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**IN THE MATTER OF THE  
PROVISION OF BASIC  
GENERATION SERVICE FOR  
THE PERIOD BEGINNING  
JUNE 1, 2019**

**STATE OF NEW JERSEY  
BOARD OF PUBLIC UTILITIES  
  
BPU DOCKET NO. ER18040356**

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**ATLANTIC CITY ELECTRIC COMPANY**

**BASIC GENERATION SERVICE  
COMMENCING JUNE 1, 2019**

**COMPANY-SPECIFIC ADDENDUM  
COMPLIANCE FILING  
June 29, 2018**

**ATLANTIC CITY ELECTRIC COMPANY'S  
COMPANY-SPECIFIC ADDENDUM**

The following contains the company-specific material (referred to herein as the “Addendum”) of Atlantic City Electric Company (“ACE” or the “Company”) for the joint compliance filing made with the New Jersey Board of Public Utilities (the “Board” or “BPU”) on this date by the Electric Distribution Companies (the “EDCs”) in this docket. Capitalized terms shall have the meanings defined in the joint filing.

As described in the generic section of this filing, two (2) different methods will be utilized for the pricing of Basic Generation Service (“BGS”) to customers – residential and small commercial energy pricing and variable hourly energy pricing. The residential and small commercial energy pricing formerly referred to as “Basic Generation Service–Fixed Price” or “BGS-FP”<sup>1</sup> now termed “Basic Generation Service–Residential Small Commercial Pricing” or “BGS-RSCP” and the hourly energy pricing service termed “Basic Generation Service – Commercial and Industrial Energy Pricing” or “BGS- CIEP”. BGS-RSCP is to be available to all residential and small commercial customers, specifically those customers taking service on Rate Schedules RS, MGS (Secondary and Primary), AGS (Secondary and Primary), DDC, SPL, and CSL. These rate classes comprise the vast majority of ACE’s customers and approximately 86% of the usage on the ACE electric system. As described in detail later in this filing, BGS-RSCP commercial or industrial customers can opt in to BGS-CIEP.

BGS-CIEP will continue to be the only default supply option available to customers taking service under ACE's Rate Schedule TGS (Transmission General Service). Pursuant to the Board’s Decision on June 18, 2012, in BPU Docket No. ER12020150, changing the BGS-CIEP required customer capacity peak load share (“PLS”) to 500 kW or greater effective June 1, 2013,

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<sup>1</sup> In this document, “Basic Generation Service-Fixed Price” or “BGS-FP” has the same meaning as, and is entirely interchangeable with, “Basic Generation Service-Residential Small Commercial Pricing” or “BGS-RSCP.”

will be the only default supply option available to customers on Rate Schedules MGS Secondary, MGS Primary, AGS Secondary or AGS Primary with an annual PLS for generation capacity equal to or greater than 500 kW as of November 1 of the year prior to the BGS auction. There are an estimated 228 eligible CIEP customers representing approximately 14% of the usage on the ACE electric system, whose only default supply option is BGS-CIEP. As described in detail later in this filing, BGS-CIEP will also be available to any commercial or industrial customer on a voluntary basis regardless of such customer's regular Rate Schedule.

Pursuant to the Board's Order dated January 20, 2009, in BPU Docket No. ER08050310, ACE will not provide to the BGS Suppliers any Pennsylvania New Jersey Maryland ("PJM") credit issued as a result of Demand Response ("DR") programs implemented after June 1, 2009. ACE currently operates a DR program known as the Residential Controllable Smart Thermostat Program, which is available to a limited number of residential customers. This program derives credits through the PJM Reliability Pricing Model Capacity Market and the PJM energy markets. PJM credits associated with this DR program or any future PJM demand side management program will be credited to the RGGI Recovery Charge delineated in Rider RGGI in the Company's Tariff for Electric Service.

**A. COMMITTED SUPPLY**

"Committed Supply" means power supplies to which ACE has an existing physical or financial entitlement. For ACE, Committed Supply includes its Non-Utility Generation ("NUG") contracts, including any restructured replacement power contracts, which may extend into or through the BGS bid period. ACE retains the right to negotiate changes in, and operational control over, all of its NUG contracts.

As a result of the Board's December 18, 2002 Order in BPU Docket Nos. EX01110754 and EO02070384 (the "BGS Orders"), effective August 1, 2003, ACE's NUG-related Committed Supply (capacity, energy, and ancillaries, if any) is being sold in the wholesale markets.

NUG-related capacity, energy, and ancillaries (if any) will continue to be sold in the wholesale markets. These sales shall be considered prudent unless and until the Board determines that a different protocol is appropriate. Just as they are currently, ACE's actual above-market NUG contract costs will continue to be charged to the Non-Utility Generation Charge ("NGC") clause, with full and timely cost recovery assured, and subject to deferral in accordance with ACE's restructuring order. In setting the NGC, the actual NUG contract costs will be offset with revenues received from the sale of NUG power in the wholesale markets.

In the event that ACE is required to invoke the Contingency Plan (discussed at length below), Committed Supply may be used to offset requirements associated with the Contingency Plan. Any generation from ACE's Committed Supply that qualifies as a Class I or Class II renewable resource will be used to meet the Renewable Portfolio Standards ("RPS") requirements, and, since ACE has no BGS supply requirements, it will, to the extent permitted by applicable regulatory and contractual provisions, be credited on a pro-rata basis to winning BGS-RSCP and BGS-CIEP suppliers. This will assure that these environmental benefits are retained by BGS customers in ACE's service territory. Winning BGS-RSCP and BGS-CIEP suppliers will be responsible for obtaining and providing related verification information to ACE for the minimum Class I and Class II percentages required by the RPS associated with the tranches they serve, net of renewable attributes of the Committed Supply energy proportionately applied and subject to the foregoing limitations to each supplier's tranches.

The ACE NUG-related Committed Supply subject to the foregoing limitations eligible to supply the Class II renewable energy certificate to the BGS suppliers expired on September 5, 2016.

## **B. CONTINGENCY PLANS**

While not every contingency can be anticipated, ACE can differentiate four (4) areas of concern as follows:

- a) there are an insufficient numbers of bids to provide for a fully-subscribed

Auction Volume either for the BGS-RSCP auction or the BGS-CIEP auction;

- b) a default by one of the winning bidders prior to June 2019;
- c) a default during the June 1, 2019 - May 31, 2020 supply period, under the BGS-CIEP contracts entered into for 12 months; and/or
- d) a default during the June 1, 2019 - May 31, 2022 supply period, under the BGS-RSCP contracts entered into for 36 months.

**1. Insufficient Number of Bids in Auction**

In order to ensure that the auction process achieves the best price for customers, the degree of competition in the auction must be sufficient. To ensure a sufficient degree of competition, the volume of BGS-RSCP and BGS-CIEP Load purchased at each auction will be finally decided after the first round of bids are received. Provided that there are sufficient bids at the starting prices, the auctions will be held for 100% of BGS-RSCP and BGS-CIEP Loads.

It is possible that the amount of initial bids will not result in a competitive auction for 100 percent of the BGS-RSCP or BGS-CIEP Load. This determination will be made by the Auction Manager in consultation with the EDCs, and the Board Advisor.

In the event that the Auction Volume is reduced to less than 100% of BGS-RSCP or BGS-CIEP Load, ACE, at its option, will implement a Contingency Plan for the remaining tranches. Under the Plan, ACE will purchase necessary services (including, but not limited to, network transmission, capacity, energy and ancillary services, and any required RPS Renewable Energy Certificate) for the remaining tranches through PJM-administered markets until May 31, 2020, and may retain Committed Supply to serve these tranches. Any unsubscribed tranches for the period after May 31, 2020, may be included in a subsequent auction or treated pursuant to the provisions of part 4 of the Contingency Plan described below. This Contingency Plan will alert bidders that, in order to secure BGS-RSCP and BGS-CIEP prices from New Jersey BGS customers for their supply, it will be necessary to bid in to the auctions.

Since the Contingency Plan calls for the purchase of BGS supply in PJM-administered

markets, it is considered a prominent feature of the auction proposal because it provides bidders a strong incentive to participate in the auction process. If bidders were to believe that a less than fully subscribed auction would lead to a negotiation or a secondary market in which ACE, on behalf of its customers, would seek to acquire BGS supplies, the incentive to participate in the auctions and the incentive to offer the best deal in the auctions would be subsequently diminished.

**2. Defaults Prior to June 1, 2019**

If a winning bidder defaults prior to the beginning of the BGS service, then, at ACE's option, the open tranches may first be offered to the other winning bidders or will be filled as provided in part 3, below. Additional costs incurred by ACE in implementing the Contingency Plan will be assessed against the defaulting suppliers' credit security.

**3. Defaults During the June 1, 2019 - May 31, 2020 Supply Period**

If a default occurs during the June 1, 2019 - May 31, 2020 period, for those contracts entered into for 12 months, at ACE's option, the tranches supplied by the defaulting supplier may be offered to the other winning bidders, may be bid out or may be procured from PJM-administered markets, and Committed Supply may be retained to serve these tranches. Additional costs incurred by ACE in implementing this part of the Contingency Plan will be assessed against the defaulting suppliers' credit security.

If circumstances are such that it is not practical to find another such supplier, ACE proposes to utilize a process similar to the "flexible portfolio approach" for BGS wholesale supply, as previously described in ACE's filing in BPU Docket No. EM00080604, as noted in the Board's November 29, 2000 Order in that docket. This approach relies on a combination of competitive sources for BGS power, including Requests for Proposal(s), broker markets, capacity costs based on the PJM Reliability Pricing Model ("RPM"), and the PJM spot energy market.

**4. Defaults During the June 1, 2019 - May 31, 2022 Supply Period**

If a default occurs during the June 1, 2019 - May 31, 2022 period, for those contracts

entered into for 36 months, at ACE's option, the tranches supplied by the defaulting supplier may be offered to the other winning bidders, may be bid out or may be procured from PJM-administered markets, and Committed Supply may be retained to serve these tranches. Among the options for bidding out the tranches, ACE may include such tranches in the next BGS procurement. Additional costs incurred by ACE in implementing this part of the Contingency Plan will be assessed against the defaulting suppliers' credit security.

If circumstances are such that it is not practical to find another such supplier, ACE proposes to utilize a process similar to the "flexible portfolio approach" for BGS wholesale supply, as previously described in the Company's filing in BPU Docket No. EM00080604, as noted in the Board's November 29, 2000 Order in that docket. This approach relies on a combination of competitive sources for BGS power, including RFPs, broker markets, capacity costs based on the PJM RPM, and the PJM spot energy market.

**C. ACCOUNTING AND COST RECOVERY**

The accounting and cost recovery that ACE will use for its BGS service is summarized in this Section. These provisions are intended to be applicable to ACE only. Each EDC will provide these individual BGS cost recovery methodologies.

ACE's BGS accounting will account for BGS-RSCP revenues and BGS-CIEP revenues individually as follows:

1. BGS-RSCP and BGS-CIEP revenues will be tracked using established accounting procedures and recorded separately as BGS-RSCP revenue and BGS-CIEP revenue. Transmission revenues from BGS-RSCP and BGS-CIEP customers are also tracked using established accounting procedures; and
2. as previously established for ACE, uncollectible revenues are recovered through a component of ACE's Societal Benefits Charge.

ACE will account for BGS-RSCP and BGS-CIEP costs individually as the sum of the following:

1. all payments made to winning BGS bidders for the provision of BGS-RSCP and BGS CIEP service, including CIEP Standby Fee payments; and
2. any administrative costs associated with the provision of BGS-RSCP and BGS-CIEP service; and
3. any cost for procurement of capacity, energy, ancillary service, transmission, and other expenses related to the Contingency Plan, and any payments to the winners of a subsequent bid process to cover defaults made under the Contingency Plan, less any payments recovered from defaulting bidders. In the event that implementation of the Contingency Plan is required for BGS CIEP load, CIEP Standby Fee payments will be tracked separately.

BGS-RSCP and BGS-CIEP rates will be subject to deferred accounting since there will be differences between the BGS costs (as defined above) and BGS-related revenues (including transmission revenues). Adjustment type charges (also subject to deferred accounting) are necessary in order to balance out the difference between the amount paid to the BGS-RSCP and BGS-CIEP supplier(s) for BGS-RSCP and BGS-CIEP supply, and the revenue from customers for BGS-RSCP and BGS-CIEP services. These reconciliation charges ("RC"), including interest, will be calculated periodically for BGS-RSCP and BGS-CIEP on a cents per kWh basis, and the respective rates will be applied to all BGS-RSCP and BGS-CIEP kWh. These charges will be combined with the fixed, seasonally-differentiated BGS-RSCP and hourly BGS-CIEP charges for billing although they will be published in ACE's Rider BGS as separate BGS-RSCPRC and BGS-CIEPRC rates that will be revised periodically.

A BGS deferral/credit will be determined individually for the BGS-RSCP and BGS-CIEP



rates as the difference between recorded BGS-RSCP or BGS-CIEP revenue and the total BGS-RSCP or BGS-CIEP cost. The individual BGS deferrals will be accounted for in the following manner:

1. If individual BGS costs, as defined above, are higher than individual BGS recorded revenue, the difference will be charged on a monthly basis to the cost deferral to be reconciled and recovered from customers, with interest, on a periodic, basis through the BGS-RSCPRC and/or the BGS-CIEPRC.

2. If individual BGS costs, as defined above, are lower than individual BGS recorded revenue, the difference will be credited monthly, to the cost deferral to be reconciled and returned to customers, with interest, on a periodic basis, through the BGS-RSCPRC and/or BGS-CIEPRC.

An additional deferred balance will be maintained individually for the BGS-RSCPRC and BGS-CIEPRC rates to ensure full recovery of all of the costs associated with the provision of BGS service.

In the event that the Contingency Plan is required to be implemented to serve BGS-CIEP load, the difference between CIEP Standby Fee revenues and CIEP Standby Fee payments made to winning BGS-CIEP auction bidders will be maintained in a separate deferred balance account. Interest on this account will be accrued monthly, using the same methodology and interest rate as used for the BGS-RSCP and BGS-CIEP deferred balances. Any debit/credit balance in this account at the end of the BGS period of June 1, 2019 through May 31, 2020 will be applied as a \$/kWh adjustment to the CIEP Standby Fee for the next BGS-CIEP annual period. In this manner, the mechanism to reconcile any CIEP Standby Fee deferred balance is applied, to the greatest extent practicable, to all BGS-CIEP eligible customers who paid the CIEP Standby Fee, and not only to those taking BGS-CIEP service.

With the exception of any adjustment to the CIEP Standby Fee which may be required, ACE will follow the following schedule for the periodic reconciliation of its BGS-RSCP and BGS- CIEP rates:

1. For BGS-RSCPRC and BGS-CIEPRC rates effective June 1, the actual data for the months of August through March will be used. Projected data for April and May will be used for the amount of BGS-RSCPRC and BGS-CIEPRC to be recovered/returned in those months.

2. For BGS-RSCPRC and BGS-CIEPRC rates effective October 1, the actual data for the months of April through July will be used. Projected data for August and September will be used for the amount of BGS-RSCPRC and BGS-CIEPRC to be recovered/returned in those months.

ACE will file BGS-RSCPRC and BGS-CIEPRC rates with the Board at least 30 days in advance of the date upon which they are requested to be effective. The BGS Reconciliation Rate is capped at two cents per kWh. The filed rates will become effective 30 days after filing, absent a determination of manifest error by the Board.

#### **D. DESCRIPTION OF BGS TARIFF SHEETS**

This Section describes the proposed tariff sheets needed to implement ACE's BGS proposal. The proposed tariff sheets for Tariff Rider Basic Generation Service ("Rider BGS") are included as **Attachment 1**. Rider BGS provides the rates, terms, and conditions for customers being served under the BGS-RSCP or BGS-CIEP pricing mechanisms.

##### **1. BGS-RSCP**

BGS-RSCP is to be available to all customers served on Rate Schedules RS, DDC, SPL, and CSL. BGS-RSCP is also available to customers with a PLS of less than 500 kW who are served under Rate Schedules MGS Secondary, MGS Primary, AGS Secondary, and AGS Primary. On any meter reading date, and with prior requisite notice, a customer taking supply service under BGS-RSCP may switch to third-party supply service, and a customer taking third-party supply service may switch to BGS-RSCP supply service.

As indicated on the proposed tariff sheets, BGS-RSCP is made up of two components: BGS Supply Charges and the BGS Reconciliation Charge. Additionally, each BGS customer is subject to transmission charges as discussed below.

**a. BGS Supply Charges**

The values of the BGS Supply charges applicable to Rate Schedules RS, MGS Secondary, MGS Primary, AGS Secondary, AGS Primary, DDC, SPL, and CSL include the costs related to energy, generation capacity, RPS, ancillary services, and administration. This is a continuation of the current approved methodology for recovering all electric supply service costs in the kilowatt-hour charges for these Rate Schedules.

The generation capacity costs designed to be used in the development of the BGS-RSCP rates are the relevant current wholesale market prices for capacity based on the average, 2019/2020, 2020/2021, and 2021-2022 Base Residual Auctions (“BRA”) for the PJM RPM results applicable to load served in the ACE zone.

The specific values that will be utilized for the BGS Supply Charges will be calculated as the tranche weighted average of the winning BGS-RSCP bid prices for the ACE zone, adjusted for the seasonal payment factors for ACE's Atlantic Electric zone, less transmission costs, adjusted by the appropriate factor (multiplier and constant, if applicable) as shown on Table No. 17 of the Development of Post Transition Period BGS Cost and Bid Factor Tables, included in **Attachment 2**. Transmission charges will continue to be billed under the rates currently in effect for these Rate Schedules as set forth in the ACE Tariff for Electric Service.

It is the intent of ACE that the factors in the tables will be applied to the tranche weighted average of the winning BGS-RSCP bid prices adjusted for the seasonal payment factors. For the period beginning June 1, 2019, the pricing will be based on the 36 month auction price, the 36 month price from the auction held in February 2018 and the 36 month price from the auction held in February 2017. The tables will be updated annually prior to future BGS auctions and will be utilized to develop customer charges for a related annual period in a similar manner as described above. The updates will reflect then current factors such as updated futures prices, factors based on 12 month data, and any changes in the customer groups and load eligible for the BGS-RSCP

class.

**b. BGS Reconciliation Charge**

This is the implementation of the BGS Reconciliation Charge for BGS-RSCP as explained in the Accounting and Cost Recovery section of this Addendum.

**c. Transmission Charges**

Transmission service will continue to be billed under the rates, terms, and conditions of the customer's applicable Rate Schedule as set forth in the ACE Tariff for Electric Service. The transmission charges applicable to ACE's BGS-RSCP customers are based on the annual transmission rate for network service for the ACE zone, as stated in PJM's Open Access Transmission Tariff ("OATT"). As part of a settlement approved by the Federal Energy Regulatory Commission ("FERC") on August 9, 2004, certain transmission owners in PJM, including ACE, agreed to re-examine their existing rates, and to propose a method (such as a formula rate) to harmonize new and existing transmission investments by January 31, 2005, with such new rate(s) (if any) to go into effect June 1, 2005. The objective of the formula rate filing is to establish a just and reasonable method for determining the transmission revenue requirements for the affected transmission pricing zones which would reflect both existing and new investment on a current basis. The formula rate tracks increases and decreases in costs such that no under- and no over- recovery of actual costs will occur. The formula rate protocols include provisions for an annual update to the rate based on current levels of costs and reconciliation of prior period costs and revenues. Pursuant to the protocols established in the settlement, the Company will file updates to the formula rate at FERC on or about May 15 of each year to be effective on June 1 of that same year. The Company will make corresponding filings with the Board each year seeking approval of the formula rates on a retail level, pursuant to the requirements of the Supplier Master Agreements.

In addition to the formula rate protocols described above, the transmission charge may

change from time to time as FERC approves other changes in the PJM OATT and related charges. In compliance with the BGS-RSCP Supplier Agreements, the transmission cost component of the BGS-RSCP charges to customers will change from time to time as FERC approves changes in the Network Integration Transmission Service rates for the ACE zone in the PJM OATT, or the FERC approves other network transmission-related charges in the PJM OATT.

ACE will provide the basis for any transmission cost adjustment, and will file supporting documentation from the OATT, as well as any rate translation spreadsheets used.

## **2. BGS-CIEP**

BGS-CIEP will be the only default supply option available to customers served on Rate Schedule TGS (Transmission General Service), and to customers served on Rate Schedules MGS Secondary, MGS Primary, AGS Secondary, and AGS Primary with a PLS of 500 kW and higher as of November 1 of the year prior to the BGS auctions. Additionally, BGS-CIEP is available on a voluntary basis to any commercial or industrial customer taking service under the MGS or AGS Rate Schedules. To be eligible for BGS-CIEP, the customer will need to notify ACE of its choice no later than the second working day of a given year, and must commit to having BGS-CIEP as its default supply service option for a 12 month period commencing June 1<sup>st</sup> of that year. All commercial and industrial customers taking service under the MGS or AGS Rate Schedules will be notified of their option to switch to BGS-CIEP through the Company's website and tariffs. Customers who elected BGS-CIEP in a prior procurement period and who are eligible to receive BGS-RSCP service may return to BGS-RSCP if they notify ACE of their intent to return to BGS-RSCP default service no later than the second working day of January. Such election will be effective on June 1<sup>st</sup> of that year.

The charges for BGS-CIEP are comprised of three segments: BGS Energy Charges, BGS Capacity Charges, and the BGS Reconciliation Charges. Transmission service will continue to be billed under the rates, terms, and conditions of the customer's applicable Rate Schedule as set forth

in the ACE Tariff for Electric Service. The transmission charges applicable to ACE's BGS-CIEP customers are based on the annual transmission rate for network service for the ACE zone, as stated in PJM's OATT. As part of a settlement approved by FERC on August 9, 2004, certain transmission owners in PJM, including ACE, agreed to re-examine their existing rates and to propose a method (such as a formula rate) to harmonize new and existing transmission investments by January 31, 2005, with such new rate (if any) to go into effect June 1, 2005. The objective of the formula rate filing is to establish a just and reasonable method for determining the transmission revenue requirements for the affected transmission pricing zones which would reflect both existing and new investment on a current basis. The formula rate tracks increases and decreases in costs such that no under- and no over-recovery of actual costs will occur. The formula rate protocols include provisions for an annual update to the rate based on current levels of costs, and reconciliation of prior period costs and revenues. Pursuant to the protocols established in the settlement, the Company will file updates to the formula rate at FERC on or about May 15 of each year, to be effective on June 1 on that year. The Company will make corresponding filings with the Board each year seeking approval of the formula rates on a retail level, pursuant to the requirements of the Supplier Master Agreements.

In addition to the formula rate protocols described above, the transmission charge may change from time to time as FERC approves other changes in the PJM OATT and related charges. In compliance with the BGS-CIEP Supplier Agreements, the transmission cost component of the BGS-CIEP charges to customers will change from time to time as FERC approves changes in the Network Integration Transmission Service rates for the ACE zone in the PJM OATT or the FERC approves other network transmission-related charges in the PJM OATT.

ACE will provide the basis for any transmission cost adjustment, and will file supporting documentation from the OATT, as well as any rate translation spreadsheets used.

**a. BGS Energy Charge**

One of the primary components of this charge will be the actual real time PJM load weighted average Residual Metered Load Aggregate Locational Marginal Price (“LMP”), of energy for ACE's Atlantic Electric Transmission Zone. An estimate of the Ancillary Service cost for the ACE zone expressed on a dollar per MWh basis and administrative costs will be added to this charge. This sum will then be adjusted for losses for service according to the Rate Schedule for which this service is applicable.

**b. BGS Capacity Charges**

These charges will recover the costs associated with generation capacity. Effective with the supply period beginning June 1, 2009, the BGS Capacity Charge is based on the results of the BGS-CIEP auction process. This charge, Sales and Use Tax (“SUT”), and the Board Revenue Assessment will be applied to the customer's share of the PJM zonal capacity obligation.

**c. BGS Reconciliation Charge**

This is the BGS Reconciliation Charge for the BGS-CIEP service as explained in the Accounting and Cost Recovery section of this Addendum.

**d. CIEP Standby Fee**

For the period June 1, 2019 through May 31, 2020, the EDCs will pay each BGS-CIEP supplier a CIEP Standby Charge equal to \$0.000150 per kWh times their pro-rata share of the total energy usage measured at the meters of all of ACE's BGS-CIEP eligible customers. The CIEP Standby Fee is a delivery charge that is applicable to all customers having BGS-CIEP as their default supply service. This includes all customers served on Rate Schedules TGS, all customers served on Rate Schedules MGS Secondary, MGS Primary, AGS Secondary, and AGS Primary with a peak load share of 500 kW or greater, and all customers on Rate Schedules MGS Secondary, MGS Primary, AGS Secondary, and AGS Primary with a peak load share of less than 500 kW that have elected the BGS-CIEP default supply option. Any under- or over-recovery of the CIEP



Standby Fee will continue to be subject to deferred accounting.

**E. BGS RATE DESIGN METHODOLOGY**

**1. ACE BGS-RSCP Pricing Spreadsheet**

The resulting charge for each BGS-RSCP rate element (i.e., Rate RS summer charge, winter charge, etc.) for the non-hourly BGS-RSCP supply service will be based on factors applied to the tranche weighted average of the BGS-RSCP winning bid prices adjusted for the seasonal payment factors. The rate class specific factors have been developed based on the ratios of the estimated underlying market costs of each rate element (for each rate class) to the overall all-in BGS-RSCP cost. The tables included in **Attachment 2** and described below present all of the input data, intermediate calculations, and the final results in the calculation of these factors.

**Table No. 1** (% Usage During PJM On-Peak Period) contains the percentage of on-peak load, by month, for each applicable Rate Schedule. The on-peak period as used in this table (referred to as PJM periods) is defined as the 16-hour period from 7 A.M. to 11 P.M., Monday through Friday. All remaining weekday hours and all hours on weekends and holidays recognized by the National Electric Reliability Council (“NERC”) are considered the off-peak period. This is consistent with the time periods used in the forwards market for trading of bulk power. The values in this table for each month are based on the most recent available settlement data for current ACE customers.

**Table No. 2** (% Usage During ACE On-Peak Billing Period) contains the percentage of on-peak load, by month, for each applicable Rate Schedule based on the definitions of time periods as contained in ACE’s delivery Rate Schedules. These percentages are based on usage history for the RS TOU BGS customers for the most recent period.

**Table No. 3** (Class Usage @ Customer) contains the billing month sales forecasted for the period of June 2019 through May 2020, with migration adjustments. The values in Table No. 3 will be updated in January 2019 to better reflect forecasts for the June 1<sup>st</sup> delivery year.

**Table No. 4** (Forward Prices – Energy Only @ Bulk System) contains the forward prices for energy, by time period and month, for the BGS analysis period. These values are the energy on-peak forwards as of June 1, 2018, for the PJM West trading hub for the period of June 2019 to May 2020, as utilized in BGS market-to-market calculations, and the historical ratio of actual off-peak to on-peak PJM LMPs for the prior summer and winter periods. An adjustment of the forward prices contained in Table No. 4 must be made to correct for the pricing differential between the PJM West trading hub and the ACE zone where the BGS supply will be utilized.

**Table No. 5** (Zone-Hub Basis Differential) contains an estimate of the average zone-hub basis differential factors, by month and time period, which, when multiplied by the prices at the PJM West trading hub, will result in costs for power delivered into the ACE zone.

**Table No. 6** (Losses) contains the factors utilized for average system losses by Rate Schedule and voltage level. Loss factors are developed by including losses at the 500kV transmission level as well as losses at lower transmission and distribution voltage levels currently approved for use by the Board.

**Table No. 7** (Summary of Average BGS Energy Only Unit Costs @ Customer – PJM Time Periods) is the calculation of the energy only costs by rate, time period and season. These values are the seasonal and time period average costs per Megawatt hour (“MWh”) as measured at the customer billing meter (from Table No. 3), based on the forwards prices (from Table No. 4), corrected for zone- hub basis differential (from Table No. 5), losses (from Table No. 6), and monthly time period weights (from Table No. 1). These average costs do not include the costs associated with Ancillary Services, RPS compliance, Generation Obligation or Transmission costs, which will be considered in subsequent calculations.

**Table No. 8** (Summary of Average BGS Energy Only Costs @ Customer – PJM Time Periods) indicates the total value, in thousands of dollars, of the average BGS energy only costs. These are the results of the multiplication of the unit costs from Table No. 7, the monthly

time period weights from Table No. 1, and the total sales to customers from Table No. 3. Since the end result of these calculations are to be utilized in the development of retail BGS rates, the rates utilizing time of day pricing must be developed based upon the time periods as defined for billing.

**Table No. 9** (Summary of Average BGS Energy Only Unit Costs @ Customer – ACE Time Periods) shows the result of the corrections for the RS TOU BGS rate. These values are calculated based on the assumption that the MWhs included in the PJM on-peak time period and not included in the ACE on-peak time periods are at the average of the on- and off-peak PJM prices.

**Table No. 10** (Generation & Transmission Obligations and Costs and Other Adjustments) includes the values necessary for the inclusion of the costs of the Generation Capacity and Transmission obligations. The top portion of Table No. 10 shows the total obligations with a migration adjustment, by applicable Rate Schedule, that are currently being utilized in the year 2018. Table No. 10 will be updated in January 2019, similar to Table No. 3. The middle portion of this table shows the number of summer and winter days and months that are used in this analysis. The bottom portion of this table shows the annual market price for transmission service and a seasonally differentiated market price of generation capacity. The cost of transmission service is equal to the current rate for the ACE OATT for network transmission service. The generation capacity costs used are the relevant current wholesale market prices for capacity.

**Table No. 11** (Ancillary Services and RPS) contains an estimate of the effects of the costs of ancillary services and RPS. The values of \$2.00 per MWh and \$19.17 per MWh are used, respectively. Since the actual costs are a complex combination of many factors, an estimate of the overall annual average value, expressed on a dollar per MWh basis, is used as a reasonable and practical alternative.

**Table No. 12** (Summary of Obligation Costs Expressed as \$/MWh @ Customer) shows the

result of the allocation of both the transmission and generation costs, on a per MWh basis, to all Rate Schedules. For RS TOU BGS, the per MWh Generation Capacity Obligation Costs are based on the on-peak usage only.

**Table No. 13** (Summary of BGS Unit Costs @ Customer) is the result of the inclusion of the transmission, generation capacity, Ancillary Services, and RPS costs to the energy only costs shown in Table No. 9. This table shows the total estimated all-in costs for BGS, based on the assumptions utilized in the above tables, and the average per unit cost, as measured at the customer meters or the bulk system meters.

**Table No. 14** (Ratio of BGS Unit Costs @ Customer to All-In Average Cost @ Bulk System) indicates the ratio of the individual rate element costs from Table No. 13 to the overall all-in cost as measured at the bulk system, plus constants, where applicable.

**Table No. 15** (Summary of BGS Unit Costs Less Transmission @ Customer) provides the BGS-RSCP unit costs as developed in Table No. 13, with the exception of transmission. The bottom portion of the table shows the total estimated costs for BGS-RSCP less transmission costs and the average unit cost as measured at the customer meters or the bulk system. ACE developed this table since retail customers will be billed for transmission service based on existing transmission rates in their applicable Rate Schedule. For that reason, the cost of transmission needs to be excluded from the calculation of the retail BGS rates. To develop retail BGS rates, a series of ratios excluding the transmission cost is developed.

**Table No. 16** (Ratio of BGS Unit Costs Less Transmission to All-in Average Cost) indicates the ratio of the individual rate element costs from Table No. 15 to the overall all-in cost as measured at the bulk system. These ratios are used to establish the BGS-RSCP prices to retail customers.

**Table No. 17** (Summary of Total BGS Costs by Season) show the calculation of the total BGS Costs, utilizing the total customer usage from Table No. 3 and the all-in unit costs from Table

No. 13. The lower left portion of the table indicates the relative percentage of total costs by season for all Rate Schedules, while the center shows the calculation of the overall average all-in seasonal unit costs on a dollar per MWh basis. The ratio of these overall average seasonal costs to the overall total cost, shown in the lower right hand portion of Table No. 17, are the seasonal payment ratios upon which payments to the winning bidders are based. The final section summarizes some of the most important assumptions utilized in the above calculations.

**Table No. 18** (Retail Rates Charged to BGS-RSCP Customers), shows the calculation of retail rates to be charged to the BGS-RSCP customers for their BGS services. This table utilizes the information computed in Table No. 16 (Ratio of BGS Unit Costs) and applies the applicable ratios for each rate class to the BGS average price which, in turn, is based on the weighted average winning bids less transmission charges. The upper left portion of this table provides the information on the calculation of the BGS average price.

**Table No. 19** (Retail Rates Charged to BGS-RSCP Customers Including Revenue Assessment and SUT), shows the BGS-RSCP customer rates inclusive of the BPU and Division of Rate Counsel revenue assessments, as well as SUT. This table utilizes the information provided in Table No. 18 and applies the applicable revenue assessment factor and SUT rate to derive the tax effected BGS-RSCP customer's rates.

The second spreadsheet used in the calculation of the final BGS-RSCP rates is included as **Attachment 3**, and is titled "Calculation of June 2019 to May 2020 BGS-RSCP Rates". The tables in this spreadsheet calculate the weighted average winning bid price and convert it into the final BGS-RSCP rates that are charged to customers. An explanation of each of the six tables, labeled as Tables A through F, is as follows:

**Table A** (Auction Results) contains the results of the prior two BGS auctions, as well as the results of the current auction. From these values, the weighted average annual bid price (shown on line 15) is calculated. All of the formulas used in this table are shown in the right hand column

of this table, under the heading “Notes.”

**Table B** (Ratio of BGS Unit Costs @ Customer to All-In Average Cost @ Bulk System) is a repeat of the values shown in Table No. 14 from **Attachment 2**, the bid factors calculated based on current market conditions.

**Table C** (Preliminary Resulting BGS Rates) contains the preliminary customer BGS-RSCP rates as the product of the weighted average bid price (from Table A) and the Bid Factors from Table B.

**Table D** (Revenue Recovery Calculations) contains a comparison of the total anticipated rate revenue billed to customers based on the preliminary BGS-RSCP rates developed in Table C and the anticipated total season payments to BGS suppliers, based on the data in Table A. The calculation of the kWh Rate Adjustment Factors are also provided in this table, which are equal to the seasonal dollar differences between the anticipated billed revenue and supplier payments, divided by the total anticipated seasonal billed BGS-RSCP energy-related charges.

**Table E** (Final Resulting BGS Rates) contains the final adjusted BGS-RSCP rates, which are equal to the preliminary BGS–RSCP rates shown in Table C, times the seasonal kWh Rate Adjustment Factors that were developed in Table D.

**Table F** (Spreadsheet Error Checking) contains a comparison of the total anticipated rate revenue billed to customers based on the final BGS-RSCP rates developed in Table E, and the anticipated total season payments to BGS suppliers, based on the data in Table A.

# Attachment 1



**ATLANTIC CITY ELECTRIC COMPANY**

**BPU NJ No. 11 Electric Service - Section IV Revised Sheet Replaces Revised Sheet No. 60**

**RIDER (BGS)**

**Basic Generation Service (BGS)**

Basic Generation Service (BGS) will be arranged for any customer taking service under Electric Rate Schedules RS, MGS Secondary, MGS Primary, AGS Secondary, AGS Primary, TGS, DDC, SPL, and CSL who has not notified the Company of an Alternative Electric Supplier choice. BGS is also available to customers whose arrangements with Alternative Electric Suppliers have terminated for any reason, including nonpayment.

BGS is offered under two different terms of service; Basic Generation Service-Residential Small Commercial Pricing (BGS-RSCP) and Basic Generation Service -Commercial and Industrial Energy Pricing (BGS-CIEP). BGS-RSCP is offered to customers on Rate Schedules RS, DDC, SPL and CSL. BGS-RSCP is also offered to customers on Rate Schedules MGS Secondary, MGS Primary, AGS Secondary, AGS Primary with an annual peak load share ("PLS") for generation capacity of less than 500 kW as of November 1 or each year. Additionally, BGS customers on Rate Schedule RS have the option of taking BGS-RSCP on a time of use basis.

BGS customers on Rate Schedule TGS and BGS customers on Rate Schedules MGS Secondary, MGS Primary, AGS Secondary or AGS Primary with a PLS for generation capacity equal to or greater than 500 kW as of November 1 of each year are required to take service under BGS-CIEP.

Customers on Rate Schedules MGS Secondary, MGS Primary, AGS Secondary or AGS Primary with a PLS of less than 500 kW, have the option of taking either BGS-RSCP or BGS-CIEP service. Customers who elect BGS-CIEP must notify the Company of their selection no later than the second working day of January of the year they wish to begin BGS-CIEP service. Such election will be effective on June 1 of that year and remain as the customer's default supply for the following twelve months. Customers electing BGS-CIEP as their default supply in a prior procurement period and who are otherwise eligible to return to BGS-RSCP may return to BGS RSCP by notifying the Company no later than the second working day of January of the year that they wish to return to BGS-RSCP service. Such election shall be effective on June 1 of that year.

**BGS-RSCP Supply Charges**

**(\$/kWh):**

Rate Schedule	SUMMER		WINTER	
	June Through September		October Through May	
RS			\$	x.xxxxxx
<=750 kwhs summer	\$	x.xxxxxx		
> 750 kwh summer	\$	x.xxxxxx		
RS TOU BGS Option				
On Peak (See Note 1)	\$	x.xxxxxx	\$	x.xxxxxx
Off Peak (See Note 1)	\$	x.xxxxxx	\$	x.xxxxxx
MGS-Secondary	\$	x.xxxxxx	\$	x.xxxxxx
MGS-Primary	\$	x.xxxxxx	\$	x.xxxxxx
AGS-Secondary	\$	x.xxxxxx	\$	x.xxxxxx
AGS-Primary	\$	x.xxxxxx	\$	x.xxxxxx
DDC	\$	x.xxxxxx	\$	x.xxxxxx
SPL/CSL	\$	x.xxxxxx	\$	x.xxxxxx

Note 1: On Peak hours are considered to be 8:00 AM to 8:00 PM, Monday through Friday.

The above Basic Generation Service Energy Charges reflect costs for Energy, Generation Capacity, Ancillary Services and Administrative Charges pursuant to N.J.S.A. 48:2-60 plus New Jersey Sales and Use Tax as set forth in Rider SUT.

**Date of Issue:**

**Effective Date:**

**Issued by:**

**ATLANTIC CITY ELECTRIC COMPANY**

**BPU NJ No. 11 Electric Service - Section IV Revised Sheet Replaces Revised Sheet No. 60a**

**RIDER (BGS) continued  
Basic Generation Service (BGS)**

**BGS Reconciliation Charge (\$/kWh):**

The above charge shall recover the difference between the monthly amount paid to Basic Generation Service (BGS) suppliers and the total revenue from customers for BGS for the preceding months for the applicable BGS supply. These charges include New Jersey Sales and Use Tax as set forth in Rider SUT and are changed on June 1 and October 1 of each year.

Rate Schedule	Charge (\$ per kWh)
RS	\$ (0.002178)
MGS Secondary, AGS Secondary, SPL/CSL, DDC	\$ (0.002178)
MGS Primary, AGS Primary	\$ (0.002121)

**BGS-CIEP**

**Energy Charges**

BGS Energy Charges for Rate Schedule TGS, AGS and MGS customers with a Peak Load Share (PLS) of 500 kW or more, and AGS and MGS customers with a PLS of less than 500 kW who have elected BGS-CIEP are hourly and are provided at the real time PJM Load Weighted Average Residual Metered Load Aggregate Locational Marginal Prices for the Atlantic Electric Transmission Zone, adjusted for losses, plus administrative charges pursuant to N.J.S.A. 48:2-60 and New Jersey Sales and Use Tax as set forth in Rider SUT.

**Generation Capacity Obligation Charge**

	Summer	Winter
Charge per kilowatt of Generation Obligation (\$ per kW per day)	\$ x.xxxxxx	\$ x.xxxxxx

This charge is equal to the winning bid price from the BGS-CIEP default service auction plus administrative charges pursuant to N.J.S.A. 48:2-60 and New Jersey Sales and Use Tax as set forth in Rider SUT. The above charge shall be applied to each customer's annual peak load share ("PLS") for generation capacity, adjusted for the applicable PJM-determined Zonal Scaling Factor and the applicable PJM-determined capacity reserve margin factor, on a daily basis for each day in each customer's respective billing cycle.

**Ancillary Service Charge**

	Charge (\$ per kWh)
Service taken at Secondary Voltage	\$ x.xxxxxx
Service taken at Primary Voltage	\$ x.xxxxxx
Service taken at Sub-Transmission Voltage	\$ x.xxxxxx
Service taken at Transmission Voltage	\$ x.xxxxxx

This charge represents the average annual cost of Ancillary Services in the Atlantic Electric Transmission zone adjusted for losses, plus administrative charges pursuant to N.J.S.A. 48:2-60 and New Jersey Sales and Use Tax as set forth in Rider SUT.

**BGS Reconciliation Charge:**

	Charge (\$ per kWh)
Service taken at Secondary Voltage	\$ 0.007356
Service taken at Primary Voltage	\$ 0.007164
Service taken at Sub-Transmission Voltage	\$ 0.007083
Service taken at Transmission Voltage	\$ 0.007013

The above charge shall recover the difference between the monthly amount paid to Basic Generation Service (BGS) suppliers and the total revenue from customers for BGS for the preceding months for the applicable BGS supply. These charges include administrative charges pursuant to N.J.S.A. 48:2-60 and New Jersey Sales and Use Tax as set forth in Rider SUT and are changed on June 1 and October 1 of each year.

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**ATLANTIC CITY ELECTRIC COMPANY****BPU NJ No. 11 Electric Service - Section IV Revised Sheet Replaces Revised Sheet No. 60b****RIDER (BGS) continued  
Basic Generation Service (BGS)****CIEP Standby Fee** \$x.xxxxxx per kWh

This charge recovers the costs associated with the winning BGS-CIEP bidders maintaining the availability of the hourly priced default electric supply service plus administrative charges pursuant to N.J.S.A. 48:2-60 and New Jersey Sales and Use Tax as set forth in Rider SUT. This charge is assessed on all kWhs delivered to all CIEP- eligible customers on Rate Schedules MGS Secondary, MGS Primary, AGS Secondary, AGS Primary or TGS.

**Transmission Enhancement Charge**

This charge reflects Transmission Enhancement Charges ("TECs"), implemented to compensate transmission owners for the annual transmission revenue requirements for "Required Transmission Enhancements" (as defined in Schedule 12 of the PJM OATT) that are requested by PJM for reliability or economic purposes and approved by the Federal Energy Regulatory Commission (FERC). The TEC charge (in \$ per kWh by Rate Schedule), including administrative charges pursuant to N.J.S.A. 48:2-60 and New Jersey Sales and Use Tax as set forth in Rider SUT, is delineated in the following table.

	<b>Rate Class</b>							
	<b><u>RS</u></b>	<b><u>MGS Secondary</u></b>	<b><u>MGS Primary</u></b>	<b><u>AGS Secondary</u></b>	<b><u>AGS Primary</u></b>	<b><u>TGS</u></b>	<b><u>SPL/ CSL</u></b>	<b><u>DDC</u></b>
VEPCo	0.000437	0.000361	0.000293	0.000242	0.000194	0.000187	-	0.000147
TrAILCo	0.000587	0.000491	0.000530	0.000324	0.000260	0.000249	-	0.000206
PSE&G	0.000582	0.000482	0.000391	0.000323	0.000259	0.000251	-	0.000197
PATH	(0.000050)	(0.000042)	(0.000034)	(0.000028)	(0.000022)	(0.000021)	-	(0.000017)
PPL	0.000237	0.000199	0.000214	0.000131	0.000105	0.000102	-	0.000083
Pepco	0.000021	0.000018	0.000019	0.000012	0.000010	0.000010	-	0.000007
PECO	0.000194	0.000160	0.000130	0.000108	0.000086	0.000083		0.000066
MAIT	0.000031	0.000026	0.000028	0.000017	0.000014	0.000013		0.000011
JCP&L	0.000003	0.000003	0.000002	0.000002	0.000001	0.000001	-	0.000001
Delmarva	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	-	0.000001
BG&E	0.000073	0.000061	0.000066	0.000041	0.000032	0.000031	-	0.000026
AEP - East	0.000131	0.000108	0.000087	0.000073	0.000058	0.000055	-	0.000044
Total	0.002247	0.001867	0.001727	0.001246	0.000998	0.000962	-	0.000772

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# Attachment 2

**Table #1**      **% usage during PJM On-Peak period**  
(data rounded to nearest %)

*On-Peak periods defined as the 16 hr PJM Trading period, adj for NERC holidays*

	RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC
January	48.54%	48.56%	53.71%	49.16%	54.29%	51.03%	34.44%	47.70%
February	51.97%	51.94%	56.83%	38.11%	56.65%	52.21%	33.52%	49.47%
March	52.53%	52.48%	56.48%	30.98%	57.78%	54.45%	30.97%	51.70%
April	47.39%	47.30%	53.32%	37.47%	53.54%	50.13%	23.24%	46.51%
May	53.12%	53.16%	58.72%	48.60%	57.29%	53.41%	20.98%	49.23%
June	55.98%	55.90%	58.94%	54.23%	58.71%	54.93%	20.16%	51.00%
July	51.03%	51.02%	52.74%	49.00%	52.48%	49.52%	17.93%	45.25%
August	58.62%	58.62%	58.54%	55.40%	59.61%	56.12%	23.93%	51.88%
September	51.54%	51.61%	54.56%	46.52%	55.18%	50.84%	26.58%	46.14%
October	51.82%	51.63%	56.84%	47.86%	57.08%	53.15%	32.84%	49.19%
November	49.73%	49.71%	56.92%	52.18%	55.83%	52.97%	35.43%	49.07%
December	46.59%	46.53%	50.37%	48.16%	50.92%	48.66%	34.16%	45.54%

**Table #2                      % Usage During ACECO On-Peak Billing Period**

RS TOU - BGS	
January	36.27%
February	37.94%
March	38.20%
April	34.21%
May	38.87%
June	42.87%
July	39.73%
August	45.52%
September	39.27%
October	38.20%
November	36.44%
December	34.10%

**Table #3**      **Class Usage @ customer**  
*calendar month sales forecasted for period*  
*in MWh*

	RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC	Total
Jan-19	335,952	370	62,326	1,171	74,708	5,261	4,273	672	484,732
Feb-19	308,910	346	59,852	1,609	68,969	6,201	3,828	640	450,355
Mar-19	282,060	309	58,026	1,207	64,215	5,336	3,682	628	415,463
Apr-19	244,616	262	56,795	1,004	65,969	4,040	3,295	616	376,597
May-19	219,729	227	58,544	1,307	63,632	4,853	3,148	634	352,074
Jun-18	277,794	274	68,477	1,176	72,436	4,764	3,214	747	428,882
Jul-18	411,005	399	80,631	1,223	91,473	5,787	3,598	888	595,005
Aug-18	469,653	455	83,379	1,359	92,522	5,961	3,891	906	658,127
Sep-18	414,789	400	81,198	1,248	90,093	5,723	4,081	894	598,428
Oct-18	254,788	250	57,596	1,285	65,386	4,971	3,839	625	388,740
Nov-18	231,148	243	57,155	1,312	63,964	4,901	4,161	619	363,502
Dec-18	277,162	299	57,958	1,384	66,343	4,984	4,178	623	412,931
Total	3,727,608	3,833	781,938	15,285	879,711	62,783	45,187	8,492	5,524,837

Table #4	Forwards Prices - Energy Only @ bulk system (\$/MWH)			Table #5		Zone-Hub Basis Differential		'Based on 3 Year Average	
		On-Peak	Off/On Pk LMP ratio	Off-Peak		On-Peak	Off-Peak		
	Jan-19	48.05	0.776	37.27		92%	93%		
	Feb-19	45.15	0.776	35.02		92%	93%		
	Mar-19	36.43	0.776	28.26		92%	93%		
	Apr-19	31.50	0.776	24.43		92%	93%		
	May-19	31.55	0.776	24.47		92%	93%		
	Jun-18	32.48	0.640	20.79		94%	87%		
	Jul-18	38.27	0.640	24.50		94%	87%		
	Aug-18	35.67	0.640	22.83		94%	87%		
	Sep-18	32.53	0.640	20.82		94%	87%		
	Oct-18	31.45	0.776	24.39		92%	93%		
	Nov-18	31.43	0.776	24.38		92%	93%		
	Dec-18	34.28	0.776	26.59		92%	93%		

Table #6	Losses	RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC
	Delivery Loss Factor	6.6720%	6.6720%	6.6720%	4.1641%	6.6720%	4.1641%	6.6720%	6.6720%
	Loss Factors + EHV Losses =	7.0688%	7.0688%	7.0688%	4.5715%	7.0688%	4.5715%	7.0688%	7.0688%
	Expansion Factor =	1.07606	1.07606	1.07606	1.04790	1.07606	1.04790	1.07606	1.07606
	Marginal Loss Factor (w/ EHV Losses) =	1.7659%	1.7659%	1.7659%	1.7659%	1.7659%	1.7659%	1.7659%	1.7659%
	Loss Factor w/o Marginal Loss =	5.3982%	5.3982%	5.3982%	2.8560%	5.3982%	2.8560%	5.3982%	5.3982%
	Expansion Factor w/o Marginal Loss =	1.05706	1.05706	1.05706	1.02940	1.05706	1.02940	1.05706	1.05706

Table #7	Summary of Average BGS Energy Only Unit Costs @ customer - PJM Time Periods based on Forwards @ PJM West - corrected for congestion & losses in \$/MWh									
		RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC	
	Summer - all hrs	\$ 28.70	\$ 28.70	\$ 28.84	\$ 27.39	\$ 28.92	\$ 27.65	\$ 23.98	\$ 27.76	
	On Peak	\$ 35.20	\$ 35.20	\$ 35.04	\$ 34.12	\$ 35.08	\$ 34.16	\$ 34.78	\$ 35.05	
	Off Peak	\$ 20.97	\$ 20.96	\$ 20.92	\$ 20.30	\$ 20.95	\$ 20.37	\$ 20.86	\$ 20.90	
	Winter - all hrs	\$ 32.64	\$ 32.80	\$ 32.47	\$ 30.83	\$ 32.59	\$ 31.65	\$ 30.75	\$ 31.94	
	On Peak	\$ 36.52	\$ 36.71	\$ 35.86	\$ 34.82	\$ 36.01	\$ 35.24	\$ 36.41	\$ 35.89	
	Off Peak	\$ 28.73	\$ 28.87	\$ 28.27	\$ 27.68	\$ 28.33	\$ 27.76	\$ 28.18	\$ 28.21	
	Annual	\$ 30.98	\$ 31.16	\$ 31.02	\$ 29.71	\$ 31.14	\$ 30.24	\$ 28.53	\$ 30.25	
	System Average Cost @ customer - (limited to classes shown above) =				\$ 30.97					

Table #8	Summary of Average BGS Energy Only Costs @ customer - PJM Time Periods based on Forwards prices corrected for congestion & losses in \$1000									
		RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC	
	Summer - all hrs	\$ 45,149	\$ 44	\$ 9,047	\$ 137	\$ 10,020	\$ 615	\$ 355	\$ 95	
	PJM on pk	\$ 30,077	\$ 29	\$ 6,167	\$ 88	\$ 6,854	\$ 401	\$ 115	\$ 58	
	PJM off pk	\$ 15,072	\$ 15	\$ 2,880	\$ 49	\$ 3,166	\$ 214	\$ 239	\$ 37	
	Winter - all hrs	\$ 70,317	\$ 76	\$ 15,206	\$ 317	\$ 17,374	\$ 1,284	\$ 935	\$ 162	
	PJM on pk	\$ 39,464	\$ 42	\$ 9,302	\$ 158	\$ 10,635	\$ 744	\$ 345	\$ 88	
	PJM off pk	\$ 30,853	\$ 33	\$ 5,905	\$ 159	\$ 6,739	\$ 540	\$ 590	\$ 73	
	Annual	\$ 115,467	\$ 119	\$ 24,253	\$ 454	\$ 27,394	\$ 1,898	\$ 1,289	\$ 257	
	System Total	\$ 171,132								

Table #9  
Summary of Average BGS Energy Only Unit Costs @ customer - ACECO Time Periods  
based on Forwards prices corrected for congestion & losses - ACECO billing time periods  
in \$/MWh

		RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC
Summer - all hrs	\$	28.70	\$ 28.70	\$ 28.84	\$ 27.39	\$ 28.92	\$ 27.65	\$ 23.98	\$ 27.76
	ACECO On pk		\$ 37.31						
	ACECO Off pk		\$ 22.49						
Winter - all hrs	\$	32.64	\$ 32.80	\$ 32.47	\$ 30.83	\$ 32.59	\$ 31.65	\$ 30.75	\$ 31.94
	ACECO On pk		\$ 38.14						
	ACECO Off pk		\$ 29.70						
Annual Average	\$	30.98	\$ 31.16	\$ 31.02	\$ 29.71	\$ 31.14	\$ 30.24	\$ 28.53	\$ 30.25
System Average	\$	30.97							

Table #10  
Generation & Transmission Obligations and Costs and Other Adjustments  
obligations - values effective June 2018; costs are market estimates  
in MW

	RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC	Total
Gen Load - MW	1,217.6	0.6	211.5	4.8	177.9	10.3	0.0	1.2	1,623.9
Gen Obl - MW	1,449.9	0.7	251.9	5.7	211.8	12.3	0.0	1.4	1,933.8
Trans Obl - MW	1,340.9	0.7	233.4	4.9	188.9	10.7	0.0	1.2	1,780.6
# of Months and Days used in this analysis									
			# of summer days =	122	# of summer months =		4		
			# of winter days =	243	# of winter months =		8		
					total # months =		12		
Transmission Cost		\$ 51,442	per MW-yr						
Generation Capacity Cost			Base Capacity						
	Summer	\$151.03	\$/MW/day				Summer Total \$	35,630,100	
	Winter	\$151.03	\$/MW/day				Winter Total \$	70,968,150	
							Annual Total \$	106,598,249	

Residential Inversion Determination

	Charges	Rate RS	% usage	SUM 'First 750 KWh	
Block 1 (0-750 kWh/m)	5.480200		64.94%	SUM > 750 KWh	1,066,109,596
Block 2 (>750 kWh/m)	6.345400		35.06%		575,598,373
Calculated inversion =	0.865200			WIN	2,246,698,892
					3,888,406,860

Table #11  
Ancillary Services & Renewable Power Cost (forecasted overall annual average)  
Ancillary Services  
Renewable Power Cost  
Total Ancillary Services & Renewable Power Costs

\$ 2.00
\$ 19.17
\$ 21.17

Table #12  
Summary of Obligation Costs expressed as \$/MWh @ customer

	RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC	Total
Transmission Obl - yr round	\$ 18.50	\$ 23.25	\$ 15.35	\$ 16.54	\$ 11.05	\$ 8.74	\$ 0.00	\$ 7.38	\$ 16.58
Generation Obl -									
per annual MWh	\$ 21.44	\$ 27.74	\$ 17.76	\$ 20.44	\$ 13.27	\$ 10.77	\$ 0.00	\$ 9.27	
recovery per summer MWh	\$ 16.98	\$ 21.54	\$ 14.80	\$ 20.86	\$ 11.26	\$ 10.17	\$ 0.00	\$ 7.66	
recovery per winter MWh	\$ 24.70	\$ 32.43	\$ 19.74	\$ 20.24	\$ 14.58	\$ 11.10	\$ 0.00	\$ 10.37	

Table #13      Summary of BGS Unit Costs @ customer  
Includes energy, G&T obligations, Ancillary Services, and Renewable Power Costs  
in \$/MWh

		RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC
Summer - all hrs		\$ 86.96	\$ 96.27	\$ 81.77	\$ 86.98	\$ 74.00	\$ 68.74	\$ 46.76	\$ 65.58
	ACECO On-Peak		\$ 104.88						
	ACECO Off-Peak		\$ 45.27						
	Block 1 (0-750 kWh/m)	\$ 83.93							
	Block 2 (>750 kWh/m)	\$ 92.58							
Winter - all hrs		\$ 98.62	\$ 111.27	\$ 90.35	\$ 89.79	\$ 80.99	\$ 73.68	\$ 53.53	\$ 72.46
	ACECO On-Peak		\$ 116.61						
	ACECO Off-Peak		\$ 52.48						
Annual		\$ 93.70	\$ 73.73	\$ 86.91	\$ 88.87	\$ 78.24	\$ 71.93	\$ 51.32	\$ 69.68
Grand Total Cost in \$1000 =		\$ 495,139							
All In Average cost for rates shown (@ customer) =					\$ 89.62				
All In Average costs for rates shown (@ bulk system) =					\$ 84.81				

Table #14      Ratio of BGS Unit Costs @ customer to All In Average Cost @ bulk system (rounded to 3 decimal places)  
Includes energy, G&T obligations, Ancillary Services, and Renewable Power Costs - unadjusted for billing vs. PJM time period differences

		RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC
Summer - all hrs									
	On-Peak		1.135	0.964	1.026	0.873	0.810	0.551	0.773
	Off-Peak		1.237						
			0.534						
	All usage Multiplier	1.025							
	Constant	(3.03)							
	Constant	5.62							
			for Block 1 (0-750 kWh/m) usage						
			for Block 2 (>750 kWh/m) usage						
Winter - all hrs									
	On-Peak	1.163	1.312	1.065	1.059	0.955	0.869	0.631	0.854
	Off-Peak		1.375						
			0.619						
Annual		1.105	0.869	1.025	1.048	0.922	0.848	0.605	0.822



**Table #15**      **Summary of BGS Unit Costs Less Transmission @ customer**  
*Includes energy, Generation capacity obligations, Ancillary Services, and Renewable Power Costs - unadjusted for billing vs. PJM time period differences. Transmission billed at retail tariff level.*  
*in \$/MWh*

		RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC
Summer - all hrs		\$ 68.46	\$ 73.02	\$ 66.42	\$ 70.44	\$ 62.96	\$ 60.00	\$ 46.76	\$ 58.20
	On-Peak	\$	\$ 81.63						
	Off-Peak	\$	\$ 45.27						
	Block 1 (0-750 kWh/m)	\$ 65.43							
	Block 2 (>750 kWh/m)	\$ 74.08							
Winter - all hrs		\$ 80.12	\$ 88.01	\$ 75.00	\$ 73.25	\$ 69.95	\$ 64.94	\$ 53.53	\$ 65.08
	On-Peak	\$	\$ 93.35						
	Off-Peak	\$	\$ 52.48						
Annual		\$ 75.20	\$ 64.71	\$ 71.56	\$ 72.33	\$ 67.19	\$ 63.19	\$ 51.32	\$ 62.30

Grand Total Cost in \$1000 = \$ 403,541

All In (Less Transmission) Average cost for rates shown (@ customer) = \$ 73.04  
All In (Less Transmission) Average costs for rates shown (@ bulk system) = \$ 69.12

**Table #16**      **Ratio of BGS Unit Costs @ customer to All In Average Cost Less Transmission @ bulk system (rounded to 3 decimal places)**  
*Includes energy, Generation capacity obligations, Ancillary Services, and Renewable Power Costs - unadjusted for billing vs. PJM time period differences.*  
*Transmission billed at retail tariff level.*

		RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC
Summer - all hrs			1.056	0.961	1.019	0.911	0.868	0.676	0.842
	On-Peak		1.181						
	Off-Peak		0.655						
	All usage Multiplier	0.990							
	Constant \$	(3.03)		for Block 1 (0-750 kWh/m) usage					
	Constant \$	5.62		for Block 2 (>750 kWh/m) usage					
Winter - all hrs		1.159	1.273	1.085	1.060	1.012	0.940	0.774	0.942
	On-Peak		1.350						
	Off-Peak		0.759						
Annual		1.088	0.936	1.035	1.046	0.972	0.914	0.742	0.901

**Table #17**                  **Summary of Total BGS Costs by Season**

		RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC	
Total Costs by Rate - in \$1000										
Summer	\$	136,815	\$ 147	\$ 25,650	\$ 435	\$ 25,644	\$ 1,528	\$ 691	\$ 225	
Winter	\$	212,471	\$ 256	\$ 42,307	\$ 923	\$ 43,184	\$ 2,988	\$ 1,628	\$ 366	
Total	\$	349,286	\$ 404	\$ 67,958	\$ 1,358	\$ 68,828	\$ 4,516	\$ 2,319	\$ 592	
% of Annual Total \$ by Rate										
Summer		39%	36%	38%	32%	37%	34%	30%	38%	
Winter		61%	64%	62%	68%	63%	66%	70%	62%	
Total Costs - in \$1000										
Summer	\$	191,137								
Winter	\$	304,123								
Total	\$	495,260								
% of Annual Total \$			If total \$ were split on a per MWh basis (on bulk system MWhs):							
Summer		39%	\$ 79.32	per MWh @ bulk system			Ratio to All-In Cost	>>>	Summer	1.0000
Winter		61%	\$ 88.71	per MWh @ bulk system			(rounded to 4 decimal places)		Winter	1.0000

**Assumptions:**

Gen Cost =	\$151.03	per MW-day	summer
=	\$151.03	per MW-day	winter
Trans cost = \$	51,442	per MW-yr	
Ancillary Services = \$	2.00	per MWH	
Renewable Power Cost = \$	19.17	per MWH	
Energy Prices =	Quotes for the period June 1, 2019 to May 31, 2020 - corrected for hub-zone basis differential.		
Usage patterns =	forecasted energy use by class, on/off % from class load profiles		
Obligations =	class totals as of June 2018		
Losses =	existing approved loss factors		
PJM Time Periods =	PJM trading time periods - 7 AM to 11 PM weekdays, local time, x NERC holidays - New Year's, Memorial, 4th of July, Labor Day, Thanksgiving & Christmas		

<b>Weighted Avg. Winning Bid &gt;&gt;&gt;&gt;</b>	\$	<b>79.143</b>
<b>Less Transmission &gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;</b>	\$	<b>15.413</b>
<b>BGS Avg. Price &gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;</b>	\$	<b>63.730</b>

Retail Rates Charged to BGS RSCP Customers including Revenue Assessment and SUT													
Includes energy, Generation Obligations, Ancillary Services, and Renewable Power Costs - Transmission billed at current Tariff Rates													
in \$/kWh													
Revenue Assessment Factor (BPU, RPA Assessments)		1.002458085											
			RS	RS TOU - BGS		MGS - SEC	MGS - PRI		AGS - SEC	AGS - PRI		SPL/CSL	DDC
Summer - all hrs					\$	0.070024	0.074250	\$	0.066380	0.063247	\$	0.049257	0.061353
	On-Peak	\$		0.086054									
	Off-Peak	\$		0.047727									
	Block 1 (0-750 kWh/m)	\$	0.068669										
	Block 2 (>750 kWh/m)	\$	0.078561										
Winter - all hrs		\$	0.075488		\$	0.070668	0.069040	\$	0.065914	0.061224	\$	0.050412	0.061354
	On-Peak	\$		0.087928									
	Off-Peak	\$		0.049435									
Annual		\$	0.074113	\$	0.063759	\$	0.070503	\$	0.066212	0.062261	\$	0.050544	0.061375

# Attachment 3

Atlantic City Electric Company  
Calculation of June 2019 to May 2020 BGS-RSCP Rates  
based on results of February 2019 BGS RSCP Auction

Table A      Auction Results

line #	Payment Identifier >>	remaining portion of 36 month bid - 2017/18 filing	remaining portion of 36 month bid - 2018/19 filing	36 month bid - 2019/20 filing	Notes:
1	Winning Bid - in \$/MWh	\$ 75.49	\$ 81.23	\$ 81.23	winning Bids
2	# of Traunches for Bid	8	7	7	from then current Bid
3	Total # of Traunches	22	22	22	from then current Bid
Payment Factors					
4	Summer	1.0000	1.0000	1.0000	from then current Bid Factor Spreadsheet
5	Winter	1.0000	1.0000	1.0000	from then current Bid Factor Spreadsheet
Applicable Customer Usage @ bulk system - in MWh					
6	Summer MWh	2,409,814			from current Bid Factor Spreadsheet
7	Winter MWh	3,428,120			
Total Payment to Suppliers - in \$1000					
8	Summer	\$ 66,152	\$ 62,284	\$ 62,284	= (1) * (2)/(3) * (4) * (6)
9	Winter	\$ 94,105	\$ 88,603	\$ 88,603	= (1) * (2)/(3) * (5) * (7)
10	Total	\$ 160,257	\$ 150,887	\$ 150,887	
Average Payment to Suppliers - in \$/MWh					
11	Summer	\$ 79.14			= sum(line 8) / (6) - rounded to 2 decimal places
12	Winter	\$ 79.14			= sum(line 9) / (7) - rounded to 2 decimal places
13	Total weighted average	\$ 79.14	<<< used in calculation of Customer Rates		= sum(line 10) / [ (6) + (7)] rounded to 2 decimal places
Reconciliation of amounts - in \$1000					
14	Weighted avg * Total MWh =	\$ 462,032			= (13) * [(6)+(7)] / 1000
15	Total Payment to Suppliers =	\$ 462,030			= sum (line 10)
16	Difference =	\$ 2			= line (14) - line (15)

Atlantic City Electric Company  
Calculation of June 2019 to May 2020 BGS-RSCP Rates  
based on results of February 2019 BGS RSCP Auction

Table B	Ratio of BGS Unit Costs @ customer to All-In Average Cost @ bulk system					from Table #14 of the bid factor spreadsheet --- round to 3 decimal places				
includes energy, G&T obligations, Ancillary Services, and Renewable Power Cost - adjusted to billing time periods										
		RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC	Total
Summer - all hrs			1.135	0.964	1.026	0.873	0.81	0.551	0.773	
	On-Peak		1.237							
	Off-Peak		0.534							
	All usage Multiplier	1.025								
	Constant	(3.033)		for Block 1 (0-750 kWh/m) usage						
	Constant	5.619		for Block 2 (>750 kWh/m) usage						
Winter - all hrs		1.163	1.312	1.065	1.059	0.955	0.869	0.631	0.854	
	On-Peak		1.375							
	Off-Peak		0.619							
Annual - all hrs		1.105	0.869	1.025	1.048	0.922	0.848	0.605	0.822	

Table C		Preliminary Resulting BGS Rates (in cents per kWh) - equal to bid factors times weighted average bid price rounded to 4 decimal places								
includes energy, G&T obligations, Ancillary Services, and Renewable Power Cost - adjusted to billing time periods										
		RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC	
Summer - all hrs			8.9827	7.6294	8.1201	6.9092	6.4106	4.3608	6.1178	
	On-Peak		9.7900							
	Off-Peak		4.2262							
for Block 1 (0-750 kWh/m) usage		7.8088								
for Block 2 (>750 kWh/m) usage		8.6740								
Winter - all hrs		9.2043	10.3836	8.4287	8.3812	7.5582	6.8775	4.9939	6.7588	
	On-Peak		10.8822							
	Off-Peak		4.8990							

Atlantic City Electric Company  
Calculation of June 2019 to May 2020 BGS-RSCP Rates  
based on results of February 2019 BGS RSCP Auction

Table D Revenue Recovery Calculations - Reconciliation of seasonal Customer Revenue and Supplier Payments, based on actual anticipated revenues and payments

	RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC
Total Rate Revenue - in \$1000								
Summer	\$ 127,624	\$ 111	\$ 23,932	\$ 406	\$ 23,942	\$ 1,425	\$ 645	\$ 210
Winter	\$ 198,294	\$ 182	\$ 39,468	\$ 862	\$ 40,299	\$ 2,789	\$ 1,518	\$ 342
Total	\$ 325,918	\$ 293	\$ 63,400	\$ 1,268	\$ 64,241	\$ 4,214	\$ 2,163	\$ 552
Total Summer	\$ 178,296							
Total Winter	\$ 283,753							
Grand Total	\$ 462,049							
Total Supplier Payment - in \$1000								
Summer	\$ 190,719							
Winter	\$ 271,311							
Total	\$ 462,030							
Differences - in \$1000								
Summer	\$ 12,424							
Winter	\$ (12,443)							
Total	\$ (19)							

kWh Rate	% difference
Adjustment	6.5141%
Factors	-4.5861%
1.06968	-0.0041%
0.95615	

Note: These differences are due to rounding and seasonal differences in Bidder Payments (which are based on prior wining bids and Seasonal Payment Factors) and current Rates (based on current seasonal market differentials)

**Atlantic City Electric Company**

Calculation of June 2019 to May 2020 BGS-RSCP Rates  
based on results of February 2019 BGS RSCP Auction

**Table E** Final Resulting BGS Rates (in cents per kWh) - with preliminary kWh rates adjusted by the kWh Rate Adjustment Factor rounded to 4 decimal places

*includes energy, G&T obligations, Ancillary Services, and Renewable Power Cost - adjusted to billing time periods*

		RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC
Summer - all hrs			<b>9.6086</b>	<b>8.1610</b>	<b>8.6859</b>	<b>7.3906</b>	<b>6.8573</b>	<b>4.6647</b>	<b>6.5441</b>
	On-Peak		<b>10.4722</b>						
	Off-Peak		<b>4.5207</b>						
for Block 1 (0-750 kWh/m) usage		<b>8.3529</b>							
for Block 2 (>750 kWh/m) usage		<b>9.2784</b>							
Winter - all hrs		<b>8.8007</b>	<b>9.9283</b>	<b>8.0591</b>	<b>8.0137</b>	<b>7.2268</b>	<b>6.5759</b>	<b>4.7749</b>	<b>6.4624</b>
	On-Peak		<b>10.4050</b>						
	Off-Peak		<b>4.6842</b>						

**Table F**      **Spreadsheet Error Checking** - *Checking of seasonal Customer Revenue and Supplier Payments, based on final actual anticipated revenues and payments*

	RS	RS TOU - BGS	MGS - SEC	MGS - PRI	AGS - SEC	AGS - PRI	SPL/CSL	DDC
Total Rate Revenue - in \$1000								
Summer	\$ 136,516	\$ 118	\$ 25,600	\$ 435	\$ 25,610	\$ 1,525	\$ 690	\$ 225
Winter	<u>\$ 189,599</u>	<u>\$ 174</u>	<u>\$ 37,737</u>	<u>\$ 824</u>	<u>\$ 38,532</u>	<u>\$ 2,666</u>	<u>\$ 1,452</u>	<u>\$ 327</u>
Total	\$ 326,116	\$ 292	\$ 63,337	\$ 1,259	\$ 64,143	\$ 4,191	\$ 2,141	\$ 552
Total Summer	\$ 190,719							
Total Winter	<u>\$ 271,311</u>							
Grand Total	\$ 462,030							
Total Supplier Payment - in \$1000								
Summer	\$ 190,719							
Winter	<u>\$ 271,311</u>							
Total	\$ 462,030							
Differences - in \$1000								
Summer	\$ (0)							
Winter	<u>\$ 0</u>							
Total	\$ 0							



In the Matter of the Provision of Basic Generation Service  
for the Period Beginning June 1, 2019  
Docket No. ER18040356

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