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A Pennsylvania Professional Corporation

June 28, 2019

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Aida Camacho-Welch, Secretary
Board of Public Utilities
44 South Clinton Avenue
3rd Floor, Suite 314
P.O. Box 350
Trenton, NJ 08625-0350

Re: **In the Matter of the Provision of Basic Generation Service for the Period Beginning June 1, 2020**
Docket No. ER19040428

Dear Secretary Camacho-Welch:

On or about July 1, 2019, Public Service Electric and Gas Company ("Public Service") will be submitting to the Board of Public Utilities ("Board"), on behalf of itself and the other New Jersey electric distribution companies ("EDCs"), *i.e.*, Jersey Central Power & Light Company ("JCP&L"), Atlantic City Electric Company and Rockland Electric Company, a joint proposal for an auction process for the procurement of a portion of the supply for the provision of basic generation service ("BGS") for the period commencing June 1, 2020. Such submission is being made in compliance with the Board's Order, dated April 18, 2019, in the above-captioned docket.

As part of the joint submission being made by Public Service on behalf of itself and the other EDCs, including JCP&L, each EDC is submitting, under separate cover, a Company Specific Addendum ("CSA") that supplies EDC-specific information relating to such matters as

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committed supply, contingency plans, BGS accounting and cost recovery, and proposed tariff sheets.

Enclosed herewith for filing with the Board are the original and 11 copies of JCP&L's CSA, containing JCP&L-specific information relating to the EDCs' joint proposal for the BGS supply period commencing June 1, 2020.

Kindly return a copy of JCP&L's Company Specific Addendum stamped as "filed" to the undersigned in the self-addressed, prepaid envelope provided herewith.

Respectfully submitted,

COZEN O'CONNOR

By: Gregory Eisenstark

cc: Service List (Board Staff, Rate Counsel and Department of Law only)
(w/enclosures - Via Overnight Delivery)
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(Via electronic notice with link)

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IN THE MATTER OF THE PROVISION OF BASIC GENERATION SERVICE FOR THE PERIOD BEGINNING JUNE 1, 2020	:	**Docket No. ER19040428**

JERSEY CENTRAL POWER & LIGHT COMPANY

PROPOSAL FOR BASIC GENERATION SERVICE BEYOND MAY 31, 2020

COMPANY SPECIFIC ADDENDUM

June 28, 2019

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I. Use of Committed Supply and Contingency Plans

A. Committed Supply

"Committed Supply," means power supplies to which JCP&L has an existing physical or financial entitlement. This will include specifically NUG contracts, including any restructured replacement power contracts, customer generation under the operational control of JCP&L and generation assets still owned by JCP&L, namely Yards Creek. JCP&L will retain the right to negotiate changes in all NUG contracts and to make changes with respect to the operational control over Yards Creek and dispatchable NUGs.

In prior auctions, JCP&L provided renewable attributes from non-utility generation contracts on a pro-rata basis to BGS-RSCP Suppliers. Since JCP&L's last non-utility generation contract with renewable attributes was terminated in February 2017, no renewable attributes will be available going forward.

As previously directed by the Board in its Order dated December 11, 2001 (Docket No. EX01050303), except where retained to meet requirements of the Contingency Plan, JCP&L will continue to sell all of the remaining energy, capacity and ancillary services associated with its Committed Supply into the PJM Spot Market unless and until the Board determines that a different sales protocol is appropriate. All net revenues from these sales will be credited to the NGC, provided that, in the case of JCP&L-owned generation assets, the all-in costs of those assets will continue to be recovered through BGS charges or JCP&L's NGC Deferred Balance.

In the event that JCP&L is required to invoke its Contingency Plan, Committed Supply may be used to offset requirements associated with the Contingency Plan.

To the extent that JCP&L remains obligated to meet the renewable portfolio standards requirement with respect to the 10 MW it serves, JCP&L will purchase sufficient amounts of renewable energy credits (RECS and SRECS) and/or make requisite solar alternative compliance payments to meet its solar requirement. BGS-RSCP and CIEP Suppliers will be responsible for obtaining and providing related verification information to JCP&L for the minimum Solar, Class I and Class II percentages or amounts required in the RPS associated with the tranches they serve, subject to the foregoing limitations, to each BGS-RSCP and BGS-CIEP Supplier's tranches using the BGS-RSCP and BGS-CIEP Supplier Responsibility Share. Such verification will be provided to the Company pursuant to the procedures and timeframes set forth in the BGS Supplier Master Agreements .

B. Contingency Plans

While not every contingency can be anticipated, JCP&L has identified three possible occurrences for which a Contingency Plan has been developed:

(a) JCP&L receives an insufficient number 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 1, 2020;

(c) A default during the June 1, 2020 – May 31, 2023 supply period.

(a) Insufficient Number of Bids in Auction

In order for the Auction Process to achieve the best price for customers, the degree of competition in the auction must be sufficient. To ensure a sufficient degree of competition, the target volume

of BGS-RSCP and BGS-CIEP Load purchased at each auction will be decided after the round 1 bids are received. Provided that there are sufficient bids at the starting prices, the auctions will be held for 100% of BGS-CIEP Load with yearly rolling procurements for the BGS-RSCP Load, where one-third of the required supply is contracted for the next three years.

It is possible that the number of initial bids will not result in a competitive auction for 100% of the BGS-CIEP Load and one-third of the yearly BGS-RSCP Supply. This determination will be made by the Auction Manager in consultation with the State's electric distribution companies, BPU Staff and the Board Advisor.

In the event that the Auction volume is reduced to less than 100% of BGS-RSCP or BGS-CIEP Load, JCP&L will implement a Contingency Plan for the remaining tranches. Under that plan, JCP&L will purchase necessary services for the remaining tranches through PJM-administered markets. JCP&L's procurements will be made at prevailing Day-ahead JCP&L zonal spot market prices, and, unless instructed otherwise by the BPU, JCP&L will not enter into hedging transactions to attempt to mitigate the associated price or volume risks to serve these tranches.

This Contingency Plan will alert bidders that in order to secure BGS-RSCP or BGS-CIEP prices from New Jersey BGS customers for the bidders' supply, it will be necessary to bid in the auctions. Failure to bid will mean that the BGS market faced by suppliers will be a spot market with volatility and related risks.

Since the Contingency Plan calls for the purchase of BGS supply in PJM-administered markets, it is considered a strong 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 JCP&L, on behalf of its

customers, would seek to acquire seasonally differentiated-priced supplies, then the incentive to participate in the auction and the incentive for bidders to present their best offer in the auction would be diminished.

(b) Defaults prior to June 1, 2020

If a winning bidder defaults prior to the beginning of the BGS service, then, JCP&L's open tranches may be offered to the other winning bidders or these tranches may be bid out as quickly as possible, or procured in PJM-administered markets. JCP&L's procurements in PJM-administered markets will be made at prevailing Day-ahead JCP&L zonal spot market prices, and, unless instructed otherwise by the BPU, JCP&L will not enter into hedging transactions to attempt to mitigate the associated price or volume risks to serve these tranches. Additional costs incurred by JCP&L in implementing this Contingency Plan will be assessed against the defaulting supplier's credit security, to the extent available.

(c) Defaults during the Supply Period

If a default occurs during the June 1, 2020 through May 31, 2023 period, at JCP&L's option, the available tranches may be offered to other winning bidders or bid out or procured in PJM-administered markets. JCP&L's procurements in PJM-administered markets will be made at prevailing Day-ahead JCP&L zonal spot market prices, and, unless instructed otherwise by the BPU, JCP&L will not enter into hedging transactions to attempt to mitigate the associated price or volume risks to serve these tranches. Additional costs incurred by JCP&L in implementing this Contingency Plan will be assessed against the defaulting supplier's credit security, to the extent available.

II. ACCOUNTING AND COST RECOVERY

The accounting and cost recovery that JCP&L proposes for its BGS is summarized in this section. These provisions are intended to be applicable to JCP&L only. Each EDC will provide individual BGS cost recovery proposals.

A. BGS-RSCP and BGS-CIEP Reconciliation Charges (BGS-RSCPRC, BGS-CIEPRC)

JCP&L'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.

2. As previously established for JCP&L, uncollectible revenues are recovered through a component of JCP&L's Societal Benefits Charge.

3. Revenues related to the Board-approved pass-through of Transmission Charge increases (e.g., TEC) will be tracked separately and recorded using established accounting procedures.

JCP&L's BGS accounting will account for BGS-RSCP and BGS-CIEP costs individually as the sum of the following:

1. Payments made to winning BGS bidders for the provision of BGS-RSCP or BGS-CIEP service.

2. Any administrative costs associated with the provision of BGS-RSCP and BGS-CIEP service.

   a. Administrative costs are defined as commonly-incurred or directly-incurred. Commonly-incurred costs are costs shared among all of the New Jersey Electric Distribution Companies (the "EDCs"). Directly-incurred costs are costs specifically incurred by each EDC, individually.

Commonly-incurred costs include, but are not limited to, the following:

- preparing and conducting the annual auction, which includes all pre-auction development work, developing and printing materials, developing and maintaining the BGS auction website, conducting information sessions for prospective bidders, as well as other consulting services provided by the Auction Manager
- oversight of the auction process on behalf of the New Jersey Board of Public Utilities (the "Board" or "BPU"), as performed by the Board's consultant
- rent and maintenance of office space in New Jersey for the auction manager
- outside counsel legal costs associated with the prosecution and/or defense of BGS patent claims
- facility costs associated with viewing the annual auction in real time, which includes, but are not limited to, costs for physical space and equipment/media connections

Directly-incurred costs (for JCP&L) include, but are not limited to, the following:

- advertising
- court reporter fees

The commonly-incurred cost estimates for each BGS Auction cycle are paid for by the winning bidders of the auction at the start of each Energy Year through the Tranche Fee. The difference between the estimated commonly-incurred costs and the actual commonly-incurred costs and all the directly-incurred costs are paid through the BGS Reconciliation charges.

3. The cost of any procurement of necessary services, including capacity, energy, ancillary services, transmission, RPS compliance and other expenses related to the Contingency Plan, less payments, if any, recovered from defaulting suppliers or from defaulting suppliers' credit security.

4. Costs related to the Board-approved pass-through of Transmission Charge increases (e.g., TEC) will be tracked separately and recorded using established accounting procedures.

BGS-RSCP and BGS-CIEP rates will be subject to deferred accounting since there will be differences between the BGS revenue and costs (as defined above). Adjustment-type charges are necessary in order to balance out the difference between (1)(x) the amount paid to the BGS-RSCP and BGS-CIEP suppliers for BGS-RSCP and BGS-CIEP supply, (y) the total administrative costs, net of amounts received from BGS-RSCP and BGS-CIEP suppliers, and (z) the total Contingency Plan costs, net of recoveries from defaulting bidders, and (2) the total revenue received from customers for BGS-RSCP and BGS-CIEP services, respectively.

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 costs. 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, then the difference will be charged on a monthly basis to a reconciliation account to be reconciled and recovered from customers, with interest, on a quarterly 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, then the difference will be credited on a monthly basis to a reconciliation account to be reconciled and returned to customers, with interest, on a quarterly basis through the BGS-RSCPRC and/or BGS-CIEPRC.

Reconciliation Charge rates will be calculated separately each quarter, with interest, for BGS-RSCP and BGS-CIEP, on a cents/kWh basis, and the respective rates applied to all BGS-RSCP and BGS-CIEP kWh billed. Interest will be calculated monthly at the interest rate equal to the average monthly rate actually incurred on the Company's short term debt (debt maturing in less than one year), or the rate on equivalent temporary cash investments if the Company has no short-term debt outstanding. These charges may be combined with the seasonally differentiated BGS-RSCP rates and BGS-CIEP hourly charges for billing, although they will be published in separate

BGS-RSCPRC and BGS-CIEPRC tariff sheets that will be revised quarterly to reflect adjustments made based on actual costs.

Consistent with the Board-approved mechanisms for all prior BGS Post Transition Years and the related quarterly reconciliations, JCP&L will file formula-based BGS-RSCPRC and BGS-CIEPRC rates with the Board at least 30 days in advance of the effective dates. The filed rates will become final and effective 30 days after filing, absent a determination of manifest error by the Board. The quarterly reconciliation effective dates will be March 1, June 1, September 1 and December 1 of each year. For billing reasons, the June 1 effective date for reconciliation is aligned with the beginning of the BGS annual supply period (i.e., June 1, 2020). The subsequent formula-based reconciliation will continue every three months thereafter.

In connection with this filing, JCP&L is requesting the Board to make the following determinations with respect to BGS accounting and cost recovery:

1. that JCP&L's proposed accounting for BGS is approved by the Board for purposes of accounting and BGS cost recovery; and

2. that the proposed BGS Contingency Plan is approved by the Board and there will exist a presumption of reasonableness and prudence with respect to (i) the BGS Auction Plan method, (ii) the costs incurred for BGS supply under the Auction Plan, and (iii) the related Contingency Plan.

B. Accounting for the NGC Deferred Balance

The NGC Deferred Balance will be credited with net revenues from the sale of Committed Supply energy, capacity and ancillary services in the wholesale market.

The NGC Deferred Balance will be charged with all costs associated with Committed Supply, including NUGs and Yards Creek.

III. DESCRIPTION OF BGS TARIFF SHEETS AND OTHER TARIFF CHANGES

A. General

As described in the generic section of the EDCs' 2020 BGS Proposal, two different methods will be utilized for the pricing of BGS default supply service to customers – seasonally differentiated energy pricing and variable hourly energy pricing. For JCP&L, the seasonally differentiated energy pricing will be termed "Basic Generation Service – Residential Small Commercial Pricing", or BGS-RSCP, and the hourly energy pricing service will be termed "Basic Generation Service – Commercial Industrial Energy Pricing", or BGS-CIEP.

The BGS-RSCP default service is proposed to be available to residential and small and medium sized business customers, specifically those served on Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED, except as noted below. This comprises the majority of the number of customers and approximately 84% of the total load on the JCP&L electric system.

The BGS-CIEP default service will be available to the larger business customers, specifically those served on Service Classifications GP – General Service Primary and GT- General Service Transmission, and as noted below. Approximately 930 customers, excluding GS and GST customers as noted below, would thus be eligible to receive BGS-CIEP default service, which would comprise about 16% of the total load on the JCP&L electric system.

B. BGS-RSCP (Rider BGS-RSCP)

The tariff sheet for the Basic Generation Service – Residential Small Commercial Pricing (BGS-RSCP) default supply service is included in Attachment 1. The BGS-RSCP default service is proposed to be available to customers served on Service Classification RS, RT, RGT, GS, GST,

OL, SVL, MVL, ISL and LED, except for GS and GST customers with peak load shares of 500 kW or greater as of November 1, 2019, and those GS and GST customers that have opted to take BGS-CIEP default service for the 2020/2021 BGS Supply Period (June 1, 2020 through May 31, 2021) as of January 3, 2020.

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 sheet, the BGS-RSCP default service is made up of three components: BGS-RSCP Energy Charges, BGS-RSCP Transmission Charges, and the BGS-RSCP Reconciliation Charge.

(1) BGS-RSCP Energy Charges

The BGS-RSCP Energy Charges applicable to Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED, except for certain GS and GST customers as noted above, include the costs related to energy, ancillary services and generation capacity and administrative-related costs. This calculation is consistent with the current, approved methodology of recovering all electric supply service costs in the kWh charges for these rate classes.

The specific costs that will be used to calculate the BGS-RSCP Energy Charges will be calculated as the "winning bid price" for the JCP&L zone times the appropriate Ratio of BGS Unit Costs at customer to All-In Average Cost at transmission nodes, as shown on Table #C7 of the Composite Cost Allocation of the 2020 BGS Auction Cost and Bid Factor Tables, included in Attachment 2, less the applicable transmission charge. "Winning bid price" is defined as the tranche weighted

average of the winning bid prices adjusted for the seasonal payment factors. For the RS rate class, the Summer energy charges are further modified by the blocking differential found in Table #C7 of the Composite Cost Allocation of the 2020 BGS Auction Cost and Bid Factor Tables.

JCP&L will identify all GS and GST customers with loads of 500 kW or greater based on the individual customer's share of the capacity peak load as in effect as of November 1, 2019 assigned to the JCP&L Transmission Zone by the PJM Interconnection, L.L.C., adjusted for billing anomalies.

(2) BGS-RSCP Transmission Charges

BGS-RSCP Transmission Charges will be based on such applicable rate schedules on file with and approved by the Board as may be in effect from time to time.

In compliance with the BGS-RSCP Supplier Master Agreement, JCP&L will file with the BPU to change the transmission cost components of the BGS charges to customers as the Federal Energy Regulatory Commission (the "FERC") approves changes in the Network Integration Transmission Service charges for the JCP&L zone in the PJM Open Access Transmission Tariff (the "PJM OATT"), or the FERC approves other network transmission-related charges in the PJM OATT. JCP&L will review and verify the basis for any BGS transmission charge adjustment, file supporting documentation from the PJM OATT as well as any rate translation spreadsheets used.

(3) BGS-RSCP Reconciliation Charge

Implementation of the BGS-RSCP Reconciliation Charge for the BGS-RSCP default service is explained in Section III - Accounting and Cost Recovery, above.

C. BGS-CIEP (Rider BGS-CIEP)

The tariff sheet for the Basic Generation Service – Commercial Industrial Energy Pricing (BGS-CIEP) is included in Attachment 1. The BGS-CIEP default service will be the only default service for customers served on Service Classifications GP – General Service Primary and GT – General Service Transmission and for customers served on Service Classifications GS – General Service Secondary and GST – General Service Secondary Time-of-Day customers with peak load shares of 500 kW or greater as of November 1, 2019, those GS and GST customers that have opted to take BGS-CIEP default service for the 2020/2021 BGS Supply Period (June 1, 2020 through May 31, 2021) as of January 3, 2020, and those GS and GST customers that previously opted to take BGS-CIEP default service and do not notify the Company, by January 3, 2020, that they opt to return to BGS-RSCP default service for the 2020/2021 BGS Supply Period (June 1, 2020 through May 31, 2021).

All GS and GST customers (with the exception of non-metered accounts) may "opt in" to BGS-CIEP, effective June 1, 2020, provided that they notify the Company no later than January 3, 2020. The Company will post a notice on its website informing these customers that they may voluntarily opt-in to BGS-CIEP, along with a toll free number, printable enrollment form or web address to use to opt in.

All customers voluntarily requesting to be billed under BGS-CIEP will be required to pay the metering and communications costs to accommodate BGS-CIEP billing. In addition, any GS customer with special provision (d) or (e) for restricted water heating service ("Restricted Off-Peak Water Heating Service" or "Restricted Controlled Water Heating Service") who opts to take BGS-CIEP will no longer qualify for such special provisions effective June 1, 2020.

The rates for BGS-CIEP are comprised of several segments: BGS-CIEP Energy Charges, a BGS-CIEP Capacity Charge, BGS-CIEP Transmission Charges and the BGS-CIEP Reconciliation Charge.

(1) BGS-CIEP Energy Charges

The primary component of this charge will be the actual real time PJM load weighted average Residual Metered Aggregate Locational Marginal Price ("LMP") of energy for the JCP&L Transmission Zone plus the ancillary service costs (including PJM Administrative Costs). This sum will then be adjusted for losses for service at the various voltage levels to which this service is applicable (such losses will be updated to reflect actual PJM marginal loss). The ancillary service costs will be set at $0.006 per kWh for all monthly usage.

(2) BGS-CIEP Capacity Charge

This charge is designed to recover the costs associated with generation capacity for customers served under Service Classifications GP and GT, GS and GST customers that have a peak load share of 500 kW or greater as of November 1, 2019, and GS and GST customers that have opted in no later than January 3, 2020. The BGS-CIEP Capacity Charge is expressed on a per kW of generation capacity obligation at $0.xxxxx per kW-day to be applied to the customer's share of capacity peak load assigned to the JCP&L Transmission Zone by PJM, as adjusted by PJM assigned capacity related factors. The capacity charge will be determined in the BGS-CIEP Auction Process.

(3) BGS-CIEP Transmission Charges

The BGS-CIEP Transmission Charges will be based on such applicable rate schedules on file with and approved by the Board as may be in effect from time to time.

In compliance with the BGS-CIEP Supplier Master Agreement, JCP&L will file with the BPU to change the transmission cost components of the BGS charges to customers as the FERC approves changes in the Network Integration Transmission Service rates for the JCP&L zone in the PJM OATT, or the FERC approves other network transmission-related charges in the PJM OATT. JCP&L will review and verify the basis for any BGS transmission charge adjustment, file supporting documentation from the PJM OATT as well as any rate translation spreadsheets used.

(4) BGS-CIEP Reconciliation Charge

Implementation of the BGS-CIEP Reconciliation Charge for the BGS-CIEP default service is explained in Section III - Accounting and Cost Recovery, above.

D. CIEP Standby Fee (Rider CIEP - Standby Fee (formerly Rider DSSAC))

This charge (formerly the "Default Supply Service Availability Charge"), equal to $0.00015 per kWh of BGS-CIEP-Eligible Customers' usage, is intended to recover the BGS-CIEP Suppliers' costs associated with maintaining the availability of the hourly priced default electric supply service for all customers on the applicable rate classes as indicated in the Rider and, thus, this charge will be paid directly to the BGS-CIEP Suppliers by the Company.

IV. DESCRIPTION OF BGS PRICING SPREADSHEET

The charge for each BGS rate element (*i.e.* Rate RT Summer charge, Winter charge, etc.) for the BGS-RSCP service will be based on a factor times the final winning bid price. These 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 cost, as determined by the percent load weighted costs of the remaining load served from the 2018 and 2019 BGS auctions and the forecasted cost for the 2020 BGS auction. The tables included in Attachment 2 present all of the input data, intermediate calculations, and the final results in the calculation of these ratios.

A separate cost allocation is performed for each auction (2018/2019, 2019/2020 and 2020/2021, BGS Supply Periods). Except where noted, the tables are identical for each year.

Table #1 (% Usage during PJM On-Peak Period) contains the percentage of on-peak load, inputted by month, for each 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 AM to 11 PM, Monday through Friday (non-holidays). 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 are an average based on the on-peak versus total usage for the respective rate class and calendar month using 2016, 2017 and 2018 data.

Table #2 (% Usage During JCP&L On-Peak Billing Period) contains the percentage of on-peak load, forecasted for 2019, by month, for JCP&L's RT and GST rate schedule based on the definitions of time periods as contained in JCP&L's Tariff under the applicable rate schedule. RT and GST are the two rate schedules in Table #1 for which JCP&L bills energy charges differentiated by on-peak and off-peak prices.

Table #3 (Class Usage @ customer) contains the calendar month sales forecasted for the calendar year 2019. The values in Table #3 will be updated in January 2020 to better reflect the amount by

rate schedule that could be in effect starting on June 1, 2020. The GS and GST classes exclude the usage of those accounts with peak load shares of 500 kW or greater to be served under BGS-CIEP.

Table #4 (Forwards Prices – Energy Only @ bulk system) contains the forwards prices for energy, by time period and month, for the applicable Post Transition Year. For the 2018/2019 and 2019/2020 BGS Supply Periods, the initial prices that were used were adjusted by a uniform amount (see Table #17) so that the total costs match the total payments at the final bid price for the 36-month tranches from the 2018 and 2019 BGS auctions. These values consist of the published energy on-peak forwards at the time the respective year's Pricing Spreadsheet was developed, and an estimate of the unpublished costs for the off-peak periods of each month derived based on a ratio of on-peak to off-peak prices.

An adjustment of the forward prices contained in Table #4 must be made to correct for the pricing differential between the PJM West trading hub and the JCP&L zone where the BGS supply will be utilized.

Table #5 (Zone-Hub Basis Differential) contains an estimate of the average differential, 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 JCP&L zone.

The factors utilized for average system losses and unaccounted-for supply are inputted in Table #6 (Losses) by rate schedule. Loss factors (@ bulk) are those currently in effect and approved by the Board. Since the service for all of the rates indicated is at secondary voltages, the loss factors are identical for all rates. The loss factors (@ transmission node) shown on the lower portion of this Table reflected PJM marginal loss.

Table #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 MWh as measured at the customer billing meter (from Table #3), based on the forward prices (from Table #4) corrected for zone-hub differential (from Table #5), losses (from Table #6), and monthly time period weights (from Table #1). These average costs do not include the costs associated with Ancillary Services, Renewable Portfolio Standard compliance, Generation Obligation or Transmission, which will be considered in subsequent calculations.

Table #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 #7 and the total sales to customers from Table #3. Since the end result of these calculations will 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 #9 (Summary of Average BGS Energy Only Unit Costs @ Customer – JCP&L Time Periods) shows the result of the corrections for the RT and GST rates billed on a time-of-day basis. These values are calculated by starting with the revenue in Table #8. Because JCP&L bills fewer on-peak hours than the hours defined by PJM, a portion of the PJM on-peak costs had to be reallocated to the revenue to be collected at Tariff off-peak hour prices. This was accomplished by first calculating the difference between the two sets of on-peak hours by multiplying the total respective RT and GST MWh usage for each month from Table #3 by the percentages in Table #1 versus the percentages in Table #2. This difference between these two sets of on-peak MWh was then totaled by season (Summer and Winter) and multiplied by the average of the applicable

Summer or Winter on-peak and off-peak prices in Table #7. This revenue amount was added to the respective off-peak revenue amount in Table #8 and subtracted from the respective on-peak revenue amount in Table #8. The revenue amounts in Table #8 (with the respective RT and GST on-peak and off-peak revenue adjusted by the calculations noted above) were then divided by the Tariff-based MWh for the respective rate class and usage type (total, on-peak or off-peak) and season (Summer or Winter) to arrive at the unit costs in Table #9.

Table #10 sets up the calculations to establish the costs of the Generation Capacity and Transmission obligations. The top portion of Table #10 (Generation & Transmission Obligations and Costs) shows the total obligations, by rate schedule, that are currently being utilized in the year 2019, with the GS and GST obligation reduced to reflect the accounts with a peak load share of 500 kW or greater taking service under BGS-CIEP. The values in the top portion of Table #10 will be updated in January 2020 to better reflect the aggregate amount by rate schedule that could be in effect on June 1, 2020. The middle portion of this table shows the number of Summer and Winter days and months and the seasonally differentiated costs of generation capacity that were projected during the applicable BGS Supplier Period. For the 2018/2019 and 2019/2020 BGS Supply Periods, the initial prices used are adjusted by a uniform amount (see Table #17) so that the total costs match the final bid price for the 36-month tranches from the 2018 and 2019 BGS auctions. The cost of transmission service is equal to the current transmission rate under the JCP&L retail tariff approved by the BPU, excluding the pass-through of transmission rate increases (e.g., TECs) that are subject to refund. The bottom portion of this table shows the Summer BGS price block differential for the RS rate class as prescribed by the Board. The percentage usage figures are based on the amount of RS Summer billing month usage forecasted to be billed at the respective price blocks for 2019. These price block usage percentages are used

in Table #13 to lower the first block (0-600 kWh per month) and raise the second block (over 600 kWh per month) RS Summer prices on an overall revenue neutral basis.

Table #11 (Ancillary Services) For 2020/2021 BGS Supply Period, an estimate of the effects of the cost of ancillary services and the Renewable Portfolio Standard is included in the development of the final BGS rates. The values of $2.00 per MWh and $16.25 per MWh are used, respectively. Since the actual costs are a complex combination of many factors, this Board approved estimate of the overall annual average value, expressed on a dollar per MWh basis, is used as a reasonable and practical alternative. For the 2018/2019 and 2019/2020 BGS Supply Periods, the initial prices used are adjusted by a uniform amount (see Table #17) so that the total costs match the final bid price for the 36 month tranches from the 2018 and 2019 BGS auctions.

Table #12 (Summary of Obligation Costs Expressed as $/MWh @ customer) provides transmission obligations, which are JCP&L's Tariff transmission rates for the rate schedules indicated, excluding the pass-through of transmission rate increases (e.g., TEC) , and sales and use tax, and shows the result of the allocation of generation costs on a per MWh basis. The values for the generation obligations are calculated by taking the total generation capacity costs from the middle of Table #10 (Summer, Winter and annual) and allocating them by rate class based on each rate class's portion of the BGS-RSCP Total Generation Obligation (from the top of Table #10). The respective allocated capacity costs for each rate class and season are then divided by the associated MWh. The MWhs are taken from Table #3 for the All Hours costs to arrive at the Generation Obligation $/MWh in Table #12. For RT and GST, the respective MWhs from Table #3 are multiplied by the on-peak percentages from Table #2 to arrive at the On-Peak Generation Obligation $/MWh in Table #12.

Table #13 (Summary of BGS Unit Costs @ customer) is the result of the inclusion of the transmission (excluding the pass-through of transmission rate increases (e.g., TEC)), generation capacity, and Ancillary Services costs in the energy only costs shown in Table #9. Note: the Ancillary Services cost in Table #11 is corrected for losses (from Table #6). This table shows the total estimated all-in BGS costs on a dollars per MWh basis.

Table #14 (Units at Customer) is the forecasted 2019 units at customer (metered usage without losses) by rate class, season, usage block and on-peak versus off-peak as applicable.

Table #15 (Summary of Total Estimated BGS Costs by Season) provides the total cost by rate class by season, usage block and on-peak versus off-peak period, as applicable. This is based on the unit costs in Table #13 multiplied by the applicable units in Table #14.

Table #16 (Customer and Bulk System Costs) applies only to the 2018/2019 and 2019/2020 BGS Supply Periods. This table takes the total costs at customer from Table #15, summarizes the units from Table #14 by season and then calculates the Supplier Payment that would be required if 100% of the load was provided based on the final bid price and seasonal factors for the applicable auction year.

Table #17 (Adjustment Factor Calculation) applies only to the 2018/2019 and2019/2020 BGS Supply Periods. This table compares the Total Supplier Payments from Table #16 to the total Estimated BGS Costs by Season in Table #15 based upon the initial Forwards Prices in Table #4, Generation Capacity Cost in Table #10 and Ancillary Service Charges in Table #11. The resulting Summer and Winter adjustment factors are then used to derive the adjusted Forwards Prices in Table #4, Generation Capacity Cost in Table #10 and Ancillary Service Charges in Table #11. After updating the applicable formulas with these adjustment factors the Total Suppliers Payments

in Table #16 and the Total Estimated BGS Costs by Season in Table #15 should match within rounding error and the adjustment factor calculation should arrive at (or very close to) 1.

Table #18 (Bulk System Costs) applies only to the 2020/2021 BGS Supply Period. This table takes the total cost from Table #15 and divides it by the total units in Table #3 adjusted by the loss factors in Table #6 to derive the average annual cost per wholesale MWh.

Table #19 (Seasonal Payment Factors) performs a similar calculation to Table #18, but on a seasonal basis to arrive at the average Summer cost per wholesale MWh and the average Winter cost per wholesale MWh. It then compares these average seasonal costs to the average annual cost to derive the Seasonal Payment Factors for the 2020/2021 BGS Supply Period. Since the normal calculation would produce the atypical result of a Summer Seasonal Payment Factor that is lower than the Winter Seasonal Payment Factor for the 2020/2021 BGS Supply Period, a factor of 1.0 will be used for both the Summer and Winter Seasonal Payment Factors.

The Composite Cost Allocation uses the Total Estimated BGS Costs by Season from Table #15 for each of the BGS Supplier Periods to derive the tranche weighted average cost for June 1, 2020 through May 31, 2021 for each rate class, by season, usage block and on-peak versus off-peak as applicable.

Tables #C1, #C2 and #C3 are the costs for the three bid years along with the number of tranches that will be served from each respective bid year for the period June 1, 2020 through May 31, 2021.

Table #C4 (Composite Percent Load Weighted Costs) is the cost for each of the bid years multiplied by the respective number of tranches to be served in each bid year divided by the total number of tranches.

Table #C5 (Units @ Customer) This is the forecasted 2019 units at customer (metered usage without losses) by rate class, season, usage block and on-peak versus off-peak, as applicable.

Table #C6 (Summary of BGS Unit Costs @ customer) is the average cost per MWh for each rate class, season, usage block and on-peak versus off-peak (as applicable), based on the Composite Costs in Table #C4 divided by the units at customer in Table #C5 with a migration adjustment. The second part of Table #C6 takes the total Composite Cost from Table #C4 and divides it by the total wholesale MWh (2020/2021 BGS Supply Period, Table #3 adjusted by the loss factors in 2020/2021 BGS Supply Period, Table #6) to arrive at the All-In Average Costs at bulk system and the All-In Average Costs at transmission nodes.

Table #C7 (Ratio of BGS Unit Costs @ customer to All-In Average Cost @ transmission nodes) indicates the ratio of the individual rate element costs to the overall all-in cost as measured at the transmission nodes, both from Table #C6. These ratios are to be used to go from the bid price to the rate class-specific retail BGS rates effective June 1, 2020 through May 31, 2021. For all but the RS service classification, the rate class specific energy, capacity and ancillary services rate will be the bid price times the ratio in Table #C7, less the transmission price from 2020/2021 BGS Supply Period, Table #12, the result of which is increased for sales and use tax. Customers will continue to be billed the current Tariff transmission rates. For the RS service classification, Table #C7 also provides constants (excluding sales and use taxes) to be applied to all RS Summer first and second block units (after applying the ratio in Table #C7) to achieve the prescribed first versus

second block differential (per the bottom of Table #10) while maintaining the same overall revenue. Other than adjusting the price by this constant, all rates for the RS service classification are calculated as indicated above.

V. CONCLUSION

JCP&L hereby submits its Company Specific Addendum to the Board and asks that the Board issue an Order specifically approving, as reasonable and prudent, the Company's proposals for (1) use of its Committed Supply; (2) a Contingency Plan; (3) Tariff sheets for Riders BGS-RSCP, BGS-CIEP, and CIEP - Standby Fee; and (4) BGS pricing.

JERSEY CENTRAL POWER & LIGHT COMPANY

XX Rev. Sheet No. 35

BPU No. 12 ELECTRIC - PART III

Superseding XX Rev. Sheet No. 35

Rider BGS-RSCP
Basic Generation Service – Residential Small Commercial Pricing
(Applicable to Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED)

Effective June 1, 2015, Rider BGS-FP (Basic Generation Service – Fixed Pricing) is renamed Rider BGS-RSCP to comply with the BPU Order dated November 24, 2014 (Docket No. ER14040370).

AVAILABILITY: Rider BGS-RSCP is available to and provides Basic Generation Service (default service) charges applicable to all KWH usage for Full Service Customers taking service at secondary voltages under Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED, except for GS and GST customers that have a peak load share of 500 KW or greater as of November 1, 2019. Rider BGS-RSCP-eligible GS and GST customers may elect to take default service under Rider BGS-CIEP no later than the second business day in January of each year. Such election will be effective June 1 of that year and Rider BGS-CIEP will remain the customer's default service for the entire 12-month period from June 1 through May 31 of the following year. BGS-RSCP-eligible customers who have elected to take default service under BGS-CIEP may return to BGS-RSCP by notifying the Company no later than the second business day in January of each year. Such notification to return to BGS-RSCP will become effective June 1 of that year.

RATE PER BILLING MONTH: (For service rendered effective June 1, 2020 through May 31, 2021)
1) BGS Energy Charge per KWH: (All charges include Sales and Use Tax as provided in Rider SUT.)

Service Classification	June through September	October through May
RS - first 600 KWH	**$x.xxxxxx**	
- all KWH over 600	**$x.xxxxxx**	
- all KWH		**$x.xxxxxx**
(Excludes off-peak and controlled water heating special provisions)		
RT - all on-peak KWH	**$x.xxxxxx**	**$x.xxxxxx**
- all off-peak KWH	**$x.xxxxxx**	**$x.xxxxxx**
RGT - all on-peak KWH	**$x.xxxxxx**	
- all off-peak KWH	**$x.xxxxxx**	
- all KWH		**$x.xxxxxx**
RS and GS Water Heating – all KWH	**$x.xxxxxx**	**$x.xxxxxx**
(For separately metered off-peak and controlled water heating usage under applicable special provisions)		
GS - all KWH	**$x.xxxxxx**	**$x.xxxxxx**
(Excludes off-peak and controlled water heating special provisions)		
GST - all on-peak KWH	**$x.xxxxxx**	**$x.xxxxxx**
- all off-peak KWH	**$x.xxxxxx**	**$x.xxxxxx**
OL, SVL, MVL, ISL, LED - all KWH	**$x.xxxxxx**	**$x.xxxxxx**

BGS Energy Charges above reflect costs for energy, generation capacity, ancillary services and related cost.

Issued: **Effective: June 1, 2020**

Filed pursuant to Order of Board of Public Utilities
Docket No. dated

Issued by James V. Fakult, President
300 Madison Avenue, Morristown, NJ 07962-1911

Rider BGS-RSCP
Basic Generation Service – Residential Small Commercial Pricing
(Applicable to Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED)

2) BGS Transmission Charge per KWH: As provided in the respective tariff for Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED. Effective September 1, 2017, a RMR (BL England) surcharge of **$0.000131** per KWH (includes Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage. Effective January 1, 2018, a RMR (Yorktown) surcharge of **$0.000011** per kWh (includes Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage.

Effective **December 1, 2018**, the following TEC surcharges (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage, except lighting under Service Classifications OL, SVL, MVL, ISL and LED:

TRAILCO-TEC surcharge of **$0.000211** per KWH
Delmarva-TEC surcharge of **$0.000001** per KWH
ACE-TEC surcharge of **$0.000097** per KWH
PEPCO-TEC surcharge of **$0.000014** per KWH
PPL-TEC surcharge of **$0.000808** per KWH
BG&E-TEC surcharge of **$0.000016** per KWH
PECO-TEC surcharge of **$0.000064** per KWH

Effective **February 1, 2019**, the following TEC surcharges (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage, except lighting under Service Classifications OL, SVL, MVL, ISL and LED:

VEPCO-TEC surcharge of **$0.000186** per KWH
PATH-TEC surcharge of **$0.000016** per KWH
AEP-East-TEC surcharge of **$0.000082** per KWH
MAIT-TEC surcharge of **$0.000069** per KWH

Effective **April 1, 2019**, the following TEC surcharge (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage, except lighting under Service Classifications OL, SVL, MVL, ISL and LED:

PSEG-TEC surcharge of **$0.002074** per KWH

Effective **July 1, 2019**, the following TEC surcharge (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage, except lighting under Service Classifications OL, SVL, MVL, ISL and LED:

EL05-121-TEC surcharge of **$0.000514** per KWH

3) BGS Reconciliation Charge per KWH: $x.xxxxxx (includes Sales and Use Tax as provided in Rider SUT)

The above BGS Reconciliation Charge recovers the difference between the payments to BGS suppliers and the revenues from BGS customers for Basic Generation Service and is subject to quarterly true-ups.

Rider BGS-CIEP
Basic Generation Service – Commercial Industrial Energy Pricing
(Applicable to Service Classifications GP and GT and Certain Customers under Service Classifications GS and GST)

AVAILABILITY: Rider BGS-CIEP is available to and provides Basic Generation Service (default service) charges applicable to all Full Service Customers taking service at primary and transmission voltages under Service Classifications GP and GT and any Full Service Customers taking service at secondary voltages under Service Classifications GS and GST that have a peak load share of 500 KW or greater as of November 1, 2019, or that have elected to take BGS-CIEP service no later than the second business day in January of each year. All BGS-CIEP customers remain subject to this Rider for the entire 12-month period from June 1 of any given year through May 31 of the following year.

RATE PER BILLING MONTH:
(For service rendered effective June 1, 2020 through May 31, 2021)

1) BGS Energy Charge per KWH: The sum of actual real-time PJM load weighted average Residual Metered Load Aggregate Locational Marginal Price for JCP&L Transmission Zone and ancillary services of **$0.00600** per KWH, times the Losses Multiplier provided below, times 1.06625 multiplier for Sales and Use Tax as provided in Rider SUT.

Losses Multiplier:	GT – High Tension Service	1.005
	GT	1.027
	GP	1.047
	GST	1.103
	GS	1.103

2) BGS Capacity Charge per KW of Generation Obligation: $x.xxxxx per KW-day times BGS-CIEP customer's share of the capacity peak load assigned to the JCP&L Transmission Zone by the PJM Interconnection, L.L.C., as adjusted by PJM assigned capacity related factors, times 1.06625 multiplier for Sales and Use Tax as provided in Rider SUT.

3) BGS Transmission Charge per KWH: As provided in the respective tariff for Service Classifications GS, GST, GP and GT. Effective September 1, 2017, a RMR (BL England) surcharge will be added to the BGS Transmission Charge applicable to all KWH usage, as follows (includes Sales and Use Tax as provided in Rider SUT):

GT – High Tension Service	**$0.000119**
GT	**$0.000122**
GP	**$0.000124**
GS and GST	**$0.000131**

Effective January 1, 2018, a RMR (Yorktown) surcharge will be added to the BGS Transmission Charge applicable to all KWH usage, as follows (includes Sales and Use Tax as provided in Rider SUT):

GT – High Tension Service	**$0.000010**
GT	**$0.000010**
GP	**$0.000011**
GS and GST	**$0.000011**

Rider BGS-CIEP
Basic Generation Service – Commercial Industrial Energy Pricing
(Applicable to Service Classifications GP and GT and Certain Customers under Service Classifications GS and GST)

3) BGS Transmission Charge per KWH: (Continued)

Effective **December 1, 2018**, the following TEC surcharges (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage:

	TRAILCO-TEC	Delmarva-TEC	ACE-TEC
GS and GST	**$0.000211**	**$0.000001**	**$0.000097**
GP	**$0.000141**	**$0.000000**	**$0.000065**
GT	**$0.000128**	**$0.000000**	**$0.000059**
GT – High Tension Service	**$0.000032**	**$0.000000**	**$0.000015**
	PEPCO-TEC	PPL-TEC	BG&E-TEC
GS and GST	**$0.000014**	**$0.000808**	**$0.000016**
GP	**$0.000010**	**$0.000540**	**$0.000011**
GT	**$0.000009**	**$0.000492**	**$0.000010**
GT – High Tension Service	**$0.000002**	**$0.000122**	**$0.000002**
	PECO-TEC		
GS and GST	**$0.000064**		
GP	**$0.000043**		
GT	**$0.000039**		
GT – High Tension Service	**$0.000010**		

Effective **February 1, 2019**, the following TEC surcharges (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage:

	VEPCO-TEC	PATH-TEC
GS and GST	**$0.000186**	**$0.000016**
GP	**$0.000123**	**$0.000011**
GT	**$0.000113**	**$0.000010**
GT – High Tension Service	**$0.000028**	**$0.000002**
	AEP-East-TEC	MAIT-TEC
GS and GST	**$0.000082**	**$0.000069**
GP	**$0.000054**	**$0.000046**
GT	**$0.000050**	**$0.000043**
GT – High Tension Service	**$0.000012**	**$0.000011**

Effective **April 1, 2019**, the following TEC surcharge (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage:

	PSEG-TEC
GS and GST	**$0.002074**
GP	**$0.001367**
GT	**$0.001261**
GT – High Tension Service	**$0.000305**

Effective **July 1, 2019**, the following TEC surcharge (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage:

	EL05-121-TEC
GS and GST	**$0.000514**
GP	**$0.000351**
GT	**$0.000307**
GT – High Tension Service	**$0.000074**

4) BGS Reconciliation Charge per KWH: $x.xxxxxx (includes Sales and Use Tax as provided in Rider SUT)

The above BGS Reconciliation Charge recovers the difference between the payments to BGS suppliers and the revenues from BGS customers for Basic Generation Service and is subject to quarterly true-ups.

Rider CIEP – Standby Fee
Commercial Industrial Energy Pricing Standby Fee
(Applicable to Service Classifications GP and GT and Certain Customers under Service Classifications GS and GST)

Effective June 1, 2007, Rider DSSAC (Default Supply Service Availability Charge) is renamed Rider CIEP – Standby Fee to comply with the BPU Order dated December 22, 2006 (Docket No. EO06020119).

APPLICABILITY: Rider CIEP – Standby Fee provides a charge applicable to all KWH usage of all Full Service Customers or Delivery Service Customers taking service under Service Classifications GP and GT and any Full Service Customer or Delivery Service Customer taking service under Service Classifications GS and GST that has a peak load share of 500 KW or greater as of November 1, 2019, or that has elected to take Basic Generation Service-Commercial Industrial Energy Pricing under Rider-CIEP no later than the second business day in January of each year. This charge is applicable for service rendered from June 1, 2020 through May 31, 2021 to recover costs associated with administrating and maintaining the availability of the hourly-priced default Basic Generation Service for these customers.

CIEP – Standby Fee per KWH: $0.000150

(**$0.000160** including Sales and Use Tax as provided in Rider SUT)

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2020 BGS Auction Cost and Bid Factor Tables

2018/2019 BGS Supply Period Estimated Supplier Payments Allocated by Rate Class

Development of Post Transition Period BGS Cost and Bid Factors
Adjusted to Billing Time Periods

Table #1 **% Usage During PJM On-Peak Period**

Based on an average of 2016 through 2018 Load Profile Information
On-Peak periods defined as the 16 hr PJM Trading period, adj for NERC holidays

(data rounded to nearest .01 %)	*Profile Meter Data* **RT{1}**	*Profile Meter Data* **RS{2}**	*Profile Meter Data* **GS{3}**	*Profile Meter Data* **GST**	*Other Analysis* **OL/SL**
January	45.93%	48.40%	54.94%	53.14%	31.53%
February	48.21%	50.91%	57.88%	55.94%	31.19%
March	48.88%	52.03%	60.47%	56.80%	30.64%
April	47.03%	49.04%	56.18%	55.27%	27.76%
May	49.17%	51.10%	59.71%	57.36%	27.67%
June	52.88%	53.39%	59.54%	58.61%	27.60%
July	49.94%	49.97%	55.55%	54.24%	24.85%
August	55.33%	55.20%	60.95%	59.51%	29.19%
September	46.78%	47.35%	57.03%	55.55%	27.85%
October	49.09%	50.98%	59.24%	57.28%	31.59%
November	46.44%	49.85%	58.25%	55.38%	32.81%
December	44.78%	46.92%	53.89%	51.61%	31.23%

Table #2 **% Usage During JCP&L On-Peak Billing Period**

On-Peak periods as defined in specified rate schedule

(data rounded to nearest .01 %)	*2019 Forecasted Calendar Month Sales* **RT{1}**	*N/A* **RS{2}**	*N/A* **GS{3}**	*2019 Forecasted Calendar Month Sales* **GST**	*N/A* **OL/SL**
January	35.58%	----	----	42.59%	----
February	34.83%	----	----	43.05%	----
March	34.04%	----	----	42.89%	----
April	34.40%	----	----	43.94%	----
May	36.75%	----	----	45.47%	----
June	39.77%	----	----	46.23%	----
July	41.33%	----	----	46.88%	----
August	41.42%	----	----	46.61%	----
September	40.15%	----	----	46.11%	----
October	36.90%	----	----	46.48%	----
November	35.20%	----	----	45.31%	----
December	35.48%	----	----	43.33%	----

{1} For BGS purposes the RT rate class includes the RS and GS rate class Off-Peak (OPWH) and Controlled Water Heating (CTWH) provisions. The RT rate class also includes the summer billing month RGT rate class usage. OPWH and CTWH is billed on the average RT rates, while RT and Summer RGT use is billed at on-peak and off-peak rates.
{2} For BGS purposes the RS rate class excludes the Off-Peak and Controlled Water Heating provisions and includes the winter billing month RGT rate class usage
{3} For BGS purposes the GS rate class excludes the Off-Peak and Controlled Water Heating provisions

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Table #3

Class Usage @ customer
calendar month sales forecasted for 2019
in MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
January	23,565	756,063	518,162	12,162	9,590	1,319,542
February	25,830	767,678	518,422	14,327	9,590	1,335,847
March	23,751	700,839	510,718	14,335	9,590	1,259,233
April	20,338	647,385	464,644	11,761	9,590	1,153,718
May	15,219	593,952	439,233	7,562	9,590	1,065,556
June	15,454	700,169	487,689	9,518	9,590	1,222,420
July	18,683	959,624	533,658	7,049	9,590	1,528,604
August	21,050	1,116,559	567,778	9,874	9,590	1,724,851
September	17,549	903,630	523,409	5,595	9,590	1,459,773
October	12,792	635,700	453,116	7,365	9,590	1,118,563
November	15,006	614,269	452,674	9,447	9,590	1,100,986
December	19,324	694,324	482,386	9,927	9,590	1,215,551
Total	228,561	9,090,192	5,951,889	118,922	115,080	15,504,644

Table #4

Forwards Prices - Energy Only @ bulk system
in $/MWh

	Initial On-Peak	Adjusted On-Peak	Initial Off-Peak	Adjusted Off-Peak
January	48.230	51.206	36.146	38.376
February	46.020	48.859	34.490	36.618
March	36.970	39.251	27.707	29.416
April	32.630	34.643	24.455	25.964
May	32.000	33.974	23.983	25.463
June	34.360	47.878	22.251	31.005
July	38.950	54.274	25.224	35.147
August	36.000	50.163	23.313	32.485
September	34.440	47.989	22.303	31.077
October	32.420	34.420	24.297	25.796
November	32.430	34.431	24.305	25.804
December	36.580	38.837	27.415	29.106

Table #5

Zone-Hub Basis Differential
Based on 3 Year Average

	On-Peak	Off-Peak
	95%	94%
	95%	94%
	95%	94%
	95%	94%
	95%	94%
	92%	86%
	92%	86%
	92%	86%
	92%	86%
	95%	94%
	95%	94%
	95%	94%

Table #6

Losses

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Loss Factors =	10.5545%	10.5545%	10.5545%	10.5545%	10.5545%
Expansion Factor =	1.11800	1.11800	1.11800	1.11800	1.11800
Loss Factors from Transmission Nodes =	9.9325%	9.9325%	9.9325%	9.9325%	9.9325%
Expansion Factor to Transmission Nodes =	1.11028	1.11028	1.11028	1.11028	1.11028

{4} The GS and GST units exclude the units associated with the 500 kW and above PLS accounts that will be required to take service under BGS-CIEP

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Table #7

Summary of Average BGS Energy Only Unit Costs @ customer - PJM Time Periods
based on Forwards prices corrected for zone-hub differential and losses - PJM time periods
in $/MWh

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		$ 41.726	$ 41.814	$ 43.080	$ 42.786	$ 36.668
	PJM on pk	$ 51.762	$ 51.812	$ 51.632	$ 51.499	$ 51.509
	PJM off pk	$ 31.129	$ 31.170	$ 31.127	$ 31.050	$ 31.074
Winter - all hrs		$ 37.239	$ 36.928	$ 37.610	$ 37.941	$ 34.371
	PJM on pk	$ 43.027	$ 42.362	$ 42.089	$ 42.805	$ 41.962
	PJM off pk	$ 32.027	$ 31.521	$ 31.480	$ 31.928	$ 31.031
Annual		$ 38.667	$ 38.906	$ 39.551	$ 39.246	$ 35.137

System Total $ 39.12

Table #8

Summary of Average BGS Energy Only Costs @ customer - PJM Time Periods
based on Forwards prices corrected for zone-hub differential and losses
in $1000

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer - all hrs		$ 3,035	$ 153,875	$ 91,007	$ 1,371	$ 1,407	$ 250,695
	PJM on pk	$ 1,934	$ 98,317	$ 63,579	$ 947	$ 541	$ 165,317
	PJM off pk	$ 1,101	$ 55,558	$ 27,428	$ 424	$ 866	$ 85,377
Winter - all hrs		$ 5,803	$ 199,790	$ 144,396	$ 3,297	$ 2,637	$ 355,922
	PJM on pk	$ 3,177	$ 114,312	$ 93,363	$ 2,056	$ 984	$ 213,891
	PJM off pk	$ 2,626	$ 85,478	$ 51,034	$ 1,241	$ 1,653	$ 142,031
Annual		$ 8,838	$ 353,665	$ 235,404	$ 4,667	$ 4,044	$ 606,617

System Total $ 606,617

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Table #9 **Summary of Average BGS Energy Only Unit Costs @ customer - JCP&L Time Periods**
based on Forwards prices corrected for zone-hub differential and losses - JCP&L billing time periods
in $/MWh

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		$ 41.726	$ 41.814	$ 43.080	$ 42.786	$ 36.668
	JCP&L On pk	$ 54.453			$ 53.902	
	JCP&L Off pk	$ 32.976			$ 33.137	
Winter - all hrs		$ 37.239	$ 36.928	$ 37.610	$ 37.941	$ 34.371
	JCP&L On pk	$ 43.567			$ 44.222	
	JCP&L Off pk	$ 33.795			$ 33.035	
Annual Average		$ 38.667	$ 38.906	$ 39.551	$ 39.246	$ 35.137
System Average	$ 39.12					

Table #10 **Generation & Transmission Obligations and Costs and Other Adjustments**
obligations - annual average forecasted for 2019; costs are market estimates

in MW	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	BGS-RSCP TOTAL
Gen Obl - MW	82.1	2,616.1	1,747.8	43.1	0.0	4,489.1

Trans Obl - MW — Not applicable for JCP&L - Transmission rates are based on Retail Tariff rates for the respective rate classes

# 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 charges will be based on Retail Tariff rates for the applicable rate schedules

		Initial	Adjusted			
Generation Capacity cost	Summer	$ 218.96	232.466	$/MW/day	Summer Total	$ 127,315,552
	Winter	$ 218.96	232.466	$/MW/day	Winter Total	$ 253,587,533
					Annual Total	$ 380,903,085

Residential summer BGS + Transmission charge differential
per BPU and summer blocking percentages

	Rate Charges	% usage
Block 1 (0-600 kWh/m)		53.68%
Block 2 (>600 kWh/m)		46.32%
Differential (Excl. SUT)	0.8652 ¢/kWh	

Table #11 **Ancillary Services**

	Initial	Adjusted
Forecasted Ancillary Services Cost	$2.00	
Renewable Portfolio Standard Cost	$6.96	
forecasted overall annual average	$8.96	9.513 $/MWh

Table #12 **Summary of Obligation Costs Expressed as $/MWh @ customer**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Transmission Obl - all months	$ 7.465	$ 7.465	$ 7.465	$ 7.465	$ -
Generation Obl $/MWh - all months	$ 30.467	$ 24.419	$ 24.917	$ 30.752	$ 0.015
Generation Obl $/MWh - Summer - All Hours	$ 32.000	$ 20.162	$ 23.465		$ 0.015
Generation Obl $/MWh - Summer - On-Peak Hours	$ 78.548			$ 82.109	
Generation Obl $/MWh - Winter - All Hours	$ 29.752	$ 27.315	$ 25.716		$ 0.015
Generation Obl $/MWh - Winter - On-Peak Hours	$ 84.425			$ 63.891	

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Table #13 **Summary of BGS Unit Costs @ customer**

NON-DEMAND RATES

includes energy, Generation and Transmission obligations, and Ancillary Services - adjusted to billing time periods in $/MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	$ 91.83	$ 80.08	$ 84.64		$ 47.32
JCP&L On pk	$ 151.10			$ 154.11	
JCP&L Off pk	$ 51.08			$ 51.24	
Block 1 (0-600 kWh/m)		$ 76.07			
Block 2 (>600 kWh/m)		$ 84.72			
Winter - all hrs	$ 85.09	$ 82.34	$ 81.43		$ 45.02
JCP&L On pk	$ 146.09			$ 126.21	
JCP&L Off pk	$ 51.90			$ 51.14	
Annual -all hrs	$ 87.23	$ 81.43	$ 82.57	$ 88.10	$ 45.79

DEMAND RATES

includes energy and Ancillary Services, G&T obligations charged separately - adjusted to billing time periods in $/MWh

JCP&L does not have a demand component in its BGS charges

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Table #14 **Units @ Customer**

in kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	2,120,584		2,112,534,000		38,360,000	
JCP&L On pk	28,770,185			14,886,869		
JCP&L Off pk	41,845,231			17,149,132		
Block 1 (0-600 kWh/m)		1,975,322,000				
Block 2 (>600 kWh/m)		1,704,660,000				
Winter - all hrs	4,333,889	5,410,210,000	3,839,355,000		76,720,000	
JCP&L On pk	53,380,472			38,107,132		
JCP&L Off pk	98,110,639			48,778,868		
						Total
Summer Total	72,736,000	3,679,982,000	2,112,534,000	32,036,000	38,360,000	5,935,648,000
Winter Total	155,825,000	5,410,210,000	3839355000	86886000	76720000	9,568,996,000
Annual Total	228,561,000	9,090,192,000	5,951,889,000	118,922,000	115,080,000	15,504,644,000

Table #15 **Summary of Total Estimated BGS Costs by Season**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Total Costs by Rate - in $1000						
Summer - all hrs	$ 195		$ 178,815		$ 1,815	
JCP&L On pk	$ 4,347			$ 2,294		
JCP&L Off pk	$ 2,137			$ 879		
Block 1 (0-600 kWh/m)		$ 150,260				
Block 2 (>600 kWh/m)		$ 144,420				
Winter - all hrs	$ 369	$ 445,499	$ 312,625		$ 3,454	
JCP&L On pk	$ 7,798			$ 4,810		
JCP&L Off pk	$ 5,092			$ 2,494		
Total Costs - in $1000						
Summer	$ 6,679	$ 294,680	$ 178,815	$ 3,173	$ 1,815	$ 485,162
Winter	$ 13,259	$ 445,499	$ 312,625	$ 7,304	$ 3,454	$ 782,140
Total	$ 19,938	$ 740,179	$ 491,440	$ 10,477	$ 5,269	$ 1,267,303
% of Annual Total $						
Summer	34%	40%	36%	30%	34%	38%
Winter	66%	60%	64%	70%	66%	62%

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Table #16 **Customer & Bulk System Costs**

Customer Costs Per Allocation Matrix
Grand Total Cost in $1000 = $ 1,267,303

Seasonal Units	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer	81,319	4,114,217	2,361,811	35,816	42,886	6,636,049
Winter	174,212	6,048,611	4,292,396	97,138	85,773	10,698,130

Supplier Payment in $1000	Seasonal	Price per MWH		
Post Transition Year 16 Bid price	Factor	73.110	Units	Payment
Seasonally Adjusted Summer Payment	1.0000	73.110	6,636,049	$ 485,162
Seasonally Adjusted Winter Payment	1.0000	73.110	10,698,130	$ 782,140
Total Supplier Payment				$ 1,267,302

Table #17 **Adjustment Factor Calculation**

Allocated Customer Costs on a per MWh basis (on bulk system MWhs):			Seasonal Supplier Payment	Adjustment Factor Calculation	Adjustment Factor
Summer	$ 73.11	per MWh @ bulk system	73.11	1.0000	1.393415
Winter	$ 73.11	per MWh @ bulk system	73.11	1.0000	1.061695

Assumptions:

Generation Capacity Cost =	$ 232.47 per MW day Summer
	$ 232.47 per MW day Winter
Transmission cost =	Transmission charges will be based on Retail Tariff rates for the applicable rate schedules
Analysis time period =	4 summer months
	8 winter months
Ancillary Services =	$ 9.51 per MWh
Energy Costs =	Based on Forwards prices @ PJM West corrected for hub-zone basis differential (both based on the figures used to derive the Bid Factors and establish retail rates in Post Transition Year 16 and adjusted to match the total cost at the actual supplier bid price.
Usage patterns =	forecasted 2019 energy use by class based upon PJM on/off % from 2016 through 2018 class load profiles JCP&L billing on/off % from 2019 forecasted billing determinants
Obligations =	class totals for 2019 excluding accounts required to take service under BGS-CIEP as of June 1, 2020
Losses =	Consistent with Losses as approved by the BPU
PJM Time Periods =	PJM trading time periods - 7 AM to 11 PM weekdays, local time, excluding NERC holidays - New Year's, Memorial, 4th of July, Labor Day, Thanksgiving & Christmas
JCP&L Billing time periods =	RT On-peak hours are 8 am to 8 pm Eastern Standard Time, Monday through Friday. GST On-peak hours are 8 am to 8 pm prevailing time, Monday through Friday. The Holidays identified by PJM are not excluded from the RT or GST Billing On-Peak kWh.
NJ Sales and Use Tax (SUT) =	SUT excluded from all costs

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2020 BGS Auction Cost and Bid Factor Tables

2019/2020 BGS Supply Period Estimated Supplier Payments Allocated by Rate Class

Development of Post Transition Period BGS Cost and Bid Factors
Adjusted to Billing Time Periods

Based on an average of 2016 through 2018 Load Profile Information

Table #1 **% Usage During PJM On-Peak Period** *On-Peak periods defined as the 16 hr PJM Trading period, adj for NERC holidays*

(data rounded to nearest .01 %)	*Profile Meter Data* **RT{1}**	*Profile Meter Data* **RS{2}**	*Profile Meter Data* **GS{3}**	*Profile Meter Data* **GST**	*Other Analysis* **OL/SL**
January	45.93%	48.40%	54.94%	53.14%	31.53%
February	48.21%	50.91%	57.88%	55.94%	31.19%
March	48.88%	52.03%	60.47%	56.80%	30.64%
April	47.03%	49.04%	58.18%	55.27%	27.76%
May	49.17%	51.10%	59.71%	57.36%	27.67%
June	52.88%	53.39%	59.54%	58.61%	27.60%
July	49.94%	49.97%	55.55%	54.24%	24.85%
August	55.33%	55.20%	60.95%	59.51%	29.19%
September	46.78%	47.35%	57.03%	55.55%	27.85%
October	49.09%	50.98%	59.24%	57.28%	31.59%
November	46.44%	49.85%	58.25%	55.38%	32.81%
December	44.78%	46.92%	53.89%	51.61%	31.23%

Table #2 **% Usage During JCP&L On-Peak Billing Period** *On-Peak periods as defined in specified rate schedule*

(data rounded to nearest .01 %)	*2019 Forecasted Calendar Month Sales* **RT{1}**	*N/A* **RS{2}**	*N/A* **GS{3}**	*2019 Forecasted Calendar Month Sales* **GST**	*N/A* **OL/SL**
January	35.58%	----	----	42.59%	----
February	34.83%	----	----	43.05%	----
March	34.04%	----	----	42.89%	----
April	34.40%	----	----	43.94%	----
May	36.75%	----	----	45.47%	----
June	39.77%	----	----	46.23%	----
July	41.33%	----	----	46.88%	----
August	41.42%	----	----	46.61%	----
September	40.15%	----	----	46.11%	----
October	36.90%	----	----	46.48%	----
November	35.20%	----	----	45.31%	----
December	35.48%	----	----	43.33%	----

{1} For BGS purposes the RT rate class includes the RS and GS rate class Off-Peak (OPWH) and Controlled Water Heating (CTWH) provisions. The RT rate class also includes the summer billing month RGT rate class usage. OPWH and CTWH is billed on the average RT rates, while RT and Summer RGT use is billed at on-peak and off-peak rates.
{2} For BGS purposes the RS rate class excludes the Off-Peak and Controlled Water Heating provisions and includes the winter billing month RGT rate class usage
{3} For BGS purposes the GS rate class excludes the Off-Peak and Controlled Water Heating provisions

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Table #3 **Class Usage @ customer**
calendar month sales forecasted for 2019
in MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
January	23,565	756,063	518,162	12,162	9,590	1,319,542
February	25,830	767,678	518,422	14,327	9,590	1,335,847
March	23,751	700,839	510,718	14,335	9,590	1,259,233
April	20,338	647,385	464,644	11,761	9,590	1,153,718
May	15,219	593,952	439,233	7,562	9,590	1,065,556
June	15,454	700,169	487,689	9,518	9,590	1,222,420
July	18,683	959,624	533,658	7,049	9,590	1,528,604
August	21,050	1,116,559	567,778	9,874	9,590	1,724,851
September	17,549	903,630	523,409	5,595	9,590	1,459,773
October	12,792	635,700	453,116	7,365	9,590	1,118,563
November	15,006	614,269	452,674	9,447	9,590	1,100,986
December	19,324	694,324	482,386	9,927	9,590	1,215,551
Total	228,561	9,090,192	5,951,889	118,922	115,080	15,504,644

Table #4 **Forwards Prices - Energy Only @ bulk system**
in $/MWh

	Initial On-Peak	Adjusted On-Peak	Initial Off-Peak	Adjusted Off-Peak
January	53.62	61.070	41.783	47.589
February	50.88	57.950	39.648	45.157
March	40.38	45.991	31.466	35.838
April	35.29	40.193	27.499	31.320
May	35.19	40.080	27.421	31.231
June	35.76	49.580	23.273	32.267
July	40.45	56.083	26.326	36.500
August	37.70	52.270	24.536	34.018
September	36.58	50.717	23.807	33.008
October	34.38	39.157	26.790	30.512
November	34.45	39.237	26.845	30.575
December	38.00	43.280	29.611	33.725

Table #5 **Zone-Hub Basis Differential Based on 3 Year Average**

	On-Peak	Off-Peak
	90%	92%
	90%	92%
	90%	92%
	90%	92%
	90%	92%
	94%	88%
	94%	88%
	94%	88%
	94%	88%
	90%	92%
	90%	92%
	90%	92%

Table #6 **Losses**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Loss Factors =	10.5545%	10.5545%	10.5545%	10.5545%	10.5545%
Expansion Factor =	1.11800	1.11800	1.11800	1.11800	1.11800
Loss Factors from Transmission Nodes =	9.8737%	9.8737%	9.8737%	9.8737%	9.8737%
Expansion Factor to Transmission Nodes =	1.10955	1.10955	1.10955	1.10955	1.10955

{4} The GS and GST units exclude the units associated with the 500 kW and above PLS accounts that will be required to take service under BGS-CIEP

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Table #7

Summary of Average BGS Energy Only Unit Costs @ customer - PJM Time Periods
based on Forwards prices corrected for zone-hub differential and losses - PJM time periods
in $/MWh

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		$ 44.452	$ 44.551	$ 45.847	$ 45.490	$ 39.244
	PJM on pk	$ 54.770	$ 54.833	$ 54.649	$ 54.447	$ 54.528
	PJM off pk	$ 33.557	$ 33.605	$ 33.546	$ 33.427	$ 33.484
Winter - all hrs		$ 42.426	$ 41.914	$ 42.456	$ 42.984	$ 39.514
	PJM on pk	$ 47.487	$ 46.658	$ 46.342	$ 47.226	$ 46.149
	PJM off pk	$ 37.869	$ 37.193	$ 37.140	$ 37.741	$ 36.595
Annual		$ 43.071	$ 42.982	$ 43.660	$ 43.660	$ 39.424

System Total $ 43.22

Table #8

Summary of Average BGS Energy Only Costs @ customer - PJM Time Periods
based on Forwards prices corrected for zone-hub differential and losses
in $1000

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer - all hrs		$ 3,233	$ 163,949	$ 96,853	$ 1,457	$ 1,505	$ 266,997
	PJM on pk	$ 2,046	$ 104,049	$ 67,293	$ 1,001	$ 573	$ 174,962
	PJM off pk	$ 1,187	$ 59,899	$ 29,559	$ 456	$ 933	$ 92,035
Winter - all hrs		$ 6,611	$ 226,765	$ 163,005	$ 3,735	$ 3,031	$ 403,147
	PJM on pk	$ 3,506	$ 125,906	$ 102,797	$ 2,268	$ 1,082	$ 235,560
	PJM off pk	$ 3,105	$ 100,859	$ 60,208	$ 1,466	$ 1,950	$ 167,588
Annual		$ 9,844	$ 390,714	$ 259,858	$ 5,192	$ 4,537	$ 670,145

System Total $ 670,145

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Table #9 **Summary of Average BGS Energy Only Unit Costs @ customer - JCP&L Time Periods**
based on Forwards prices corrected for zone-hub differential and losses - JCP&L billing time periods
in $/MWh

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		$ 44.452	$ 44.551	$ 45.847	$ 45.490	$ 39.244
	JCP&L On pk	$ 57.537			$ 56.917	
	JCP&L Off pk	$ 35.456			$ 35.571	
Winter - all hrs		$ 42.426	$ 41.914	$ 42.456	$ 42.984	$ 39.514
	JCP&L On pk	$ 48.627			$ 48.461	
	JCP&L Off pk	$ 39.052			$ 38.706	
Annual Average		$ 43.071	$ 42.982	$ 43.660	$ 43.660	$ 39.424
System Average	$ 43.22					

Table #10 **Generation & Transmission Obligations and Costs and Other Adjustments**
obligations - annual average forecasted for 2019; costs are market estimates

in MW	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	BGS-RSCP TOTAL
Gen Obl - MW	82.1	2,616.1	1,747.8	43.1	0.0	4,489.1

Trans Obl - MW — Not applicable for JCP&L - Transmission rates are based on Retail Tariff rates for the respective rate classes

# 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 charges will be based on Retail Tariff rates for the applicable rate schedules

		Initial	Adjusted			
Generation Capacity cost	Summer	$ 115.68	131.754	$/MW/day	Summer Total	$ 72,158,222
	Winter	$ 115.68	131.754	$/MW/day	Winter Total	$ 143,724,983
					Annual Total	$ 215,883,205

Residential summer BGS + Transmission charge differential
per BPU and summer blocking percentages

	Rate Charges	% usage
Block 1 (0-600 kWh/m)		53.68%
Block 2 (>600 kWh/m)		46.32%
Differential (Excl. SUT)	0.8652 ¢/kWh	

Table #11 **Ancillary Services**

	Initial	Adjusted	
Forecasted Ancillary Services Cost	$2.00		$/MWh
Renewable Portfolio Standard Cost	$15.04		$/MWh
forecasted overall annual average	$17.04	$19.408	$/MWh

Table #12 **Summary of Obligation Costs Expressed as $/MWh @ customer**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Transmission Obl - all months	$ 7.465	$ 7.465	$ 7.465	$ 7.465	$ -
Generation Obl $/MWh - all months	$ 17.268	$ 13.840	$ 14.122	$ 17.429	$ 0.008
Generation Obl $/MWh - Summer - All Hours	$ 18.137	$ 11.427	$ 13.299		$ 0.008
Generation Obl $/MWh - Summer - On-Peak Hours	$ 44.518			$ 46.537	
Generation Obl $/MWh - Winter - All Hours	$ 16.862	$ 15.481	$ 14.575		$ 0.008
Generation Obl $/MWh - Winter - On-Peak Hours	$ 47.849			$ 36.211	

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Table #13 **Summary of BGS Unit Costs @ customer**

NON-DEMAND RATES
includes energy, Generation and Transmission obligations, and Ancillary Services - adjusted to billing time periods
in $/MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	$ 91.75	$ 85.14	$ 88.31		$ 60.95
JCP&L On pk	$ 131.22			$ 132.62	
JCP&L Off pk	$ 64.62			$ 64.73	
Block 1 (0-600 kWh/m)		$ 81.13			
Block 2 (>600 kWh/m)		$ 89.79			
Winter - all hrs	$ 88.45	$ 86.56	$ 86.19		$ 61.22
JCP&L On pk	$ 125.64			$ 113.83	
JCP&L Off pk	$ 68.22			$ 67.87	
Annual -all hrs	$ 89.50	$ 85.99	$ 86.95	$ 90.25	$ 61.13

DEMAND RATES
includes energy and Ancillary Services, G&T obligations charged separately - adjusted to billing time periods
in $/MWh

JCP&L does not have a demand component in its BGS charges

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Table #14 **Units @ Customer**
in kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	2,120,584		2,112,534,000		38,360,000	
JCP&L On pk	28,770,185			14,886,869		
JCP&L Off pk	41,845,231			17,149,132		
Block 1 (0-600 kWh/m)		1,975,322,000				
Block 2 (>600 kWh/m)		1,704,660,000				
Winter - all hrs	4,333,889	5,410,210,000	3,639,355,000		76,720,000	
JCP&L On pk	53,380,472			38,107,132		
JCP&L Off pk	98,110,639			48,778,868		
						Total
Summer Total	72,736,000	3,679,982,000	2,112,534,000	32,036,000	38,360,000	5,935,648,000
Winter Total	155,825,000	5,410,210,000	3839355000	86886000	76720000	9,568,996,000
Annual Total	228,561,000	9,090,192,000	5,951,889,000	118,922,000	115,080,000	15,504,644,000

Table #15 **Summary of Total Estimated BGS Costs by Season**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Total Costs by Rate - in $1000						
Summer - all hrs	$ 195		$ 186,556		$ 2,338	
JCP&L On pk	$ 3,775			$ 1,974		
JCP&L Off pk	$ 2,704			$ 1,110		
Block 1 (0-600 kWh/m)		$ 160,265				
Block 2 (>600 kWh/m)		$ 153,054				
Winter - all hrs	$ 383	$ 468,301	$ 330,932		$ 4,697	
JCP&L On pk	$ 6,707			$ 4,338		
JCP&L Off pk	$ 6,693			$ 3,311		
Total Costs - in $1000						
Summer	$ 6,674	$ 313,320	$ 186,556	$ 3,084	$ 2,338	$ 511,971
Winter	$ 13,783	$ 468,301	$ 330,932	$ 7,649	$ 4,697	$ 825,361
Total	$ 20,456	$ 781,621	$ 517,487	$ 10,733	$ 7,035	$ 1,337,332
% of Annual Total $						
Summer	33%	40%	36%	29%	33%	38%
Winter	67%	60%	64%	71%	67%	62%

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Table #16 **Customer & Bulk System Costs**

Customer Costs Per Allocation Matrix
Grand Total Cost in $1000 = $ 1,337,332

Seasonal Units	**RT{1}**	**RS{2}**	**GS{3}**	**GST {4}**	**OL/SL**	**Total**
Summer	81,319	4,114,217	2,361,811	35,816	42,886	6,636,049
Winter	174,212	6,048,611	4,292,396	97,138	85,773	10,698,130

Supplier Payment in $1000	Seasonal	Price per MWH			
Post Transition Year 17 Bid price	Factor	77.150	Units		Payment
Seasonally Adjusted Summer Payment	1.0000	77.150	6,636,049	$	511,971
Seasonally Adjusted Winter Payment	1.0000	77.150	10,698,130	$	825,361
Total Supplier Payment				$	1,337,332

Table #17 **Adjustment Factor Calculation**

Allocated Customer Costs on a per MWh basis (on bulk system MWhs):				Seasonal Supplier Payment	Adjustment Factor Calculation	Adjustment Factor
Summer	$	77.15	per MWh @ bulk system	77.15	1.0000	1.386468
Winter	$	77.15	per MWh @ bulk system	77.15	1.0000	1.138948

Assumptions:

Generation Capacity Cost =	$	131.75	per MW day Summer
	$	131.75	per MW day Winter
Transmission cost =	Transmission charges will be based on Retail Tariff rates for the applicable rate schedules		
Analysis time period =		4	summer months
		8	winter months
Ancillary Services =	$	19.41	per MWh
Energy Costs =	Based on Forwards prices @ PJM West corrected for hub-zone basis differential (both based on the figures used to derive the Bid Factors and establish retail rates in Post Transition Year 17 and adjusted to match the total cost at the actual supplier bid price.		
Usage patterns =	forecasted 2019 energy use by class based upon PJM on/off % from 2016 through 2018 class load profiles JCP&L billing on/off % from 2019 forecasted billing determinants		
Obligations =	class totals for 2019 excluding accounts required to take service under BGS-CIEP as of June 1, 2020		
Losses =	Consistent with Losses as approved by the BPU		
PJM Time Periods =	PJM trading time periods - 7 AM to 11 PM weekdays, local time, excluding NERC holidays - New Year's, Memorial, 4th of July, Labor Day, Thanksgiving & Christmas		
JCP&L Billing time periods =	RT On-peak hours are 8 am to 8 pm Eastern Standard Time, Monday through Friday. GST On-peak hours are 8 am to 8 pm prevailing time, Monday through Friday. The Holidays identified by PJM are not excluded from the RT or GST Billing On-Peak kWh.		
NJ Sales and Use Tax (SUT) =	SUT excluded from all costs		

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2020 BGS Auction Cost and Bid Factor Tables

2020/2021 BGS Supply Period Estimated Supplier Payments Allocated by Rate Class

Development of Post Transition Period BGS Cost and Bid Factors

Adjusted to Billing Time Periods

Table #1 **% Usage During PJM On-Peak Period**

Based on an average of 2016 through 2018 Load Profile Information
On-Peak periods defined as the 16 hr PJM Trading period, adj for NERC holidays

(data rounded to nearest .01 %)	*Profile Meter Data* **RT{1}**	*Profile Meter Data* **RS{2}**	*Profile Meter Data* **GS{3}**	*Profile Meter Data* **GST**	*Other Analysis* **OL/SL**
January	45.93%	48.40%	54.94%	53.14%	31.53%
February	48.21%	50.91%	57.88%	55.94%	31.19%
March	48.88%	52.03%	60.47%	56.80%	30.64%
April	47.03%	49.04%	58.18%	55.27%	27.76%
May	49.17%	51.10%	59.71%	57.36%	27.67%
June	52.88%	53.39%	59.54%	58.61%	27.60%
July	49.94%	49.97%	55.55%	54.24%	24.85%
August	55.33%	55.20%	60.95%	59.51%	29.19%
September	46.78%	47.35%	57.03%	55.55%	27.85%
October	49.09%	50.98%	59.24%	57.28%	31.59%
November	46.44%	49.85%	58.25%	55.38%	32.81%
December	44.78%	46.92%	53.89%	51.61%	31.23%

Table #2 **% Usage During JCP&L On-Peak Billing Period**

On-Peak periods as defined in specified rate schedule

(data rounded to nearest .01 %)	*2019 Forecasted Calendar Month Sales* **RT{1}**	*N/A* **RS{2}**	*N/A* **GS{3}**	*2019 Forecasted Calendar Month Sales* **GST**	*N/A* **OL/SL**
January	35.58%	----	----	42.59%	----
February	34.83%	----	----	43.05%	----
March	34.04%	----	----	42.89%	----
April	34.40%	----	----	43.94%	----
May	36.75%	----	----	45.47%	----
June	39.77%	----	----	46.23%	----
July	41.33%	----	----	46.88%	----
August	41.42%	----	----	46.61%	----
September	40.15%	----	----	46.11%	----
October	36.90%	----	----	46.48%	----
November	35.20%	----	----	45.31%	----
December	35.48%	----	----	43.33%	----

{1} For BGS purposes the RT rate class includes the RS and GS rate class Off-Peak (OPWH) and Controlled Water Heating (CTWH) provisions. The RT rate class also includes the summer billing month RGT rate class usage. OPWH and CTWH is billed on the average RT rates, while RT and Summer RGT use is billed at on-peak and off-peak rates.
{2} For BGS purposes the RS rate class excludes the Off-Peak and Controlled Water Heating provisions and includes the winter billing month RGT rate class usage
{3} For BGS purposes the GS rate class excludes the Off-Peak and Controlled Water Heating provisions

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Table #3 **Class Usage @ customer**
calendar month sales forecasted for ***2019***
in MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
January	23,565	756,063	518,162	12,162	9,590	1,319,542
February	25,830	767,678	518,422	14,327	9,590	1,335,847
March	23,751	700,839	510,718	14,335	9,590	1,259,233
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May	15,219	593,952	439,233	7,562	9,590	1,065,556
June	15,454	700,169	487,689	9,518	9,590	1,222,420
July	18,683	959,624	533,658	7,049	9,590	1,528,604
August	21,050	1,116,559	567,778	9,874	9,590	1,724,851
September	17,549	903,630	523,409	5,595	9,590	1,459,773
October	12,792	635,700	453,116	7,365	9,590	1,118,563
November	15,006	614,269	452,674	9,447	9,590	1,100,986
December	19,324	694,324	482,386	9,927	9,590	1,215,551
Total	228,561	9,090,192	5,951,889	118,922	115,080	15,504,644

Table #4 **Forwards Prices - Energy Only @ bulk system**
in $/MWh

	On-Peak	Off/On Pk LMP ratio	Off-Peak
January	46.94	0.7846	36.829
February	44.45	0.7846	34.875
March	35.43	0.7846	27.798
April	30.64	0.7846	24.040
May	30.30	0.7846	23.773
June	30.23	0.6531	19.743
July	35.77	0.6531	23.361
August	32.56	0.6531	21.265
September	30.95	0.6531	20.213
October	29.60	0.7846	23.224
November	30.09	0.7846	23.609
December	33.46	0.7846	26.253

Table #5 **Zone-Hub Basis Differential Based on 3 Year Average**

	On-Peak	Off-Peak
January	93%	95%
February	93%	95%
March	93%	95%
April	93%	95%
May	93%	95%
June	94%	89%
July	94%	89%
August	94%	89%
September	94%	89%
October	93%	95%
November	93%	95%
December	93%	95%

Table #6 **Losses**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Loss Factors @ Bulk =	10.5545%	10.5545%	10.5545%	10.5545%	10.5545%
Expansion Factors @ Bulk =	1.11800	1.11800	1.11800	1.11800	1.11800
Loss Factors @ Transmission Node =	9.8633%	9.8633%	9.8633%	9.8633%	9.8633%
Expansion Factors @ Transmission Node =	1.10943	1.10943	1.10943	1.10943	1.10943

{4} The GS and GST units exclude the units associated with the 500 kW and above PLS accounts that will be required to take service under BGS-CIEP

Table #7

Summary of Average BGS Energy Only Unit Costs @ customer - PJM Time Periods
based on Forwards prices corrected for zone-hub differential and losses - PJM time periods
in $/MWh

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		$ 27.815	$ 27.889	$ 28.650	$ 28.408	$ 24.585
	PJM on pk	$ 34.153	$ 34.207	$ 34.043	$ 33.890	$ 33.936
	PJM off pk	$ 21.122	$ 21.164	$ 21.114	$ 21.024	$ 21.061
Winter - all hrs		$ 33.799	$ 33.364	$ 33.775	$ 34.227	$ 31.482
	PJM on pk	$ 37.709	$ 37.028	$ 36.771	$ 37.502	$ 36.619
	PJM off pk	$ 30.278	$ 29.719	$ 29.676	$ 30.178	$ 29.222
Annual		$ 31.895	$ 31.148	$ 31.956	$ 32.659	$ 29.183

System Total $ 31.47

Table #8

Summary of Average BGS Energy Only Costs @ customer - PJM Time Periods
based on Forwards prices corrected for zone-hub differential and losses
in $1000

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer - all hrs		$ 2,023	$ 102,632	$ 60,524	$ 910	$ 943	$ 167,033
	PJM on pk	$ 1,276	$ 64,909	$ 41,919	$ 623	$ 356	$ 109,083
	PJM off pk	$ 747	$ 37,724	$ 18,605	$ 287	$ 587	$ 57,950
Winter - all hrs		$ 5,267	$ 180,508	$ 129,675	$ 2,974	$ 2,415	$ 320,839
	PJM on pk	$ 2,784	$ 99,919	$ 81,567	$ 1,801	$ 858	$ 186,930
	PJM off pk	$ 2,482	$ 80,589	$ 48,108	$ 1,173	$ 1,557	$ 133,909
Annual		$ 7,290	$ 283,140	$ 190,199	$ 3,884	$ 3,358	$ 487,872

System Total $ 487,872

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Table #9 **Summary of Average BGS Energy Only Unit Costs @ customer - JCP&L Time Periods**
based on Forwards prices corrected for zone-hub differential and losses - JCP&L billing time periods
in $/MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	$ 27.815	$ 27.889	$ 28.650	$ 28.408	$ 24.585
JCP&L On pk	$ 35.853			$ 35.403	
JCP&L Off pk	$ 22.289			$ 22.337	
Winter - all hrs	$ 33.799	$ 33.364	$ 33.775	$ 34.227	$ 31.482
JCP&L On pk	$ 41.176			$ 38.455	
JCP&L Off pk	$ 29.785			$ 30.923	
Annual Average	$ 31.895	$ 31.148	$ 31.956	$ 32.659	$ 29.183
System Average	$ 31.47				

Table #10 **Generation & Transmission Obligations and Costs and Other Adjustments**
obligations - annual average forecasted for 2019; costs are market estimates

in MW	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	BGS-RSCP TOTAL
Gen Obl - MW	82.1	2,616.1	1,747.8	43.1	0.0	4,489.1

Trans Obl - MW Not applicable for JCP&L - Transmission rates are based on Retail Tariff rates for the respective rate classes

# 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 charges will be based on Retail Tariff rates for the applicable rate schedules

Generation Capacity cost	Summer	$ 176.17	$/MW/day	Summer Total	$ 96,483,704
	Winter	$ 176.17	$/MW/day	Winter Total	$ 192,176,558
				Annual Total	$ 288,660,262

Residential summer BGS + Transmission charge differential
per BPU and summer blocking percentages

	Rate	
	Charges	% usage
Block 1 (0-600 kWh/m)		53.68%
Block 2 (>600 kWh/m)		46.32%
Differential (Excl. SUT)	0.8652 ¢/kWh	

Table #11 **Ancillary Services**

Forecasted Ancillary Services Cost	$2.00 $/MWh
Renewable Portfolio Standard Cost	$16.25 $/MWh
Total Forecasted Ancillary Services & Renewable Power Costs	$18.25 $/MWh

Table #12 **Summary of Obligation Costs Expressed as $/MWh @ customer**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Transmission Obl - all months	$ 7.478	$ 7.478	$ 7.478	$ 7.478	$ -
Generation Obl $/MWh - all months	$ 23.089	$ 18.506	$ 18.883	$ 23.305	$ 0.011
Generation Obl $/MWh - Summer - All Hours	$ 24.251	$ 15.279	$ 17.782		$ 0.011
Generation Obl $/MWh - Summer - On-Peak Hours	$ 59.526			$ 62.225	
Generation Obl $/MWh - Winter - All Hours	$ 22.547	$ 20.700	$ 19.489		$ 0.011
Generation Obl $/MWh - Winter - On-Peak Hours	$ 63.980			$ 48.418	

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Table #13 **Summary of BGS Unit Costs @ customer**

NON-DEMAND RATES
includes energy, Generation and Transmission obligations, and Ancillary Services - adjusted to billing time periods in $/MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	$ 79.95	$ 71.05	$ 74.31		$ 45.00
JCP&L On pk	$ 123.26			$ 125.51	
JCP&L Off pk	$ 50.17			$ 50.22	
Block 1 (0-600 kWh/m)		$ 67.04			
Block 2 (>600 kWh/m)		$ 75.69			
Winter - all hrs	$ 84.23	$ 81.95	$ 81.15		$ 51.90
JCP&L On pk	$ 133.04			$ 114.76	
JCP&L Off pk	$ 57.67			$ 58.80	
Annual -all hrs	$ 82.87	$ 77.54	$ 78.72	$ 83.85	$ 49.60

DEMAND RATES
includes energy and Ancillary Services, G&T obligations charged separately - adjusted to billing time periods in $/MWh

JCP&L does not have a demand component in its BGS charges

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Table #14 **Units @ Customer**

in kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	2,120,584		2,112,534,000		38,360,000	
JCP&L On pk	28,770,185			14,886,869		
JCP&L Off pk	41,845,231			17,149,132		
Block 1 (0-600 kWh/m)		1,975,322,000				
Block 2 (>600 kWh/m)		1,704,660,000				
Winter - all hrs	4,333,889	5,410,210,000	3,839,355,000		76,720,000	
JCP&L On pk	53,380,472			38,107,132		
JCP&L Off pk	98,110,639			48,778,868		
						Total
Summer Total	72,736,000	3,679,982,000	2,112,534,000	32,036,000	38,360,000	5,935,648,000
Winter Total	155,825,000	5,410,210,000	3839355000	86886000	76720000	9,568,996,000
Annual Total	228,561,000	9,090,192,000	5,951,889,000	118,922,000	115,080,000	15,504,644,000

Table #15 **Summary of Total Estimated BGS Costs by Season**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Total Costs by Rate - in $1000						
Summer - all hrs	$ 170		$ 156,991		$ 1,726	
JCP&L On pk	$ 3,546			$ 1,868		
JCP&L Off pk	$ 2,099			$ 861		
Block 1 (0-600 kWh/m)		$ 132,430				
Block 2 (>600 kWh/m)		$ 129,033				
Winter - all hrs	$ 365	$ 443,346	$ 311,546		$ 3,982	
JCP&L On pk	$ 7,102			$ 4,373		
JCP&L Off pk	$ 5,658			$ 2,868		
Total Costs - in $1000						
Summer	$ 5,815	$ 261,463	$ 156,991	$ 2,730	$ 1,726	$ 428,724
Winter	$ 13,124	$ 443,346	$ 311,546	$ 7,241	$ 3,982	$ 779,239
Total	$ 18,939	$ 704,809	$ 468,537	$ 9,971	$ 5,708	$ 1,207,964
% of Annual Total $						
Summer	31%	37%	34%	27%	30%	35%
Winter	69%	63%	66%	73%	70%	65%

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Table #16 & Table #17 **Not Applicable to 2020/2021 BGS Supply Period**

Table #18 **Bulk System Costs**

ALL RATES

Grand Total Cost in $1000 = $ 1,207,964

All-In Average costs @ bulk system = $ 69.69 per MWh at bulk system (per bulk system metered MWh)

Table #19 **Seasonal Payment Factors**

If total $ were split on a per MWh basis (on bulk nodes MWhs):

Summer	$	64.61	per MWh @ bulk system
Winter	$	72.84	per MWh @ bulk system

Ratio to All-In Cost (rounded to 4 decimal places)

Summer	**0.9271**
Winter	**1.0452**

Ratio to All-In Cost (If Winter is greater than Summer)

Summer	**1.0000**
Winter	**1.0000**

Assumptions:

Generation Capacity Cost =	$	176.17	per MW day Summer
	$	176.17	per MW day Winter
Transmission cost =	Transmission charges will be based on Retail Tariff rates for the applicable rate schedules		
Analysis time period =		4	summer months
		8	winter months
Ancillary Services and Renewable Power Cost =	$	18.25	per MWh

Energy Costs = based on 6/19 to 5/20 Forwards @ PJM West corrected for hub-zone basis differential

Usage patterns = forecasted 2019 energy use by class based upon PJM on/off % from 2016 through 2018 class load profiles
JCP&L billing on/off % from 2019 forecasted billing determinants

Obligations = class totals for 2019 excluding accounts required to take service under BGS-CIEP as of June 1, 2020

Loss = Consistent with Losses as approved by the BPU

PJM Marginal Losses = PJM's calculated mean value of hourly marginal loss factor

PJM Time Periods = PJM trading time periods - 7 AM to 11 PM weekdays, local time, excluding NERC holidays - New Year's, Memorial, 4th of July, Labor Day, Thanksgiving & Christmas

JCP&L Billing time periods = RT On-peak hours are 8 am to 8 pm Eastern Standard Time, Monday through Friday.
GST On-peak hours are 8 am to 8 pm prevailing time, Monday through Friday.
The Holidays identified by PJM are not excluded from the RT or GST Billing On-Peak kWh.

NJ Sales and Use Tax (SUT) = SUT excluded from all costs

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2020 BGS Auction Cost and Bid Factor Tables

BGS-RSCP Composite Cost Allocation

Table #C1 **Post Transition Year 16 Costs** **Size of Tranches =** 20
in $1,000's

Total Costs by Rate - in $1000	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	$ 195		$ 178,815		$ 1,815	
JCP&L On pk	$ 4,347			$ 2,294		
JCP&L Off pk	$ 2,137			$ 879		
Block 1 (0-600 kWh/m)		$ 150,260				
Block 2 (>600 kWh/m)		$ 144,420				
Winter - all hrs	$ 369	$ 445,499	$ 312,625		$ 3,454	
JCP&L On pk	$ 7,798			$ 4,810		
JCP&L Off pk	$ 5,092			$ 2,494		
Total Costs - in $1000						
Summer	$ 6,679	$ 294,680	$ 178,815	$ 3,173	$ 1,815	$ 485,162
Winter	$ 13,259	$ 445,499	$ 312,625	$ 7,304	$ 3,454	$ 782,140
Total	$ 19,938	$ 740,179	$ 491,440	$ 10,477	$ 5,269	$ 1,267,303

Table #C2 **Post Transition Year 17 Costs** **Size of Tranches =** 18
in $1,000's

Total Costs by Rate - in $1000	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	$ 195		$ 186,556		$ 2,338	
JCP&L On pk	$ 3,775			$ 1,974		
JCP&L Off pk	$ 2,704			$ 1,110		
Block 1 (0-600 kWh/m)		$ 160,265				
Block 2 (>600 kWh/m)		$ 153,054				
Winter - all hrs	$ 383	$ 468,301	$ 330,932		$ 4,697	
JCP&L On pk	$ 6,707			$ 4,338		
JCP&L Off pk	$ 6,693			$ 3,311		
Total Costs - in $1000						
Summer	$ 6,674	$ 313,320	$ 186,556	$ 3,084	$ 2,338	$ 511,971
Winter	$ 13,783	$ 468,301	$ 330,932	$ 7,649	$ 4,697	$ 825,361
Total	$ 20,456	$ 781,621	$ 517,487	$ 10,733	$ 7,035	$ 1,337,332

{1} For BGS purposes the RT rate class includes the RS and GS rate class Off-Peak (OPWH) and Controlled Water Heating (CTWH) provisions. The RT rate class also includes the summer billing month RGT rate class usage. OPWH and CTWH is billed on the average RT rates, while RT and Summer RGT use is billed at on-peak and off-peak rates.
{2} For BGS purposes the RS rate class excludes the Off-Peak and Controlled Water Heating provisions and includes the winter billing month RGT rate class usage
{3} For BGS purposes the GS rate class excludes the Off-Peak and Controlled Water Heating provisions
{4} The GS and GST units exclude the units associated with the 500 kW and above PLS accounts that will be required to take service under BGS-CIEP

Table #C3 **Post Transition Year 18 Costs**
in $1,000's

Size of Tranches = 15

Total Costs by Rate - in $1000	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	$ 170		$ 156,991		$ 1,726	
JCP&L On pk	$ 3,546			$ 1,868		
JCP&L Off pk	$ 2,099			$ 861		
Block 1 (0-600 kWh/m)		$ 132,430				
Block 2 (>600 kWh/m)		$ 129,033				
Winter - all hrs	$ 365	$ 443,346	$ 311,546		$ 3,982	
JCP&L On pk	$ 7,102			$ 4,373		
JCP&L Off pk	$ 5,658			$ 2,868		
Total Costs - in $1000						
Summer	$ 5,815	$ 261,463	$ 156,991	$ 2,730	$ 1,726	$ 428,724
Winter	$ 13,124	$ 443,346	$ 311,546	$ 7,241	$ 3,982	$ 779,239
Total	$ 18,939	$ 704,809	$ 468,537	$ 9,971	$ 5,708	$ 1,207,964

Table #C4 **Composite (Tranche Weighted) Costs**
in $1,000's

Total Costs by Rate - in $1000	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	$ 188		$ 175,267		$ 1,968	
JCP&L On pk	$ 3,926			$ 2,065		
JCP&L Off pk	$ 2,319			$ 952		
Block 1 (0-600 kWh/m)		$ 148,612				
Block 2 (>600 kWh/m)		$ 142,997				
Winter - all hrs	$ 373	$ 452,634	$ 318,537		$ 4,025	
JCP&L On pk	$ 7,230			$ 4,526		
JCP&L Off pk	$ 5,796			$ 2,877		
Total Costs - in $1000						
Summer	$ 6,433	$ 291,609	$ 175,267	$ 3,017	$ 1,968	$ 478,294
Winter	$ 13,399	$ 452,634	$ 318,537	$ 7,403	$ 4,025	$ 795,998
Total	$ 19,831	$ 744,243	$ 493,804	$ 10,421	$ 5,993	$ 1,274,292

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Attachment 2

Table #C5 **Units @ Customer**
Forecasted 2019 in kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	2,120,584		2,112,534,000		38,360,000	
JCP&L On pk	28,770,185			14,886,869		
JCP&L Off pk	41,845,231			17,149,132		
Block 1 (0-600 kWh/m)		1,975,322,000				
Block 2 (>600 kWh/m)		1,704,660,000				
Winter - all hrs	4,333,889	5,410,210,000	3,839,355,000		76,720,000	
JCP&L On pk	53,380,472			38,107,132		
JCP&L Off pk	98,110,639			48,778,868		
						Total
Summer Total	72,736,000	3,679,982,000	2,112,534,000	32,036,000	38,360,000	5,935,648,000
Winter Total	155,825,000	5,410,210,000	3,839,355,000	86,886,000	76,720,000	9,568,996,000
Annual Total	228,561,000	9,090,192,000	5,951,889,000	118,922,000	115,080,000	15,504,644,000

Table #C6 **Summary of BGS Unit Costs @ customer**

NON-DEMAND RATES
includes energy, Generation & Transmission obligations, and Ancillary Services - adjusted to billing time periods
in $/MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	$ 88.44		$ 82.62		$ 51.29
JCP&L On pk	$ 135.65			$ 138.72	
JCP&L Off pk	$ 55.09			$ 55.53	
Block 1 (0-600 kWh/m)		$ 74.70			
Block 2 (>600 kWh/m)		$ 83.30			
Winter - all hrs	$ 85.99	$ 83.07	$ 82.62		$ 52.47
JCP&L On pk	$ 134.64			$ 118.77	
JCP&L Off pk	$ 58.72			$ 58.99	
Annual -all hrs	$ 86.25	$ 81.30	$ 82.62	$ 87.63	$ 52.08

DEMAND RATES
includes energy and Ancillary Services, G&T obligations charged separately - adjusted to billing time periods
in $/MWh

JCP&L does not have a demand component in its BGS charges

ALL RATES
Grand Total Cost in $1000 = $ 1,274,292
All-In Average costs @ bulk system = $ 73.51 per MWh at bulk system (per bulk system metered MWh)
All-In Average costs @ transmission nodes = $ 74.08 per MWh at transmission nodes (per transmission nodes metered MWh)

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Table #C7 **Ratio of BGS Unit Costs @ customer to All-In Average Cost @ transmission nodes (rounded to 3 decimal places)**

NON-DEMAND RATES
includes Energy, Generation & Transmission obligations, and Ancillary Services - adjusted to billing time periods

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		**1.194**	**1.062**	**1.115**		**0.692**
	JCP&L On pk	**1.831**			**1.872**	
	JCP&L Off pk	**0.744**			**0.750**	
	Constant for Block 1 (0-600 kWh/m) usage (Excl. SUT)		**(4.008)**			
	Constant for Block 2 (>600 kWh/m) usage (Excl. SUT)		**4.644**			
Winter - all hrs		**1.161**	**1.121**	**1.115**		**0.708**
	JCP&L On pk	**1.817**			**1.603**	
	JCP&L Off pk	**0.793**			**0.796**	
Annual - all hrs		**1.164**	**1.097**	**1.115**	**1.183**	**0.703**

DEMAND RATES
includes energy and Ancillary Services, G&T obligations charged separately - adjusted to billing time periods

JCP&L does not have a demand component in its BGS charges