&M cost recovery filing.

- 4 A. The filing reflects PSE&G's recovery of and on the Madison and Marshall Substation
- 5 capital investment that was incurred from October 1, 2014 through June 30, 2019. The
- 6 substations were initially part of the Energy Strong Program (ES Program) approved by the
- 7 Board in Docket Nos. EO13020155 & GO13020156 on May 21, 2014. However, due to a
- 8 scope change related to the raise and rebuild of the M&M Substations, the investments were
- 9 to be recovered outside of ES Program.

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This filing is being made pursuant to the Agreement Regarding Withdrawal of Objection (Agreement), dated November 30, 2016. As stated on paragraph 6d of the Agreement, "If part or all of the M&M project shall be in service after the end of six months after the end of the test year in the Next Base Case, the Next Base Case shall remain open to reflect those reasonable and prudent costs in base rates at a later date. If the Next Base Case remains open for this purpose, PSE&G and Rate Counsel agree to support a reasonably timely resolution of that rate adjustment matter consistent with the time frames used in other infrastructure related rate adjustments." The M&M project was transferred into service in April 2019, more than six months after the end of the Company's 2018 base rate case test year but less than one year after the test year.

- 1 Q. Please briefly describe PSE&G's proposed M&M cost recovery methodology.
- 2 A. PSE&G's cost recovery proposal for the M&M Substations is consistent with the
- 3 cost recovery mechanism for the electric portion of ES. The details of the costs to be
- 4 recovered, as well as the mechanism to recover such costs, are set forth in this testimony.
- 5 Q. How does PSE&G propose to calculate the revenue requirements?
- 6 A. PSE&G proposes to calculate the revenue requirements associated with the M&M
- 7 Substations costs using the following formula:
- 8 Revenue Requirements = ((After Tax Cost of Capital * Rate Base) + Net of
- 9 Tax Amortization and/or Depreciation + Tax Adjustment)* Revenue Factor
- This calculation is the same as the revenue requirements calculation in PSE&G's ES
- 11 Program. Given the M&M project is in-service and substantially complete, the Company is
- proposing to recover the revenue requirements through this rate adjustment filing as further
- described below.
- 14 Q. Please describe the components and defined terms in PSE&G's proposed
- 15 revenue requirement calculation.
- 16 A. The following is a description of each term proposed in PSE&G's revenue
- 17 requirement calculation.
- The term "Cost of Capital" is the weighted average cost of capital (WACC) for the
- 19 M&M Substations. Per the ES Order, the WACC for the Energy Strong Rate Adjustment
- 20 Mechanisms (ESAMs) was 7.24%, or 6.32% on an after-tax basis, which is based on a
- 21 Return on Equity of 9.75% and a cost of debt of 4.60%. As a result of the Tax Cuts and Jobs
- 22 Act and the approval of the Company's 2018 base rate case, the WACC proposed for the

- 1 M&M Substations rate adjustment is 6.99%, or 6.48% on an after-tax basis, which is based
- on a Return on Equity of 9.60% and a cost of debt of 3.96%. Attachment 2, Schedule SS-
- 3 M&M-3 shows the calculation of the current After-Tax WACC utilized in the revenue
- 4 requirement calculation.
- 5 The term "Rate Base" refers to Gross Plant less the associated accumulated
- 6 depreciation and/or amortization and less Accumulated Deferred Income Taxes (ADIT).
- 7 Gross Plant is equal to all Plant In-Service, Construction Work in Progress (CWIP) that is
- 8 transferred into Service, property acquisition, and Allowance of Funds Used during
- 9 Construction (AFUDC) both debt and equity components. Gross Plant also includes the
- land purchase required to upgrade the Madison station.
- The book recovery of the M&M Substations will be based on the Board approved
- depreciation rates in effect as a result from PSE&G's 2018 Base Rate Case proceeding. The
- only asset classes associated with the M&M Substations are Station Equipment and Land.
- 14 Station Equipment is depreciated at a rate of 2.05% while land is not depreciated.
- ADIT is calculated as Book Depreciation (Tax Basis) less Tax Depreciation,
- multiplied by the Company's effective corporate tax rate, which is currently 28.11%. The
- 17 Station Equipment is depreciated for tax purposes over the 20 year Modified Accelerated
- 18 Cost Recovery System (MARCS). Cost of Removal expenditures are fully depreciated (i.e.
- 19 100%) in the year incurred for tax purposes. The "Net of Tax Depreciation and/or
- 20 Amortization" allows for recovery of the Company's investment in the substation assets over
- 21 its useful book life. PSE&G proposes to depreciate the M&M substations in accordance with
- 22 the Company's BPU approved depreciation rates. As the M&M Substations are CWIP

projects that accrue AFUDC because they are not yet in service, there is no tax deduction for the equity portion of the capitalized AFUDC. As a result, the net of tax depreciation expense is calculated at the depreciation expense associated with the Gross Plant (defined above), excluding the equity portion of AFUDC, multiplied by one minus the current tax rate. Since the equity portion of AFUDC will not be included in the tax basis of the Program assets, the equity portion must be grossed-up for taxes in order for the Company to earn its allowed rate of return.

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The term "Tax Adjustment" refers to any applicable tax items that may impact the revenue requirement calculation for the Program. For the M&M Substations, like that of the ES Program, the tax adjustment forecasted for the program includes the flow through of cost of removal expenditures on pre-1981 assets. The tax expense for electric cost of removal expenditures associated with pre-1981 assets are currently flowed through to ratepayers over a five year amortization period rather than normalized over the life of the asset as is the tax treatment for post-1981 electric cost of removal expenditures. The tax flow-through methodology for pre-1981 electric cost of removal expenditures is applied to M&M Substation's cost of removal expenditures on pre-1981 assets to be consistent with the treatment of base rate assets. The Tax Adjustment for the M&M revenue requirement is calculated as the Cost of Removal expenditures multiplied by the percentage of electric pre-1981 asset retirements for the year and divided by five for the five-year amortization period. For forecasting purposes, the percentage of electric assets with a vintage before 1981 is estimated at 11.36%, which is based on 2018 retirements.

- The "Revenue Factor" adjusts the Revenue Requirement Net of Tax for federal and state income taxes and the BPU and Rate Counsel (RC) Annual Assessments Fees. The BPU/RC Assessment Expenses consist of payments, based upon a percentage of revenues collected (updated annually), to the State based on PSE&G's electric operating revenue. The Company has utilized the respective BPU and RC assessment rates based on the 2019 fiscal year assessment.
- 7 Q. Please describe the type of expenditures to be included in Net Rate Base.
- 8 A. The M&M filing includes requests for recovery in base rates of all capital
- 9 expenditures associated with the M&M substations, including actual costs of engineering,
- design and construction, cost of removal (net of salvage) and property acquisition costs,
- actual labor, materials, overhead, and capitalized AFUDC associated with the projects (the
- 12 "Capital Investment Costs"). Capital Investment Costs were recorded, during construction,
- in an associated CWIP account upon the respective project being deemed used and useful.
- 14 Q. Were the M&M expenditures eligible for AFUDC?
- 15 A. Yes, as most of the capital investments meet the Company's criteria for accrual of
- 16 AFUDC, those capital investments were AFUDC eligible. AFUDC is a component of
- 17 construction costs representing the net cost of borrowed funds and an equity return rate used
- during the period of construction. Under the Company's current policy, only projects that
- have both costs exceeding \$5,000 and a construction period longer than 60 days are eligible
- 20 for accruing AFUDC.

- The property procurement under this Program is not eligible to accrue AFUDC
- 2 because AFUDC is a component of construction costs. However, the vast majority of
- 3 M&M's projects required more than 60 days of construction and therefore accrued AFUDC.
- 4 Q. How was AFUDC calculated on eligible projects?
- 5 A. The Company accrues AFUDC on eligible projects at a rate that is calculated utilizing
- 6 the "full FERC method" as set forth in FERC Order 561. AFUDC is accrued monthly and
- 7 added to CWIP until the project is placed into service¹.
- 8 Q. Will the Company utilize AFUDC once the projects are placed into service?
- 9 A. No, PSE&G does not accrue any additional AFUDC on projects once they are placed
- 10 into service.
- 11 Q. What is the source of the capital expenditures you use to calculate the revenue
- 12 requirement?
- 13 A. The monthly cash flow for the substations was provided by Mr. Edward Gray. See
- 14 Attachment 1, Schedule EFG-M&M-3.
- 15 Q. Is there a schedule showing the calculation of the revenue requirements?
- 16 A. Yes. See Attachment 2, Schedule SS-M&M-2 for the calculation of the M&M
- 17 Substations revenue requirement based on actual investment through March 31, 2019 and
- 18 forecasted investment from April 1, 2019 through June 30, 2019 as shown in Attachment 1,
- 19 Schedule EFG-M&M-3.

¹ Construction Work in Progress (CWIP) is an account into which the costs are recorded that are directly associated with constructing an asset which is not yet in-service.

- 1 Q. What is the electric revenue requirement for the rate adjustment?
- 2 A. The electric revenue requirement for the base rate adjustment is expected to be for
- 3 plant in-service from Board approval through June 30, 2019, and is currently forecasted to be
- 4 \$7.4 million. See Attachment 2, Schedule SS-M&M-2.
- 5 Q. What rate design is the Company proposing to use for this base rate adjustment?
- 7 A. The detailed calculations supporting the electric rate design for the forecasted base
- 8 rate adjustment is shown in Attachment 2, Schedule SS-M&M-5. The rate design for the base
- 9 rate adjustments shall use the rate design methodology and billing determinants approved by
- the Board in PSE&G's 2018 base rate case. The rates as a result of the base rate adjustment
- are shown in Attachment 2, Schedule SS-M&M-5.
- 12 Q. What are the annual rate impacts to the typical residential customer?
- 13 A. Based upon the forecasted rates shown in Attachment 2, Schedule SS-M&M-5, the
- 14 typical annual bill impacts for a typical residential customer as well as rate class average
- customers compared to rates as of April 18, 2019 are set forth in Attachment 2, Schedule SS-
- 16 M&M-6.² Based on the estimated base rate adjustment revenue requirement provided in
- 17 Attachment 2, Schedule SS-M&M-2, the annual impact of the proposed rates to the typical
- residential electric customer who uses 740 kWh in a summer month and 6,920 kWh annually
- is an increase of \$3.24 or approximately 0.26%.

²The bill impacts assume that customers receive commodity service from PSE&G under the applicable Basic Generation Service (BGS).

- 1 Q. Will the Company hold public comment hearings?
- 2 A. Yes. A proposed form of public notice of filing and public hearings, including the
- 3 forecasted rates and bill impacts attributable to the proposed implementation of the Program
- 4 are set forth in Attachment 3 to the Petition.
- 5 Q. Does this conclude your testimony?
- 6 A. Yes, it does.

SCHEDULE INDEX

Attachment 2, Schedule SS-M&M-1	Credentials of Stephen Swetz
Attachment 2, Schedule SS-M&M-2	Revenue Requirements Calculation
Attachment 2, Schedule SS-M&M-3	Weighted Average Cost of Capital (WACC)
Attachment 2, Schedule SS-M&M-4	Revenue Factor Calculation
Attachment 2, Schedule SS-M&M-5	Proof of Revenue
Attachment 2, Schedule SS-M&M-6	Bill Impacts

2 OF STEPHEN SWETZ 3 4 SR. DIRECTOR-CORPORATE RATES AND REVENUE REQUIREMENTS 5 6 My name is Stephen Swetz and I am employed by PSEG Services 7 Corporation. I am the Sr. Director - Corporate Rates and Revenue Requirements where 8 my main responsibility is to contribute to the development and implementation of electric 9 and gas rates for Public Service Electric and Gas Company (PSE&G, the Company). 10 **WORK EXPERIENCE** 11 I have over 30 years of experience in Rates, Financial Analysis and 12 Operations for three Fortune 500 companies. Since 1991, I have worked in various 13 positions within PSEG. I have spent most of my career contributing to the development 14 and implementation of PSE&G electric and gas rates, revenue requirements, pricing and 15 corporate planning with over 20 years of direct experience in Northeastern retail and 16 wholesale electric and gas markets. 17 As Sr. Director of the Corporate Rates and Revenue Requirements 18 department, I have submitted pre-filed direct cost recovery testimony as well as oral 19 testimony to the New Jersey Board of Public Utilities and the New Jersey Office of 20 Administrative Law for base rate cases, as well as a number of clauses including

infrastructure investments, renewable energy, and energy efficiency programs. A list of

my prior testimonies can be found on pages 3 and 4 of this document. I have also

CREDENTIALS

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- 1 contributed to other filings including unbundling electric rates and Off-Tariff Rate
- 2 Agreements. I have had a leadership role in various economic analyses, asset valuations,
- 3 rate design, pricing efforts and cost of service studies.
- I am an active member of the American Gas Association's Rate and
- 5 Strategic Issues Committee, the Edison Electric Institute's Rates and Regulatory Affairs
- 6 Committee and the New Jersey Utility Association (NJUA) Finance and Regulatory
- 7 Committee.

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EDUCATIONAL BACKGROUND

- 9 I hold a B.S. in Mechanical Engineering from Worcester Polytechnic
- 10 Institute and an MBA from Fairleigh Dickinson University.

LIST OF PRIOR TESTIMONIES

SCHEDULE SS-M&M-1 PAGE 3 OF 4

Company Company G GR19040522 written Apr-19 Case / Topic	h Roll-in hth Roll-in
Public Service Electric & Gas Company E ER19040523 written De-18 Non-Utility Generation Charge (NGC) / Cost Recovery Public Service Electric & Gas Company F/G GR18101113 - GO18101112 written De-18 Non-Utility Generation Charge (NGC) / Cost Recovery Public Service Electric & Gas Company F/G GR18121258 written Nov-18 Clean Energy Future - Energy Efficiency Program Approval Public Service Electric & Gas Company F/G GR18070831 written Jul-18 Remediation Adjustment Charge-RAC 26 Public Service Electric & Gas Company F/G ER18070689 written Jul-18 Gas System Modernization Program (GSMP) - Third Roll-In Public Service Electric & Gas Company E ER18060681 written Jul-18 Gas System Modernization Program (GSMP) - Third Roll-In Public Service Electric & Gas Company E GR18060695 written Jul-18 Gas System Modernization Program (GSMP) - Third Roll-In Public Service Electric & Gas Company E GR18060695 written Jul-18 Solar Pilot Recovery Charge (FPRC-Including CA, DR. El Public Service Electric & Gas Company E G GR18060695 written Jul-18 Weather Normalization Charge / Cost Recovery Public Service Electric & Gas Company E G GR18060695 written Jul-18 Energy Strong II / Revenue Requirements & Rate Design - Public Service Electric & Gas Company E G GR18000383 GR180040359 written Mar-18 Margin Adjustment Charge (MAC) / Cost Recovery Public Service Electric & Gas Company E G GR18000039 written Mar-18 Energy Strong / Revenue Requirements & Rate Design - Epide Service Electric & Gas Company E G GR18000039 written Mar-18 Remediation Adjustment Charge (MAC) / Cost Recovery Public Service Electric & Gas Company E G GR18000039 written Mar-18 Remediation Adjustment Charge RAC 25 Public Service Electric & Gas Company E G GR18000039 written Jul-19 Sas Rate Proceeding / Cost of Service & Rate Design - Service Public Service Electric & Gas Company E G GR17070775 written Jul-19 Gas System Modernization Program (GSMP) - Second Roll-In Public Service Electric & Gas Company E G GR17070775 written Jul-19 Gas System Modernization Program (GSMP) - Seco	h Roll-in hth Roll-in
Public Service Electric & Gas Company E/G E018101113 - GO18101112 written Dec-18 Non-Utility Generation Charge (NGC) / Cost Recovery Public Service Electric & Gas Company E/G GR180706831 written Jul-18 Remediation Adjustment Charge (NGC) / Cost Recovery Public Service Electric & Gas Company E/G ER18070688 - GR180706891 written Jul-18 Green Programs Recovery Charge (SPRC) - Including CA, DR, EI Public Service Electric & Gas Company E/G ER18070688 - GR180706891 written Jul-18 Green Programs Recovery Charge (SPRC) - Including CA, DR, EI Public Service Electric & Gas Company E/G E0180606275 written Jul-18 Solar Pilot Recovery Public Service Electric & Gas Company E/G E018060629 - GO18060630 written Jul-18 Solar Pilot Recovery Charge (SPRC-Solar Loan II) / Cost Recovery Public Service Electric & Gas Company E/G E018060629 - GO18060630 written Jul-18 Energy Strong II / Revenue Requirements & Rate Design Public Service Electric & Gas Company E/G E818000231 written Mar-18 Energy Strong II / Revenue Requirements & Rate Design E91801 Service Electric & Gas Company E/G E818000231 written Mar-18 Energy Strong II / Revenue Requirements & Rate Design E91801 Service Electric & Gas Company E/G GR18000031 written Mar-18 Energy Strong / Revenue Requirements & Rate Design E91801 Service Electric & Gas Company E/G GR18000031 written Mar-18 Energy Strong / Revenue Requirements & Rate Design E91801 Service Electric & Gas Company E/G GR18000031 written Feb-18 Tax Cuts and Job Acts of 2017 Public Service Electric & Gas Company E/G GR18000030 written Jul-17 Gas System Modernization Program II (GSMP) I Public Service Electric & Gas Company E/G GR18000030 written Jul-17 Gas System Modernization Program II (GSMP) I Public Service Electric & Gas Company E/G GR18000030 written Jul-17 Gas System Modernization Program II (GSMP) I Public Service Electric & Gas Company E/G GR18000030 written Jul-17 Gas System Modernization Program II (GSMP) I Public Service Electric & Gas Company E/G GR18000030 written Jul-17 Gas System Modernization Pro	h Roll-in hth Roll-in
Public Service Electric & Gas Company E/G GR18121258 written Nov-18 Clean Energy Future - Energy Efficiency Program Approval Public Service Electric & Gas Company G GR18070831 written Jul-18 Remediation Adjustment Charge-RAC 26 Public Service Electric & Gas Company E/G ER1807088- GR18070689 written Jul-18 Gas System Modernization Program (GSMP) - Third Roll-in written Jul-18 Gas System Modernization Program (GSMP) - Third Roll-in Written Jul-18 Gas System Modernization Program (GSMP) - Third Roll-in Written Jul-18 Gas System Modernization Program (GSMP) - Third Roll-in Written Jul-18 Gas Company G GR18060655 written Jul-18 Solar Pilot Recovery Charge (GSMPC) - Including CA, DR, Et SALEXT II, SLII, JCOST Recovery Charge (GSMPC) - Including CA, DR, Et SALEXT II, SLII, JCOST Recovery Charge (GSMPC) - Including CA, DR, Et SALEXT II, SLII, JCOST Recovery Charge (GSMPC) - Including CA, DR, Et SALEXT II, SLII, JCOST Recovery Charge (GSMPC) - Including CA, DR, Et SALEXT II, SLII, JCOST Recovery Public Service Electric & Gas Company E/G GR18060625 written Jul-18 Energy Strong II / Revenue Requirements & Rate Design Public Service Electric & Gas Company E/G GR180403539 written Mar-18 Energy Strong II / Revenue Requirements & Rate Design - Eight Public Service Electric & Gas Company E/G GR180403539 written Mar-18 Energy Strong (Revenue Requirements & Rate Design - Eight Public Service Electric & Gas Company E/G GR18040359 written Jul-18 Energy Strong (Revenue Requirements & Rate Design - Eight Public Service Electric & Gas Company E/G GR18010039 written Jul-18 Energy Strong (Revenue Requirements & Rate Design - Public Service Electric & Gas Company E/G ER18010029 and GR18010030 written Jul-17 Energy Strong (Revenue Requirements & Rate Design - Service Electric & Gas Company G GR17070756 written Jul-17 Gas System Modernization Program (IGSMP II) Public Service Electric & Gas Company G GR17070725 written Jul-17 Gas System Modernization Program (IGSMP III) Public Service Electric & Gas Company E/G ER17070724 - GR17070725 wri	h Roll-in hth Roll-in
Public Service Electric & Gas Company E/G ER18070831 written Jul-18 Remediation Adjustment Charge-RAC 26 Public Service Electric & Gas Company E/G ER18070688 - GR18070689 written Jul-18 Gas System Modernization Program (GSMP) - Third Roll-in Public Service Electric & Gas Company E E ER18060681 written Jul-18 Gas System Modernization Program (GSMP) - Third Roll-in Public Service Electric & Gas Company G GR18060675 written Jul-18 Solar Pilot Recovery Charge (SPRC-Solar Loan I) / Cost Recovery Public Service Electric & Gas Company E/G E018060675 written Jul-18 Solar Pilot Recovery Charge (SPRC-Solar Loan I) / Cost Recovery Public Service Electric & Gas Company E/G E018060605 written Jul-18 Energy Strong II / Revenue Requirements & Rate Design Public Service Electric & Gas Company E/G ER18040358 - GR18040359 written Mar-18 Margin Adjustment Charge (MAC) / Cost Recovery Public Service Electric & Gas Company E/G ER18040358 - GR18040359 written Mar-18 Energy Strong / Revenue Requirements & Rate Design Public Service Electric & Gas Company E/G ER18040351 written Mar-18 Energy Strong / Revenue Requirements & Rate Design Public Service Electric & Gas Company E/G ER18010029 and GR18010030 written Feb-18 Tax Cuts and Job Acts of 2017 Public Service Electric & Gas Company E/G ER18010029 and GR18010030 written Jan-18 Remediation Adjustment Charge RAC 25 Public Service Electric & Gas Company G GR17070776 written Jul-17 Energy Strong / Revenue Requirements & Rate Design Public Service Electric & Gas Company G GR17070775 written Jul-17 Energy Strong / Revenue Requirements & Rate Design Public Service Electric & Gas Company G GR17070775 written Jul-17 Gas System Modernization Program II (GSMP II) Public Service Electric & Gas Company G GR17070725 written Jul-17 Gas System Modernization Program II (GSMP II) Public Service Electric & Gas Company E/G ER1700324 - GR1700025 written Jul-17 Gas System Modernization Charge / Cost Recovery Public Service Electric & Gas Company E/G ER17003324 - GR1700325 written Jul-17 Gas System Moderniz	h Roll-in hth Roll-in
Public Service Electric & Gas Company E/G ER18070688 - GR18070689 written Jul-18 Remediation Adjustment Charge-RAC 26 Public Service Electric & Gas Company E/G ER18070688 - GR18070689 written Jul-18 Gas System Modernization Program (GSMP) - Third Roll-In Public Service Electric & Gas Company E R18060681 written Jul-18 SAAEXT II, SLII, SLII, SLIII / Cost Recovery Public Service Electric & Gas Company E / G E018060675 written Jul-18 Solar Pilot Recovery Charge (SPRC-Solar Loan II / Cost Recovery Public Service Electric & Gas Company E / G E01806069- GO18060630 written Jul-18 Energy Strong II / Revenue Requirements & Rate Design - Public Service Electric & Gas Company E / G E01806069- GO18060630 written Jul-18 Energy Strong II / Revenue Requirements & Rate Design - Public Service Electric & Gas Company E / G E01806069- GO18060630 written Mar-18 Energy Strong II / Revenue Requirements & Rate Design - Public Service Electric & Gas Company E / G E01806069- GO18060630 written Mar-18 Energy Strong II / Revenue Requirements & Rate Design - Public Service Electric & Gas Company E / G E01806069- GO18060630 written Mar-18 Energy Strong / Revenue Requirements & Rate Design - Eight Public Service Electric & Gas Company E / G E01806069- GO18060630 written Feb-18 Tax Cuts and Job Acts of 2017 Public Service Electric & Gas Company E / G E01806069- GO18060600 written Jul-17 Energy Strong / Revenue Requirements & Rate Design - Public Service Electric & Gas Company E / G E018060600 written Jul-17 Energy Strong / Revenue Requirements & Rate Design - Public Service Electric & Gas Company G GR17070775 written Jul-17 Gas System Modernization Program (GSMP) - Second Roll-In Public Service Electric & Gas Company G GR17070775 written Jul-17 Gas System Modernization Program II (GSMP II) Public Service Electric & Gas Company E / G E0180606790 written Jul-17 Gas System Modernization Program II (GSMP II) Public Service Electric & Gas Company E / G E0180606790 written Jul-17 Gas System Modernization Charge / Cost Recovery Public Service Elect	h Roll-in hth Roll-in
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Public Service Electric & Gas Company E ER18060681 written Jun-18 Green Programs Recovery Charge (GPRC)-Including CA, DR, EI Public Service Electric & Gas Company G GR18060675 written Jun-18 Solar Pitol Recovery Charge (SPRC-Solar Loan I) / Cost Recovery Public Service Electric & Gas Company E/G E018060629 - GO18060630 written Jun-18 Weather Normalization Charge (SPRC-Solar Loan I) / Cost Recovery Public Service Electric & Gas Company E/G ER18040358 - GR1806065 written Jun-18 Energy Strong II / Revenue Requirements & Rate Design Public Service Electric & Gas Company E/G ER18040353 - Written Mar-18 Margin Adjustment Charge (MAC) / Cost Recovery Public Service Electric & Gas Company E/G GR18020031 written Mar-18 Inergy Strong / Revenue Requirements & Rate Design - Eightl Public Service Electric & Gas Company E/G GR18020093 written Public Service Electric & Gas Company E/G ER18010029 and GR18010300 written Jan-18 Remediation Adjustment Charge-RAC 25 Public Service Electric & Gas Company E ER17101027 written Sep-17 Base Rate Proceeding / Cost of Service & Rate Design Public Service Electric & Gas Company G GR17070775 written Jul-17 Gas System Modernization Program II (GSMP1) Public Service Electric & Gas Company E/G ER17070724 - GR17070725 written Jul-17 Gas System Modernization Program II (GSMP1) Public Service Electric & Gas Company E/G ER17070723 written Jul-17 Gas System Modernization Charge (GSMP1) - Second Roll-In Public Service Electric & Gas Company E/G ER17030324 - GR17060933 written Jul-17 Weather Normalization Charge (GSMP1) - Second Roll-In Public Service Electric & Gas Company E/G ER17030324 - GR17030325 written Jul-17 Weather Normalization Charge (GSMP) - Second Roll-In Public Service Electric & Gas Company E/G ER17030324 - GR17030325 written Jul-17 Margin Adjustment Charge (GSMC) / Cost Recovery Public Service Electric & Gas Company E/G ER17030324 - GR17030325 written Jul-17 Margin Adjustment Charge (GMC) / Cost Recovery Public Service Electric & Gas Com	h Roll-in hth Roll-in
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Public Service Electric & Gas Company E/G E018060629 - GO18060630 written Jun-18 Weather Normalization Charge / Cost Recovery Public Service Electric & Gas Company G GR18060655 written Jun-18 Energy Strong I / Revenue Requirements & Rate Design Public Service Electric & Gas Company E/G ER18040358 - GR18040359 written Mar-18 Margin Adjustment Charge (MAC) / Cost Recovery Public Service Electric & Gas Company E/G ER18030231 written Mar-18 Energy Strong / Revenue Requirements & Rate Design - Eight Public Service Electric & Gas Company E/G ER18010029 and GR18010030 written Jan-18 Remediation Adjustment Charge-RAC 25 Public Service Electric & Gas Company E/G ER18010029 and GR18010030 written Jan-18 Remediation Adjustment Charge-RAC 25 Public Service Electric & Gas Company E/G GR1701076 written Jul-17 Gas System Modernization Program II (GSMP II) Public Service Electric & Gas Company G GR17070775 written Jul-17 Gas System Modernization Program II (GSMP II) Public Service Electric & Gas Company E/G ER17070724 - GR17070725 written Jul-17 Gas System Modernization Program II (GSMP II) Public Service Electric & Gas Company E/G ER17070724 - GR17070725 written Jul-17 Weather Normalization Charge / Cost Recovery Public Service Electric & Gas Company E/G ER17070724 written Jul-17 Solar Plot Recovery Charge (DPRC)-Including CA, DR, El GANCY II, SUL SUL / Cost Recovery Charge (DPRC)-Including CA, DR, El GANCY II, SUL SUL / Cost Recovery Charge (DPRC)-Including CA, DR, El GANCY II, SUL SUL / Cost Recovery Charge (DPRC)-Including CA, DR, El GANCY II, SUL SUL / Cost Recovery Public Service Electric & Gas Company E/G ER17030325 written Mar-17 Margin Adjustment Charge (DPRC)-Including CA, DR, El GANCY II, SUL SUL / Cost Recovery Charge (DPRC)-Including CA, DR, El GANCY II, SUL SUL / Cost Recovery Charge (DPRC)-Including CA, DR, El GANCY II, SUL SUL / Cost Recovery Charge (DPRC)-Including CA, DR, El GANCY II, SUL SUL / Cost Recovery Charge (DPRC)-Including CA, DR, El GANCY II, SUL SUL / Cost Recovery Charge (DPRC)-	h Roll-in nth Roll-in ee, eee ext, S4AII, S4AEX1,
Public Service Electric & Gas Company G GR18060605 written Jun-18 Energy Strong I/ Revenue Requirements & Rate Design Public Service Electric & Gas Company E/G ER18040358 - GR18040359 written Mar-18 Margin Adjustment Charge (MAC) / Cost Recovery Public Service Electric & Gas Company E/G GR18020093 written Mar-18 Energy Strong / Revenue Requirements & Rate Design - Eightl Public Service Electric & Gas Company E/G GR18020093 written Public Service Electric & Gas Company E/G ER18010029 and GR18010030 written Jan-18 Remediation Adjustment Charge-RAC 25 Public Service Electric & Gas Company E ER17101027 written Jul-17 Energy Strong / Revenue Requirements & Rate Design - Eightl Public Service Electric & Gas Company G GR17070775 written Jul-17 Energy Strong / Revenue Requirements & Rate Design - Eightl Public Service Electric & Gas Company G GR17070775 written Jul-17 Gas System Modernization Program II (GSMP) - Second Roll-in Public Service Electric & Gas Company E/G ER17070724 - GR17070725 written Jul-17 Weather Normalization Charge / Cost Recovery Public Service Electric & Gas Company E/G ER17070723 written Jul-17 Weather Normalization Charge / Cost Recovery Public Service Electric & Gas Company G GR17060593 written Jul-17 Weather Normalization Charge / Cost Recovery Public Service Electric & Gas Company E/G ER17030324 - GR17030325 written Jul-17 Margin Adjustment Charge (MAC) / Cost Recovery Public Service Electric & Gas Company E/G ER17030324 - GR17030325 written Jul-17 Margin Adjustment Charge (MAC) / Cost Recovery Public Service Electric & Gas Company E/G ER17030324 - GR17030325 written Mar-17 Margin Adjustment Charge (MAC) / Cost Recovery Public Service Electric & Gas Company E/G ER17030324 - GR17030325 written Mar-17 Energy Strong / Revenue Requirements & Rate Design - Sixth Public Service Electric & Gas Company E/G GR16111064 written Nov-16 Societal Benefits Charge (SEC) / Cost Recovery Public Service Electric & Gas Company E/G GR16111064 written Nov-16 Societa	nth Roll-in EE, EEE EXT, S4AII, S4AEXT,
Public Service Electric & Gas Company G GR18060655 written Jun-18 Energy Strong II / Revenue Requirements & Rate Design Public Service Electric & Gas Company E/G ER18040358 - GR18040359 written Mar-18 Margin Adjustment Charge (MAC) / Cost Recovery Public Service Electric & Gas Company E/G GR18020093 written Mar-18 Energy Strong / Revenue Requirements & Rate Design - Eight Public Service Electric & Gas Company E/G GR18020093 written Public Service Electric & Gas Company E/G ER18010029 and GR18010030 written Jan-18 Remediation Adjustment Charge-RAC 25 Public Service Electric & Gas Company E ER17101027 written Sep-17 Base Rate Proceeding / Cost of Service & Rate Design Public Service Electric & Gas Company G GR17070776 written Jul-17 Energy Strong / Revenue Requirements & Rate Design Public Service Electric & Gas Company G GR17070775 written Jul-17 Gas System Modernization Program II (GSMP) - Second Roll-In Public Service Electric & Gas Company G GR17060720 written Jul-17 Gas System Modernization Program II (GSMP) - Second Roll-In Public Service Electric & Gas Company E/G ER17070724 - GR17070725 written Jul-17 Weather Normalization Charge / Cost Recovery Public Service Electric & Gas Company E ER17070723 written Jul-17 Weather Normalization Charge / Cost Recovery Public Service Electric & Gas Company G GR17060593 written Jul-17 Green Programs Recovery Charge (GPRC)-Including CA, DR, Et CAACT II. SLII J. Cost Recovery Public Service Electric & Gas Company E/G ER17030324 - GR17030325 written Mar-17 Margin Adjustment Charge (MAC) / Cost Recovery Public Service Electric & Gas Company E ER17020136 written Mar-17 Energy Strong / Revenue Requirements & Rate Design - Sixth Public Service Electric & Gas Company E ER17020136 written Mar-17 Energy Strong / Revenue Requirements & Rate Design - Sixth Public Service Electric & Gas Company E ER16090918 written Mar-17 Energy Strong / Revenue Requirements & Rate Design - Fifth II Public Service Electric & Gas Company E ER16090918 wri	nth Roll-in EE, EEE EXT, S4AII, S4AEXT,
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Public Service Electric & Gas Company E/G ER18030231 written Mar-18 Energy Strong / Revenue Requirements & Rate Design - Eight Public Service Electric & Gas Company E/G GR18020093 written Feb-18 Tax Cuts and Job Acts of 2017 Public Service Electric & Gas Company E/G ER18010029 and GR18010030 written Jan-18 Remediation Adjustment Charge-RAC 25 Public Service Electric & Gas Company E ER17101027 written Sep-17 Base Rate Proceeding / Cost of Service & Rate Design Public Service Electric & Gas Company G GR17070776 written Jul-17 Energy Strong / Revenue Requirements & Rate Design - Severe Public Service Electric & Gas Company G GR17070775 written Jul-17 Gas System Modernization Program II (GSMP II) Public Service Electric & Gas Company G GR17060720 written Jul-17 Gas System Modernization Program (GSMP) - Second Roll-In Public Service Electric & Gas Company E/G ER17070724 - GR17070725 written Jul-17 Weather Normalization Charge / Cost Recovery Public Service Electric & Gas Company G GR17060593 written Jul-17 Gas System Modernization Charge / Cost Recovery Public Service Electric & Gas Company E/G GR17060593 written Jul-17 Solar Pilot Recovery Charge (EPRC)-Including CA, UK, El CALEXT II. SLII SLIII / Cost Bacovery Public Service Electric & Gas Company E/G ER17030325 written Mar-17 Margin Adjustment Charge (MAC) / Cost Recovery Public Service Electric & Gas Company E/G ER17030325 written Mar-17 Energy Strong / Revenue Requirements & Rate Design - Sixth Public Service Electric & Gas Company E/G GR1611064 written Mar-17 Energy Efficiency 2017 Program Public Service Electric & Gas Company E/G GR1611064 written Service Electric & Gas Company E/G GR1611064	nth Roll-in EE, EEE EXT, S4AII, S4AEXT,
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Public Service Electric & Gas Company E ER17101027 written Sep-17 Base Rate Proceeding / Cost of Service & Rate Design Public Service Electric & Gas Company G GR17070776 written Jul-17 Energy Strong / Revenue Requirements & Rate Design - Sever Public Service Electric & Gas Company G GR17060720 written Jul-17 Gas System Modernization Program II (GSMP II) Public Service Electric & Gas Company E/G ER17070724 - GR17070725 written Jul-17 Weather Normalization Charge / Cost Recovery Public Service Electric & Gas Company E ER17070723 written Jul-17 Green Programs Recovery Charge (GPRC)-Including CA, DR, Et CAAEXT II. SLIII / Cost Paccovary Public Service Electric & Gas Company G GR17060593 written Jul-17 Solar Pilot Recovery Charge (GPRC)-Including CA, DR, Et CAAEXT II. SLIII / Cost Paccovary Public Service Electric & Gas Company E/G ER17030324 - GR17030325 written Jul-17 Solar Pilot Recovery Charge (SPRC-Solar Loan II) / Cost Recover Public Service Electric & Gas Company E/G ER17030324 - GR17030325 written Mar-17 Margin Adjustment Charge (MAC) / Cost Recovery Public Service Electric & Gas Company E/G E014080897 written Mar-17 Energy Strong / Revenue Requirements & Rate Design - Sixth Public Service Electric & Gas Company E/G GR16111064 written Nov-16 Societal Benefits Charge (SBC) / Cost Recovery Public Service Electric & Gas Company E ER16090918 written Sep-16 Remediation Adjustment Charge-RAC 24 Public Service Electric & Gas Company E ER1608078S written Aug-16 Energy Strong / Revenue Requirements & Rate Design - Fifth II Public Service Electric & Gas Company E ER1608078S written Aug-16 Energy Strong / Revenue Requirements & Rate Design - Fifth II Public Service Electric & Gas Company E ER1608078S written Aug-16 Energy Strong / Revenue Requirements & Rate Design - Fifth II Public Service Electric & Gas Company E ER1608078S written Aug-16 Construction of Mason St Substation	ee, eee ext, S4AII, S4AEXT,
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Public Service Electric & Gas Company G GR16070711 written Jul-16 Non-Utility Generation Charge (NGC) / Cost Recovery	
Public Service Electric & Gas Company G COLOGORA written Jul-16 Gas System Modernization Program (GSMP) - First Roll-In	
GR16070617 GR16070617	
Public Service Electric & Gas Company E/G ER16070613 - GR16070614 written Jul-16 Weather Normalization Charge / Cost Recovery	
Public Service Electric & Gas Company E ER16070616 written Jul-16 Green Programs Recovery Charge (GPRC)-Including CA, DR, El	E, EEE Ext, S4AII, S4AEXT,
Public Service Electric & Gas Company G GR16060484 written Jun-16 Solar Pilot Recovery Charge (SPRC-Solar Loan I) / Cost Recover	n/
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Public Service Electric & Gas Company E E016050412 written May-16 Margin Adjustment Charge (MAC) / Cost Recovery Public Service Flectric & Gas Company F C Solar 4 All Extension II (\$4Allext II) / Revenue Requirements &	Rate Design
Public Service Electric & Gas Company E/G ER16030273 GR16030273 written	nate Design
Public Service Electric & Gas Company E/G Nov-15 Energy Strong / Revenue Requirements & Rate Design - Fourt	h Poll in
GR15111294 written	II KOII-III
Public Service Electric & Gas Company E ER15101180 written Sep-15 Remediation Adjustment Charge-RAC 23	
Public Service Electric & Gas Company E/G ER15070757-GR15070758 written Jul-15 Energy Strong / Revenue Requirements & Rate Design - Third	
Public Service Electric & Gas Company E ER15060754 written Jul-15 Green Programs Recovery Charge (GPRC)-Including CA, DR, El	E, EEE EXT, S4AII, S4AEXT,
Public Service Electric & Gas Company G GR15060748 written Jul-15 Solar Pilot Recovery Charge (SPRC-Solar Loan I) / Cost Recove	ry
Public Service Electric & Gas Company G GR15060646 written Jun-15 Weather Normalization Charge / Cost Recovery	
Public Service Electric & Gas Company E/G ER15050558 written May-15 Margin Adjustment Charge (MAC) / Cost Recovery	
Public Service Electric & Gas Company E ER15050558 written May-15 Societal Benefits Charge (SBC) / Cost Recovery	
Public Service Electric & Gas Company E/G ER15030389-GR15030390 written Mar-15 Non-Utility Generation Charge (NGC) / Cost Recovery	
Public Service Electric & Gas Company G GR15030272 written Feb-15 Energy Strong / Revenue Requirements & Rate Design - Secon	nd Roll-in
Public Service Electric & Gas Company E/G GR14121411 written Dec-14 Gas System Modernization Program (GSMP)	
Public Service Electric & Gas Company E/G ER14091074 written Sep-14 Remediation Adjustment Charge-RAC 22	
Public Service Electric & Gas Company E/G E014080897 written Aug-14 Energy Strong / Revenue Requirements & Rate Design - First I	Roll-in
Public Service Electric & Gas Company G ER14070656 written Jul-14 EEE Ext II	
Public Service Electric & Gas Company E/G ER14070651-GR14070652 written Jul-14 Weather Normalization Charge / Cost Recovery Cost Recovery Green Programs Recovery Charge (GPRC)-Including CA, DR, Et	E, EEE Ext. S4All S4AFXT
Public Service Electric & Gas Company E ER14070650 written Jul-14 SLII, SLIII / Cost Recovery	,c ent, J+nii, J+nen1,
Public Service Electric & Gas Company G GR14050511 written May-14 Solar Pilot Recovery Charge (SPRC-Solar Loan I) / Cost Recove	ry
Public Service Electric & Gas Company E/G GR14040375 written Apr-14 Margin Adjustment Charge (MAC) / Cost Recovery	
Public Service Electric & Gas Company E/G ER13070603-GR13070604 written Jun-13 Remediation Adjustment Charge-RAC 21	
Public Service Electric & Gas Company E ER13070605 written Jul-13 Green Programs Recovery Charge (GPRC)-Including DR, EEE, E	.ee ext, ca, S4AII, SLII /
Public Service Electric & Gas Company G GR13070615 written Jun-13 Solar Pilot Recovery Charge (SPRC-Solar Loan I) / Cost Recover	rv
Public Service Electric & Gas Company G GR13070615 written May-13 Weather Normalization Charge / Cost Recovery	1
Fublic Service Electric & Gas Company E/G E013020155-G013020156 written/oral Mar-13 Margin Adjustment Charge (MoC) Cost Recovery	
Public Service Electric & Gas Company G GO12030188 written/oral Mar-13 Energy Strong / Revenue Requirements & Rate Design - Progr	am Approval
Public Service Electric & Gas Company E ER12070599 written Jul-12 Appliance Service / Tariff Support	
Public Service Electric & Gas Company E/G ER12070606-GR12070605 written Jul-12 Solar Pilot Recovery Charge (SPRC-Solar Loan I) / Cost Recove	

LIST OF PRIOR TESTIMONIES

SCHEDULE SS-M&M-1 PAGE 4 OF 4

Company	Utility	Docket	Testimony	Date	
Public Service Electric & Gas Company	E	EO12080721	written/oral	Jul-12	RGGI Recovery Charges (RRC)-Including DR, EEE, EEE Ext, CA, S4All, SLII / Cost Recovery
Public Service Electric & Gas Company	E	EO12080721	written/oral	Jul-12	Solar Loan III (SLIII) / Revenue Requirements & Rate Design - Program Approval
Public Service Electric & Gas Company	G	GR12060489	written	Jun-12	Solar 4 All Extension(S4Allext) / Revenue Requirements & Rate Design - Program Approval
Public Service Electric & Gas Company	G	GR12060583	written	Jun-12	Margin Adjustment Charge (MAC) / Cost Recovery
Public Service Electric & Gas Company	E/G	ER12030207	written	Mar-12	Weather Normalization Charge / Cost Recovery
Public Service Electric & Gas Company	E	ER12030207	written	Mar-12	Societal Benefits Charge (SBC) / Cost Recovery
Public Service Electric & Gas Company	G	GR11060338	written	Jun-11	Non-Utility Generation Charge (NGC) / Cost Recovery
Public Service Electric & Gas Company	G	GR11060395	written	Jun-11	Margin Adjustment Charge (MAC) / Revenue Requirements & Rate Design - Program Approval
Public Service Electric & Gas Company	E	EO11010030	written	Jan-11	Weather Normalization Charge / Revenue Requirements & Rate Design - Program Approval
Public Service Electric & Gas Company	E/G	ER10100737	written	Oct-10	Economic Energy Efficiency Extension (EEEext) / Revenue Requirements & Rate Design - Program Approval
Public Service Electric & Gas Company	E/G	ER10080550	written	Aug-10	RGGI Recovery Charges (RRC)-Including DR, EEE, CA, S4All, SLII / Cost Recovery
Public Service Electric & Gas Company	E	ER10080550	written	Aug-10	Societal Benefits Charge (SBC) / Cost Recovery
Public Service Electric & Gas Company	E/G	GR09050422	written/oral	Mar-10	Non-Utility Generation Charge (NGC) / Cost Recovery
Public Service Electric & Gas Company	E	ER10030220	written	Mar-10	Base Rate Proceeding / Cost of Service & Rate Design
Public Service Electric & Gas Company	E	EO09030249	written	Mar-09	Solar Pilot Recovery Charge (SPRC-Solar Loan I) / Cost Recovery
Public Service Electric & Gas Company	E/G	EO09010056	written	Feb-09	Solar Loan II(SLII) / Revenue Requirements & Rate Design - Program Approval
Public Service Electric & Gas Company	E	EO09020125	written	Feb-09	Economic Energy Efficiency(EEE) / Revenue Requirements & Rate Design - Program Approval
Public Service Electric & Gas Company	E	EO08080544	written	Aug-08	Solar 4 All (S4All) / Revenue Requirements & Rate Design - Program Approval
Public Service Electric & Gas Company	E/G	ER10100737	written	Jun-08	Demand Response (DR) / Revenue Requirements & Rate Design - Program Approval

Schedule SS-M&M-2

Marshall & Madison - Electric Substations Electric Roll-in Roll-in Filing

in (\$000)

Rate Effective Date	10/1/2019
Plant In Service as of Date	6/30/2019
Rate Base Balance as of Date	9/30/2019

RATE BASE CALCULATION

	Total	Notes
1 Gross Plant	\$67,276	= In 16
2 Accumulated Depreciation	\$172	= ln 19
3 Net Plant	\$67,448	= ln 1 + ln 2
4 Accumulated Deferred Taxes	-\$493	= See "Dep-" Wkps Row 616
5 Rate Base	\$66,955	= ln 3 + ln 4
6 Rate of Return - After Tax (Schedule WACC)	6.48%	See Schedule SS-M&M-3
7 Return Requirement (After Tax)	\$4,340	= In 5 * In 6
8 Depreciation Exp, net	\$986	= In 25
9 Tax Adjustment	-\$4	= In 32
10 Revenue Factor	1.395	See Schedule SS-M&M-4
11 Roll-in Revenue Requirement	\$7,424	= (ln 7 + ln 8 + ln 9) * ln 10

SUPPORT

Gross Plant

12 Plant in-service	\$6,468 = See "Dep-" Wkps Row 594
13 CWIP Transferred into Service	\$55,386 = See "Dep-" Wkps Row 595
14 Land	\$1,693 = Input Tab Row 180
15 AFUDC on CWIP Transferred Into Service - Debt	\$1,176 = See "Dep-" Wkps Row 596
16 AFUDC on CWIP Transferred Into Service - Equity	\$2,553 = See "Dep-" Wkps Row 597
17 Total Gross Plant	\$67,276 = ln 12 + ln 13 + ln 14 + ln 15 + ln 16

Accumulated Depreciation

18 Accumulated Depreciation	-\$602 = See "Dep-" Wkps Row 603
19 Cost of Removal	\$774 = See "Dep-" Wkps Row 598
20 Net Accumulated Depreciation	\$172 = ln 18 + ln 19

Depreciation Expense (Net of Tax)

21 Depreciable Plant (xAFUDC-E)	\$63,029	= ln 12 + ln 13 + ln 15
22 AFUDC-E	\$2,553	= In 16
23 Depreciation Rate	2.06%	= See "Dep-" Wkps Row 598
24 Depreciation Expense	\$1,351	= (ln 21 + ln 22) * ln 23
25 Tax @ 28.11%	\$365	= In 21 * In 23 * Tax Rate
26 Depreciation Expense (Net of Tax)	\$986	= In 24 - In 25

Schedule SS-M&M-3

Marshall & Madison - Electric Substations Weighted Average Cost of Capital (WACC)

	Percent	Embedded Cost	Weighted Cost	Pre-Tax Weighted Cost	After Tax Weighted Cost
Common Equity	54.00%	9.60%	5.18%	7.21%	5.18%
Customer Deposits Other Capital	0.47% 45.53%	0.87% 3.96%	0.00% 1.80%	0.00% 1.80%	0.00% 1.30%
Total	100.00%		6.99%	9.02%	6.48%
Federal Income Tax State NJ Business Incm Tax Tax Rate	21.00% <u>9.00%</u> 28.11%				

<u>Marshall & Madison - Electric Substations</u> <u>Revenue Factor Calculation</u>

	ELECTRIC	GAS	
Revenue Increase	100.0000	100.0000	
Uncollectible Rate BPU Assessment Rate Rate Counsel Assessment Rate	0.2311 0.0553	1.6000 0.2311 0.0553	From 2018 Base Rate Case 2019 BPU Assessment 2019 RC Assessment
Income before State of NJ Bus. Tax	99.7136	98.1136	
State of NJ Bus. Income Tax @ 9.00%	8.9742	8.8302	
Income Before Federal Income Taxes	90.7394	89.2834	
Federal Income Taxes @ 21%	19.0553	18.7495	
Return	71.6841	70.5339	
Revenue Factor	1.3950	1.4178	

Electric Revenue Requirement Allocation Explanation of Format

Pages 2 through 5 presented in Schedule SS-M&M-5 are the four relevant pages from the complete cost of service and revenue requirement allocation methodology based on the 2018 Base Rate Case Settlement, approved by the Board on October 29, 2018. Page 2 Part 1 shows the "Final" revenue requirement allocation to each rates class and its associated functions as defined in the 2018 PSE&G Base Rate Case (Rate Case). Part 2 allocates the Madison & Marshall Revenue Increase in accordance with the Rate Case Board Order. Pages 3 and 4 provide the interclass revenue allocations based upon the rate rules approved in the Rate Case. Page 5 provides the service charge calculations for each rate class by which are calculated in accordance with the Rate Case Board Order.

<u>Electric Rate Design (Proof of Revenue by Rate Class) Explanation of</u> Format

The summary provides by rate schedule, the Annualized Weather Normalized (all customers assumed to be on BGS) revenue based on current tariff rates and the proposed rate change.

The pages presented in Schedule SS-M&M-5 are the selected applicable columns of the relevant pages from the complete rate change workpapers from the Company's 2018 Electric Base Rate Case and have been appropriately modified per my testimony to reflect the Madison & Marshall Substation projects.

Annualized Weather Normalized (all customers assumed to be on BGS) and the Proposed Detailed Rate Design.

In the detailed rate design pages, all the components are separated into Delivery and Supply. In addition to the Distribution components of Delivery, also included in the schedule are lines for Societal Benefits Charge, Non-Utility Generation Charge, Zero Emission Certificate Recovery Charge, Solar Pilot Recovery Charge, Green Programs Recovery Charge, Tax Adjustment Credit, Miscellaneous items, and Unbilled Revenue.

Column (1) shows the annualized weather normalized billing units. Column (2) shows present Delivery rates (without Sales and Use Tax, SUT) effective April 18, 2019.

The Supply-BGS rates in the Column (2) reflect the rates in effect as of April 18, 2019 and for CIEP energy, reflect the class average hourly rates from January 1, 2018 to December 31, 2018. Column (3) presents annualized revenue assuming all customers are provided service under their applicable BGS provision. Column (4) repeats the billing units of Column (1). Column (5) shows the proposed rates without SUT that result in the proposed revenues shown in Column (6). Columns (7) and (8) show the proposed base rate revenue increase, in thousands of dollars and percent increase, respectively, for each of the billing unit blocks. The proposed tariff charges (with and without SUT) are provided on pages 26 and 27 of this schedule.

SS-M&M-5 Attachment 2 Page 2 of 27

	rvice and Rate Des	Sign Sync													
Step 1:	Initial Sync (1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)
	. ,		(=)		(0)		(.)		(0)		(0)		(.,		(0)
line #	Rate Schedule	Str	eetlighting		Access		Local Delivery	8	System Delivery	Cı	ustomer Service		Measurement		Total
1	RS	\$	0	\$	31,883,843	\$	323,259,297	\$	196,397,486	\$	88.062.886	\$	63,782,402	\$	703,385,
2	RHS	\$	0	\$	247,510		3,206,927	\$	917,179	\$	512,204	\$	335,069	\$	5,218,
3	RLM	\$	0	\$	325,934	\$	4,287,442	\$	3,373,454	\$	592,245	\$	447,425	\$	9,026
4	WH	\$	0	\$	2,088	\$	2,632	\$	0	\$	46,207	\$	83,817	\$	134
5	WHS	\$	0	\$	30	\$	24	\$	0	\$	599	\$	1,199	\$	1
6	HS	\$	0	\$	0	\$	406,414	\$	203,930	\$	42,894	\$	28,324	\$	681
7	BPL	\$	43.197.026	\$	0	\$	2.255.948	\$	0	\$	164,743	\$	0	\$	45.617
8	BPL-POF	\$	277,921	\$	0	\$	104,947	\$	0	\$	3,734	\$	0	\$	386
9	PSAL	\$	13,992,547	\$	0	\$		\$	0	\$		\$	0	\$	15,933
10	GLP	\$	0	\$	16,043,581		104,679,788	\$	95,813,438	\$	15,957,512	\$	12,567,316	\$	245,061
11	LPL-S	\$	0	\$	1,087,951	\$		\$	100,522,764	\$		\$	13,261,282	\$	209,921
12	LPL-P	\$	0	\$	96.111		14,632,266	\$	24,934,124	\$	296.271	\$	1,425,940	\$	41,384
13	HTS-S	\$	0	\$	56.887	\$	19,648,753	\$	13,820,570	\$	76.587	\$	811,434	\$	34,414
14	HTS-HV	\$	0	\$	47,606	\$	37,257	\$	0	\$	5,882	\$	72,631	\$	163
15	Total	\$	57,467,494	_	49,791,541	-	565,304,816		435,982,944	\$		\$	92,816,841	\$	1,311,333
lotes:			8 Rate Case ule SS-E8 R-2,	S	2018 Rate Case chedule SS-E8 R-2,	S	2018 Rate Case chedule SS-E8 R-2,		2018 Rate Case nedule SS-E8 R-2,		018 Rate Case edule SS-E8 R-2,	s	2018 Rate Case chedule SS-E8 R-2,	Su	ım (Col 2 - C
		page	2, lines 1-15		page 2, lines 1-15		page 2, lines 1-15	pa	age 2, lines 1-15	pa	ge 2, lines 1-15		page 2, lines 1-15		
16	M&M Sync Total Rev Req Inc				Rates			\$	7,424,486		1&M-2 16 + page 4 Col 3 I	ine	21		
	•	Streetlight F	enue Requireme Fixtures		Rates			\$ \$ \$	1,208,784,738 1,253,866,048	= Line = col 8,	1&M-2 16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 15		21		
16 17 18	Total Rev Req Inc Total Target Distri	Streetlight Fetlight Fetlight Fixtu	enue Requireme Fixtures rres		Rates			\$	1,208,784,738 1,253,866,048 1,151,317,244	= Line = col 8, = line 1	16 + page 4, Col 3, L , line 15 - col 2, line 1		21		
16 17 18 19	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre	Streetlight Feetlight Fixtu	enue Requireme Fixtures rres		Rates Access		Local Delivery	\$	1,208,784,738 1,253,866,048 1,151,317,244	= Line = col 8, = line 1	16 + page 4, Col 3, L , line 15 - col 2, line 1 7 - col 2, line 15		21 Measurement		Total
16 17 18 19	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre	Streetlight Feetlight Fixtu	enue Requireme Fixtures ires	nts \$		\$	•	\$	1,208,784,738 1,253,866,048 1,151,317,244 0.91821	= Line = col 8, = line 1 = line 1	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 15 19 / line 18	5	Measurement	\$	
16 17 18 19 20	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr	Streetlight Feetlight Fixtument Factor	enue Requireme Fixtures res reetlighting	nts \$	Access		•	\$ \$	1,208,784,738 1,253,866,048 1,151,317,244 0.91821 System Delivery	= Line = col 8, = line 1 = line 1	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 15 19 / line 18 Cust Svs 80,860,566 470,313	5 \$	Measurement		645,85
16 17 18 19 20	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr	Streetlight Feetlight Fixtument Factor	enue Requireme Fixtures res . reetlighting	nts \$	Access 29,276,188	\$	296,821,183	\$ \$ \$	1,208,784,738 1,253,866,048 1,151,317,244 0.91821 System Delivery 180,334,903	= Line = col 8, = line 1 = line 1	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 15 19 / line 18 Cust Svs 80,860,566	5 \$	Measurement 58,565,889	\$	645,858 4,792
16 17 18 19 20 21 22 23	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr	Streetlight F setlight Fixtu ment Factor Str \$	enue Requireme Fixtures res . reetlighting 0	nts \$	Access 29,276,188 227,267	\$	296,821,183 2,944,645	\$ \$ \$	1,208,784,738 1,253,866,048 1,151,317,244 0.91821 System Delivery 180,334,903 842,167	= Line = col 8, = line 1 = line 1 \$	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 15 19 / line 18 Cust Svs 80,860,566 470,313	5 \$	Measurement 58,565,889 307,665	\$	645,856 4,793 8,286
16 17 18 19 20 21 22	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr RS RHS RLM	Streetlight Fixetlight Factor Str \$ \$ \$ \$	enue Requireme Fixtures res reetlighting 0 0 0	nts \$ \$	Access 29,276,188 227,267 299,277	\$	296,821,183 2,944,645 3,936,789	\$ \$ \$ \$	1,208,784,738 1,253,866,048 1,151,317,244 0,91821 System Delivery 180,334,903 842,167 3,097,552	= Line = col 8, = line 1 = line 1 \$	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 1 19 / line 18 Cust Svs 80,860,566 470,313 543,807	\$ \$ \$	Measurement 58,565,889 307,665 410,832	\$ \$ \$	645,858 4,792 8,288 123
16 17 18 19 20 21 22 23 24	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr RS RHS RLM WH	Streetlight Feetlight Fixturent Factor Str \$ \$ \$ \$ \$	enue Requireme Fixtures res reetlighting 0 0 0 0	nts \$ \$ \$	Access 29,276,188 227,267 299,277 1,917	\$	296,821,183 2,944,645 3,936,789 2,417	\$ \$\$	1,208,784,738 1,253,866,048 1,151,317,244 0.91821 System Delivery 180,334,903 842,167 3,097,552 0	= Line = col 8, = line 1 = line 1 \$ \$ \$ \$ \$ \$ \$	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 1 19 / line 18 Cust Svs 80.860,566 470,313 543,807 42,428	5 \$ \$ \$ \$	Measurement 58,565,889 307,665 410,832 76,962	\$ \$ \$	645,856 4,799 8,286 123
16 17 18 19 20 21 22 23 24 25	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr RS RHS RLM WH	Streetlight Feetlight Fixturment Factor Str \$ \$ \$ \$ \$ \$ \$ \$	enue Requireme	\$ \$ \$ \$ \$ \$	Access 29,276,188 227,267 299,277 1,917 28	\$ \$ \$	296,821,183 2,944,645 3,936,789 2,417 22 373,175	\$ \$\$	1,208,784,738 1,253,866,048 1,151,317,244 0,91821 System Delivery 180,334,903 842,167 3,097,552 0	= Line = col 8, = line 1 = line 1 \$ \$ \$ \$ \$	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 15 19 / line 18 Cust Svs 80,860,566 470,313 543,807 42,428 550 39,386	\$ \$ \$ \$ \$	Measurement 58,565,889 307,665 410,832 76,962 1,101	\$ \$ \$	645,85i 4,79i 8,28i 12;
16 17 18 19 20 21 22 23 24 25 26 27	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr RS RHS RLM WH WHS HS BPL	Streetlight F setlight Fixtu ment Factor Str \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	enue Requireme Fixtures res reetlighting 0 0 0 0 0 43,197,026	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Access 29,276,188 227,267 299,277 1,917 28 0	\$ \$ \$ \$ \$	296,821,183 2,944,645 3,936,789 2,417 22 373,175 2,071,443	* * * * * * * * * * * * * * * * * * * *	1,208,784,738 1,253,866,048 1,151,317,244 0.91821 System Delivery 180,334,903 842,167 3,097,552 0 0 187,251 0	= Line = col 8, = line 1 = line 1 \$ \$ \$ \$ \$ \$ \$	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 1 9 / line 18 Cust Svs 80,860,566 470,313 543,807 42,428 550 39,386 151,269	5 \$\$\$\$\$\$\$\$\$	Measurement 58,565,889 307,665 410,832 76,962 1,101 26,007 0	\$ \$ \$ \$ \$ \$	645,856 4,792 8,286 123 624 45,411
16 17 18 19 20 21 22 23 24 25 26	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr RS RHS RLM WH WHS	Streetlight F setlight Fixtu ment Factor Str \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	enue Requireme Fixtures res . reetlighting 0 0 0 0 0 43,197,026 277,921	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Access 29,276,188 227,267 299,277 1,917 28 0	\$ \$ \$ \$ \$	296,821,183 2,944,645 3,936,789 2,417 22 373,175 2,071,443 96,363	\$ \$\$	1,208,784,738 1,253,866,048 1,151,317,244 0,91821 System Delivery 180,334,903 842,167 3,097,552 0 0 187,251	= Line = col 8, = line 1 = line 1 \$ \$ \$ \$ \$ \$	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 15 19 / line 18 Cust Svs 80,860,566 470,313 543,807 42,428 550 39,386 151,269 3,428	\$ \$ \$ \$ \$	Measurement 58,565,889 307,665 410,832 76,962 1,101 26,007	\$ \$ \$ \$	645,858 4,792 8,288 123 625 45,419
16 17 18 19 20 21 22 23 24 25 26 27 28 29	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr RS RHS RLM WH WHS HS BPL BPL-POF PSAL	ibution Reve Streetlight Fixtu ment Factor Str \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	enue Requireme Fixtures res . reetlighting 0 0 0 0 0 43,197,026 277,029 13,992,547	s s s s s s s s s s s s s s s s s s s	Access 29,276,188 227,267 299,277 1,917 28 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$	296,821,183 2,944,645 3,936,789 2,417 22 373,175 2,071,443 96,363 990,135	\$ \$\$ \$\$ \$\$\$\$\$\$\$\$\$\$	1,208,784,738 1,253,866,048 1,151,317,244 0.91821 System Delivery 180,334,903 842,167 3,097,552 0 187,251 0 0 0 0	= Line = col 8, = line 1 = line 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 15 19 / line 18 Cust Svs 80,860,566 470,313 543,807 42,428 550 39,386 151,269 3,428 792,439	5 \$\$\$\$\$\$\$\$\$\$	Measurement 58,565,889 307,665 410,832 76,962 1,101 26,007 0 0	* * * * * * * * *	645,856 4,792 8,286 123 625 45,419 377 15,775
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr RS RHS RLM WH WHS HS BPL BPL-POF PSAL GLP	ibution Reve Streetlight Fixtu ment Factor Str \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Enue Requireme Fixtures res	s s s s s s s s s s s s s s s s s s s	Access 29,276,188 227,267 299,277 1,917 28 0 0 0 14,731,439		296,821,183 2,944,645 3,936,789 2,417 22 373,175 2,071,443 96,363 990,135 96,118,437	\$ \$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	1,208,784,738 1,253,866,048 1,151,317,244 0.91821 System Delivery 180,334,903 842,167 3,097,552 0 0 187,251 0 0 87,977,232	= Line = col 8, = line 1 = line 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 15 19 / line 18 Cust Svs 80,860,566 470,313 543,807 42,428 550 39,386 151,269 3,428 792,439 14,652,409	5 \$\$\$\$\$\$\$\$\$\$\$	Measurement 58,565,889 307,665 410,832 76,962 1,101 26,007 0 0 11,539,484	* * * * * * * * * *	645,858 4,792 8,288 12: 625 45,411 37: 15,775 225,018
116 17 18 19 20 21 22 22 23 24 25 26 27 28 29 30 31	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr RS RHS RLM WH WHS HS BPL BPL-POF PSAL GLP LPL-S	ibution Reve Streetlight Fixtu ment Factor Str \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	enue Requireme Fixtures res . reetlighting 0 0 0 0 0 43,197,026 277,029 13,992,547	nts	Access 29,276,188 227,267 299,277 1,917 28 0 0 14,731,439 998,972		296,821,183 2,944,645 3,936,789 2,417 22 373,175 2,071,443 96,363 990,135 96,118,437 84,204,617	\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	1,208,784,738 1,253,866,048 1,151,317,244 0.91821 System Delivery 180,334,903 842,167 3,097,552 0 187,251 0 0 87,977,232 92,301,400	= Line = col 8, = line 1 = line 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 15 19 / line 18 Cust Svs 80,860,566 470,313 543,807 42,428 550 39,386 151,269 3,428 792,439 14,652,409 3,071,536	5 \$\$\$\$\$\$\$\$\$\$\$\$	Measurement 58,565,889 307,665 410,832 76,962 1,101 26,007 0 0 11,539,484 12,176,694	****	645,856 4,792 8,286 123 625 45,415 377 15,775 225,015
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr RS RHS RHS RLM WH WHS HS BPL BPL-POF PSAL GLP LPL-S LPL-S LPL-P	ibution Reve Streetlight Fixtu ment Factor Str \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	enue Requireme Fixtures res	nts	Access 29,276,188 227,267 299,277 1,917 28 0 0 0 14,731,439 998,972 88,251	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	296,821,183 2,944,645 3,936,789 2,417 22 373,175 2,071,443 96,363 990,135 96,118,437 84,204,617 13,435,550	\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	1,208,784,738 1,253,866,048 1,151,317,244 0,91821 System Delivery 180,334,903 842,167 3,097,552 0 0 187,251 0 0 87,977,232 92,301,400 22,894,859	= Line = col 8, = line 1 = line 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 15 19 / line 18 Cust Svs 80.860.566 470,313 543,807 42,428 550 39,386 151,269 3,428 792,439 14,652,409 3,071,536 272,041	5	Measurement 58,565,889 307,665 410,832 76,962 1,101 26,007 0 0 11,539,484 12,176,694 1,309,318	********	645,858 4,792 8,288 123 625 45,418 377 15,775 225,018 192,755 38,000
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr RS RHS RLM WH WHS HS BPL BPL-POF PSAL GLP LPL-S LPL-P HTS-S	ibution Reve Streetlight Fixtu ment Factor Str \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	enue Requireme Fixtures res reetlighting 0 0 0 0 0 43,197,026 277,921 13,992,547 0 0	nts	Access 29,276,188 227,267 299,277 1,917 28 0 0 0 14,731,439 998,972 88,251 52,234		296,821,183 2,944,645 3,936,789 2,417 22 373,175 2,071,443 96,363 990,135 96,118,437 84,204,617 13,435,550 18,041,758	\$ \$\$	1,208,784,738 1,253,866,048 1,151,317,244 0,91821 System Delivery 180,334,903 842,167 3,097,552 0 0 187,251 0 0 87,977,232 92,301,400 22,894,859 12,690,239	= Line = col 8, = line 1 = line 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 15 19 / line 18 Cust Svs 80.860,566 470,313 543,807 42,428 550 39,386 151,269 3,428 792,439 14,652,409 3,071,536 272,041 70,323	5	Measurement 58,565,889 307,665 410,832 76,962 1,101 26,007 0 0 11,539,484 12,176,694 1,309,318 745,070	*****	645,856 4,792 8,286 12: 45,419 37: 15,779 225,019 192,753 38,000 31,598
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr RS RHS RHS RLM WH WHS HS BPL BPL-POF PSAL GLP LPL-S LPL-S LPL-P	ibution Reve Streetlight Fixtu ment Factor Str \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	enue Requireme Fixtures res . reetlighting 0 0 0 0 0 0 43,197,026 277,921 13,992,547 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nts	Access 29,276,188 227,267 299,277 1,917 28 0 0 0 14,731,439 998,972 88,251		296,821,183 2,944,645 3,936,789 2,417 22 373,175 2,071,443 96,363 990,135 96,118,437 84,204,617 13,435,550	• • • • • • • • • • • • • • • • •	1,208,784,738 1,253,866,048 1,151,317,244 0,91821 System Delivery 180,334,903 842,167 3,097,552 0 0 187,251 0 0 87,977,232 92,301,400 22,894,859	= Line = col 8, = line 1 = line 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 15 19 / line 18 Cust Svs 80.860.566 470,313 543,807 42,428 550 39,386 151,269 3,428 792,439 14,652,409 3,071,536 272,041	5	Measurement 58,565,889 307,665 410,832 76,962 1,101 26,007 0 0 11,539,484 12,176,694 1,309,318	***********	Total 645,856 4,792 8,286 123 1626 45,416 377 15,776 225,016 192,753 38,000 31,599 150 1,208,784
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	Total Rev Req Inc Total Target Distri Rate Case Minus Target Minus Stre Final Sync Adjustr RS RHS RLM WH WHS HS BPL BPL-POF PSAL GLP LPL-S LPL-P HTS-S HTS-HV	ibution Reve Streetlight Fixtu ment Factor Str \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	enue Requireme Fixtures res reetlighting 0 0 0 0 0 43,197,026 277,921 13,992,547 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nts	Access 29,276,188 227,267 299,277 1,917 28 0 0 14,731,439 998,972 88,251 52,234 43,713		296,821,183 2,944,645 3,936,789 2,417 22 373,175 2,071,443 96,363 990,135 96,118,437 84,204,617 13,435,550 18,041,758 34,210	• • • • • • • • • • • • • • • • •	1,208,784,738 1,253,866,048 1,151,317,244 0.91821 System Delivery 180,334,903 842,167 3,097,552 0 0 187,251 0 0 87,977,232 92,301,400 22,894,859 12,690,239 0 0	= Line = col 8, = line 1 = line 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16 + page 4, Col 3, L , line 15 - col 2, line 1 17 - col 2, line 15 19 / line 18 Cust Svs 80.860,566 470,313 543,807 42,428 550 39,386 151,269 3,428 792,439 14,652,409 3,071,536 272,041 70,323 5,401	5	Measurement 58,565,889 307,665 410,832 76,962 1,101 26,007 0 11,539,484 12,176,694 1,309,318 745,070 66,691	***********	645,856 4,792 8,286 123 625 45,419 377 15,775 225,018 192,753 38,000 31,599

SS-M&M-5 Attachment 2
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Inter Class Revenue Increase Allocations

Calculation of Increase Limits

line#	(in \$1,000)	Notes:
1	Requested Revenue Increase to be recovered from rate schedule charges = \$ 7,424	Schedule SS-M&M-2
2	Present Distribution Revenue = \$ 1,201,360 Present Total Customer Bills (all on BGS) = \$ 5,781,744	Page 4, col 3, line 21 Page 4, col 5, line 21
4 5 6 7 8	Average Distribution Increase = 0.618% Average Total Bill Increase = 0.128% Lower Distribution increase limit = 0.309% in Distribution charges Upper Distribution increase limit #1 = 1.082% in Distribution charges Upper Bill increase limit #2 = 0.256% in Bill Increase	= Line 1 / Line 2 = Line 1 / Line 3 = 0.5 * Line 4 = 1.75 * Line 4 = 2.0 * Line 5

all rounded to 0.001%

	(1)		(2)	(3)		(4)		(5)	(6)	(7)	(8)		(9)
			Proposed istribution		L	Inlimited COS		Present Total	Unlimited	Limited Final	Proposed	Dr	oposed
			Revenue	Present	Di	stribution		Bill	Distribution	Distribution	Total		tribution
line	Rate		equirement	Distribution		Charge		Revenue	Charge	Charge	Bill		evenue
#	Schedule		rom COS)	Revenue		Increase		ll on BGS)	Increase	Increase	Increase		crease
		(in \$1,000)	(in \$1,000)	(i	n \$1,000)	((in \$1,000)	(%)	(%)	(%)	(in	\$1,000)
1	RS	\$	645,859	\$ 558,035	\$	87,824	\$	2,200,941	15.738%	0.991%	0.251%	\$	5,528
2	RHS	\$	4,792	\$ 4,110	\$	682	\$	16,819	16.595%	1.045%	0.256%	\$	43
3	RLM	\$	8,288	\$ 7,317	\$	971	\$	35,961	13.274%	0.836%	0.170%	\$	61
4	WH *	\$	123.725	\$ 50.174	\$	73.551	\$	113.376	146.591%	0.578%	0.256%	\$	0.290
5	WHS *	\$	1.700	\$ 0.148	\$	1.552	\$	(0.353)	1048.709%	1.082%	0.567%	\$	0.002
6	HS	\$	626	\$ 724	\$	(98)	\$	2,518	-13.561%	0.309%	0.079%	\$	2
7	BPL	\$	45,420	\$ 56,015			\$	72,390					
8	Distribution Only	\$	2,223	\$ 1,899	\$	324			17.046%	0.330%	0.008%		6
9	Luminaires and Poles	\$	43,197	\$ 54,116	\$	(10,919)			0.000%	0.000%	0.000%	\$	-
10	BPL-POF *	\$	377.713	\$ 319.930			\$	1,142.924					
11	Distribution Only	\$	99.792	\$ 96.930	\$	2.862			2.952%	0.309%	0.026%		0.300
12	Luminaires and Poles	\$	277.921	\$ 223.000	\$	54.921			0.000%	0.000%	0.000%	\$	-
13	PSAL	\$	15,775	\$ 27,790			\$	36,742					
14	Distribution Only	\$	1,783	\$ 1,083	\$	700			64.596%	0.338%	0.011%		4
15	Luminaires and Poles	\$	13,993	\$ 26,707	\$	(12,714)			0.000%	0.000%	0.000%		-
16	GLP	\$	225,019	\$ 258,940	\$			1,230,161	-13.100%	0.309%	0.065%		800
17	LPL-S	\$	192,753	\$ 218,893	\$			1,363,906	-11.942%	0.309%	0.050%		676
18	LPL-P	\$	38,000	\$ 38,129	\$	(129)			-0.338%	0.309%	0.034%	*	118
19	HTS-S	\$	31,600	\$ 28,754	\$	2,846	\$	437,794	9.896%	0.623%	0.041%		179
20	HTS-HV	\$	150	\$ 2,283	\$	(2,133)	\$	36,017	-93.429%	0.309%	0.019%	\$	7
21	Total	\$	1,208,785	\$ 1,201,360	\$	7,424	\$	5,781,744	0.618%	0.618%	0.128%	\$	7,425

= (2) - (3)

SS-M&M-5

workpapers

= (4) / (3)

calculated

on limits

= (9) / (5)

= (3) * (7)

Notes:

Page 2,

Step 2, col 8

SS-M&M-5

workpapers

Service Charge Calculations

Service charges are comprised of revenue requirements for the Distribution Access and Measurement segments related to Minimum Size Facilities, plus the Revenue Requirements for the Customer Service segment.

	(1)		(2)		(3)		(4)		(5)	(6)	(7)		(8)		(9)	
line #																
1	Average D	ietrihi	ution Increase =		0.618%	ns	age 3, Line 4									
'	Average D	ioti ibi	ution increase =		0.01070	þe	age 3, Lille 4									
														F	Proposed	
			Access	M	leasurement	Cu	stomer Service		Rev Req		Cost Based	(Current		Limited	
			Segment		Segment		Segment	to	be recovered		Monthly	1	Monthly		Monthly	
	Rate		Revenue		Revenue		Revenue		through	# of	Service	;	Service		Service	
	Schedule	<u> </u>	Requirement	<u>F</u>	Requirement	<u> </u>	Requirements	S	ervice Charge	Customers	<u>Charge</u>	9	<u>Charge</u>		Charge	
											(\$/month)	<u>(9</u>	S/month)	(\$/month)	
2	RS	\$	29,276,188	\$	58,565,889	\$	80,860,566	\$	168,702,644	1,868,649	\$ 7.52	\$	4.64	\$	4.64	see Note 1
3	RHS	\$	227,267	\$	307,665	\$	470,313	\$	1,005,245	9,233	\$ 9.07	\$	4.64	\$	4.64	see Note 1
4	RLM	\$	299,277	\$	410,832	\$	543,807	\$	1,253,916	12,158	\$ 8.59	\$	13.07	\$	13.07	see Note 2
5	WH	no s	ervice charge													
6	WHS	\$	28	\$	1,101	\$	550	\$	1,678	18	\$ 7.79	\$	0.58	\$	0.59	see Note 2
7	HS	\$	0	\$	26,007	\$	39,386	\$	65,394	1,091	\$ 4.99	\$	3.48	\$	3.51	see Note 2
8	BPL	no s	ervice charge													
9	BPL-POF	no s	ervice charge													
10	PSAL	no s	ervice charge													
11	GLP	\$	14,731,439	\$	1,309,318	\$	14,652,409			261,946						
12	GLP Metered									256,116	\$ 9.77	\$	4.43	\$	4.47	see Note 3
13	GLP Unmetered									5,766	\$ 9.35	\$	2.05	\$	2.07	see Note 4
14	GLP-NU									64				\$	347.77	set equal to LPL-S
15	LPL-S	\$	998,972	\$	12,176,694	\$	3,071,536	\$	16,247,201	8,645	\$ 156.61	\$	347.77	\$	347.77	see Note 2
16	LPL-P	\$	88,251	\$	1,309,318	\$	272,041	\$	1,669,609	754	\$ 184.59	\$	347.77	\$	347.77	see Note 2
17	LPL-P <100 kW										\$ 154.10	\$	20.02	\$	20.21	see Note 5
18	HTS-S	\$	52,234	\$	745,070	\$	70,323	\$	867,628	193	\$ 374.12	\$	1,911.39	\$	1,911.39	see Note 2
19	HTS-HV	\$	43,713	\$	66,691	\$	5,401	\$	115,805	14	\$ 698.02	\$	1,720.25	\$	1,720.25	see Note 2
Source:					3 and 4 from I 6 & 7 from Ste	_	2 ,	=	(2) + (3) + (4)	2018 Rate Case SS-E8 R-2, Step 2, Col 1	= (5) / (6) / 12	Fr	om Tariff	me	sed on ethodology scribed	

Notes: 1 Agreed upon in Settlement

² Move toward cost limited at no decrease from current service charge and no increase greater than 1.5 times the overall average distribution % increase.

³ Access and Customer Service Rev Req per total GLP Customer plus Measurement Rev Req divided by the number of metered customers divided by 12; limits the same as Note 2

⁴ Access and Customer Service Rev Req per total GLP Customer divided by 12; limits the same as Note 2

⁵ Calculated at the GLP Access Segment per customer plus the GLP Customer Service Segment Revenue Requirements per customer plus the LPL-P Measurement Segment per customer divided by 12; limits the same as Note 2

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Attachment 2 Page 6 of 27

ELECTRIC PROOF OF REVENUE SUMMARY ELECTRIC RATE INCREASE Madison and Marshall

(kWhrs & Revenue in Thousands)

٨	n	-		1:	4
4	n	n	ua	lize	a

			Annualiz					
	Rate Schedule		Weather Norm	<u>nalized</u>	<u>Prop</u>	osed	Increa	se
			<u>kWhrs</u>	Revenue	<u>kWhrs</u>	Revenue	Revenue	<u>Percent</u>
			(1)	(2)	(3)	(4)	(5)	(6)
1	Residential	RS	12,934,045	\$2,200,941	12,934,045	\$2,206,469	\$5,528	0.25
2	Residential Heating	RHS	126,581	16,819	126,581	16,862	43	0.26
3	Residential Load Management	RLM	211,824	35,961	211,824	36,022	61	0.17
4	Water Heating	WH	1,086	113.376	1,086	113.666	0.290	0.26
5	Water Heating Storage	WHS	16	-0.353	16	-0.351	0.002	0.57
6								
7	Building Heating	HS	16,145	2,518	16,145	2,520	2	0.08
8	General Lighting and Power	GLP	7,764,699	1,230,161	7,764,699	1,230,961	800	0.07
9	Large Power & Lighting-Sec	LPL-S	11,276,802	1,363,906	11,276,802	1,364,582	676	0.05
10	Large Power & Lighting-Pri	LPL-P	3,235,414	347,239	3,235,414	347,357	118	0.03
11	High Tension-Subtr.	HTS-S	4,566,472	437,794	4,566,472	437,973	179	0.04
12	High Tension-HV	HTS-HV	417,997	36,017	417,997	36,024	7	0.02
13								
14	Body Politic Lighting	BPL	282,858	72,390	282,858	72,396	6	0.01
15	Body Politic Lighting-POF	BPL-POF	14,450	1,142.924	14,450	1,143.224	0.300	0.03
16	Private Street & Area Lighting	PSAL	<u>151,732</u>	<u>36,742</u>	<u>151,732</u>	<u>36,746</u>	<u>4</u>	0.01
17								
18								
19	Totals		41,000,121	\$5,781,744	41,000,121	\$5,789,169	\$7,425	0.13
20								
21								
22	Notes:		assumed to be on					
23		WH, WHS & E	3PL-POF revenues	s shown to 3 deci	mals.			

Madison and Marshall (Units & Revenue inThousands)

Annualized Weather Normalized

			ınnualızed her Normalize	d		Proposed		Differer	nce
		Units	Rate	Revenue	Units	Rate	Revenue	Revenue	Percent
	Delivery	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
1	Service Charge	22,423.79	4.64	\$104,046	22,423.79	4.64	\$104,046	\$0	0.00
2	Distribution 0-600 June - September	3,528,124	0.037239	131,384	3,528,124	0.038262	134,993	3,609	2.75
3	Distribution 0-600 October - May	5,657,900	0.033344	188,657	5,657,900	0.033344	188,657	0	0.00
4	Distribution over 600 June - September	1,931,618	0.041060	79,312	1,931,618	0.042083	81,288	1,976	2.49
5	Distribution over 600 October - May	1,816,403	0.033344	60,566	1,816,403	0.033344	60,566	0	0.00
6	SBC	12,934,045	0.007169	92,724	12,934,045	0.007169	92,724	0	0.00
7	NGC	12,934,045	(0.000137)	(1,772)	12,934,045	(0.000137)	(1,772)	0	0.00
8	STC-TBC	12,934,045	0.000000	0	12,934,045	0.000000	0	0	0.00
9	STC-MTC-Tax	12,934,045	0.000000	0	12,934,045	0.000000	0	0	0.00
10	ZECRC	12,934,045	0.004000	51,736	12,934,045	0.004000	51,736	0	0.00
11	Solar Pilot Recovery Charge	12,934,045	0.000136	1,759	12,934,045	0.000136	1,759	0	0.00
12	Green Programs Recovery Charge	12,934,045	0.001408	18,211	12,934,045	0.001408	18,211	0	0.00
13	Tax Adjustment Credit	12,934,045	(0.004423)	(57,207)	12,934,045	(0.004423)	(57,207)	0	0.00
14	Green Enabling Mechanism	12,934,045	0.000000	0	12,934,045	0.000000	0	0	0.00
15	Facilities Chg.			0			0	0	0.00
16	Minimum			0			0	0	0.00
17	Miscellaneous			(240)			(241)	(1)	0.42
18	Delivery Subtotal	12,934,045		\$669,176	12,934,045		\$674,760	\$5,584	0.83
19	Unbilled Delivery			(6,755)			(6,811)	<u>(56)</u>	0.83
20	Delivery Subtotal w unbilled			\$662,421			\$667,949	\$5,528	0.83
21									
22	Supply-BGS								
23	BGS 0-600 June - September	3,528,124	0.118339	\$417,515	3,528,124	0.118339	\$417,515	\$0	0.00
24	BGS 0-600 October - May	5,657,900	0.118364	669,692	5,657,900	0.118364	669,692	0	0.00
25	BGS over 600 June - September	1,931,618	0.127435	246,156	1,931,618	0.127435	246,156	0	0.00
26	BGS over 600 October - May	1,816,403	0.118364	214,997	1,816,403	0.118364	214,997	0	0.00
27	BGS Reconciliation-RSCP	12,934,045	0.000000	0	12,934,045	0.000000	0	0	0.00
28	Miscellaneous			(1)			(1)	0	0.00
29	Supply subtotal	12,934,045		\$1,548,359	12,934,045		\$1,548,359	\$0	0.00
30	Unbilled Supply			(9,839)			(9,839)	<u>0</u>	0.00
31	Supply Subtotal w unbilled			\$1,538,520			\$1,538,520	\$0	0.00
32									
33	Total Delivery + Supply	12,934,045		\$2,200,941	12,934,045		\$2,206,469	<u>\$5,528</u>	0.25
34									
35									
36									
37	Notes:	All customers a	ssumed to be	on BGS.					

Notes: All customers assumed to be on BGS.

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RATE SCHEDULE RHS RESIDENTIAL HEATING SERVICE Madison and Marshall

(Units & Revenue inThousands)

Annualized

		Weather	Normalized			Proposed		Difference	e
		<u>Units</u>	Rate	Revenue	Units	Rate	Revenue	Revenue	Percent
	Delivery	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
1	Service Charge	110.79	4.64	\$514	110.79	4.64	\$514	\$0	0.00
2	Distribution 0-600 June - September	19,973	0.048037	959	19,973	0.048628	971	12	1.25
3	Distribution 0-600 October - May	41,979	0.032539	1,366	41,979	0.032800	1,377	11	0.81
4	Distribution over 600 June - September	10,227	0.052937	541	10,227	0.053528	547	6	1.11
5	Distribution over 600 October - May	54,402	0.014939	813	54,402	0.015200	827	14	1.72
6	SBC	126,581	0.007169	907	126,581	0.007169	907	0	0.00
7	NGC	126,581	(0.000137)	(17)	126,581	(0.000137)	(17)	0	0.00
8	STC-TBC	126,581	0.000000	0	126,581	0.000000	0	0	0.00
9	STC-MTC-Tax	126,581	0.000000	0	126,581	0.000000	0	0	0.00
10	Zero Emission Certificate Recovery Charge	126,581	0.004000	506	126,581	0.004000	506	0	0.00
11	Solar Pilot Recovery Charge	126,581	0.000136	17	126,581	0.000136	17	0	0.00
12	Green Programs Recovery Charge	126,581	0.001408	178	126,581	0.001408	178	0	0.00
13	Tax Adjustment Credit	126,581	(0.003974)	(503)	126,581	(0.003974)	(503)	0	0.00
14	Green Enabling Mechanism	126,581	0.000000	0	126,581	0.000000	0	0	0.00
15	Facilities Chg.			0			0	0	0.00
16	Minimum			0			0	0	0.00
17	Miscellaneous			(2)			(1)	1	(50.00)
18	Delivery Subtotal	126,581		\$5,279	126,581		\$5,323	\$44	0.83
19	Unbilled Delivery			<u>(102)</u>			<u>(103)</u>	<u>(1)</u>	0.98
20	Delivery Subtotal w unbilled			\$5,177			\$5,220	\$43	0.83
21									
22	Supply-BGS								
23	BGS 0-600 June - September	19,973	0.088738	\$1,772	19,973	0.088738	\$1,772	\$0	0.00
24	BGS 0-600 October - May	41,979	0.093343	3,918	41,979	0.093343	3,918	0	0.00
25	BGS over 600 June - September	10,227	0.100900	1,032	10,227	0.100900	1,032	0	0.00
26	BGS over 600 October - May	54,402	0.093343	5,078	54,402	0.093343	5,078	0	0.00
27	BGS Reconciliation-RSCP	126,581	0.000000	0	126,581	0.000000	0	0	0.00
28	Miscellaneous			0			0	0	0.00
29	Supply subtotal	126,581		<u>\$11,800</u>	126,581		<u>\$11,800</u>	\$0	0.00
30	Unbilled Supply			<u>(158)</u>			<u>(158)</u>	<u>0</u>	0.00
31	Supply subtotal w unbilled			<u>\$11,642</u>			<u>\$11,642</u>	\$0	0.00
32									
33	Total Delivery + Supply	126,581		<u>\$16,819</u>	126,581		<u>\$16,862</u>	<u>\$43</u>	0.26
34									
35									
32 33 34	,	126,581			126,581			·	

Notes:

All customers assumed to be on BGS.

RATE SCHEDULE RLM RESIDENTIAL LOAD MANAGEMENT SERVICE Madison and Marshall

(Units & Revenue inThousands)

Annualized

			r Normalized			Proposed		Difference		
	_	Units	Rate	Revenue	Units	Rate	Revenue	Revenue	Percent	
	<u>Delivery</u>	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)	
1	Service Charge	145.90	13.07	\$1,907	145.899	13.07	\$1,907	\$0	0.00	
2	Distribution June - September On Peak	43,971	0.069819	3,070	43,971	0.070569	3,103	33	1.07	
3	Distribution June - September Off Peak	48,084	0.014566	700	48,084	0.014733	708	8	1.14	
4	Distribution October - May On Peak	51,653	0.014566	752	51,653	0.014733	761	9	1.20	
5	Distribution October - May Off Peak	68,116	0.014566	992	68,116	0.014733	1,004	12	1.21	
6	SBC	211,824	0.007169	1,519	211,824	0.007169	1,519	0	0.00	
7	NGC	211,824	(0.000137)	(29)	211,824	(0.000137)	(29)	0	0.00	
8	STC-TBC	211,824	0.000000	0	211,824	0.000000	0	0	0.00	
9	STC-MTC-Tax	211,824	0.000000	0	211,824	0.000000	0	0	0.00	
10	Zero Emission Certificate Recovery Charge	211,824	0.004000	847	211,824	0.004000	847	0	0.00	
11	Solar Pilot Recovery Charge	211,824	0.000136	29	211,824	0.000136	29	0	0.00	
12	Green Programs Recovery Charge	211,824	0.001408	298	211,824	0.001408	298	0	0.00	
13	Tax Adjustment Credit	211,824	(0.003418)	(724)	211,824	(0.003418)	(724)	0	0.00	
14	Green Enabling Mechanism	211,824	0.000000	0	211,824	0.000000	0	0	0.00	
15	Facilities Chg.			0			0	0	0.00	
16	Minimum			0			0	0	0.00	
17	Miscellaneous			(9)			(9)	0	0.00	
18	Delivery Subtotal	211,824		\$9,352	211,824		\$9,414	\$62	0.66	
19	Unbilled Delivery			<u>(119)</u>			<u>(120)</u>	<u>(1)</u>	0.84	
20	Delivery Subtotal w unbilled			\$9,233			\$9,294	\$61	0.66	
21										
22	Supply-BGS									
23	BGS June - September On Peak	43,971	0.220455	\$9,694	43,971	0.220455	\$9,694	\$0	0.00	
24	BGS June - September Off Peak	48,084	0.053727	2,583	48,084	0.053727	2,583	0	0.00	
25	BGS October - May On Peak	51,653	0.207628	10,725	51,653	0.207628	10,725	0	0.00	
26	BGS October - May Off Peak	68,116	0.058816	4,006	68,116	0.058816	4,006	0	0.00	
27	BGS Reconciliation-RSCP	211,824	0.000000	0	211,824	0.000000	0	0	0.00	
28	Miscellaneous			0			0	0	0.00	
29	Supply subtotal	211,824		\$27.008	211,824		\$27.008	\$0	0.00	
30	Unbilled Supply			<u>(280)</u>			<u>(280)</u>	<u>0</u>	0.00	
31	Supply subtotal w unbilled			<u>\$26,728</u>			<u>\$26,728</u>	\$0	0.00	
32 33	Total Delivery + Supply	211.824		\$35,96 <u>1</u>	211,824		<u>\$36,022</u>	<u>\$61</u>	0.17	
34	Total Delivery - Supply	211,024		<u>ψου,θοι</u>	211,024		ΨΟΟ,ΟΖΖ	<u>ΨΟ 1</u>	0.17	

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Notes: All customers assumed to be on BGS.

RATE SCHEDULE WH WATER HEATING SERVICE Madison and Marshall

(Units & Revenue inThousands)

Annualized

Weather Normalized		<u>d</u>		Proposed		Difference			
		<u>Units</u>	Rate	Revenue	<u>Units</u>	Rate	Revenue	Revenue	Percent
	<u>Delivery</u>	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
1	Distribution Sum	329.000	0.047122	\$15.503	329.000	0.047389	\$15.591	\$0.088	0.57
2	Distribution Win	757	0.047122	\$35.671	757	0.047389	\$35.873	\$0.202	0.57
3	SBC	1,086	0.007169	\$7.786	1,086	0.007169	\$7.786	\$0.000	0.00
4	NGC	1,086	(0.000091)	-\$0.099	1,086	(0.000091)	-\$0.099	\$0.000	0.00
5	STC-TBC	1,086	0.000000	\$0.000	1,086	0.000000	\$0.000	\$0.000	0.00
6	STC-MTC-Tax	1,086	0.000000	\$0.000	1,086	0.000000	\$0.000	\$0.000	0.00
7	Zero Emission Certificate Recovery Charge	1,086	0.004000	\$4.344	1,086	0.004000	\$4.344	\$0.000	0.00
8	Solar Pilot Recovery Charge	1,086	0.000136	\$0.148	1,086	0.000136	\$0.148	\$0.000	0.00
9	Green Programs Recovery Charge	1,086	0.001408	\$1.529	1,086	0.001408	\$1.529	\$0.000	0.00
10	Tax Adjustment Credit	1,086	(0.002762)	-\$3.000	1,086	(0.002762)	-\$3.000	\$0.000	0.00
11	Green Enabling Mechanism	1,086	0.000000	\$0.000	1,086	0.000000	\$0.000	\$0.000	0.00
12	Facilities Chg.			\$0.000			\$0.000	\$0.000	0.00
13	Minimum			\$0.000			\$0.000	\$0.000	0.00
14	Miscellaneous			\$0.000			\$0.005	\$0.005	0.00
15	Delivery Subtotal	1,086		\$61.882	1,086		\$62.177	\$0.295	0.48
16	Unbilled Delivery			<u>-\$1.049</u>			<u>-\$1.054</u>	<u>-\$0.005</u>	0.48
17	Delivery Subtotal w unbilled			\$60.833			\$61.123	\$0.290	0.48
18									
19	Supply-BGS								
20	BGS Summer	329	0.046813	\$15.401	329	0.046813	\$15.401	\$0.000	0.00
21	BGS Winter	757	0.049065	\$37.142	757	0.049065	\$37.142	\$0.000	0.00
22	BGS Reconciliation-RSCP	1,086	0.000000	\$0.000	1,086	0.000000	\$0.000	\$0.000	0.00
23	Miscellaneous			\$0.000			\$0.000	\$0.000	0.00
24	Supply subtotal	1,086		\$52.543	1,086		\$52.543	\$0.000	0.00
25	Unbilled Supply			<u>\$0.000</u>			<u>\$0.000</u>	<u>\$0.000</u>	0.00
26	Supply subtotal w unbilled			\$52.543			\$52.543	\$0.000	0.00
27									
28	Total Delivery + Supply	1,086		\$113.376	1,086		<u>\$113.666</u>	\$0.290	0.26
29									

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Notes: All customers assumed to be on BGS.

WH, WHS & BPL-POF revenues shown to 3 decimals.

RATE SCHEDULE WHS WATER HEATING STORAGE SERVICE Madison and Marshall

(Units & Revenue inThousands)

Annualized

	_	Weath	ner Normalize	d	Proposed			Differer	nce
		<u>Units</u>	Rate	Revenue	<u>Units</u>	Rate	Revenue	Revenue	Percent
	<u>Delivery</u>	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
1	Service Charge	0.215	0.58	\$0.125	0.215	0.59	\$0.127	\$0.002	1.60
2	Distribution June - September	3.646	0.001580	0.006	3.646	0.001615	0.006	0.000	0.00
3	Distribution October - May	12.454	0.001580	0.020	12.454	0.001615	0.020	0.000	0.00
4	SBC	16.100	0.007169	0.115	16.100	0.007169	0.115	0.000	0.00
5	NGC	16.100	(0.000091)	(0.001)	16.100	(0.000091)	(0.001)	0.000	0.00
6	STC-TBC	16.100	0.000000	0.000	16.100	0.000000	0.000	0.000	0.00
7	STC-MTC-Tax	16.100	0.000000	0.000	16.100	0.000000	0.000	0.000	0.00
8	Zero Emission Certificate Recovery Cha	16.100	0.004000	0.064	16.100	0.004000	0.064	0.000	0.00
9	Solar Pilot Recovery Charge	16.100	0.000136	0.002	16.100	0.000136	0.002	0.000	0.00
10	Green Programs Recovery Charge	16.100	0.001408	0.023	16.100	0.001408	0.023	0.000	0.00
11	Tax Adjustment Credit	16.100	-0.093168	-1.500	16.100	-0.093168	-1.500	0.000	0.00
12	Green Enabling Mechanism	16.100	0.000000	0.000	16.100	0.000000	0.000	0.000	0.00
13	Facilities Chg.			0.000			0.000	0.000	0.00
14	Minimum			0.000			0.000	0.000	0.00
15	Miscellaneous			0.000			0.000	0.000	0.00
16	Delivery Subtotal	16		-\$1.146	16		-\$1.144	\$0.002	-0.17
17	Unbilled Delivery			0.023			0.023	0.000	0.00
18	Delivery Subtotal w unbilled			-\$1.123			-\$1.121	\$0.002	-0.18
19									
20	Supply-BGS								
21	BGS- June - September	3.646	0.046520	\$0.170	3.646	0.046520	\$0.170	\$0.000	0.00
22	BGS- October - May	12.454	0.049245	0.613	12.454	0.049245	0.613	0.000	0.00
23	BGS Reconciliation-RSCP	16.100	0.000000	0.000	16.100	0.000000	0.000	0.000	0.00
24	Miscellaneous			0.000			0.000	0.000	0.00
25	Supply subtotal	16.100		0.783	16.100		0.783	\$0.000	0.00
26	Unbilled Supply			(0.013)			(0.013)	0.000	0.00
27	Supply subtotal w unbilled			\$0.770			\$0.770	\$0.000	0.00
28									
29	Total Delivery + Supply	16.100		<u>-\$0.353</u>	16.100		<u>-\$0.351</u>	\$0.002	-0.57
30									
0.4									

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Notes: All customers assumed to be on BGS.

WH, WHS & BPL-POF revenues shown to 3 decimals.

RATE SCHEDULE HS BUILDING HEATING SERVICE Madison and Marshall

(Units & Revenue inThousands)

Annualized

	_	Weather Normalized			Proposed	Difference			
		<u>Units</u>	Rate	Revenue	<u>Units</u>	Rate	Revenue	Revenue	Percent
	<u>Delivery</u>	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
1	Service Charge	13.093	3.48	\$46	13.093	3.51	\$46	\$0	0.00
2	Distribution June - September	3,469	0.095993	333	3,469	0.096281	334	1	0.30
3	Distribution October - May	12,676	0.028716	364	12,676	0.028795	365	1	0.28
4	SBC	16,145	0.007169	116	16,145	0.007169	116	0	0.00
5	NGC	16,145	(0.000091)	(1)	16,145	(0.000091)	(1)	0	0.00
6	STC-TBC	16,145	0.000000	0	16,145	0.000000	0	0	0.00
7	STC-MTC-Tax	16,145	0.000000	0	16,145	0.000000	0	0	0.00
8	Zero Emission Certificate Recovery Charge	16,145	0.004000	65	16,145	0.004000	65	0	0.00
9	Solar Pilot Recovery Charge	16,145	0.000136	2	16,145	0.000136	2	0	0.00
10	Green Programs Recovery Charge	16,145	0.001408	23	16,145	0.001408	23	0	0.00
11	Tax Adjustment Credit	16,145	-0.001734	-28	16,145	-0.001734	-28	0	0.00
12	Green Enabling Mechanism	16,145	0.000000	0	16,145	0.000000	0	0	0.00
13	Facilities Chg.			0			0	0	0.00
14	Minimum			0			0	0	0.00
15	Miscellaneous			(1)			(1)	0	0.00
16	Delivery Subtotal	16,145		\$919	16,145		\$921	\$2	0.22
17	Unbilled Delivery			<u>(22)</u>			<u>(22)</u>	<u>0</u>	0.00
18	Delivery Subtotal w unbilled			\$897			\$899	\$2	0.22
19									
20	Supply-BGS								
21	BGS- June - September	3,469	0.103597	\$359	3,469	0.103597	\$359	\$0	0.00
22	BGS- October - May	12,676	0.101675	1289	12,676	0.101675	1289	0	0.00
23	BGS Reconciliation-RSCP	16,145	0.000000	0	16,145	0.000000	0	0	0.00
24	Miscellaneous			0			0	0	0.00
25	Supply subtotal	16,145		\$1,648	16,145		\$1,648	\$0	0.00
26	Unbilled Supply			<u>(27)</u>			<u>(27)</u>	<u>0</u>	0.00
27	Supply subtotal w unbilled			\$1,621			\$1,621	\$0	0.00
28									
29	Total Delivery + Supply	16,145		<u>\$2,518</u>	16,145		<u>\$2,520</u>	<u>\$2</u>	0.08
30									

Notes: All customers assumed to be on BGS.

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RATE SCHEDULE GLP **GENERAL LIGHTING AND POWER SERVICE** <u>Madison and Marshall</u> (Units & Revenue inThousands)

Annualized

		Weather Normalized			Proposed	Difference			
		<u>Units</u>	Rate	Revenue	<u>Units</u>	<u>Rate</u>	Revenue	Revenue	<u>Percent</u>
	<u>Delivery</u>	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
1	Service Charge	3,042.260	4.43	\$13,477	3,042.260	4.47	\$13,599	\$122	0.91
2	Service Charge-unmetered	100.329	2.05	206	100.329	2.07	208	2	0.97
3	Service Charge-Night Use	0.767	347.77	267	0.767	347.77	267	0	0.00
4	Distrib. KW Annual	28,477	3.6834	104,892	28,477	3.6935	105,180	288	0.27
5	Distrib. KW Summer	10,394	9.2370	96,009	10,394	9.2623	96,272	263	0.27
6	Distribution kWhr, June-September	2,784,306	0.003011	8,384	2,784,306	0.003019	8,406	22	0.26
7	Distribution kWhr, October-May	4,958,973	0.007686	38,115	4,958,973	0.007707	38,219	104	0.27
8	Distribution kWhr, Night use, June-September	7,441	0.007686	57	7,441	0.007707	57	0	0.00
9	Distribution kWhr, Night use, October-May	13,979	0.007686	107	13,979	0.007707	108	1	0.93
10	SBC	7,764,699	0.007169	55,665	7,764,699	0.007169	55,665	0	0.00
11	NGC	7,764,699	(0.000091)	(707)	7,764,699	(0.000091)	(707)	0	0.00
12	STC-TBC	7,764,699	0.000000	0	7,764,699	0.000000	0	0	0.00
13	STC-MTC-Tax	7,764,699	0.000000	0	7,764,699	0.000000	0	0	0.00
14	Zero Emission Certificate Recovery Charge	7,764,699	0.004000	31,059	7,764,699	0.004000	31,059	0	0.00
15	Solar Pilot Recovery Charge	7,764,699	0.000136	1,056	7,764,699	0.000136	1,056	0	0.00
16	Green Programs Recovery Charge	7,764,699	0.001408	10,933	7,764,699	0.001408	10,933	0	0.00
17	Tax Adjustment Credit	7,764,699	-0.001269	-9,853	7,764,699	-0.001269	-9,853	0	0.00
18	Green Enabling Mechanism	7,764,699	0.000000	0	7,764,699	0.000000	0	0	0.00
19	Duplicate Svc (Same Sub/Different Sub)		\$2.22/\$3.20	5		\$2.22/\$3.20	5	0	0.00
20	Facilities Chg.		1.45%	63		1.45%	63	0	0.00
21	Minimum			42			42	0	0.00
22	Distrib. Miscellaneous			(1,726)			(1,725)	<u>1</u>	-0.06
23	Delivery subtotal	0		\$348,051	0		\$348,854	\$803	0.23
24	Unbilled Delivery			<u>(1,283)</u>			(1,286)	<u>(3)</u>	0.23
25	Delivery subtotal w unbilled			\$346,768			\$347,568	\$800	0.23

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RATE SCHEDULE GLP GENERAL LIGHTING AND POWER SERVICE Madison and Marshall

(Units & Revenue inThousands)

Annualized

		Weather Normalized			Proposed	Difference			
		<u>Units</u>	Rate	Revenue	Units	Rate	Revenue	Revenue	Percent
	Supply-BGS	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
1	Generation Capacity Obl June-September	10,134	5.1628	\$52,320	10,134	5.1628	\$52,320	\$0	0.00
2	Generation Capacity Obl October-May	20,198	5.1628	104,278	20,198	5.1628	104,278	0	0.00
3	Transmission Capacity Obl	26,597	10.8603	288,851	26,597	10.8603	288,851	0	0.00
4	BGS kWhr June - September not night use	2,784,306	0.055377	154,187	2,784,306	0.055377	154,187	0	0.00
5	BGS kWhr October - May not night use	4,958,973	0.057101	283,162	4,958,973	0.057101	283,162	0	0.00
6	BGS kWhr June - September night use	7,441	0.039483	294	7,441	0.039483	294	0	0.00
7	BGS kWhr October - May night use	13,979	0.044122	617	13,979	0.044122	617	0	0.00
8	BGS Reconciliation-RSCP	7,764,699	0.000000	0	7,764,699	0.000000	0	0	0.00
9	BGS Miscellaneous			<u>(145)</u>			<u>(145)</u>	<u>0</u>	0.00
10	Supply subtotal	7,764,699		\$883,564	7,764,699		\$883,564	\$0	0.00
11	Unbilled Supply			<u>(171)</u>			<u>(171)</u>	<u>0</u>	0.00
12	Supply Subtotal w Unbilled			\$883,393			\$883,393	\$0	0.00
13									
14	Total Delivery + Supply	7,764,699		\$1,230,161	7,764,699		\$1,230,961	<u>\$800</u>	0.07
15									
16									
17									

1819 Notes: All customers assumed to be on BGS.

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RATE SCHEDULE LPL-Sec LARGE POWER & LIGHTING SERVICE-SECONDARY <u>Madison and Marshall</u>

(Units & Revenue inThousands)

Annualized

		Weather Normalized			Proposed	Difference			
		<u>Units</u>	Rate	Revenue	<u>Units</u>	Rate	Revenue	Revenue	Percent
	<u>Delivery</u>	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
1	Service Charge	103.740	347.77	\$36,078	103.740	347.77	\$36,078	\$0	0.00
2	Distrib. KW Annual	28,389	3.5156	99,804	28,389	3.5285	100,171	367	0.37
3	Distrib. KW June - September	10,139	8.3638	84,801	10,139	8.3946	85,113	312	0.37
4	Distribution kWhr On Peak June-September	1,986,049	0.000000	0	1,986,049	0.000000	0	0	0.00
5	Distribution kWhr Off Peak June-September	2,006,262	0.000000	0	2,006,262	0.000000	0	0	0.00
6	Distribution kWhr On Peak October-May	3,504,143	0.000000	0	3,504,143	0.000000	0	0	0.00
7	Distribution kWhr Off Peak October-May	3,780,348	0.000000	0	3,780,348	0.000000	0	0	0.00
8	SBC	11,276,802	0.007169	80,843	11,276,802	0.007169	80,843	0	0.00
9	NGC	11,276,802	(0.000091)	(1,026)	11,276,802	(0.000091)	(1,026)	0	0.00
10	STC-TBC	11,276,802	0.000000	0	11,276,802	0.000000	0	0	0.00
11	STC-MTC-Tax	11,276,802	0.000000	0	11,276,802	0.000000	0	0	0.00
12	Zero Emission Certificate Recovery Charge	11,276,802	0.004000	45,107	11,276,802	0.004000	45,107	0	0.00
13	Solar Pilot Recovery Charge	11,276,802	0.000136	1,534	11,276,802	0.000136	1,534	0	0.00
14	CIEP Standby Fee	4,018,143	0.000150	603	4,018,143	0.000150	603	0	0.00
15	Green Programs Recovery Charge	11,276,802	0.001408	15,878	11,276,802	0.001408	15,878	0	0.00
16	Tax Adjustment Credit	11,276,802	-0.000744	-8,390	11,276,802	-0.000744	-8,390	0	0.00
17	Green Enabling Mechanism	11,276,802	0.000000	0	11,276,802	0.000000	0	0	0.00
18	Duplicate Svc (Same Sub/Different Sub)		\$2.22/\$3.20	128		\$2.22/\$3.20	128	0	0.00
19	Facilities Chg.		1.45%	247		1.45%	247	0	0.00
20	Minimum			0			0	0	0.00
21	Dist. Miscellaneous			(1,202)			(1,202)	<u>0</u>	0.00
22	Delivery subtotal	11,276,802		\$354,405	11,276,802		\$355,084	\$679	0.19
23	Unbilled Delivery			<u>(1,551)</u>			<u>(1,554)</u>	<u>(3)</u>	0.19
24	Delivery subtotal w unbilled			\$352,854			\$353,530	\$676	0.19

RATE SCHEDULE LPL-Sec LARGE POWER & LIGHTING SERVICE-SECONDARY <u>Madison and Marshall</u>

(Units & Revenue inThousands)

Annualized

		Weather Normalized		d	F	Proposed		Difference	
		<u>Units</u>	Rate	Revenue	<u>Units</u>	Rate	Revenue	Revenue	Percent
	Supply-BGS	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
	<u>0-499</u>								
1	Generation Capacity Obl - June-September	6,439	5.1628	\$33,243	6,439	5.1628	\$33,243	\$0	0.00
2	Generation Capacity Obl - October-May	12,996	5.1628	67,096	12,996	5.1628	67,096	0	0.00
3	Transmission Capacity Obl	16,672	10.8603	181,063	16,672	10.8603	181,063	0	0.00
4	BGS kWhr June-September On Peak	1,302,213	0.065862	85,766	1,302,213	0.065862	85,766	0	0.00
5	BGS kWhr June-September Off Peak	1,315,466	0.039483	51,939	1,315,466	0.039483	51,939	0	0.00
6	BGS kWhr October-May On Peak	2,297,596	0.064870	149,045	2,297,596	0.064870	149,045	0	0.00
7	BGS kWhr October-May Off Peak	2,478,699	0.044122	109,365	2,478,699	0.044122	109,365	0	0.00
8	<u>500+</u>								
9	Generation Capacity Obl - June-September	3,422	8.7587	29,972	3,422	8.7587	29,972	0	0.00
10	Generation Capacity Obl - October-May	6,784	8.7587	59,419	6,784	8.7587	59,419	0	0.00
11	Transmission Capacity Obl	8,643	10.8603	93,866	8,643	10.8603	93,866	0	0.00
12	BGS kWhr June-September	1,374,632	0.039012	53,627	1,374,632	0.039012	53,627	0	0.00
13	Spare	0	0.039012	0	0	0.039012	0	0	0.00
14	BGS kWhr October-May	2,508,196	0.047416	118,929	2,508,196	0.047416	118,929	0	0.00
15	Spare	0	0.047416	0	0	0.047416	0	0	0.00
16									
17	BGS Reconciliation-RSCP	7,393,974	0.000000	0	7,393,974	0.000000	0	0	0.00
18	BGS Reconciliation-CIEP	3,882,828	0.000000	0	3,882,828	0.000000	0	0	0.00
19	BGS Miscellaneous			(102)			(102)	<u>0</u>	0.00
20	Supply subtotal	11,276,802		\$1,033,228	11,276,802		\$1,033,228	\$0	0.00
21	Unbilled Supply			(22,176)			(22,176)	<u>0</u>	0.00
22	Supply w Unbilled			\$1,011,052			\$1,011,052	\$ 0	0.00
23	,								
24	Total Delivery + Supply	11,276,802		\$1.363.906	11,276,802		\$1.364.582	<u>\$676</u>	0.05
25	, ,,,							<u> </u>	

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All customers assumed to be on BGS.

Notes:

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RATE SCHEDULE LPL-Pri LARGE POWER & LIGHTING SERVICE-PRIMARY Madison and Marshall (Units & Revenue inThousands)

Annualized Weather Normalized

		Allitualizeu					B.166			
		Weather Normalized		<u>d</u>		Proposed		Difference		
		<u>Units</u>	<u>Rate</u>	<u>Revenue</u>	<u>Units</u>	<u>Rate</u>	<u>Revenue</u>	<u>Revenue</u>	<u>Percent</u>	
	<u>Delivery</u>	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)	
1	Service Charge	8.672	347.77	\$3,016	8.672	347.77	\$3,016	\$0	0.00	
2	Service Charge-Alternate	0.373	20.02	7	0.373	20.21	8	1	14.29	
3	Distrib. KW Annual	7,243	1.6389	11,871	7,243	1.6444	11,910	39	0.33	
4	Distrib. KW June - September	2,493	9.0979	22,681	2,493	9.1287	22,758	77	0.34	
5	Distribution kWhr On Peak June-September	543,764	0.000000	0	543,764	0.000000	0	0	0.00	
6	Distribution kWhr Off Peak June-September	627,198	0.000000	0	627,198	0.000000	0	0	0.00	
7	Distribution kWhr On Peak October-May	938,452	0.000000	0	938,452	0.000000	0	0	0.00	
8	Distribution kWhr Off Peak October-May	1,126,000	0.000000	0	1,126,000	0.000000	0	0	0.00	
9	SBC	3,235,414	0.007033	22,755	3,235,414	0.007033	22,755	0	0.00	
10	NGC	3,235,414	(0.000089)	(288)	3,235,414	(0.000089)	(288)	0	0.00	
11	STC-TBC	3,235,414	0.000000	0	3,235,414	0.000000	0	0	0.00	
12	STC-MTC-Tax	3,235,414	0.000000	0	3,235,414	0.000000	0	0	0.00	
13	Zero Emission Certificate Recovery Charge	3,235,414	0.004000	12,942	3,235,414	0.004000	12,942	0	0.00	
14	Solar Pilot Recovery Charge	3,235,414	0.000136	440	3,235,414	0.000136	440	0	0.00	
15	CIEP Standby Fee	3,235,414	0.000150	485	3,235,414	0.000150	485	0	0.00	
16	Green Programs Recovery Charge	3,235,414	0.001408	4,555	3,235,414	0.001408	4,555	0	0.00	
17	Tax Adjustment Credit	3,235,414	-0.000452	-1,462	3,235,414	-0.000452	-1,462	0	0.00	
18	Green Enabling Mechanism	3,235,414	0.000000	0	3,235,414	0.000000	0	0	0.00	
19	Duplicate Svc (Same Sub/Different Sub)		\$2.22/\$3.20	557		\$2.22/\$3.20	557	0	0.00	
20	Facilities Chg.		1.45%	439		1.45%	439	0	0.00	
21	Minimum			7			7	0	0.00	
22	Dist. Miscellaneous			(304)			(303)	<u>1</u>	-0.33	
23	Delivery subtotal	3,235,414		\$77,701	3,235,414		\$77,819	\$118	0.15	
24	Unbilled Delivery			<u>(294)</u>			<u>(294)</u>	<u>0</u>	0.00	
25	Delivery subtotal w unbilled			\$77,407			\$77,525	\$118	0.15	

RATE SCHEDULE LPL-Pri LARGE POWER & LIGHTING SERVICE-PRIMARY <u>Madison and Marshall</u>

(Units & Revenue inThousands)

Annualized

		Weath	er Normalize	d	Proposed			Difference	
		<u>Units</u>	Rate	Revenue	<u>Units</u>	Rate	Revenue	Revenue	Percent
		(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
	Supply-BGS								
1	Generation Capacity Obl June-September	2,368	8.7587	\$20,741	2,368	8.7587	\$20,741	\$0	0.00
2	Generation Capacity Obl October-May	4,724	8.7587	41,376	4,724	8.7587	41,376	0	0.00
3	Transmission Capacity Obl	6,170	10.8603	67,008	6,170	10.8603	67,008	0	0.00
4	BGS kWhr June-September On Peak	543,764	0.037154	20,203	543,764	0.037154	20,203	0	0.00
5	BGS kWhr June-September Off Peak	627,198	0.037154	23,303	627,198	0.037154	23,303	0	0.00
6	BGS kWhr October-May On Peak	938,452	0.045354	42,563	938,452	0.045354	42,563	0	0.00
7	BGS kWhr October-May Off Peak	1,126,000	0.045354	51,069	1,126,000	0.045354	51,069	0	0.00
8	BGS Reconciliation-CIEP	3,235,414	0.000000	0	3,235,414	0.000000	0	0	0.00
9	BGS Miscellaneous			<u>0</u>			<u>0</u>	<u>0</u>	0.00
10	Supply subtotal	3,235,414		\$266,263	3,235,414		\$266,263	\$0	0.00
11	Unbilled Supply			<u>3,569</u>			<u>3,569</u>	<u>0</u>	0.00
12	Supply w Unbilled			\$269,832			\$269,832	\$0	0.00
13									
14	Total Delivery + Supply	3,235,414		<u>\$347,239</u>	3,235,414		<u>\$347,357</u>	<u>\$118</u>	0.03

Notes: All customers assumed to be on BGS.

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RATE SCHEDULE HTS-SUBTR. HIGH TENSION SERVICE-SUBTRANSMISSION Madison and Marshall

(Units & Revenue inThousands)

Annualized

	_	Weath	ner Normalize	<u>d</u>	Proposed			Difference	
		<u>Units</u>	<u>Rate</u>	Revenue	<u>Units</u>	<u>Rate</u>	Revenue	Revenue	Percent
	<u>Delivery</u>	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
1	Service Charge	2.319	1,911.39	\$4,433	2.319	1,911.39	\$4,433	\$0	0.00
2	Distrib. KW Annual	11,987	1.0646	12,761	11,987	1.0725	12,856	95	0.74
3	Distrib. KW June - September	2,962	3.8482	11,398	2,962	3.8769	11,483	85	0.75
4	Distribution kWhr On Peak	1,616,031	0.000000	0	1,616,031	0.000000	0	0	0.00
5	Spare	0	0.000000	0	0	0.000000	0	0	0.00
6	Distribution kWhr On Peak	2,950,441	0.000000	0	2,950,441	0.000000	0	0	0.00
7	Spare	0	0.000000	0	0	0.000000	0	0	0.00
8	SBC	4,566,472	0.006967	31,815	4,566,472	0.006967	31,815	0	0.00
9	NGC	4,566,472	(0.000088)	(402)	4,566,472	(0.000088)	(402)	0	0.00
10	STC-TBC	4,566,472	0.000000	0	4,566,472	0.000000	0	0	0.00
11	STC-MTC-Tax	4,566,472	0.000000	0	4,566,472	0.000000	0	0	0.00
12	Zero Emission Certificate Recovery Charge	4,566,472	0.004000	18,266	4,566,472	0.004000	18,266	0	0.00
13	Solar Pilot Recovery Charge	4,566,472	0.000136	621	4,566,472	0.000136	621	0	0.00
14	CIEP Standby Fee	4,566,472	0.000150	685	4,566,472	0.000150	685	0	0.00
15	Green Programs Recovery Charge	4,566,472	0.001408	6,430	4,566,472	0.001408	6,430	0	0.00
16	Tax Adjustment Credit	4,566,472	-0.000465	-2,123	4,566,472	-0.000465	-2,123	0	0.00
17	Green Enabling Mechanism	4,566,472	0.000000	0	4,566,472	0.000000	0	0	0.00
18	Duplicate Svc (Same Sub/Different Sub)		\$1.83/\$2.20	105		\$1.83/\$2.20	105	0	0.00
19	Facilities Chg.		1.45%	686		1.45%	686	0	0.00
20	Minimum			0			0	0	0.00
21	Dist. Miscellaneous			<u>(527)</u>			<u>(527)</u>	<u>0</u>	0.00
22	Delivery subtotal	4,566,472		\$84,148	4,566,472		\$84,328	\$180	0.21
23	Unbilled Delivery			(300)			<u>(301)</u>	<u>(1)</u>	0.33
24	Delivery subtotal w unbilled			\$83,848			\$84,027	\$179	0.21

RATE SCHEDULE HTS-SUBTR. HIGH TENSION SERVICE-SUBTRANSMISSION

Attachment 2

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Madison and Marshall

(Units & Revenue inThousands)

Annualized

	_	Weath	er Normalize	d		Proposed		Differer	nce
		<u>Units</u>	Rate	Revenue	<u>Units</u>	Rate	Revenue	Revenue	Percent
	Supply-BGS	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
1	Generation Capacity Obl June-September	2,724	8.7587	\$23,859	2,724	8.7587	\$23,859	\$0	0.00
2	Generation Capacity Obl October-May	5,423	8.7587	47,498	5,423	8.7587	47,498	0	0.00
3	Transmission Capacity Obl	7,276	10.8603	79,020	7,276	10.8603	79,020	0	0.00
4	BGS kWhr June-September	1,616,031	0.036671	59,261	1,616,031	0.036671	59,261	0	0.00
5	Spare	0	0.036671	0	0	0.036671	0	0	0.00
6	BGS kWhr October-May	2,950,441	0.044162	130,297	2,950,441	0.044162	130,297	0	0.00
7	Spare	0	0.044162	0	0	0.044162	0	0	0.00
8	BGS Reconciliation-CIEP	4,566,472	0.000000	0	4,566,472	0.000000	0	0	0.00
9	BGS Miscellaneous			(24)			(24)	<u>0</u>	0.00
10	Supply subtotal	4,566,472		\$339,911	4,566,472		\$339,911	\$0	0.00
11	Unbilled Supply			<u>14,035</u>			<u>14,035</u>	<u>0</u>	0.00
12	Supply w Unbilled			\$353,946			\$353,946	\$0	0.00
13									
14	Total Delivery + Supply	4,566,472		\$437,794	4,566,472		\$437,973	<u>\$179</u>	0.04
15									
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19 Note 20

Notes: All customers assumed to be on BGS.

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RATE SCHEDULE HTS-HV HIGH TENSION SERVICE-HIGH VOLTAGE Madison and Marshall

(Units & Revenue inThousands)

Annualized

	_	Weath	er Normalized		Proposed			Difference	
		<u>Units</u>	Rate	Revenue	<u>Units</u>	Rate	Revenue	Revenue	Percent
	<u>Delivery</u>	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
1	Service Charge	0.166	1,720.25	\$286	0.166	1,720.25	\$286	\$0	0.00
2	Distrib. KW Annual	3,286	0.6145	2,019	3,286	0.6166	2,026	7	0.35
3	Distrib. KW June - September	0	0.000000	0	0	0.000000	0	0	0.00
4	Distribution kWhr June - September	148,652	0.000000	0	148,652	0.000000	0	0	0.00
5	Spare	0	0.000000	0	0	0.000000	0	0	0.00
6	Distribution kWhr October - May	269,345	0.000000	0	269,345	0.000000	0	0	0.00
7	Spare	0	0.000000	0	0	0.000000	0	0	0.00
8	SBC	417,997	0.006908	2,888	417,997	0.006908	2,888	0	0.00
9	NGC	417,997	(0.000087)	(36)	417,997	(0.000087)	(36)	0	0.00
10	STC-TBC	417,997	0.000000	0	417,997	0.000000	0	0	0.00
11	STC-MTC-Tax	417,997	0.000000	0	417,997	0.000000	0	0	0.00
12	Zero Emission Certificate Recovery Charge	417,997	0.004000	1,672	417,997	0.004000	1,672	0	0.00
13	Solar Pilot Recovery Charge	417,997	0.000136	57	417,997	0.000136	57	0	0.00
14	CIEP Standby Fee	417,997	0.000150	63	417,997	0.000150	63	0	0.00
15	Green Programs Recovery Charge	417,997	0.001408	589	417,997	0.001408	589	0	0.00
16	Tax Adjustment Credit	417,997	-0.000211	-88	417,997	-0.000211	-88	0	0.00
17	Green Enabling Mechanism	417,997	0.000000	0	417,997	0.000000	0	0	0.00
18	Facilities Chg.			33			33	0	0.00
19	Minimum			0			0	0	0.00
20	Dist. Miscellaneous			<u>(79)</u>			<u>(79)</u>	<u>0</u>	0.00
21	Delivery subtotal	417,997		\$7,404	417,997		\$7,411	\$7	0.09
22	Unbilled Delivery			<u>82</u>			<u>82</u>	0	0.00
23	Delivery subtotal w unbilled			\$7, 48 6			\$7, 49 3	\$ 7	0.09

RATE SCHEDULE HTS-HV HIGH TENSION SERVICE-HIGH VOLTAGE **Madison and Marshall**

(Units & Revenue inThousands)

Annualized

	_	Weathe	r Normalized			Proposed		Difference	
		<u>Units</u>	Rate	Revenue	Units	Rate	Revenue	Revenue	Percent
	Supply-BGS	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
1	Generation Capacity Obl June-September	208	8.7587	\$1,822	208	8.7587	\$1,822	\$0	0.00
2	Generation Capacity Obl October-May	452	8.7587	3,959	452	8.7587	3,959	0	0.00
3	Transmission Capacity Obl	561	10.8603	6,093	561	10.8603	6,093	0	0.00
4	BGS kWhr June-September	148,652	0.030708	4,565	148,652	0.030708	4,565	0	0.00
5	Spare	0	0.030708	0	0	0.030708	0	0	0.00
6	BGS kWhr October-May	269,345	0.044893	12,092	269,345	0.044893	12,092	0	0.00
7	Spare	0	0.044893	0	0	0.044893	0	0	0.00
8	BGS Reconciliation-CIEP	417,997	0.000000	0	417,997	0.000000	0	0	0.00
9	BGS Miscellaneous			0			0	<u>0</u>	0.00
10	Supply subtotal	417,997		\$28,531	417,997		\$28,531	\$0	0.00
11	Unbilled Supply			<u>0</u>			<u>0</u>	<u>0</u>	0.00
12	Supply w Unbilled			\$28,531			\$28,531	\$0	0.00
13	• • •								
14	Total Delivery + Supply	417,997		\$36,017	417,997		\$36,024	<u>\$7</u>	0.02
15							<u> </u>	_	

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Notes: All customers assumed to be on BGS.

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RATE SCHEDULE BPL BODY POLITIC LIGHTING SERVICE Madison and Marshall

(Units & Revenue inThousands)

Annualized

		Weathe	er Normalized		Proposed			Difference	
	_	Units	Rate	Revenue	Units	Rate	Revenue	Revenue	Percent
	Delivery	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
1	High Pressure Sodium	2,266.536	0		2,266.536		\$ 25,814	` ´\$0	0.00
2	Metal Halide	281.316	0	6,365	281.316	0	6,365	0	0.00
3	Filament	153.684	0	577	153.684	0	577	0	0.00
4	Mercury Vapor	1,702.464	0	18,768	1,702.464	0	18,768	0	0.00
5	Fluorescent	0.204	0	3	0.204	0	3	0	0.00
6									
7	Distribution June-September	72,030	0.006713	\$484	72,030	0.006735	\$485	1	0.21
8	Distribution October-May	210,828	0.006713	1,415	210,828	0.006735	1,420	5	0.35
9	SBC	282,858	0.007169	2,028	282,858	0.007169	2,028	0	0.00
10	NGC	282,858	(0.000091)	(26)	282,858	(0.000091)	(26)	0	0.00
11	STC-TBC	282,858	0.000000	Ò	282,858	0.000000	Ò	0	0.00
12	STC-MTC-Tax	282,858	0.000000	0	282,858	0.000000	0	0	0.00
13	Zero Emission Certificate Recovery Char	282,858	0.004000	1,131	282,858	0.004000	1,131	0	0.00
14	Solar Pilot Recovery Charge	282,858	0.000136	38	282,858	0.000136	38	0	0.00
15	Green Programs Recovery Charge	282,858	0.001408	398	282,858	0.001408	398	0	0.00
16	Tax Adjustment Credit	282,858	0.000000	0	282,858	0.000000	0	0	0.00
17	Green Enabling Mechanism	282,858	0.000000	0	282,858	0.000000	0	0	0.00
18	3	,			, , , , , , ,				
19	Pole Charges	555.636		2,237	555.636		2,237	0	0.00
20	Minimum			0			0	0	0.00
21	Miscellaneous			352			352	0	0.00
22	Delivery Subtotal			\$59,584			\$59,590	\$6	0.01
23	Unbilled Delivery			<u>0</u>			<u>0</u>	<u>0</u>	0.00
24	Delivery Subtotal w unbilled			\$59,58 4			\$59,59 0	\$ 6	0.01
25	,			* ,			, ,	, -	
26	Supply-BGS								
27	BGS June-September	72,030	0.041926	3,020	72,030	0.041926	3,020	0	0.00
28	BGS October-May	210,828	0.046908	9,890	210,828	0.046908	9,890	0	0.00
29	BGS Reconciliation-RSCP	282,858	0.000000	0	282,858	0.000000	0	0	0.00
30	Miscellaneous	,		(104)	,		(104)	0	0.00
31	Supply subtotal			\$12,806			\$12,806	\$0	0.00
32	Unbilled Supply			<u>0</u>			<u>0</u>	<u>0</u>	0.00
33	Supply subtotal w unbilled			\$12,806			\$12,80 6	\$ 0	0.00
34	capp., cantota anomod			ų · =,000			ų . <u>_</u> ,000	Ψ	0.00
35	Total Delivery + Supply	282,858		\$72,390	282,858		\$72,396	<u>\$6</u>	0.01
36		,		<u> </u>	,			<u> </u>	
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Notes: All customers assumed to be on BGS.

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RATE SCHEDULE BPL-POF **BODY POLITIC LIGHTING SERVICE-POF**

Attachment 2

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Madison and Marshall (Units & Revenue inThousands)

Annualized

		Weath	ner Normalize	d		Proposed				Difference	
	_	Units	Rate	F	Revenue	<u>Units</u>	Rate	Ī	Revenue	Revenue	Percent
	<u>Delivery</u>	(1)	(2)	_	(3=1*2)	(4)	(5)		(6=4*5)	(7=6-3)	(8=7/3)
1	High Pressure Sodium	125.460	0	\$	181.000	125.460	`´ 0	\$	181.000	\$0.000	0.00
2	Metal Halide	1.476	0	\$	5.000	1.476	0	\$	5.000	\$0.000	0.00
3	Filament	5.916	0	\$	22.000	5.916	0	\$	22.000	\$0.000	0.00
4	Mercury Vapor	4.236	0	\$	4.000	4.236	0	\$	4.000	\$0.000	0.00
5	Fluorescent	0.024	0	\$	_	0.024	0	\$	_	\$0.000	0.00
6											
7	Distribution June-September	4,259	0.006708	\$	28.569	4,259	0.006729	\$	28.659	\$0.090	0.32
8	Distribution October-May	10,191	0.006708	\$	68.361	10,191	0.006729	\$	68.575	\$0.214	0.31
9	SBC	14,450	0.007169	\$	103.592	14,450	0.007169	\$	103.592	\$0.000	0.00
10	NGC	14,450	(0.000091)	\$	(1.315)	14,450	(0.000091)	\$	(1.315)	\$0.000	0.00
11	STC-TBC	14,450	0.000000	\$	· - ′	14,450	0.000000	\$	· -	\$0.000	0.00
12	STC-MTC-Tax	14,450	0.000000	\$	-	14,450	0.000000	\$	-	\$0.000	0.00
13	Zero Emission Certificate Recovery Cha	14,450	0.004000	\$	57.800	14,450	0.004000	\$	57.800	\$0.000	0.00
14	Solar Pilot Recovery Charge	14,450	0.000136	\$	1.965	14,450	0.000136	\$	1.965	\$0.000	0.00
15	Green Programs Recovery Charge	14,450	0.001408	\$	20.346	14,450	0.001408	\$	20.346	\$0.000	0.00
16	Tax Adjustment Credit	14,450	-0.001107	\$	(15.996)	14,450	-0.001107	\$	(15.996)	\$0.000	0.00
17	Green Enabling Mechanism	14,450	0.000000	\$	· - ′	14,450	0.000000	\$		\$0.000	0.00
18	-										
19	Pole Charges			\$	-			\$	_	\$0.000	0.00
20	Minimum			\$	-			\$	-	\$0.000	0.00
21	Miscellaneous			\$	11.000			\$	10.996	-\$0.004	(0.04)
22	Delivery Subtotal			\$	486.322			\$	486.622	\$0.300	0.06
23	Unbilled Delivery			\$	-			\$	-	\$0.000	0.00
24	Delivery Subtotal w unbilled			\$	486.322			\$	486.622	\$0.300	0.06
25	•										
26	Supply-BGS										
27	BGS June-September	4,259	0.041926	\$	178.563	4,259	0.041926	\$	178.563	\$0.000	0.00
28	BGS October-May	10,191	0.046908	\$	478.039	10,191	0.046908	\$	478.039	\$0.000	0.00
29	BGS Reconciliation-RSCP	14,450	0.000000		-	14,450	0.000000		-	\$0.000	0.00
30	Miscellaneous			\$	-			\$	-	\$0.000	0.00
31	Supply subtotal			\$	656.602			\$	656.602	\$0.000	0.00
32	Unbilled Supply			\$	-			\$	-	\$0.000	0.00
33	Supply subtotal w unbilled			\$	656.602			\$	656.602	\$0.000	0.00
34	,			·						•	
35	Total Delivery + Supply	14,450		\$	1,142.924	14,450		\$	1,143.224	\$0.300	0.03
36	, , , ,	,				,					
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00											

Notes: All customers assumed to be on BGS.

WH, WHS & BPL-POF revenues shown to 3 decimals.

Attachment 2 Page 25 of 27

RATE SCHEDULE PSAL PRIVATE STREET AND AREA LIGHTING SERVICE Madison and Marshall

(Units & Revenue inThousands)

Annualized

		Weath	ner Normalize	d	Proposed			Difference	
	_	<u>Units</u>	Rate	Revenue	Units	Rate	Revenue	Revenue	Percent
	<u>Delivery</u>	(1)	(2)	(3=1*2)	(4)	(5)	(6=4*5)	(7=6-3)	(8=7/3)
1	High Pressure Sodium	818.700	0	\$ 15,407	818.700	0 5	15,407	\$0	0.00
2	Metal Halide	231.864	0	6,308	231.864	0	6,308	0	0.00
3	Filament	0.792	0	4	0.792	0	4	0	0.00
4	Mercury Vapor	102.132	0	1,509	102.132	0	1,509	0	0.00
5	Fluorescent	0.012	0	-	0.012	0	-	0	0.00
6									
7	Distribution June-September	41,200	0.007152	\$295	41,200	0.007184	\$296	1	0.34
8	Distribution October-May	110,532	0.007152	791	110,532	0.007184	794	3	0.38
9	SBC	151,732	0.007169	1,088	151,732	0.007169	1,088	0	0.00
10	NGC	151,732	(0.000091)	(14)	151,732	(0.000091)	(14)	0	0.00
11	STC-TBC	151,732	0.000000	0	151,732	0.000000	0	0	0.00
12	STC-MTC-Tax	151,732	0.000000	0	151,732	0.000000	0	0	0.00
13	Zero Emission Certificate Recovery Char	151,732	0.004000	607	151,732	0.004000	607	0	0.00
14	Solar Pilot Recovery Charge	151,732	0.000136	21	151,732	0.000136	21	0	0.00
15	Green Programs Recovery Charge	151,732	0.001408	214	151,732	0.001408	214	0	0.00
16	Tax Adjustment Credit	151,732	0.000000	0	151,732	0.000000	0	0	0.00
17	Green Enabling Mechanism	151,732	0.000000	0	151,732	0.000000	0	0	0.00
18	-								
19	Pole Charges	427.500		3,510	427.500		3,510	0	0.00
20	Minimum			0			0	0	0.00
21	Miscellaneous			53			53	0	0.00
22	Delivery Subtotal			\$29,793			\$29,797	\$4	0.01
23	Unbilled Delivery			<u>(93)</u>			<u>(93)</u>	<u>0</u>	0.00
24	Delivery Subtotal w unbilled			\$29,700			\$29,704	\$4	0.01
25									
26	Supply-BGS								
27	BGS June-September	41,200	0.041926	1,727	41,200	0.041926	1,727	0	0.00
28	BGS October-May	110,532	0.046908	5,185	110,532	0.046908	5,185	0	0.00
29	BGS Reconciliation-RSCP	151,732	0.000000	0	151,732	0.000000	0	0	0.00
30	Miscellaneous			190			190	0	0.00
31	Supply subtotal			\$7,102			\$7,102	\$0	0.00
32	Unbilled Supply			<u>(60)</u>			<u>(60)</u>	<u>0</u>	0.00
33	Supply subtotal w unbilled			\$7,042			\$7,042	\$0	0.00
34	• • •			•			•		
35	Total Delivery + Supply	151,732		\$36,742	151,732		\$36,746	<u>\$4</u>	0.01
36								<u> </u>	
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Notes: All customers assumed to be on BGS.

		Pres	ent	Proposed		
		Charge w/out SUT	Charge including SUT	Charge w/out SUT	Charge including SUT	Difference w/out SUT
Rate Schedules RS	Comice Channe	#4.64	#4.0 F	¢4.64	#4.0 F	#0.00
RS	Service Charge	\$4.64	\$4.95 \$0.039706	\$4.64	\$4.95	\$0.00
	Distribution 0-600 Sum Distribution 0-600 Win	\$0.037239 \$0.033344	\$0.039706 \$0.035553	\$0.038262 \$0.033344	\$0.040797 \$0.035553	\$0.001023 \$0.000000
	Distribution over 600 Sum	\$0.033344	\$0.03555	\$0.033344	\$0.035555 \$0.044871	\$0.00000
	Distribution over 600 Sum Distribution over 600 Win	\$0.033344	\$0.045760	\$0.033344	\$0.035553	\$0.001023
	Distribution over 600 Will	Ф 0.033344	φυ.υ <u>35553</u>	\$0.033344	φυ.υ ა οοοο	φυ.υυυυυυ
RHS	Service Charge	\$4.64	\$4.95	\$4.64	\$4.95	\$0.00
	Distribution 0-600 Sum	\$0.048037	\$0.051219	\$0.048628	\$0.051850	\$0.000591
	Distribution 0-600 Win	\$0.032539	\$0.034695	\$0.032800	\$0.034973	\$0.000261
	Distribution over 600 Sum	\$0.052937	\$0.056444	\$0.053528	\$0.057074	\$0.000591
	Distribution over 600 Win	\$0.014939	\$0.015929	\$0.015200	\$0.016207	\$0.000261
	Common Use	\$0.052937	\$0.056444	\$0.053528	\$0.057074	\$0.000591
RLM	Service Charge	\$13.07	\$13.94	\$13.07	\$13.94	\$0.00
	Distrib. kWhr Summer On	\$0.069819	\$0.074445	\$0.070569	\$0.075244	\$0.000750
	Distrib. kWhr Summer Off	\$0.014566	\$0.015531	\$0.014733	\$0.015709	\$0.000167
	Distrib. kWhr Winter On	\$0.014566	\$0.015531	\$0.014733	\$0.015709	\$0.000167
	Distrib. kWhr Winter Off	\$0.014566	\$0.015531	\$0.014733	\$0.015709	\$0.000167
WH	Distribution	\$0.047122	\$0.050244	\$0.047389	\$0.050529	\$0.000267
WHS	Service Charge	\$0.58	\$0.62	\$0.59	\$0.63	\$0.01
WIIO	Distribution	\$0.001580	\$0.001685	\$0.001615	\$0.001722	\$0.000035
HS	Service Charge	\$3.48	\$3.71	\$3.51	\$3.74	\$0.03
	Distribution June-September	\$0.095993	\$0.102353	\$0.096281	\$0.102660	\$0.000288
	Distribution October-May	\$0.028716	\$0.030618	\$0.028795	\$0.030703	\$0.000079
GLP	Service Charge	\$4.43	\$4.72	\$4.47	\$4.77	\$0.04
	Service Charge-unmetered	\$2.05	\$2.19	\$2.07	\$2.21	\$0.02
	Service Charge-Night Use	\$347.77	\$370.81	\$347.77	\$370.81	\$0.00
	Distrib. KW Annual	\$3.6834	\$3.9274	\$3.6935	\$3.9382	\$0.0101
	Distrib. KW Summer	\$9.2370	\$9.8490	\$9.2623	\$9.8759	\$0.0253
	Distribution kWhr, June-September	\$0.003011	\$0.003210	\$0.003019	\$0.003219	\$0.000008
	Distribution kWhr, October-May	\$0.007686	\$0.008195	\$0.007707	\$0.008218	\$0.000021
	Distribution kWhr, Night use, June-September	\$0.007686	\$0.008195	\$0.007707	\$0.008218	\$0.000021
	Distribution kWhr, Night use, October-May	\$0.007686	\$0.008195	\$0.007707	\$0.008218	\$0.000021

		Pres	ent	Proposed		
		Charge w/out SUT	Charge including SUT	Charge w/out SUT	Charge including SUT	Difference w/out SUT
Rate Schedules						
LPL-Secondary	Service Charge	\$347.77	\$370.81	\$347.77	\$370.81	\$0.00
	Distrib. KW Annual	\$3.5156	\$3.7485	\$3.5285	\$3.7623	\$0.0129
	Distrib. KW Summer	\$8.3638	\$8.9179	\$8.3946	\$8.9507	\$0.0308
	Distribution kWhr	\$0.000000	\$0.000000	\$0.000000	\$0.000000	\$0.00000
LPL-Primary	Service Charge	\$347.77	\$370.81	\$347.77	\$370.81	\$0.00
	Service Charge-Alternate	\$20.02	\$21.35	\$20.21	\$21.55	\$0.19
	Distrib. KW Annual	\$1.6389	\$1.7475	\$1.6444	\$1.7533	\$0.0055
	Distrib. KW Summer	\$9.0979	\$9.7006	\$9.1287	\$9.7335	\$0.0308
	Distribution kWhr	\$0.000000	\$0.000000	\$0.000000	\$0.000000	\$0.000000
HTS-Subtransmission	Service Charge	\$1,911.39	\$2,038.02	\$1,911.39	\$2,038.02	\$0.00
	Distrib. KW Annual	\$1.0646	\$1.1351	\$1.0725	\$1.1436	\$0.0079
	Distrib. KW Summer	\$3.8482	\$4.1031	\$3.8769	\$4.1337	\$0.0287
	Distribution kWhr	\$0.000000	\$0.000000	\$0.000000	\$0.000000	\$0.000000
LITO LIV		*4 7 00 05	* 4.004.00	44 700 05	* 4.004.00	* 0.00
HTS-HV	Service Charge	\$1,720.25	\$1,834.22	\$1,720.25	\$1,834.22	\$0.00
	Distrib. KW Annual	\$0.6145 \$0.000000	\$0.6552	\$0.6166	\$0.6574	\$0.0021
	Distribution kWhr	\$0.000000	\$0.000000	\$0.000000	\$0.000000	\$0.000000
BPL	Distribution Sum	\$0.006713	\$0.007158	\$0.006735	\$0.007181	\$0.000022
<i>5</i> 1 <i>2</i>	Distribution Winter	\$0.006713	\$0.007158	\$0.006735	\$0.007181	\$0.000022
BPL-POF	Distribution Sum	\$0.006708	\$0.007152	\$0.006729	\$0.007175	\$0.000021
	Distribution Winter	\$0.006708	\$0.007152	\$0.006729	\$0.007175	\$0.000021
PSAL	Distribution Sum	\$0.007152	\$0.007626	\$0.007184	\$0.007660	\$0.000032
	Distribution Winter	\$0.007152	\$0.007626	\$0.007184	\$0.007660	\$0.000032

TYPICAL RESIDENTIAL ELECTRIC BILL IMPACTS

The effect of the proposed change in the Madison & Marshall substations (M&M) on typical residential electric bills, if approved by the Board, is illustrated below:

	Re	esidential Ele	ctric Service	9	
		Then Your	And Your		
If Your		Present	Proposed		And Your
Monthly	And Your	Annual Bill	Annual Bill	Your Annual	Percent
Summer	Annual kWhr	(1) Would	(2) Would	Bill Change	Change
kWhr Use Is:	Use Is:	Be:	Be:	Would Be:	Would Be:
185	1,732	\$357.80	\$358.60	\$0.80	0.22%
370	3,464	656.08	657.68	1.60	0.24
740	6,920	1,258.84	1,262.08	3.24	0.26
803	7,800	1,413.30	1,416.83	3.53	0.25
1,337	12,500	2,252.48	2,258.32	5.84	0.26

⁽¹⁾ Based upon current Delivery Rates and Basic Generation Service Residential Small Commercial Pricing (BGS-RSCP) charges in effect April 18, 2019 and assumes that the customer receives BGS-RSCP service from Public Service.

(2) Same as (1) except includes change in M&M.

	R	esidential Ele	ctric Servic	е	
		Then Your	And Your		
		Present	Proposed	Your	
	And Your	Monthly	Monthly	Monthly	And Your
If Your	Monthly	Summer Bill	Summer	Summer Bill	Percent
Annual kWhr	Summer	(3) Would	Bill (4)	Change	Change
Use Is:	kWhr Use Is:	Be:	Would Be:	Would Be:	Would Be:
1,732	185	\$37.25	\$37.45	\$0.20	0.54%
3,464	370	69.56	69.96	0.40	0.58
6,920	740	136.07	136.88	0.81	0.60
7,800	803	147.93	148.81	0.88	0.59
12,500	1,337	248.50	249.96	1.46	0.59

⁽³⁾ Based upon current Delivery Rates and Basic Generation Service Residential Small Commercial Pricing (BGS-RSCP) charges in effect April 18, 2019 and assumes that the customer receives BGS-RSCP service from Public Service

(4) Same as (3) except includes change in M&M.

NOTICE TO PUBLIC SERVICE ELECTRIC AND GAS COMPANY ELECTRIC CUSTOMERS

IN THE MATTER OF THE PETITION OF PUBLIC SERVICE ELECTRIC AND GAS COMPANY FOR APPROVAL OF THE MADISON & MARSHALL SUBSTATIONS (M&M)

Notice of a Filing and Notice of Public Hearings

Docket No. XXXXXXXXXX

TAKE NOTICE that, on April 30, 2019 Public Service Electric and Gas Company (Public Service, PSE&G, the Company) filed a Petition and supporting documentation with the New Jersey Board of Public Utilities (Board, BPU) seeking Board approval for electric base rate changes to provide for cost recovery associated with the Company's Madison & Marshall (M&M) Substations.

The filing reflects PSE&G's recovery of and on the capital investments associated with the M&M substations that were incurred from October 1, 2014 through June 30, 2019. The substations were initially part of the Energy Strong Program (ES) approved by the Board Docket Nos. EO13020155 & GO13020156 on May 21, 2014. However, due to a scope change related to the raise and rebuild of the M&M Substations, the investments were to be recovered outside of ES. This filing is being made pursuant an Agreement Regarding Withdrawal of Objection (Agreement), dated November 30, 2016. The agreement allowed the Company to reflect reasonable and prudent costs associated with the M&M substations to be reflected in base rates so long as it went into service more than six months but less than one year after the test year in the Company's 2018 Base Rate Case.

Under the Company's proposal, PSE&G seeks Board approval to recover in base rates an estimated annual revenue increase associated with the capitalized investment costs of the M&M substations incurred through June 30, 2019 of approximately \$7.4 million from the Company's electric customers.

For illustrative purposes the estimated Base Rates effective October 1, 2019 including New Jersey Sales and Use Tax (SUT) for residential Rate Schedule RS are shown in Table #1.

Table #2 provides customers with the approximate impact of the proposed increase in rates relating to the M&M substations, if approved by the Board. The annual percentage increase applicable to specific

customers will vary according to the applicable rate schedule and the level of the customer's usage.

Under the Company's proposal, a typical residential electric customer using 740 kilowatt-hours per summer month and 6,920 kilowatt-hours on an annual basis would see an increase in the annual bill from \$1,258.84 to \$1,262.08, or \$3.24 or approximately 0.26%. The approximate effect of the proposed increase on typical electric residential monthly bills, if approved by the Board, is illustrated in Table #3.

Any rate adjustments with resulting changes in bill impacts found by the Board to be just and reasonable as the result of the Company's filing may be modified and/or allocated by the Board in accordance with the provisions of N.J.S.A 48:2-21 and for other good and legally sufficient reasons to any class or classes of customers of the Company. Therefore, the described charges may increase or decrease based upon the Board's decision.

Copies of the Company's filing are available for review at the Company's Customer Service Centers (addresses located here:

https://nj.pseg.com/customerservicelocations), online at the PSEG website at

http://www.pseg.com/pseandgfilings, and at the Board of Public Utilities at 44 South Clinton Avenue, 2nd Floor, Trenton, New Jersey 08625-0350. Any member of the public who wants to inspect the petition at the Board may contact the Board's Division of Case Management at (609) 292-0806 to schedule an appointment.

The following dates, times and locations for public hearings have been scheduled on the Company's filing so that members of the public may present their views. Information provided at the public hearings will become part of the record of this case and will be considered by the Board in making its decision.

 Date 1, 2019
 Date 2, 2019

 Time 1
 Time 2

 Location 1
 Location 2

 Room 1
 Room 2

 Address 1
 Address 2

 Address Overflow 1
 Address Overflow 2

 City 1, N.J. Zip Code 1
 City 2, N.J. Zip Code 2

Date 3, 2019 Time 3 Location 3 Room 3 Address 3 Address Overflow 3

City 3, N.J. Zip Code 3

In order to encourage full participation in this opportunity for public comment, please submit any requests for needed accommodations, including interpreters, listening devices or mobility assistance, 48 hours prior to the above hearings.

Customers may also file written comments with the Secretary of the Board of Public Utilities at 44 South Clinton Avenue, 3rd Floor, Suite 314, P.O. Box 350, Trenton, New Jersey, 08625-0350 ATTN: Secretary Aida Camacho-Welch whether or not they attend the public hearings.

Table #1 ELECTRIC BASE RATES For Residential Customers Rates if Effective October 1, 2019

			Base Rates		
Electric			Charges in Effect April 18, 2019 Including SUT	Proposed Charges in Effect October 1, 2019 Including SUT	
RS	Service Charge	per month	\$4.95	\$4.95	
	Distribution 0-600, June-September	\$/kWh	0.039706	0.040797	
	Distribution 0-600, October-May	\$/kWh	0.035553	0.035553	
	Distribution over 600, June-September	\$/kWh	0.043780	0.044871	
	Distribution over 600, October-May	\$/kWh	0.035553	0.035553	

Table #2
Proposed Percentage Change
By Customer Class For Electric Service
For Rates if Effective October 1, 2019

Electric				
	Rate Class	Percent Change		
Residential	RS	0.25%		
Residential Heating	RHS	0.26		
Residential Load Management	RLM	0.17		
Water Heating	WH	0.26		
Water Heating Storage	WHS	0.57		
Building Heating	HS	0.08		
General Lighting & Power	GLP	0.07		
Large Power & Lighting- Sec.	LPL-S	0.05		
Large Power & Lighting- Pri.	LPL-P	0.03		
High Tension-Subtr.	HTS-S	0.04		
High Tension-HV	HTS-HV	0.02		
Body Politic Lighting	BPL	0.01		
Body Politic Lighting-POF	BPL-POF	0.03		
Private Street & Area Lighting	PSAL	0.01		
Overall		0.13		

The percent increases noted above are based upon April 18, 2019 Delivery Rates, the applicable Basic Generation Service (BGS) charges, and assumes that customers receive commodity service from Public Service Electric and Gas Company.

Table #3
Residential Electric Service For Rates if Effective October 1, 2019

If Your Annual kWh Use Is:	And Your Monthly Summer kWh Use Is:	Then Your Present Monthly Summer Bill (1) Would Be:	And Your Proposed Monthly Summer Bill (2) Would Be:	Your Monthly Summer Bill Increase Would Be:	And Your Monthly Summer Percent Increase Would Be:
1,732	185	\$37.25	\$37.45	\$0.20	0.54%
3,464	370	69.56	69.96	0.40	0.58
6,920	740	136.07	136.88	0.81	0.60
7,800	803	147.93	148.81	0.88	0.59
12,500	1,337	248.50	249.96	1.46	0.59

- (1) Based upon Delivery Rates and Basic Generation Service Residential Small Commercial Pricing (BGS-RSCP) charges in effect April 18, 2019 and assumes that the customer receives BGS-RSCP service from Public Service Electric and Gas Company.
- (2) Same as (1) except includes the proposed change for the Madison and Marshall Substations.

Matthew Weissman, Esq. General Regulatory Counsel - Rates

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

Attachment 4

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

INCOME ACCOUNT

	<u>YTD 2018 *</u> '(\$000)
400 Electric Operating Revenues	3,149,850
Electric Operating Expenses: 401 Operation Expense 402 Maintenance Expense 403 Depreciation Expense 404 Amortization of Limited Term Plant 407 Amortization of Property Losses 408.1 Taxes Other Than Income Taxes 409.1 Income Taxes - Federal 410.1 Provision for Deferred Income Taxes 411.1 Provision for Deferred Income Taxes - Credit 411.103 Accretion Expense-Electric 411.4 Investment Tax Credit Adjustments (Net) Total Electric Utility Operating Expenses	2,195,136 125,949 271,664 12,105 24,866 23,558 (18,262) 918,677 (793,364) 0 (8,528) 2,751,800
Electric Utility Operating Income	\$ 398,050
* Electric Distribution only	
	YTD 2018
400 Gas Operating Revenues	1,790,946
Gas Operating Expenses: 401 Operation Expense 402 Maintenance Expense 403 Depreciation Expense 404 Amortization of Limited Term Plant 407 Amortization of Property Losses 407.3 Amortization of Excess cost of removal 407.4 Amortization of Excess cost of removal 408.1 Taxes Other Than Income Taxes 409.1 Income Taxes - Federal 410.1 Provision for Deferred Income Taxes 411.1 Provision for Deferred Income Taxes - Cr 411.4 Investment Tax Credit Adjustments (Net) Total Gas Utility Operating Expenses Gas Utility Operating Income	1,197,349 37,620 151,969 9,446 35,044 19,621 0 19,175 (37,249) 1,369,818 (1,284,180) (832) 1,517,781 \$ 273,165

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

BALANCE SHEET \$ (In Thousands)

Assets and Other	Debits	<u>D</u>	ec 31, 2018
Utility Plant			
Electric Utility Pl	ant		
101	Electric Utility Plant in Service	\$	18,387,991
103	Electric Experimental Plant Unclassified		-
105	Electric Utility Plant Held for Future Use		19,409
106 107	Electric Completed Construction not classified- Electric Electric Construction Work in Progress		3,555,623 1,155,960
107	Total Electric Utility Plant		23,118,984
Gas Utility Plant			
101	Gas Utility Plant in Service	\$	8,040,321
103	Gas Experimental Plant Unclassified		-
105	Gas Utility Plant Held for Future Use		96
106	Gas Completed Construction not classified		86,011
107	Gas Construction Work in Progress		13,317
	Total Gas Utility Plant		8,139,745
Common Utility I		ø.	125.766
101 106	Common Utility Plant in Service	\$	435,766 8,527
107	Common Completed Construction not classified Common Construction Work in Progress		17,345
107	Total Common Utility Plant		461,638
	Total Utility Plant		31,720,368
	visions for Depreciation and Amortization of		
Electric Utility Pl 108 & 111	Electric Utility Plant in Service		(3,636,440)
108.5	Electric Utility Plant Held for Future Use		(3,030,440)
100.5	Total Electric Utility Plant		(3,636,440)
Gas Utility Plant			
108 & 111	Gas Utility Plant in Service		(2,292,658)
Common Utility I	Plant		
108 & 111	Common Utility Plant in Service		(175,530)
	Total Accumulated Provisions for		
	Depreciation and Amortization		
	of Utility Plant		(6,104,628)
	Net Utility Plant Excluding Nuclear Fuel		25,615,739
Other Property an	d Investments		
121	Nonutility Property		3,249
122	Accumulated Provision for Depreciation & Amortization of		
	Nonutility Property		(787)
123 & 123.1	Investments in Associated & Subsidiary Companies		45,354
124	Other Investments		269,679
125-8	Special Funds Long Torm Portion of Derivative Assets		44,647
175	Long-Term Portion of Derivative Assets Total Other Property and Investments		362,142
	Total Other Froperty and investments		302,142

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

BALANCE SHEET

Dec	31	. 201	18

Current and	Accrued	Assets
-------------	---------	--------

131	Cash	\$	39,059
132-4	Special Deposits	Ψ	21,115
135	Working Funds		21,113
136	Temporary Cash Investments		0
141-3	Notes and Accounts Receivable		953,611
144	Accumulated Provision for Uncollectible Accounts - Credit		(63,130)
145-6	Receivables from Associated Companies		141,675
151-5	Materials and Supplies (incl. 163)		195,921
158	Allowances		1,5,,,21
164	Gas Stored Underground - Current		_
165	Prepayments		10,177
171	Interest and Dividends Receivable		-
172	Rents Receivable		8,213
173	Accrued Utility Revenues		239,531
174	Miscellaneous Current and Accrued		2,689
175	Current Portion of Derivative Instrument Assets		2,007
1,0			
	Total Current and Accrued Assets		1,548,862
	Deferred Debits		
181	Unamortized Debt Expense		51,253
182	Unrec'd Plt and Reg Costs and Other Reg Assets		3,761,208
183	Preliminary Survey and Investigation Charges		24,463
184	Clearing Accounts		422
185	Temporary Facilities		-
186	Miscellaneous Deferred Debits		41,392
188	Research and Development Expenditures		, <u> </u>
189	Unamortized Loss on Reacquired Debt		48,561
190	Accumulated Deferred Income Taxes		995,947
	Total Deferred Debits		4,923,246
	Total Assets and Other Debits	\$	32,449,989
			(0)

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

BALANCE SHEET

		<u>De</u>	e 31, 2018
	Liabilities and Other Credits		
	Proprietary Capital		
201	Common Stock Issued	\$	892,260
204	Preferred Stock Issued		-
207	Premium on Capital Stock		-
208 210	Donations from Stockholders Gain on Resale or Cancellation of Reaquired Capital Stock		2,080,903
211	Miscellaneous Paid-In Capital		-
215	Appropriated Retained Earnings		_
216	Unappropriated Retained Earnings		7,975,916
216.1	Unappropriated Undistributed Subsidiary Earnings		272
219	Other Comprehensive Income		(749)
	Total Proprietary Capital		10,948,603
	Long-Term Debt		
221	221 Bonds		9,258,381
223	223 Advances from Assoc. Co.		-
225	225 Unamortized Premium on Long-Term Debt		-
226	226 Unamortized Discount on Long-Term Debt		(22,833)
	Total Long-Term Debt		9,235,548
	Other Non-Current Liabilities		
227-9	Other Non-current Liabilities		914,471
244	Long-Term Portion of Derivitive Instrument Liablilities		-
230	Asset Retirement Obligation		302,071
	Total Other Non-Current Liabilities		1,216,542
	Current and Accrued Liabilities		
231	Notes Payable		271,560
232	Accounts Payable		713,326
233-4	Payables to Associated Companies		317,876
235	Customer Deposits		92,268
236 237	Taxes Accrued Interest Accrued		3,095
238	Dividends Declared		95,752
239	Matured Long-Term Debt		_
241	Tax Collections Payable		365
242	Miscellaneous Current and Accrued Liabilities		491,748
243	Obligations Under Capital leases		-
244	Current Portion of Derivative Instrument Liabilities		1 005 000
	Total Current and Accrued Liabilities		1,985,989
	Deferred Credits		
252	Customer Advances for Construction		44,890
253	Other Deferred Credits		369,566
254	Other Regulatory Liabilities		3,697,658
255	Accumulated Deferred Investment Tax Credits Accumulated Deferred Income Taxes		131,884
281-3	Accumulated Deferred Income Taxes Total Deferred Credits		4,819,309 9,063,307
	Total Liabilities and Other Credits	\$	32,449,989