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REGULATORY COMMISSION

I&M	Exhibit:	

Cause No. 45235

INDIANA MICHIGAN POWER COMPANY

PRE-FILED VERIFIED DIRECT TESTIMONY

OF

DANIEL E. HIGH

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PRE-FILED VERIFIED DIRECT TESTIMONY OF DANIEL E. HIGH ON BEHALF OF INDIANA MICHIGAN POWER COMPANY

- 1 Q. Please state your name and business address.
- 2 A. My name is Daniel E. High. My business address is 1 Riverside Plaza, Columbus,
- 3 Ohio 43215.
- 4 Q. By whom are you employed and in what capacity?
- 5 A. I am employed by American Electric Power Service Corporation (AEPSC) as Staff
- 6 Regulatory Consultant in the Regulatory Pricing & Analysis Department. AEPSC
- 7 supplies engineering, financing, accounting, planning, advisory, and other services
- 8 to the subsidiaries of the American Electric Power (AEP) system, one of which is
- 9 Indiana Michigan Power Company (I&M or the Company).
- 10 Q. Please describe your educational and professional background.
- 11 A. In December 1989, I received a Bachelor of Science Degree in Energy
- Management from West Liberty University. In May 1997, I received a Master of
- 13 Business Administration degree from Ashland University.
- In February 1990, I joined Columbus Southern Power Company as a
- Marketing and Customer Services Representative in the Marketing and Customer
- Services Department of the Columbus Region. In August 1998, I joined the
- 17 Regulated Pricing & Analysis Department as a Regulatory Consultant. From 2006
- through 2008, I performed duties as a Regulatory Consultant in Transmission &
- 19 Interconnection Services under the Regulatory Services Department, where I was
- responsible for rate design and maintaining wholesale contracts. In January 2009,

I returned to Regulated Pricing & Analysis under the Regulatory Services
 Department as a Regulatory Consultant.

3 Q. What are your responsibilities as a Staff Regulatory Consultant?

- A. My responsibilities include preparation of cost-of-service studies, rate design and tariff provisions for AEP operating companies, as well as other projects related to regulatory issues and proceedings, individual customer requests, and general rate matters.
- 8 Q. Have you taken any courses in cost allocation and rate design?
- Yes. In 1999, I attended the Edison Electric Institute's (EEI) school on cost
 allocation and rate design. In 2003, I attended EEI's advanced cost allocation and
 rate design school.
- 12 Q. Have you previously submitted testimony in any regulatory proceedings?
- 13 A. Yes. I have submitted testimony before the Public Service Commission of
 14 Kentucky on behalf of Kentucky Power Company; before the Michigan Public
 15 Service Commission (MPSC or Commission) and the Indiana Utility Regulatory
 16 Commission on behalf of I&M; and before the Public Utilities Commission of Ohio
 17 on behalf of Ohio Power Company.

PURPOSE OF TESTIMONY

19 Q. What is the purpose of your testimony in this proceeding?

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A. The purpose of my testimony is to support and describe the development of the Company's class cost-of-service study, which allocates the total Indiana retail jurisdiction rate base, revenues, and expenses to each rate schedule. The cost allocation methodology used in the class cost-of-service study assigns costs

1		among the customer classes in a fair and equitable manner based on principles of
2		cost causation. Customers who cause costs to be incurred are allocated such
3		costs in the Company's class cost-of-service study.
4	Q.	What is the test period used to prepare the class cost-of-service study in this
5		proceeding?
6	A.	The test period used to develop the class cost-of-service study in this proceeding
7		is the twelve month period ending December 31, 2020 (Test Year).
8	Q.	Are you sponsoring any attachments in this proceeding?
9	A.	I am sponsoring the following attachment:
10		Attachment DEH-1: Test Year class cost-of-service study
11	Q.	Are you sponsoring any workpapers in this proceeding?
12	A.	I am sponsoring the following workpapers:
13		WP-DEH-1: Test Year Proposed Equalized ROR
14		WP-DEH-2: Test Year Allocation Factors
15		WP-DEH-3: Test Year Allocators
16		WP-DEH-4: Test Year Transmission and Subtransmission
17		WP-DEH-5: Summary Allocators
18		WP-DEH-6: Customer and Demand Allocators
19		WP-DEH-7: Revenue Allocators Summary
20		WP-DEH-8: Revenue Allocators
21		WP-DEH-9: Number of Customers Allocators
22		WP-DEH-10: 6 CP Demand and Energy Allocators
23		WP-DEH-11: Class Peak Data

 WP-DEH-12: Call Center Allocation (Account 903)

- WP-DEH-13: Meter Reading Allocation (Account 902)
- WP-DEH-14: Meter Allocation (Account 370)
- WP-DEH-15: Allocation of Forfeited Discounts (Account 450) and
 Miscellaneous Service Revenue (Account 451)
- WP-DEH-16: Allocation of Poles (Account 364), Overhead Conductors
 (Account 365), Underground Conductors (Account 367) and Transformers
 (Account 368)
- WP-DEH-17: Forecasted Plant Credit Phase-In Rate Adjustment Class Cost of-Service study
- WP-DEH-18: Forecasted Plant Credit Phase-In Rate Adjustment Proposed
 Equalized ROR
- WP-DEH-19: Forecasted Plant Credit Phase-In Rate Adjustment Allocation
 Factors
- WP-DEH-20: Forecasted Plant Credit Phase-In Rate Adjustment Allocators
- Q. Were the attachments and workpapers that you are sponsoring prepared byyou or under your direction?
- 18 A. Yes.

19 OVERVIEW OF CLASS COST-OF-SERVICE STUDIES

- 20 Q. Briefly describe the nature and purpose of a cost-of-service study.
- A. Cost studies are utilized to determine the revenue requirement for the services offered by the utility and to determine the costs that different classes of customers impose on the utility system. A cost-of-service study is a basic analytical tool used

in traditional utility rate design. When all of the jurisdictional costs are allocated to the various customer classes, the result is a fully allocated class cost study that is a guide in establishing rates based on costs.

4 Q. Please describe how you prepared the class cost-of-service study.

5 An Excel spreadsheet (Attachment DEH-1) was used to prepare the class cost-of-Α. 6 service study. The Excel spreadsheet permits the analyst to use two types of 7 allocation factors – those which are generated externally and input to the program 8 and those which are developed internally as a result of the allocation process. An 9 example of an external allocation factor would be the total number of secondary 10 customers served at distribution level (DIST SERV). An example of an internal 11 factor would be the rate base gross utility plant electric plant in service distribution 12 allocation factor (RB_GUP_EPIS_D).

13 Q. What is the source of the data used in a cost-of-service study?

A. A jurisdictional allocation of rate base, revenue, and expenses was prepared for the forecasted Test Year by Company witness Duncan. The Indiana retail rate base and expense components were then assigned to the various customer classes using the standard three-step process to assign costs: functionalization, classification, and allocation.

19 Q. Please describe the functionalization process.

- 20 A. Once the relevant data is gathered, the costs are then separated by major electric system functions. Typically, functions in an electric utility are:
- Production and Purchased Power Costs
- Transmission Costs

Distribution Costs

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- Customer Service Costs
 - Administrative and General (A&G) Costs

The production function includes the costs associated with power generation and power purchases and their delivery to the bulk transmission system. The transmission function consists of costs associated with the high voltage system utilized for the transmission of power to and from interconnected utilities to the load centers of the utility's system. The distribution function includes the distribution system that connects the transmission system and the ultimate customer. The customer service function includes the costs associated with providing meter reading, billing and collection, and customer information and services. The A&G function is comprised of administrative costs that may not be directly assignable to other cost functions. These costs include such items as salaries, insurance, and administrative costs.

Q. Please describe the classification process.

- 16 A. The second step is to separate the functionalized costs into the following classifications:
 - Demand costs (costs that vary with the demand or kW/kVa imposed by the customer).
 - Energy costs (costs that vary with the number of kilowatt hours used by the customer).
- Customer costs (costs that are directly related to the number of customers
 served).

Typical cost classifications used in cost-of-service studies are shown on

Figure DEH-1:

Figure DEH-1
Cost Classifications

Function	Classification
Production	Demand, Energy
Transmission	Demand
Distribution	Demand, Customer
Customer Service	Customer
Administrative & General	Demand, Customer, Energy

Production plant costs, such as depreciation and return on investment, are considered to be demand-related costs because costs of this nature are incurred regardless of the amount of energy consumed or the number of customers served. Some production costs such as fuel costs and certain production operation and maintenance (O&M) expenses are energy-related because they vary with the quantity of electricity produced. Transmission costs are classified as demand-related costs because they are fixed costs and do not vary with energy usage and do not directly change with the number of customers utilizing the transmission system. Generally, the distribution system costs are affected either by the instantaneous peak demand imposed on the distribution facilities or by the number of customers served. Demand-related distribution costs typically vary with the size of the electrical load served, while customer-related distribution costs vary based on the number of customers receiving the service. Customer service costs are primarily related to the number of customers. The classification process provides

a basis on which to allocate different categories of costs (demand, energy, or customer costs) to the Company's classes.

Q. Please describe the allocation process.

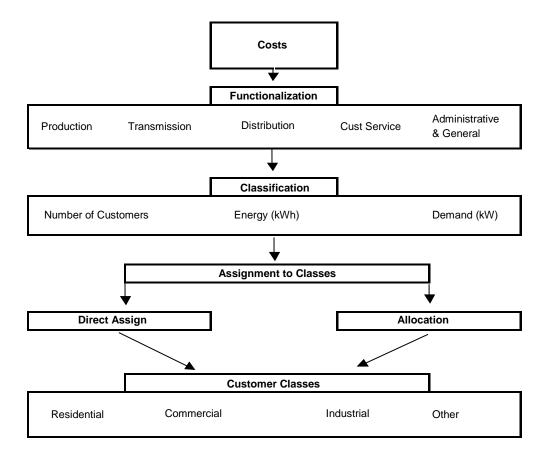
A.

The third and final step is to allocate these costs among the classes of customers based on how the costs are incurred for each class. Customer classes are determined and grouped according to the nature of service provided, voltage level, and the load usage characteristics. In general, the five principal customer classes are residential, commercial, industrial, outdoor lighting, and street lighting.

The allocation process involves dividing the functionalized and classified costs among the customer classes. The objective in this process is to determine a reasonable, appropriate, and understandable method to assign the costs. Some costs are directly assignable to a single class, or even a single customer. For instance, the equipment used wholly for public street and highway lighting are directly assigned to the street lighting class. Most costs, however, are attributable to more than one customer class. These are joint costs and must be allocated to customers by an allocation methodology that is based on the manner in which the costs are caused by the different customers. The joint costs are incurred based on the capacity demanded, the energy used, or the number of customers.

The following flowchart, Figure DEH-2, provides an overview of how the allocation of costs to customer classes is determined:

Figure DEH-2
Cost Allocation Example



In Figure DEH-2, costs are functionalized into production, transmission, distribution, customer service, and A&G. Some of these costs can be directly assigned to a customer class as mentioned previously. The remaining joint costs are incurred based on the number of customers, the energy used, or by the capacity demanded. In many instances, the classification process will lead to an allocation methodology. For example, costs associated with reading customer meters will vary with the number of customers as well as the complexity of reading the meter, so those costs associated with reading customer's meters are allocated to the classes based on a weighted number of customers. A weighted number of

customers allocation factor is developed by multiplying the number of customers in each class by a factor representing the difference in cost associated with providing that service to different types of customers. Similarly, the cost of fuel varies by the number of kilowatt hours consumed and therefore is allocated based on the proportion of total energy used by a customer class.

When this process is completed and all of the costs are allocated to the customer classes, the result is a fully allocated cost-of-service study that establishes cost responsibility and the Test Year rate of return earned from each class, making it possible to determine the rates each class of customer should pay based on costs that are just and reasonable.

- Q. What criteria must be established to ensure that the allocation of costs to the customers is appropriate?
- A. Generally, the following criteria should be used to determine the appropriateness
 of an allocation methodology:
 - The method should match customer benefit from the use of the system with the appropriate cost responsibility for the system.
 - The method should reflect the planning and operating characteristics of the utility's system.
 - The method should recognize customer class characteristics such as energy usage, peak demand on the system, diversity characteristics, number of customers, etc.
 - The method should produce stable results on a year-to-year basis.

- Q. Does the allocation method employed by the Company meet theseobjectives?
- A. Yes, it does. The allocation methodology utilized in the Company's cost-of-service study was chosen while considering each of the criteria listed above. The results of the cost-of-service study for the forecast period can be relied upon to determine the appropriate revenue requirement for I&M's customer classes.

ALLOCATION OF COMPONENTS OF RATE BASE

8 Q. Please describe the allocation of electric plant in service.

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- A. From the jurisdictional cost-of-service allocation study, as prepared by Company witness Duncan, Electric Plant in Service is identified and functionalized into production, transmission, distribution, and general plant. Production plant is classified as demand-related and is allocated using the production demand allocation factor (PROD_DEMAND). The production demand allocation factor assigns costs based on the class contribution to the average of I&M's six monthly coincident peaks on the production facilities.
- 16 Q. Please explain coincident peak cost allocation.
- A. Coincident peak cost allocation refers to the process of determining each class's hourly demand contribution to the Company's monthly peak demand. For instance, a single coincident peak method (1 CP) would allocate costs to the customer classes according to the load of that class at the time of the utility's highest measured one-hour peak demand in the Test Year. Conversely, an allocator based on the class contribution to the 12 monthly maximum system peaks (12 CP) might be used when the monthly peaks lie within a narrow range and there

are no definite spikes in the load curve. The summer and winter peak method (6 CP) assigns costs to the customer classes based on each customer classes' contribution to the six monthly peaks during the test period.

4 Q. What CP demand allocator is the Company proposing in this proceeding?

Α.

Α.

The Company is proposing to continue using the 6 CP demand allocator, consistent with the 6 CP methodology found appropriate in Cause No. 44075 and that which was used by I&M in Cause No. 44967, the Company's most recent basic rate case. More specifically, the six months that were used to derive the production, transmission, and primary distribution demand allocation factors were the three summer months of June, July, and August and the three winter months of December, January, and February for the Test Year.

Q. Is the 6 CP demand allocator the most appropriate demand allocator to assign demand-related costs among the customer classes in this proceeding?

Yes. The 6 CP is the most appropriate demand allocator considering the load profile during the Test Year continues to reflect six monthly peaks, three during the summer and three during the winter. Coincident peak load data is provided in WP-DEH-10 CPDEM. The importance of these six months is that Company engineers plan and size equipment (e.g., poles, lines, and transformers) to meet customers' maximum expected demand on those facilities during the peak months in the summer and winter. The benefit of the 6 CP demand allocator is that each customer class is being allocated their fair share of demand costs based on their contributions to the average of the six monthly peaks during the Test Year.

- 1 Q. Please explain why it is reasonable to utilize a different demand allocator (6
- 2 CP) in the class cost-of-service study from what is used in a jurisdictional
- 3 **separation study.**
- 4 A. For class cost-of-service, one must consider the individual retail class load shapes
- 5 in addition to the jurisdictional load shape. It is the combination of the variability of
- 6 the load shapes by class and the seasonality of the retail class load shapes that
- 7 supports the Company's proposed 6 CP demand allocator as the best method to
- 8 allocate demand costs among the customer classes.

9 Q. How were the portions of the transmission plant allocated?

- 10 Α. The functional components of transmission plant were obtained directly from the 11 jurisdictional study and are classified as demand-related and allocated to the 12 classes based on their contribution to the average of the six monthly peak 13 demands on the power supply transmission (BULK_TRANS) and sub-transmission 14 systems (SUB TRANS), respectively. Generator step-up transformers are 15 included in transmission plant based on the FERC accounts, but are separately identified and allocated using the production demand allocation factor since they 16 17 are related to the production function.
- 18 Q. How are transmission costs and revenues treated in your cost-of-service19 study?
- A. As explained by Company witness Nollenberger and consistent with the previous two rate cases, the Company's traditional cost of transmission, net of the revenue the Company receives from PJM as a transmission owner, have been removed from the cost of service. WP-DEH-4 Transmission and Attachment MWN-1

calculates in total the transmission owner cost and revenue adjustment, while WP-MWN-1 determines the transmission owner cost and revenue adjustment for each customer class for revenue allocation purposes. The transmission costs that remain in the class cost-of-service study are those related to I&M's role as a PJM Load Serving Entity (LSE) as reflected in the jurisdictional cost-of-service study.

Q. How were the portions of distribution plant allocated?

Α.

Distribution plant is classified as demand- and customer-related and allocated to the customer classes using factors based on demand levels or number of customers. Distribution plant Accounts 360 through 368 were classified solely as demand-related for class allocation purposes. Accounts 360 (Land and Land Rights), Account 361 (Structures and Improvements), and Account 362 (Station Equipment) were allocated to the distribution customer classes based on their contributions to the average of I&M's six monthly peak demands on the primary distribution system (DIST_CPD).

Accounts 364 through 367, Overhead and Underground Lines, were split into primary and secondary voltage functions based upon information contained in the Company's records and the expertise of the Company's distribution engineers. The primary portions of Accounts 364 through 367 were allocated using the DIST_CPD, and the secondary component of Accounts 364 through 367 were allocated based on a combination of each class's 12-month maximum demand and the summation of individual customers' annual maximum demands (DIST_POLES, DIST_OHLINES, and DIST_UGLINES). This recognizes that

some secondary facilities serve only one customer, while others serve two or more customers.

Account 368, Distribution Transformers and Devices, was split into primary and secondary voltage functions based upon information contained in the Company's records and the expertise of the Company's distribution engineers as to the determination of the functional use of the equipment. The primary portion of Account 368 – cutouts, arresters, capacitors, voltage regulators, and network protectors – was allocated using the DIST_CPD allocator. The secondary portion – primary-to-secondary transformers – was allocated using the appropriate secondary voltage demand allocation factor, which is based on a combination of each class's 12-month maximum demand and the summation of individual customers' annual maximum demands (DIST_TRANSF).

Account 369, Services, was classified as customer-related and was allocated using the average number of secondary customers served (DIST_SERV).

Account 370, Meter Plant, was allocated using the average number of customers weighted by a factor that considers the cost differential of various metering installations (DIST_METERS). Account 371 was directly assigned to the outdoor lighting class (DIST_OL), and Account 373 was directly assigned to the street lighting class (DIST_SL).

- **Q. Has** the Company made the appropriate classification of distribution plant?
- 22 A. Yes. The method of classification of services and meters as customer-related and primary and secondary poles, lines, and transformers as demand-related is a

method that has been adopted in cases before this and other Commissions. This classification recognizes the standard engineering practice to plan the distribution facilities to meet the maximum expected demand on the system, not necessarily the number of customers being served by the facilities. It is more appropriate to classify services and meters as customer-related since a single service is required to serve each customer. For other distribution facilities, a diversified mix of commercial and residential customers will be served from those facilities. It is the customers' demand placed on those facilities that drives the size and cost of the distribution facilities, not the absolute number of customers served from those facilities. The benefit of the Company's approach in classifying distribution plant is that each customer class is being allocated its equitable share of distribution facilities based on contributions to peak demand associated with Accounts 360-368, and based on the number of customers with Accounts 369-373.

Q. How was the general and intangible portion of electric plant classified and allocated?

A. General and intangible plant investment was classified as labor-related. It was allocated to the customer classes on the basis of a payroll labor allocator (LABOR_M), constructed by first allocating the functional components of operation and maintenance (O&M) expense by the applicable class demand, energy, and customer allocation factors, and then summing the allocated components by class to create a set of labor expense ratios.

- Q. Please describe the allocation of Accumulated Provision for Depreciation
 and Amortization.
- A. The functionalized components of Accumulated Provision for Depreciation and
 Amortization were obtained directly from the jurisdictional study and classified and
 allocated in a fashion similar to Electric Plant in Service.
- 6 Q. Please describe the allocation of working capital.
- 7 A. Fuel inventory and allowances were allocated using the energy allocation factor 8 (PROD_ENERGY). The energy allocation factor allocates costs based on the loss adjusted class energy used during the period compared to the total energy used by all classes. The functional components of material and supplies were allocated on the corresponding plant items.
- 12 Q. How were the other rate base items functionalized, classified, and allocated?
- A. The rate base elements of prepaid pension expenses were functionalized, classified, and allocated on O&M labor expense. The balance of the deferred gain from the sale of Rockport Unit 2 Sales was classified as demand-related and allocated to the retail classes based on the production demand allocation factor.

 The individual components of other rate base items were allocated as well using internally and externally derived allocation factors deemed to best reflect the causative nature of the particular other rate base items.

ALLOCATION OF REVENUES, O&M, AND A&G EXPENSES

21 Q. How were revenues developed for each class?

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A. Forecasted sales revenue was directly assigned to each class. Demand-related system sales and interruptible sales revenues were allocated based on the

PROD_DEMAND allocation factor. Energy-related system sales and interruptible sales revenues were allocated based on the PROD_ENERGY allocation factor.

Forfeited discounts and miscellaneous service revenues were directly assigned based on an analysis of accounting records.

The functional components of rent from electric property and other electric revenue were obtained directly from the jurisdictional study and allocated to classes based on corresponding functional plant ratios.

8 Q. Please describe the allocation of production O&M expense.

Α.

Α.

Production-related O&M was classified as either demand- or energy-related in the jurisdictional study. The demand component was allocated using the production demand allocation factor (PROD_DEMAND) and the energy component was allocated using the energy allocation factor (PROD_ENERGY). Non-fuel nuclear O&M was allocated using the production demand allocation factor (PROD_DEMAND), and nuclear fuel expense was allocated using the energy allocation factor (PROD_ENERGY).

16 Q. Please describe the allocation of transmission O&M.

The functional components of transmission-related O&M were obtained directly from the jurisdictional study and classified as demand-related and allocated using the transmission demand allocation factor (TRAN_TO). O&M expense associated with generator step-up transformers was separately identified and allocated using the production demand allocation factor (PROD_DEMAND).

Q. Please describe the allocation of distribution O&M between the various
 customer classes.

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Distribution O&M expenses were functionalized and classified according to the associated distribution plant accounts and allocated accordingly. Accounts 581, Load Dispatching, and Account 582, Station Expenses, were allocated using the distribution demand allocation factor (DIST CPD). Account 583, Overhead Line Expense, was allocated based upon the same allocation used for plant Account 365, Overhead Lines (DIST_OHLINES). Account 584, Underground Line Expense, was allocated based upon the same allocation used for plant Accounts 366. Underground Conduit. and Account 367, Underground Lines (DIST UGLINES).

Account 585, Street Lighting and Signal System Expense, was classified as customer-related and directly assigned to the street lighting class. Meter Expense, Account 586, was classified customer-related and allocated in the same manner as meter plant. Account 587, Customer Installation Expense, was classified customer-related and allocated based on primary customers (DIST_PCUST).

Accounts 588 and 589 were allocated on total distribution plant and classified accordingly. Account 580, Operation Supervision and Engineering, was classified demand- and customer-related and allocated using the allocated subtotal of Accounts 581 through 589.

Account 591, Maintenance of Structures, and Account 592, Maintenance of Station Equipment, were classified as demand-related and allocated on the distribution demand allocation factor DIST_CPD. Account 593, Maintenance of

Overhead Lines, Account 594, Maintenance of Underground Lines, and Account 595, Maintenance of Line Transformers, were functionalized and classified according to the associated distribution plant accounts and allocated accordingly. Account 596, Maintenance of Street Lighting and Signal Systems, was classified customer-related and directly assigned to the street lighting class. Account 597, Maintenance of Meters, was classified customer-related and allocated in the same manner as meter plant. Account 598, Maintenance of Miscellaneous Distribution Plant, was classified customer-related and directly assigned to the outdoor lighting class. Account 590, Maintenance Supervision and Engineering, was classified and allocated based on the sum of the allocated O&M expense Accounts 591 through 598.

Α.

Q. Please explain how customer accounting (Accounts 901-905), customer services, and sales expense (Accounts 907-912) were allocated?

Account 902, Meter Reading Expense, was allocated to those classes with meter installations based upon an average number of customers weighted to reflect differences in meter reading requirements. Customer Records Expense, Account 903 was divided into two categories of cost which included the call center and other. Call center costs were first split into residential and other based on the actual number of calls received by the call center and then other call center expenses were allocated based on the number of customers. Account 904, Uncollectibles, was allocated based on revenue for each class. Accounts 901 and 905 were allocated based on the sum of the allocated Accounts 902, 903, and 904. Accounts 907-912 were allocated using the allocated total of Accounts 901-905.

1		All customer accounting, customer services, and sales expense accounts were
2		classified as customer-related.
3	Q.	Please describe the allocation of A&G expense.
4	A.	The regulatory expense associated with the Nuclear Regulatory Commission
5		(NRC) was allocated based on the production demand allocation factor. The
6		functional components of property insurance were taken directly from the
7		jurisdictional study and allocated based on the appropriate plant allocation factor.
8		The regulatory expense associated with retail rate case proceedings and all other
9		A&G expenses were allocated based on payroll labor.
10		ALLOCATION OF DEPRECIATION AND TAXES
11	Q.	Please describe the allocation of depreciation and amortization expense.
12	A.	The functionalized components of depreciation and amortization expense were
13		allocated using the corresponding plant items.
14	Q.	How were other regulatory expense items allocated?
15	A.	The functional components of regulatory debit and credit expense were obtained
16		directly from the jurisdictional study and allocated using the appropriate plant
17		allocation factor.
18	Q.	How were taxes assigned to the retail classes?
19	A.	Individual other tax items were allocated and classified using the appropriate
20		demand, revenue, or plant allocator.
21		Interest expense was calculated on rate base and individual Schedule M
22		items were allocated using the appropriate allocators. State and current Federal
23		income taxes were computed by class. Deferred Federal Income Tax and

- Deferred Investment Tax Credit were allocated using the appropriate allocation factors.
- Q. Were any allocation factor additions required in the I&M Indiana class cost-ofservice study as a result of Company witness Duncan adding four new demand and energy allocation factors in the jurisdictional cost-of-service study?
- A. No. None of the allocation factors in the class cost-of-service study were affected by changes or additions to allocation factors in the jurisdictional cost-of-service study.

EARNED RETURNS

- 10 Q. Please summarize the resulting earned rate of return for each class shown in the11 class cost-of-service study.
- 12 A. The resulting earned rates of return for the class cost-of-service study under
 13 Attachment DEH-1 are shown on Figure DEH-3:

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Figure DEH-3
Rates of Return for Projected Class Cost-of-Service Study

Customer Class	Rate of Return
Residential	3.18%
General Service	4.38%
Large General Service	3.48%
Industrial Power	2.93%
Municipal and School Service	3.55%
Water and Sewage Service	4.01%
Electric Heating General	5.38%
Irrigation Service	11.38%
Outdoor Lighting	8.53%
Street Lighting	11.27%
Total I&M Jurisdictional Class	3.41%

1	Q.	How are these rates of	freturn used in this	proceeding?
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2 A. Company witness Nollenberger utilized the earned rates of return for each class as an input for the allocation of the revenue increase required for each class.

PHASE-IN RATE ADJUSTMENT (PRA) COST-OF-SERVICE STUDY

- Q. Please describe the additional cost-of-service study you completed related
 to the Forecasted Plant Credit Phase-In Rate Adjustment (PRA) mechanism.
- A. In addition to the Test Year class cost-of-service study (Attachment DEH-1)
 developed in this filing, I performed an additional class cost-of-service study in
 support of the Company's proposed PRA mechanism, which is supported by
 Company witness Duncan. This additional cost-of-service study is shown in
 Workpaper WP-DEH-17. It uses as its inputs the PRA jurisdictional separation
 study prepared by Company witness Duncan.
- 13 Q. How did you complete this additional cost-of-service study in support of the14 PRA?
- 15 A. I prepared the additional cost-of-service study shown on WP-DEH-17 in a manner
 16 that was consistent with the Test Year class cost-of-service study shown on
 17 Attachment DEH-1. All differences between this additional study and Attachment
 18 DEH-1 are due to the different inputs provided by the jurisdictional separation
 19 studies supported by Company witness Duncan.

20 <u>CONCLUSION</u>

- 21 Q. Please summarize your testimony in this proceeding.
- A. My testimony describes the class cost-of-service allocation study for the Test Year and presents the resulting class-by-class rates of return. The cost allocation

methods used to prepare the study meet the criteria identified in my testimony and assign costs to the cost causers. The class cost-of-service study equitably allocates costs among the customer classes based on contributions to demand and energy levels and number of customers.

The results of the study help guide the allocation of the proposed changes in sales revenue to each customer class, as explained by Company witness Nollenberger.

- 8 Q. Does this conclude your pre-filed verified direct testimony?
- 9 A. Yes.

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VERIFICATION

I, Daniel E. High, Staff Regulatory Consultant in the Regulatory Pricing & Analysis Department of American Electric Power Service Corporation (AEPSC), affirm under penalties of perjury that the foregoing representations are true and correct to the best of my knowledge, information, and belief.

Date: 5-3-19

Daniel E. High

		Allocation		Total		Total	Total	Total		Total				
<u>Label</u>	Constant	<u>Factor</u>	Function	Retail	<u>RS</u>	GS	<u>LGS</u>	<u>IP</u>	<u>MS</u>	WSS	EHG	<u>IS</u>	<u>OL</u>	SL
<u>=5.0-0-1</u>	<u></u>	<u></u>	<u> </u>	1	2				14	<u></u>	18	19	20	21
Base														
-T-D Plant in Service														
Production														
Demand	3,542,591,993	PROD_DEMAND	TOTAL	3,542,591,993	1,482,807,921	445,923,224	740,974,629	832,441,260	9,640,664	27,101,471	1,953,989	145,847	601,997	1,000
GSU	40,767,880	PROD_DEMAND	TOTAL	40,767,880	17,064,041	5,131,651	8,527,080	9,579,671	110,944	311,882	22,486	1,678	6,928	11
Total	3,583,359,872		TOTAL	3,583,359,872	1,499,871,962	451,054,875	749,501,708	842,020,931	9,751,608	27,413,353	1,976,476	147,526	608,925	1,012
	, , ,						, ,			, ,	, ,	,	•	,
Transmission														
Transmission	1,201,415,364	TRAN TO	TOTAL	1,201,415,364	522,168,419	141,181,538	245,891,721	276,940,981	3,011,758	9,602,980	647,527	47,650	727,654	1,19
Total	1,201,415,364		TOTAL	1,201,415,364	522,168,419	141,181,538	245,891,721	276,940,981	3,011,758	9,602,980	647,527	47,650	727,654	1,19
Total	1,201,110,001		101712	1,201,110,001	022,100,110	111,101,000	210,001,721	270,010,001	0,011,700	0,002,000	017,027	17,000	727,001	1,10
Distribution														
360 Land and Land Rights	20,747,275	DIST CPD	TOTAL	20,747,275	10,528,854	2,290,189	4,414,053	3,200,411	47,313	167,607	11,637	831	32,747	5
361 Structures and Improvements	30,110,030		TOTAL	30,110,030	15,280,277	3,323,697	6,406,011	4,644,680	68,665	243,244	16,889	1,205	47,525	7
362 Station Equipment	355,555,741		TOTAL	355,555,741	180,437,889	39,248,035	75,645,685	54,846,931	810,829	2,872,357	199,433	14,233	561,200	91
		DIST_POLES	TOTAL		3,069,000	696,978	· · ·	632,456	15,186	40,747	3,327	1,082	12,469	9
363 Storage Battery Equipment 364 Poles		DIST_POLES DIST_POLES	TOTAL	5,606,730			1,116,395	,	,	,	· · · · · · · · · · · · · · · · · · ·	•		
				259,463,715	142,024,671	32,254,184	51,663,637	29,268,287	702,754	1,885,664	153,950	50,089	577,053	88
365 Overhead Lines		DIST_OHLINES	TOTAL	404,864,915	223,808,740	51,095,204	79,865,358	43,389,622	1,120,117	2,897,763	242,006	86,576	935,945	1,42
366 Underground Conduit		DIST_UGLINES	TOTAL	136,575,471	76,489,573	17,582,104	26,602,786	13,607,347	388,486	957,379	82,443	33,005	331,763	5
367 Underground Lines		DIST_UGLINES	TOTAL	270,099,434	151,270,139	34,771,372	52,611,185	26,910,665	768,292	1,893,367	163,044	65,273	656,113	9
368 Transformers		DIST_TRANSF	TOTAL	342,418,503	206,294,062	49,150,105	61,734,501	19,027,749	1,129,795	2,105,147	218,504	138,445	1,066,787	1,5
369 Services	183,960,290		TOTAL	183,960,290	155,440,720	17,600,317	1,683,777	29,418	112,782	138,908	48,401	11,333	8,518,023	3
370 Meters		DIST_METERS	TOTAL	85,751,590	47,155,470	25,004,203	9,187,363	2,784,159	345,351	685,694	114,707	47,118	-	4
371 Installations on Cust Premises	22,851,697	DIST_OL	TOTAL	22,851,697	-	-	-	-	-	-	-	-	22,851,697	
373 Street Lighting	19,873,534	DIST_SL	TOTAL	19,873,534	-	-	-	-	-	-	-	-	-	19,8
Total	2,137,878,926		TOTAL	2,137,878,926	1,211,799,396	273,016,387	370,930,751	198,341,725	5,509,569	13,887,876	1,254,341	449,191	35,591,323	27,0
otal P-T-D Plant in Service	6,922,654,163		TOTAL	6,922,654,163	3,233,839,777	865,252,800	1,366,324,181	1,317,303,637	18,272,935	50,904,209	3,878,343	644,366	36,927,902	29,30
eneral & Intangible Plant	324,466,279	LABOR_M	TOTAL	324,466,279	149,467,392	39,692,233	62,825,396	67,741,200	825,843	2,358,965	172,643	19,920	976,123	38
		_		, ,	, ,	, ,	, ,		,	, ,	,	,	•	
otal Electric Plant in Service	7,247,120,442		TOTAL	7,247,120,442	3,383,307,169	904,945,034	1,429,149,577	1,385,044,836	19,098,778	53,263,174	4,050,986	664,286	37,904,024	29,69
	.,,,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,000,007,100		.,,	1,000,011,000		33,233,111	.,,	.,	01,001,021	
lectric Utility Plant	7,247,120,442		TOTAL	7,247,120,442	3,383,307,169	904,945,034	1,429,149,577	1,385,044,836	19,098,778	53,263,174	4,050,986	664,286	37,904,024	29,69
	7,217,120,112		101712	7,217,120,112	0,000,007,100	001,010,001	1, 120, 110,011	1,000,011,000	10,000,110	00,200,111	1,000,000	001,200	07,001,021	20,00
ccum. Depreciation and Amortization														
Steam & Hydro	(431.782.881)	RB_GUP_EPIS_P	TOTAL	(431,782,881)	(180,729,555)	(54,350,604)	(90,312,449)	(101,460,706)	(1,175,036)	(3,303,217)	(238,159)	(17,776)	(73,373)	(1)
Nuclear	, , , , , , , , , , , , , , , , , , , ,	RB_GUP_EPIS_P	TOTAL	(1,018,856,882)	(426,458,666)	(128,248,454)	(213,105,856)	(239,411,851)	(2,772,675)	(7,794,440)	(561,971)	(41,946)	(173,136)	
ARO Steam & Hydro	, , , , , , , , , , , , , , , , , , , ,	RB_GUP_EPIS_P	TOTAL	(1,010,000,002)	(420,400,000)	(120,240,404)	(210,100,000)	(200,411,001)	(2,772,070)	(1,104,440)	(501,571)	(+1,0+0)	(170,100)	(2
ARO Nuclear	_	RB_GUP_EPIS_P	TOTAL		-	-	_	-				_		
	(40,000,504)			(40,000,504)	(5.000.404)	(4.545.400)	(0.547.500)	(0.000.000)	(00.750)	(00,000)	(0.000)	(400)	(0.045)	
GSU		RB_GUP_EPIS_P	TOTAL	(12,036,581)	(5,038,101)	(1,515,103)	(2,517,592)	(2,828,366)	(32,756)	(92,082)	(6,639)	(496)	(2,045)	/0
Transmission	(354,713,898)		TOTAL	(354,713,898)	(154,168,492)	(41,683,380)	(72,598,714)	(81,765,905)	(889,212)	(2,835,248)	(191,180)	(14,068)	(214,837)	(3
Distribution	•	RB_GUP_EPIS_D	TOTAL	(585,525,838)	(331,889,635)	(74,774,183)	(101,591,131)	(54,322,162)	(1,508,970)	(3,803,635)	(343,541)	(123,025)	(9,747,811)	
General & Intangible	*	RB_GUP_EPIS_G	TOTAL	(122,871,797)	(56,601,651)	(15,031,010)	(23,791,284)	(25,652,844)	(312,738)	(893,314)	(65,378)	(7,543)	(369,647)	
Total	(2,525,787,876)		TOTAL	(2,525,787,876)	(1,154,886,101)	(315,602,734)	(503,917,027)	(505,441,834)	(6,691,386)	(18,721,936)	(1,406,868)	(204,855)	(10,580,849)	(8,3
			Ι Τ	T										
								070 000 000	40 407 000	34,541,238	2,644,118	459,431	27,323,175	21,3
et Electric Plant in Service	4,721,332,565		TOTAL	4,721,332,565	2,228,421,068	589,342,300	925,232,550	879,603,002	12,407,392	34,341,236	,- , -			
	4,721,332,565		TOTAL	4,721,332,565	2,228,421,068	589,342,300	925,232,550	879,603,002	12,407,392	34,541,236				
	4,721,332,565		TOTAL	4,721,332,565	2,228,421,068	589,342,300	925,232,550	879,603,002	12,407,392	34,341,230	,- , -			
/orking Capital														
	23,146,671	PROD_ENERGY	TOTAL	4,721,332,565 23,146,671	2,228,421,068 7,973,862	589,342,300 2,399,117	925,232,550 5,381,120	6,881,006	12,407,392	256,632	11,149	1,426	71,399	1
orking Capital	23,146,671	PROD_ENERGY PROD_ENERGY										1,426 1,050	71,399 52,573	
orking Capital Fuel Inventory	23,146,671 17,043,356	_	TOTAL	23,146,671	7,973,862	2,399,117	5,381,120	6,881,006	56,697	256,632	11,149	•		
Fuel Inventory Allowance Inventory-Current	23,146,671 17,043,356 101,031,264	PROD_ENERGY RB_GUP_EPIS_P	TOTAL TOTAL	23,146,671 17,043,356	7,973,862 5,871,314	2,399,117 1,766,518	5,381,120 3,962,226	6,881,006 5,066,622 23,740,412	56,697 41,747	256,632 188,963	11,149 8,209	1,050	52,573	
Fuel Inventory Allowance Inventory-Current Materials & Supplies - Prod Materials & Supplies - Trans	23,146,671 17,043,356 101,031,264 6,147,446	PROD_ENERGY RB_GUP_EPIS_P RB_GUP_EPIS_T	TOTAL TOTAL TOTAL TOTAL	23,146,671 17,043,356 101,031,264 6,147,446	7,973,862 5,871,314 42,288,234 2,671,851	2,399,117 1,766,518 12,717,295 722,403	5,381,120 3,962,226 21,131,873 1,258,188	6,881,006 5,066,622 23,740,412 1,417,062	56,697 41,747 274,942 15,411	256,632 188,963 772,907 49,137	11,149 8,209 55,726 3,313	1,050 4,159 244	52,573 17,168 3,723	
Fuel Inventory Allowance Inventory-Current Materials & Supplies - Prod Materials & Supplies - Trans Materials & Supplies - Dist	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401	PROD_ENERGY RB_GUP_EPIS_P	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401	7,973,862 5,871,314 42,288,234 2,671,851 5,459,869	2,399,117 1,766,518 12,717,295 722,403 1,230,099	5,381,120 3,962,226 21,131,873 1,258,188 1,671,261	6,881,006 5,066,622 23,740,412 1,417,062 893,646	56,697 41,747 274,942 15,411 24,824	256,632 188,963 772,907 49,137 62,573	11,149 8,209 55,726 3,313 5,652	1,050 4,159 244 2,024	52,573 17,168 3,723 160,360	1
orking Capital Fuel Inventory Allowance Inventory-Current Materials & Supplies - Prod Materials & Supplies - Trans Materials & Supplies - Dist	23,146,671 17,043,356 101,031,264 6,147,446	PROD_ENERGY RB_GUP_EPIS_P RB_GUP_EPIS_T	TOTAL TOTAL TOTAL TOTAL	23,146,671 17,043,356 101,031,264 6,147,446	7,973,862 5,871,314 42,288,234 2,671,851	2,399,117 1,766,518 12,717,295 722,403	5,381,120 3,962,226 21,131,873 1,258,188	6,881,006 5,066,622 23,740,412 1,417,062	56,697 41,747 274,942 15,411	256,632 188,963 772,907 49,137	11,149 8,209 55,726 3,313	1,050 4,159 244	52,573 17,168 3,723	1
orking Capital Fuel Inventory Allowance Inventory-Current Materials & Supplies - Prod Materials & Supplies - Trans Materials & Supplies - Dist otal Working Capital	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401	PROD_ENERGY RB_GUP_EPIS_P RB_GUP_EPIS_T	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401	7,973,862 5,871,314 42,288,234 2,671,851 5,459,869	2,399,117 1,766,518 12,717,295 722,403 1,230,099	5,381,120 3,962,226 21,131,873 1,258,188 1,671,261	6,881,006 5,066,622 23,740,412 1,417,062 893,646	56,697 41,747 274,942 15,411 24,824	256,632 188,963 772,907 49,137 62,573	11,149 8,209 55,726 3,313 5,652	1,050 4,159 244 2,024	52,573 17,168 3,723 160,360	1
orking Capital Fuel Inventory Allowance Inventory-Current Materials & Supplies - Prod Materials & Supplies - Trans Materials & Supplies - Dist otal Working Capital ate Base Offsets	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138	PROD_ENERGY RB_GUP_EPIS_P RB_GUP_EPIS_T RB_GUP_EPIS_D	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138	7,973,862 5,871,314 42,288,234 2,671,851 5,459,869 64,265,130	2,399,117 1,766,518 12,717,295 722,403 1,230,099 18,835,431	5,381,120 3,962,226 21,131,873 1,258,188 1,671,261 33,404,669	6,881,006 5,066,622 23,740,412 1,417,062 893,646 37,998,747	56,697 41,747 274,942 15,411 24,824 413,622	256,632 188,963 772,907 49,137 62,573 1,330,213	11,149 8,209 55,726 3,313 5,652 84,049	1,050 4,159 244 2,024 8,903	52,573 17,168 3,723 160,360 305,223	1
Fuel Inventory Allowance Inventory-Current Materials & Supplies - Prod Materials & Supplies - Trans Materials & Supplies - Dist Otal Working Capital ate Base Offsets Cook Plant Turbine Replacement (1823308)	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138	PROD_ENERGY RB_GUP_EPIS_P RB_GUP_EPIS_T RB_GUP_EPIS_D	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138	7,973,862 5,871,314 42,288,234 2,671,851 5,459,869 64,265,130	2,399,117 1,766,518 12,717,295 722,403 1,230,099 18,835,431	5,381,120 3,962,226 21,131,873 1,258,188 1,671,261 33,404,669	6,881,006 5,066,622 23,740,412 1,417,062 893,646 37,998,747	56,697 41,747 274,942 15,411 24,824 413,622	256,632 188,963 772,907 49,137 62,573 1,330,213	11,149 8,209 55,726 3,313 5,652 84,049	1,050 4,159 244 2,024 8,903	52,573 17,168 3,723 160,360 305,223	1
Fuel Inventory Allowance Inventory-Current Materials & Supplies - Prod Materials & Supplies - Trans Materials & Supplies - Dist Materials & Supplies - Dist Materials & Supplies - Dist Took Plant Turbine Replacement (1823308) Rockport DSI Deferrals	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138 15,600,998 9,974,714	PROD_ENERGY RB_GUP_EPIS_P RB_GUP_EPIS_T RB_GUP_EPIS_D PROD_DEMAND PROD_DEMAND	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138 15,600,998 9,974,714	7,973,862 5,871,314 42,288,234 2,671,851 5,459,869 64,265,130 6,530,045 4,175,074	2,399,117 1,766,518 12,717,295 722,403 1,230,099 18,835,431 1,963,773 1,255,566	5,381,120 3,962,226 21,131,873 1,258,188 1,671,261 33,404,669 3,263,132 2,086,328	6,881,006 5,066,622 23,740,412 1,417,062 893,646 37,998,747 3,665,936 2,343,867	56,697 41,747 274,942 15,411 24,824 413,622 42,456 27,145	256,632 188,963 772,907 49,137 62,573 1,330,213 119,350 76,308	11,149 8,209 55,726 3,313 5,652 84,049 8,605 5,502	1,050 4,159 244 2,024 8,903 642 411	52,573 17,168 3,723 160,360 305,223 2,651 1,695	1
Fuel Inventory Allowance Inventory-Current Materials & Supplies - Prod Materials & Supplies - Trans Materials & Supplies - Dist Otal Working Capital Ate Base Offsets Cook Plant Turbine Replacement (1823308) Rockport DSI Deferrals Rate Case Expense Deferral (1823xxx)	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138 15,600,998 9,974,714 776,941	PROD_ENERGY RB_GUP_EPIS_P RB_GUP_EPIS_T RB_GUP_EPIS_D PROD_DEMAND PROD_DEMAND LABOR_M	TOTAL	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138 15,600,998 9,974,714 776,941	7,973,862 5,871,314 42,288,234 2,671,851 5,459,869 64,265,130 6,530,045 4,175,074 357,903	2,399,117 1,766,518 12,717,295 722,403 1,230,099 18,835,431 1,963,773 1,255,566 95,044	5,381,120 3,962,226 21,131,873 1,258,188 1,671,261 33,404,669 3,263,132 2,086,328 150,437	6,881,006 5,066,622 23,740,412 1,417,062 893,646 37,998,747 3,665,936 2,343,867 162,208	56,697 41,747 274,942 15,411 24,824 413,622 42,456 27,145 1,977	256,632 188,963 772,907 49,137 62,573 1,330,213 119,350 76,308 5,649	11,149 8,209 55,726 3,313 5,652 84,049 8,605 5,502 413	1,050 4,159 244 2,024 8,903 642 411 48	52,573 17,168 3,723 160,360 305,223 2,651 1,695 2,337	1 3
orking Capital Fuel Inventory Allowance Inventory-Current Materials & Supplies - Prod Materials & Supplies - Trans Materials & Supplies - Dist otal Working Capital ate Base Offsets Cook Plant Turbine Replacement (1823308) Rockport DSI Deferrals Rate Case Expense Deferral (1823xxx) Prepaid Pension Expense	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138 15,600,998 9,974,714 776,941 64,018,690	PROD_ENERGY RB_GUP_EPIS_P RB_GUP_EPIS_T RB_GUP_EPIS_D PROD_DEMAND PROD_DEMAND LABOR_M LABOR_M	TOTAL	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138 15,600,998 9,974,714 776,941 64,018,690	7,973,862 5,871,314 42,288,234 2,671,851 5,459,869 64,265,130 6,530,045 4,175,074 357,903 29,490,604	2,399,117 1,766,518 12,717,295 722,403 1,230,099 18,835,431 1,963,773 1,255,566 95,044 7,831,460	5,381,120 3,962,226 21,131,873 1,258,188 1,671,261 33,404,669 3,263,132 2,086,328 150,437 12,395,740	6,881,006 5,066,622 23,740,412 1,417,062 893,646 37,998,747 3,665,936 2,343,867 162,208 13,365,650	56,697 41,747 274,942 15,411 24,824 413,622 42,456 27,145 1,977 162,943	256,632 188,963 772,907 49,137 62,573 1,330,213 119,350 76,308 5,649 465,435	11,149 8,209 55,726 3,313 5,652 84,049 8,605 5,502 413 34,063	1,050 4,159 244 2,024 8,903 642 411 48 3,930	52,573 17,168 3,723 160,360 305,223 2,651 1,695 2,337 192,594	1 3
orking Capital Fuel Inventory Allowance Inventory-Current Materials & Supplies - Prod Materials & Supplies - Trans Materials & Supplies - Dist otal Working Capital ate Base Offsets Cook Plant Turbine Replacement (1823308) Rockport DSI Deferrals Rate Case Expense Deferral (1823xxx)	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138 15,600,998 9,974,714 776,941 64,018,690	PROD_ENERGY RB_GUP_EPIS_P RB_GUP_EPIS_T RB_GUP_EPIS_D PROD_DEMAND PROD_DEMAND LABOR_M	TOTAL	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138 15,600,998 9,974,714 776,941	7,973,862 5,871,314 42,288,234 2,671,851 5,459,869 64,265,130 6,530,045 4,175,074 357,903	2,399,117 1,766,518 12,717,295 722,403 1,230,099 18,835,431 1,963,773 1,255,566 95,044	5,381,120 3,962,226 21,131,873 1,258,188 1,671,261 33,404,669 3,263,132 2,086,328 150,437	6,881,006 5,066,622 23,740,412 1,417,062 893,646 37,998,747 3,665,936 2,343,867 162,208	56,697 41,747 274,942 15,411 24,824 413,622 42,456 27,145 1,977	256,632 188,963 772,907 49,137 62,573 1,330,213 119,350 76,308 5,649	11,149 8,209 55,726 3,313 5,652 84,049 8,605 5,502 413	1,050 4,159 244 2,024 8,903 642 411 48	52,573 17,168 3,723 160,360 305,223 2,651 1,695 2,337	1 3
Fuel Inventory Allowance Inventory-Current Materials & Supplies - Prod Materials & Supplies - Trans Materials & Supplies - Dist Otal Working Capital Ate Base Offsets Cook Plant Turbine Replacement (1823308) Rockport DSI Deferrals Rate Case Expense Deferral (1823xxx) Prepaid Pension Expense	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138 15,600,998 9,974,714 776,941 64,018,690 (5,061,526)	PROD_ENERGY RB_GUP_EPIS_P RB_GUP_EPIS_T RB_GUP_EPIS_D PROD_DEMAND PROD_DEMAND LABOR_M LABOR_M	TOTAL	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138 15,600,998 9,974,714 776,941 64,018,690	7,973,862 5,871,314 42,288,234 2,671,851 5,459,869 64,265,130 6,530,045 4,175,074 357,903 29,490,604	2,399,117 1,766,518 12,717,295 722,403 1,230,099 18,835,431 1,963,773 1,255,566 95,044 7,831,460	5,381,120 3,962,226 21,131,873 1,258,188 1,671,261 33,404,669 3,263,132 2,086,328 150,437 12,395,740	6,881,006 5,066,622 23,740,412 1,417,062 893,646 37,998,747 3,665,936 2,343,867 162,208 13,365,650	56,697 41,747 274,942 15,411 24,824 413,622 42,456 27,145 1,977 162,943	256,632 188,963 772,907 49,137 62,573 1,330,213 119,350 76,308 5,649 465,435	11,149 8,209 55,726 3,313 5,652 84,049 8,605 5,502 413 34,063	1,050 4,159 244 2,024 8,903 642 411 48 3,930	52,573 17,168 3,723 160,360 305,223 2,651 1,695 2,337 192,594	1 3
Fuel Inventory Allowance Inventory-Current Materials & Supplies - Prod Materials & Supplies - Trans Materials & Supplies - Dist total Working Capital ate Base Offsets Cook Plant Turbine Replacement (1823308) Rockport DSI Deferrals Rate Case Expense Deferral (1823xxx) Prepaid Pension Expense Deferred Gain Rockport Unit 2 Sale	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138 15,600,998 9,974,714 776,941 64,018,690 (5,061,526) 19,706,028	PROD_ENERGY RB_GUP_EPIS_P RB_GUP_EPIS_T RB_GUP_EPIS_D PROD_DEMAND PROD_DEMAND LABOR_M LABOR_M PROD_DEMAND	TOTAL	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138 15,600,998 9,974,714 776,941 64,018,690 (5,061,526)	7,973,862 5,871,314 42,288,234 2,671,851 5,459,869 64,265,130 6,530,045 4,175,074 357,903 29,490,604 (2,118,582)	2,399,117 1,766,518 12,717,295 722,403 1,230,099 18,835,431 1,963,773 1,255,566 95,044 7,831,460 (637,119)	5,381,120 3,962,226 21,131,873 1,258,188 1,671,261 33,404,669 3,263,132 2,086,328 150,437 12,395,740 (1,058,677)	6,881,006 5,066,622 23,740,412 1,417,062 893,646 37,998,747 3,665,936 2,343,867 162,208 13,365,650 (1,189,362)	56,697 41,747 274,942 15,411 24,824 413,622 42,456 27,145 1,977 162,943 (13,774)	256,632 188,963 772,907 49,137 62,573 1,330,213 119,350 76,308 5,649 465,435 (38,722)	11,149 8,209 55,726 3,313 5,652 84,049 8,605 5,502 413 34,063 (2,792)	1,050 4,159 244 2,024 8,903 642 411 48 3,930 (208)	52,573 17,168 3,723 160,360 305,223 2,651 1,695 2,337 192,594 (860)	1 3 3
Fuel Inventory Allowance Inventory-Current Materials & Supplies - Prod Materials & Supplies - Trans Materials & Supplies - Dist Otal Working Capital ate Base Offsets Cook Plant Turbine Replacement (1823308) Rockport DSI Deferrals Rate Case Expense Deferral (1823xxx) Prepaid Pension Expense Deferred Gain Rockport Unit 2 Sale Cook Uprate Project Deferral (1823418)	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138 15,600,998 9,974,714 776,941 64,018,690 (5,061,526) 19,706,028 7,060,556	PROD_ENERGY RB_GUP_EPIS_P RB_GUP_EPIS_T RB_GUP_EPIS_D PROD_DEMAND PROD_DEMAND LABOR_M LABOR_M PROD_DEMAND PROD_DEMAND PROD_DEMAND	TOTAL	23,146,671 17,043,356 101,031,264 6,147,446 9,632,401 157,001,138 15,600,998 9,974,714 776,941 64,018,690 (5,061,526) 19,706,028	7,973,862 5,871,314 42,288,234 2,671,851 5,459,869 64,265,130 6,530,045 4,175,074 357,903 29,490,604 (2,118,582) 8,248,270	2,399,117 1,766,518 12,717,295 722,403 1,230,099 18,835,431 1,963,773 1,255,566 95,044 7,831,460 (637,119) 2,480,493	5,381,120 3,962,226 21,131,873 1,258,188 1,671,261 33,404,669 3,263,132 2,086,328 150,437 12,395,740 (1,058,677) 4,121,747	6,881,006 5,066,622 23,740,412 1,417,062 893,646 37,998,747 3,665,936 2,343,867 162,208 13,365,650 (1,189,362) 4,630,539	56,697 41,747 274,942 15,411 24,824 413,622 42,456 27,145 1,977 162,943 (13,774) 53,627	256,632 188,963 772,907 49,137 62,573 1,330,213 119,350 76,308 5,649 465,435 (38,722) 150,755	11,149 8,209 55,726 3,313 5,652 84,049 8,605 5,502 413 34,063 (2,792) 10,869	1,050 4,159 244 2,024 8,903 642 411 48 3,930 (208) 811	52,573 17,168 3,723 160,360 305,223 2,651 1,695 2,337 192,594 (860) 3,349	1 3

		Allocation		Total		Total	Total	Total		Total				
<u>Label</u>	<u>Constant</u>	<u>Factor</u>	<u>Function</u>	<u>Retail</u>	<u>RS</u>	<u>GS</u>	<u>LGS</u>	<u>IP</u>	MS	<u>WSS</u>	EHG	<u>IS</u>	<u>OL</u>	<u>SL</u>
				1	2				14		18	19	20	21
0 0 0 (0510100) 0	(0.500.075)	DIOT OLUMBIA	TOTAL	(0.500.075)	(4.404.400)	(222 727)	(510 510)	(077, 400)	(7.400)	(40.500)	(4.540)	(55.4)	(5.005)	/0
Over Recovered Storm Expense (2540123) - Direct	, , , ,	DIST_OHLINES	TOTAL	(2,588,975)	(1,431,182)	(326,737)	(510,712)	(277,462)	(7,163)	(18,530)	(1,548)	(554)	(5,985)	(9
Total	68,628,497		TOTAL	68,628,497	28,883,908	8,454,365	13,928,890	16,777,506	179,190	515,512	36,130	1,366	(42,776)	(105
Isl Data Dasa	4.040.000.004		TOTAL	4 0 40 000 004	0.004.570.405	040,000,000	070 500 400	004 070 055	42,000,004	20, 200, 200	0.704.007	400 700	07.505.000	04.007
tal Rate Base	4,946,962,201		TOTAL	4,946,962,201	2,321,570,105	616,632,096	972,566,108	934,379,255	13,000,204	36,386,963	2,764,297	469,700	27,585,622	21,607
erating Bevenues														
erating Revenues Firm Sales of Electricity	1,148,678,098	DCALE	TOTAL	1,148,678,098	500,722,762	149,660,353	233,811,510	239,751,610	3,058,727	9,222,581	701,451	137,952	6,169,229	5,441
Firm Sales of Electricity	1,140,070,090	KSALE	TOTAL	1,140,070,090	500,722,762	149,000,353	233,611,510	239,751,610	3,056,727	9,222,361	701,451	137,952	6,169,229	5,441
Interruptible														
Demand	1,372,861	PROD_DEMAND	TOTAL	1,372,861	574,633	172,809	287,150	322,596	3,736	10,503	757	57	233	
Energy	· · ·	PROD_ENERGY	TOTAL	92,972,152	32,028,241	9,636,420	21,614,095	27,638,615	227,734	1,030,803	44,783	5,727	286,785	458
Interruptible - Indiana Specific	92,972,102	PROD_ENERGY	TOTAL	-	52,020,241	3,030,420	21,014,033	27,000,010	221,134	1,030,003	,705	5,727	200,703	70
Total	94,345,014	TROD_ENEROT	TOTAL	94,345,014	32,602,874	9,809,229	21,901,246	27,961,211	231,470	1,041,306	45,540	5,783	287,018	45
Total	34,040,014		TOTAL	34,343,014	32,002,014	3,003,223	21,301,240	21,301,211	231,470	1,041,300	+3,5+0	3,703	201,010	70
Sales for Resale														
Demand	_	PROD_DEMAND	TOTAL	_	_	_	_		_	_		_		
Energy	124,696,131	PROD_ENERGY	TOTAL	124,696,131	42,956,925	12,924,562	28,989,262	37,069,469	305,441	1,382,534	60,064	7,681	384,642	61
Total	124,696,131	TROD_ENEROT	TOTAL	124,696,131	42,956,925	12,924,562	28,989,262	37,069,469	305,441	1,382,534	60,064	7,681	384,642	61
Total	124,000,101		TOTAL	124,000,101	42,000,020	12,024,002	20,000,202	07,000,400	000,441	1,002,004	00,004	7,001	004,042	01
Other Operating Revenues														
Forfeited Discounts (Acct. 450)	4 545 659	FORF_DISC	TOTAL	4,545,659	3,383,383	678,425	319,776	141,585	725	7,703	2,511	_	9,243	
Miscellaneous Service Revenue (Acct. 451)		MISC_SERV_REV	TOTAL	4,181,510	3,921,510	245,158	8,236	3,451	-	803	143	_	1,321	
Rent Assoc Co - Prod		RB GUP EPIS P	TOTAL	2,256	944	284	472	530	6	17	1	0	0	
Rent Assoc Co - Trans	,	RB_GUP_EPIS_T	TOTAL	525,404	228,355	61,742	107,534	121,112	1,317	4,200	283	21	318	
Rent Assoc Co - Dist	•	RB_GUP_EPIS_D	TOTAL	2,672,731	1,514,966	341,319	463,730	247,963	6,888	17,362	1,568	562	44,496	3
Rent Non-Assoc Co - Prod		RB_GUP_EPIS_P	TOTAL	336,491	140,843	42,356	70,381	79,069	916	2,574	186	14	57	`
Rent Non-Assoc Co - Trans		RB_GUP_EPIS_T	TOTAL	57,694	25,075	6,780	11,808	13,299	145	461	31	2	35	
Rent Non-Assoc Co - Dist		RB_GUP_EPIS_D	TOTAL	(5,651)	(3,203)	(722)	(980)	(524)	(15)	(37)	(3)	(1)	(94)	
Rent ABD - Trans		RB_GUP_EPIS_T	TOTAL	256,913	111,661	30,190	52,582	59,222	644	2,054	138	10	156	
Rent ABD - Dist		RB_GUP_EPIS_D	TOTAL	3,318,310	1,880,895	423,763	575,740	307,856	8,552	21,556	1,947	697	55,243	4
Other Electric Revenue - Prod		RB_GUP_EPIS_P	TOTAL	137,522	57,562	17,311	28,764	32,315	374	1,052	76	6	23	
Other Electric Rev. Production-Retail Demand (456)		PROD_DEMAND	TOTAL	(2,542,132)	(1,064,050)	(319,991)	(531,717)	(597,352)	(6,918)	(19,448)	(1,402)	(105)	(432)	
Other Electric Rev. Production-Retail Energy (456)	(2,042,102)	PROD_ENERGY	TOTAL	(2,042,102)	(1,004,030)	(319,991)	(331,717)	(557,552)	(0,910)	(19,440)	(1,402)	(103)	(432)	
Other Electric Revenue - Transmission	115,117,819	_	TOTAL	115,117,819	50,033,395	13,527,803	23,560,976	26,536,069	288,582	920,143	62,045	4,566	69,723	11
Other Electric Revenue - Dist	• • •	RB_GUP_EPIS_D	TOTAL	1,157,821	656,280	147,859	200,887	107,417	2,984	7,521	679	243	19,275	1
Other Electric Revenue - Local Facil Charge		RB_GUP_EPIS_D	TOTAL	224,875	127,465	28,718	39,017	20,863	580	1,461	132	47	3,744	
Total - Other Operating Revenues	129,987,221		TOTAL	129,987,221	61,015,082	15,230,994	24,907,206	27,072,874	304,779	967,424	68,335	6,062	203,108	21
Total - Other Operating Revenues	123,307,221		TOTAL	125,507,221	01,010,002	10,200,004	24,507,200	21,012,014	304,773	307,424	00,000	0,002	200,100	21
43090=490004.604078975-2738246.43962546	349,028,366		TOTAL	349,028,366	136,574,882	37,964,785	75,797,713	92,103,554	841,690	3,391,263	173,939	19,526	874,768	1,28
	0.0,020,000		101712	0.10,020,000	100,011,002	01,001,100	10,101,110	02,100,001	311,000	3,551,255		10,020	3,. 33	.,_0
Gain on Disp of Emission Const. Allow.	35.671	PROD_ENERGY	TOTAL	35,671	12,288	3,697	8,293	10,604	87	395	17	2	110	
Cam on Diop of Emission Conou. / movi	33,01		101712	33,011	,	0,00.	0,200	. 5,55	0.			_		
al Operating Revenues	1,497,742,135		TOTAL	1,497,742,135	637,309,933	187,628,835	309,617,516	331,865,768	3,900,504	12,614,239	875,407	157,480	7,044,107	6,72
	1,101,112,100		101712	1,107,112,100	331,333,333	101,020,000	333,311,313	331,333,733	3,000,001	.2,0,200	0.0,.0.	101,100	.,,	0,12
erating Expense														
O&M Expense														
Production														
Demand	392,698,984	PROD_DEMAND	TOTAL	392,698,984	164,370,372	49,430,924	82,137,594	92,276,739	1,068,675	3,004,218	216,601	16,167	66,732	11
Energy	350,060,590	PROD_ENERGY	TOTAL	350,060,590	120,593,369	36,283,240	81,381,821	104,065,460	857,468	3,881,199	168,617	21,563	1,079,809	1,72
GSU	505,191	PROD_DEMAND	TOTAL	505,191	211,456	63,591	105,667	118,710	1,375	3,865	279	21	86	
Total	743,264,766		TOTAL	743,264,766	285,175,197	85,777,756	163,625,082	196,460,909	1,927,517	6,889,283	385,497	37,751	1,146,626	1,83
Transmission														
Transmission	14,887,804	TRAN_TO	TOTAL	14,887,804	6,470,652	1,749,506	3,047,062	3,431,821	37,321	118,999	8,024	590	9,017	
Transmission O&M - LSE Demand	28,624,827	PROD_DEMAND	TOTAL	28,624,827	11,981,374	3,603,146	5,987,218	6,726,286	77,898	218,985	15,789	1,178	4,864	
Total	43,512,631		TOTAL	43,512,631	18,452,026	5,352,651	9,034,281	10,158,107	115,220	337,984	23,813	1,769	13,881	
Distribution Operation														
580 Supervision & Engineering	3,315,127	TOTOXEXP	TOTAL	3,315,127	1,867,029	485,027	560,932	294,187	9,146	22,470	2,237	815	40,359	
581 Load Dispatching	790,963	DIST_CPD	TOTAL	790,963	401,399	87,310	168,280	122,012	1,804	6,390	444	32	1,248	
582 Station Expenses	-	DIST_CPD	TOTAL	-	-	-	-	-	-	-	-	-	-	
583 Overhead Lines		DIST_OHLINES	TOTAL	1,447,544	800,200	182,684	285,549	155,134	4,005	10,361	865	310	3,346	
584 Underground Lines	1,748,490	DIST_UGLINES	TOTAL	1,748,490	979,248	225,093	340,579	174,206	4,974	12,257	1,055	423	4,247	
585 Street Lighting	-	DIST_SL	TOTAL	-	-		-	-	-	-	-	-	-	
586 Meters		DIST_METERS	TOTAL	2,520,861	1,386,241	735,055	270,083	81,847	10,152	20,158	3,372	1,385	-	•
587 Customer Installations		DIST_PCUST	TOTAL	160,841	135,838	15,394	1,494	65	99	126	42	10	7,444	
588 Miscellaneous Distribution		RB_GUP_EPIS_D	TOTAL	13,066,273	7,406,267	1,668,620	2,267,052	1,212,224	33,673	84,880	7,666	2,745	217,527	16
588 Miscellaneous Distribution - Misc Distribution IN		RB_GUP_EPIS_D	TOTAL	156,225	88,552	19,951	27,106	14,494	403	1,015	92	33	2,601	
589 Rents	1,283,777	RB_GUP_EPIS_D	TOTAL	1,283,777	727,674	163,944	222,741	119,102	3,308	8,340	753	270	21,372	1
Total	24,490,102		TOTAL	24,490,102	13,792,449	3,583,078	4,143,815	2,173,271	67,563	165,994	16,527	6,022	298,144	24

		Allocation		Total		Total	Total	Total		Total				
<u>Label</u>	Constant	<u>Factor</u>	<u>Function</u>	Retail	<u>RS</u>	<u>GS</u>	<u>LGS</u>	<u>IP</u>	MS 4.4	<u>WSS</u>	EHG	<u>IS</u>	<u>OL</u>	<u>SL</u>
				1	2				14		18	19	20	21
Distribution Maintenance														
590 Supervision & Engineering	-	TOTMXEXP	TOTAL	-	-	-	-	-	-	-	-	-	-	
591 Structures	-	DIST_CPD	TOTAL	- 000	- 474	- 100	- 400	- 440	-	-	-	-	-	
592 Station Equipment 593 Overhead Lines		DIST_CPD TOTOHLINES	TOTAL	929	471	103	198	143	65,459	171,771	14,219	4.000	T = 1	00.0
594 Underground Lines			TOTAL TOTAL	23,855,798 931,885	13,136,944 521,905	2,993,046 119,967	4,723,158 181,517	2,609,119 92,846	2,651	6,532	563	4,908 225	54,331 2,264	82, 3,
595 Line Transformers	931,000	DIST_TRANSF	TOTAL	931,000	521,905	119,967	101,517	92,040	2,651	6,532	503	223	2,204	3,2
596 Street Lighting	(5.288)	DIST_SL	TOTAL	(5,288)	_	_		-	_	_		_		(5,
597 Meters		DIST_METERS	TOTAL	67,981	37,383	19,822	7,283	2,207	274	544	91	37	_	(5,
598 Miscellaneous Distribution	· ·	DIST_OL	TOTAL	166,564	-	-	- ,200		-	-	-	-	166,564	
Total	25,017,868		TOTAL	25,017,868	13,696,704	3,132,938	4,912,156	2,704,315	68,385	178,855	14,873	5,170	223,161	81,
1000	20,011,000		1.017.12	20,011,000	10,000,101	0,102,000	1,012,100	2,7 0 1,0 10	30,000	170,000	1 1,07 0	0,170	223,131	0.,
Customer Accounts														
901 Supervision	868.032	TOTOX234	TOTAL	868,032	760,404	72,833	10,408	311	466	601	200	69	21,366	1,
902 Meter Read	· ·	CUST_902	TOTAL	963,031	822,614	93,231	45,263	-	598	769	257	299	-	
903 Customer Records		CUST_903	TOTAL	8,460,299	7,432,310	697,446	67,722	3,371	4,465	5,758	1,916	449	231,954	14
904 Uncollectibles	-	UNCOLFAC	TOTAL	-	-	-	-	-	-	-	-	-	-	
905 Miscellaneous	3,073,115	TOTOX234	TOTAL	3,073,115	2,692,077	257,854	36,847	1,099	1,651	2,128	709	244	75,644	4
Total	13,364,477		TOTAL	13,364,477	11,707,404	1,121,364	160,240	4,781	7,180	9,256	3,082	1,060	328,964	21
	-,,			-,,	, - , -	, , ,		, -	,	-,	-,	,	,	
Customer Service & Inf & Sales Exp														
907 Supervision	1,028,074	EXP_OM_CUSTACC	TOTAL	1,028,074	900,602	86,262	12,327	368	552	712	237	82	25,306	1,
908 Customer Assist		EXP_OM_CUSTACC		5,717,764	5,008,814	479,757	68,556	2,045	3,072	3,960	1,319	454	140,742	9.
909 Information & Instruction		EXP_OM_CUSTACC		29,668	25,989	2,489	356	11	16	21	7	2	730	
910 Miscellaneous Cust. Serv.		EXP_OM_CUSTACC		-	-	-,	-	-	-	-	-	-	-	
911-916 Misc Selling	-	EXP_OM_CUSTACC		-	-	-	-	-	-	-	-	-	-	
Total	6,775,506		TOTAL	6,775,506	5,935,405	568,508	81,238	2,424	3,640	4,693	1,563	537	166,778	10
	-, -,			-, -,	-,,	,	, , , ,	,	-,-	,	,		, -	-,
Administrative & General Expense														
Reg Commission - Prod	8.529.029	PROD_DEMAND	TOTAL	8,529,029	3,569,960	1,073,590	1,783,946	2,004,158	23,211	65,249	4,704	351	1,449	2,
Reg Commission - Expense		LABOR_M	TOTAL	1,267,174	583,732	155,014	245,359	264,557	3,225	9,213	674	78	3,812	1,
Insurance - Production		RB_GUP_EPIS_P	TOTAL	1,632,116	683,148	205,442	341,376	383,516	4,442	12,486	900	67	277	
Insurance - Transmission		RB_GUP_EPIS_T	TOTAL	477,222	207,414	56,080	97,672	110,006	1,196	3,814	257	19	289	
Insurance - Distribution		RB_GUP_EPIS_D	TOTAL	396,910	224,978	50,687	68,866	36,823	1,023	2,578	233	83	6,608	5,
Misc General Expense - PJM Capacity Perf Ins		PROD_DEMAND	TOTAL	1,069,156	447,512	134,580	223,626	251,231	2,910	8,179	590	44	182	<u> </u>
A&G - Labor Related		LABOR_M	TOTAL	63,165,573	29,097,611	7,727,098	12,230,553	13,187,539	160,771	459,232	33,609	3,878	190,027	75,
Total	76,537,180	LABOR_III	TOTAL	76,537,180	34,814,354	9,402,491	14,991,399	16,237,831	196,777	560,752	40,968	4,520	202,644	85,
1 0 0 0 0	,				0 1,0 1 1,00 1	5,152,151	11,001,000		,	333,132	10,000	1,020		
Total O&M Expense	932,962,529		TOTAL	932,962,529	383,573,538	108,938,786	196,948,210	227,741,638	2,386,283	8,146,817	486,322	56,830	2,380,199	2,303,
Depreciation & Amortization Expense														
Production		RB_GUP_EPIS_P	TOTAL	75,424,081	31,569,942	9,493,995	15,775,830	17,723,214	205,256	577,008	41,602	3,105	12,817	21,
Nuclear		RB_GUP_EPIS_P	TOTAL	105,026,267	43,960,406	13,220,165	21,967,474	24,679,161	285,814	803,470	57,929	4,324	17,847	29
GSU		RB_GUP_EPIS_P	TOTAL	1,006,002	421,078	126,630	210,417	236,391	2,738	7,696	555	41	171	
Transmission	29,646,533		TOTAL	29,646,533	12,885,205	3,483,844	6,067,707	6,833,890	74,319	236,966	15,979	1,176	17,956	29
Distribution		RB_GUP_EPIS_D	TOTAL	76,154,419	43,166,093	9,725,249	13,213,104	7,065,227	196,259	494,707	44,681	16,001	1,267,816	965
General & Intangible		RB_GUP_EPIS_G	TOTAL	35,225,602	16,226,891	4,309,178	6,820,624	7,354,307	89,657	256,100	18,743	2,163	105,973	41
otal Depreciation & Amort Expense	322,482,905		TOTAL	322,482,905	148,229,614	40,359,060	64,055,157	63,892,189	854,043	2,375,948	179,489	26,810	1,422,579	1,088
Powelstowy Dobits (One diffe														
Regulatory Debits/Credits	201-15	DD OUD EDIO	TOTAL	2017:5	10= 0==	40.000	65.55	22 =	4.5	2 2 2 2 2	212			
Reg Debits / Credits - Generation	•	RB_GUP_EPIS_P	TOTAL	394,742	165,226	49,688	82,565	92,757	1,074	3,020	218	16	67	
Reg Debits / Credits - Nuclear	915,919	RB_GUP_EPIS_P	TOTAL	915,919	383,372	115,291	191,575	215,223	2,493	7,007	505	38	156	
Reg Debits / Credits - Transmission	-	RB_GUP_EPIS_T	TOTAL	-	-	-	-	-	-	-	-	-	-	
Reg Debits / Credits - Distribution	4.040.00	RB_GUP_EPIS_D	TOTAL	4 040 000		- 40.4.0==	-	-		-	-	-	-	
Total Regulatory Debits/Credits	1,310,661		TOTAL	1,310,661	548,598	164,979	274,140	307,980	3,567	10,027	723	54	223	
Forma Other There is a second														
Taxes Other Than Income	0.700.555	LABORIA	TOTAL	0.500.005	4 00= 4 :=	4 40= 000	4044555	4 000 0:-	0.4.0.:-	22.2.5	= 0.5-		20.2-:	
FICA		LABOR_M	TOTAL	9,523,625	4,387,117	1,165,033	1,844,030	1,988,317	24,240	69,240	5,067	585	28,651	11
Federal Unemployment Tax		LABOR_M	TOTAL	46,771	21,545	5,721	9,056	9,765	119	340	25	3	141	
State Unemployment Tax		LABOR_M	TOTAL	231,742	106,753	28,349	44,871	48,382	590	1,685	123	14	697	
Real & Personal Property Tax	49,248,957		TOTAL	49,248,957	23,245,008	6,147,522	9,651,245	9,175,276	129,423	360,305	27,581	4,792	285,012	222
IN PSC Assessment	1,890,000		TOTAL	1,890,000	823,874	246,247	384,706	394,480	5,033	15,175	1,154	227	10,151	8
Sales and Use Taxes		RB_GUP	TOTAL	78,520	36,657	9,805	15,484	15,007	207	577	44	7	411	
Gross Receipts Tax	22,307,952		TOTAL	22,307,952	9,724,308	2,906,485	4,540,746	4,656,106	59,402	179,108	13,623	2,679	119,810	105
Federal Excise Tax	-	PROD_DEMAND	TOTAL	-	-	-	-	-	-	-	-	-	-	
Business Franchise Tax	-	RB_GUP	TOTAL	-	-	-	-	-	-	-	-	-	-	
Regis Fee	-	RB_GUP	TOTAL	-	-	-	-		-	-		-	-	
Taxes on Capital Leases	661,296	ND	TOTAL	661,296	312,125	82,547	129,593	123,202	1,738	4,838	370	64	3,827	2

	_	Allocation		Total		Total	Total	Total		Total				
<u>Label</u>	<u>Constant</u>	<u>Factor</u>	<u>Function</u>	Retail	<u>RS</u>	<u>GS</u>	<u>LGS</u>	<u>IP</u>	<u>MS</u> 14	<u>WSS</u>	EHG	<u>IS</u> 19	<u>OL</u> 20	<u>SL</u> 21
				I	2				14		18	19	20	
Total Taxes Other Than Income	83,988,863		TOTAL	83,988,863	38,657,387	10,591,708	16,619,733	16,410,535	220,752	631,267	47,988	8,372	448,699	352,4
						,			,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,21	,	,
Other O&M Expenses														
Line of Credit Fees	•	RATEBASE	TOTAL	210,877	98,963	26,286	41,458	39,830	554	1,551	118	20	1,176	9
Accretion Expense - Distribution	· ·	RB_GUP_EPIS_D	TOTAL	15,861	8,990	2,026	2,752	1,472	41	103	9	3	264	2
Factoring Expense Accretion Expense - Production	7,825,014	RB_GUP_EPIS_P	TOTAL TOTAL	7,825,014 406,343	3,411,019 170,081	1,019,515 51,148	1,592,769 84,991	1,633,234 95,483	20,837 1,106	62,826 3,109	4,778 224	940	42,026 69	37,0 1
Accretion Expense - Production Accretion Expense - Nuclear	400,343	RB_GUP_EPIS_P	TOTAL	400,343	170,061	51,146	04,991	95,465	1,106	3,109	- 224	- 17	- 09	1
Total Other Expenses	8,458,095	NB_001 _L1 10_1	TOTAL	8,458,095	3,689,053	1,098,974	1,721,970	1,770,018	22,537	67,589	5,130	980	43,535	38,3
	, ,			, ,	, ,	, ,	, ,	, ,	,	,	,		,	•
Total Operating Expense Before Income Tax	1,349,203,053		TOTAL	1,349,203,053	574,698,191	161,153,508	279,619,210	310,122,361	3,487,183	11,231,647	719,651	93,045	4,295,235	3,783,0
Gross Operating Income	148,539,082		TOTAL	148,539,082	62,611,742	26,475,327	29,998,306	21,743,407	413,322	1,382,592	155,756	64,435	2,748,872	2,945,3
Interest Expense Factor	1.940000000%													
Interest Expense Synchronized	95,971,067		TOTAL	95,971,067	45,038,460	11,962,663	18,867,783	18,126,958	252,204	705,907	53,627	9,112	535,161	419,1
	33,011,001		101712	00,011,001	10,000,100	11,002,000	10,007,700	10,120,000	202,20 :	7 00,007	33,321	5,112	333,131	110,1
Net Operating Income Before Income Tax	52,568,015		TOTAL	52,568,015	17,573,282	14,512,665	11,130,523	3,616,449	161,118	676,685	102,128	55,323	2,213,711	2,526,1
Schedule M Income Adjustments		DD 0115												
Gross Plant Related	2,237,667		TOTAL	2,237,667	1,044,651	279,417	441,273	427,655	5,897	16,446	1,251	205	11,703	9,1
Property Tax Adjustments Labor Related	(10,023,871)	NP LABOR M	TOTAL TOTAL	(10,023,871)	(4,617,558)	(1,226,229)	(1,940,891)	(2,092,757)	(25,513)	(72,876)	(5,334)	(615)	(30,156)	(11,9
Production Plant Related	, , , , , , , , , , , , , , , , , , , ,	RB_GUP_EPIS_P	TOTAL	(15,710,777)	(6,575,994)	(1,977,592)	(3,286,093)	(3,691,732)	(42,755)	(120,190)	(8,666)	(647)	(2,670)	(4,4
Production Demand Related	, , ,	PROD_DEMAND	TOTAL	442,916	185,389	55,752	92,641	104,077	1,205	3,388	244	18	75	1:
Rate Base Related		RATEBASE	TOTAL	966,038	453,354	120,415	189,922	182,465	2,539	7,106	540	92	5,387	4,2
Production Energy Related	25,215,975	PROD_ENERGY	TOTAL	25,215,975	8,686,723	2,613,597	5,862,191	7,496,165	61,766	279,575	12,146	1,553	77,782	124,4 ⁻
Customer Related	-	EXP_OM_CUSTACC		-	-	-	-	-	-	-	-	-	-	
Distribution Related	' '	RB_GUP_EPIS_D	TOTAL	3,916,636	2,220,040	500,171	679,552	363,366	10,094	25,443	2,298	823	65,204	49,64
General Plant Related	(8,135,468)	RB_GUP_EPIS_G	TOTAL	(8,135,468)	(3,747,653)	(995,219)	(1,575,245)	(1,698,501)	(20,707)	(59,147)	(4,329)	(499)	(24,475)	(9,69
Transmission Plant Related Provision for Uncollectibles	-	RB_GUP_EPIS_T RSALE	TOTAL TOTAL	-	-	-	-	-	-	<u>-</u>	-	-	-	
Total Schedule M Income Adjustments	(1,090,884)	KOALE	TOTAL	(1,090,884)	(2,351,048)	(629,687)	463,350	1,090,738	(7,474)	79,744	(1,849)	930	102,851	161,50
	(1,000,001)		101712	(1,000,001)	(2,001,010)	(020,007)	100,000	1,000,700	(,,,,,	70,711	(1,010)		102,001	101,0
State Tax Adjustments														
Indiana - Gross Plant Related	-	RB_GUP	TOTAL	-	-	-	-	-	-	-	-	-	-	
Indiana - Other (bonus depreciation adjustment)	(79,178,947)		TOTAL	(79,178,947)	(36,964,571)	(9,887,043)	(15,614,279)	(15,132,409)	(208,665)	(581,931)	(44,259)	(7,258)	(414,123)	(324,40
Indiana - Production Plant Related	- (74,712,875)	RB_GUP_EPIS_P	TOTAL TOTAL	(74.740.075)	(24.970.502)	(0.220.267)	(44.722.550)	- (4.4.070.000)	- (406.905)	- (E40.407)	(44.762)	(6.040)	(200.765)	(206.4)
Illinois - Other (bonus depreciation adjustment) Kentucky - Other (bonus depreciation adjustment)	(79,178,948)		TOTAL	(74,712,875) (79,178,948)	(34,879,592) (36,964,572)	(9,329,367) (9,887,044)	(14,733,559) (15,614,279)	(14,278,869) (15,132,409)	(196,895) (208,665)	(549,107) (581,931)	(41,763) (44,259)	(6,848) (7,258)	(390,765) (414,123)	(306,1)
Kentucky - Production Plant Related		RB_GUP_EPIS_P	TOTAL	-	(00,004,072)	(0,007,044)	(10,014,270)	(10,102,400)	(200,000)	(551,551)	(44,200)	-	(414,123)	(024,4)
Michigan - Other (bonus depreciation adjustment)	(74,712,875)		TOTAL	(74,712,875)	(34,879,592)	(9,329,367)	(14,733,559)	(14,278,869)	(196,895)	(549,107)	(41,763)	(6,848)	(390,765)	(306,1
Michigan - Production Plant Related	<u>-</u>	RB_GUP_EPIS_P	TOTAL	-	-	-	-	-	-	-	-	-	-	
Other - Gross Plant Related	-	RB_GUP	TOTAL	-	-	-	-	-	-	-	-	-	-	
West Virginia - Other (bonus depreciation adjustmen	129	RB_GUP	TOTAL	129	60	16	25	25	0	1	0	0	1	
Indiana Taxable Income	(27,701,816)		TOTAL	(27,701,816)	(21,742,337)	3,995,934	(4,020,406)	(10,425,222)	(55,021)	174,498	56,020	48,995	1,902,439	2,363,2
Tax Factor (Tax Rate x Apportionment)	4.0027625%		TOTAL	(27,701,610)	(21,742,337)	3,993,934	(4,020,400)	(10,425,222)	(55,021)	174,490	30,020	40,993	1,902,439	2,303,2
Indiana Tax including Credit	(1,108,838)		TOTAL	(1,108,838)	(870,294)	159,948	(160,927)	(417,297)	(2,202)	6,985	2,242	1,961	76,150	94,5
				(,, ==,,==,)				, , , , , , , , , , , , , , , , , , , ,			,	,		
Illinois Taxable Income	(23,235,744)		TOTAL	(23,235,744)	(19,657,358)	4,553,611	(3,139,685)	(9,571,682)	(43,251)	207,322	58,516	49,405	1,925,797	2,381,5
Tax Factor (Tax Rate x Apportionment)	0.1125655%													
Illinois Tax	(26,155)		TOTAL	(26,155)	(22,127)	5,126	(3,534)	(10,774)	(49)	233	66	56	2,168	2,6
Kentucky Taxable Income	(27,701,817)		TOTAL	(27,701,817)	(21,742,338)	3,995,934	(4,020,406)	(10,425,222)	(55,021)	174,498	56,020	48,995	1,902,439	2,363,2
Tax Factor (Tax Rate x Apportionment)	0.0694550%		IOIAL	(21,101,011)	(21,142,330)	5,335,334	(4,020,400)	(10,725,222)	(33,021)	174,430	30,020	70,330	1,302,438	۷,503,2
Kentucky Tax	(19,240)		TOTAL	(19,240)	(15,101)	2,775	(2,792)	(7,241)	(38)	121	39	34	1,321	1,6
													-	
Michigan Taxable Income	(23,235,744)		TOTAL	(23,235,744)	(19,657,358)	4,553,611	(3,139,685)	(9,571,682)	(43,251)	207,322	58,516	49,405	1,925,797	2,381,
Tax Factor (Tax Rate x Apportionment)	0.9277980%		TOTAL	(0.17.55.)	//00 00 0	40.0:5	/00 / 55	(00.000)				.=-	47.000	
Current Michigan Tax	(215,581)		TOTAL	(215,581)	(182,381)		(29,130)	(88,806)	(401)	1,924	543 543	458	17,868	22,0
Total Michigan Tay	(215,581)		TOTAL	(215,581)	(182,381)	42,248	(29,130)	(88,806)	(401)	1,924	543	458	17,868	22,
Total Michigan Tax		I			45 000 004	13,882,994	11,593,899	4,707,212	153,644	756,430	100,279	56,253	2,316,563	2,687,
	51.477.260		TOTAL	51.477.260 [⊥]	15.222.294	10.002.334	11.000.000	11.7 07.12.12	100.0	100.100	100.27.7	JU.ZJJ	2,010.000	_, , `
West Virginia Taxable Income Tax Factor (Tax Rate x Apportionment)	51,477,260 0.1434355%		TOTAL	51,477,260	15,222,294	13,002,994	11,000,000	1,707,212	100,011	700,100	100,273	30,233	2,010,000	
West Virginia Taxable Income			TOTAL	73,837	21,834	19,913	16,630	6,752	220	1,085	144	81	3,323	3,8
West Virginia Taxable Income Tax Factor (Tax Rate x Apportionment)	0.1434355% 73,837	RB_GUP							·	·				3,8

		Allocation	+	Total		Total	Total	Total		Total				
<u>Label</u>	Constant	Factor	Function	Retail	<u>RS</u>	GS	LGS	IP IP	MS	WSS	EHG	<u>IS</u>	<u>OL</u>	<u>SL</u>
				1	2	_		_	14		18	19	20	21
Other Tax	112		TOTAL	112	52	14	22	21	0	1	0	0	1	
Total State Income Tax	(1,295,866)		TOTAL	(1,295,866)	(1,068,017)	230,024	(179,732)	(517,345)	(2,470)	10,349	3,034	2,590	100,830	124,8
Federal Taxable Income	52,772,997		TOTAL				11,773,605	5,224,532	156,114	746,080	97,245	53,663	2,215,732	
Tax Factor (Tax Rate x Apportionment)	21.00%		TOTAL	52,772,997	16,290,251	13,652,953	11,773,005	5,224,532	156,114	740,000	91,245	55,005	2,215,732	2,562,8
Gross Current FIT	11,082,329		TOTAL	11,082,329	3,420,953	2,867,120	2,472,457	1,097,152	32,784	156,677	20,422	11,269	465,304	538,1
							, ,		,	,	,	,		·
Parent Savings Allocation	(1,795,797)	RB_GUP	TOTAL	(1,795,797)	(838,365)	(224,240)	(354,135)	(343,207)	(4,733)	(13,198)	(1,004)	(165)	(9,392)	(7,3
Total Current FIT	9,286,532		TOTAL	9,286,532	2,582,588	2,642,880	2,118,322	753,945	28,051	143,479	19,418	11,105	455,911	530,8
Deferred FIT														
Gross Plant Related	(24,611,605)	RB GUP	TOTAL	(24,611,605)	(11,489,890)	(3,073,241)	(4,853,468)	(4,703,686)	(64,860)	(180,885)	(13,757)	(2,256)	(128,724)	(100,8
Net Plant Related	(24,011,000)	NP	TOTAL	(24,011,000)	(11,403,030)	(0,070,241)	(4,000,400)	(4,700,000)	(04,000)	(100,000)	(10,707)	(2,230)	(120,124)	(100,0
Production Plant	3 815 042	RB_GUP_EPIS_P	TOTAL	3,815,042	1,596,846	480,218	797,961	896,462	10,382	29,186	2,104	157	648	1,0
Distribution		RB_GUP_EPIS_D	TOTAL	(822,493)	(466,208)	(105,036)	(142,706)	(76,307)	(2,120)	(5,343)	(483)	(173)	(13,693)	(10,4
Labor		LABOR_M	TOTAL	2,317,191	1,067,428	283,464	448,670	483,777	5,898	16,847	1,233	142	6,971	2,7
Rate Base		RATEBASE	TOTAL	(202,868)	(95,204)	(25,287)	(39,884)	(38,318)	(533)	(1,492)	(113)	(19)	(1,131)	
Energy		PROD_ENERGY	TOTAL	(6,154,097)	(2,120,042)	(637,863)	(1,430,700)	(1,829,480)	(15,074)	(68,232)	` /	(379)	(18,983)	(30,3
Demand		PROD_DEMAND	TOTAL	(93,012)	(38,932)	(11,708)	(19,455)	(21,856)	(253)	(712)	, ,	(4)	(16)	(00,0
Transmission	- (35,312)	RB_GUP_EPIS_T	TOTAL	(00,012)	(00,002)	(11,700)	(10,100)	(21,000)	(200)	(7.12)	-	-	(10)	
Revenue Related		RSALE	TOTAL	_		_	_		_		_	_		
General Plant Related	1,708,448	RB_GUP_EPIS_G	TOTAL	1,708,448	787,007	208,996	330,801	356,685	4,348	12,421	909	105	5,140	2,0
Total Current Year DFIT	(24,043,394)	NB_001 _E1 10_0	TOTAL	(24,043,394)	(10,758,995)	(2,880,457)	(4,908,779)	(4,932,722)	(62,212)	(198,210)	(13,123)	(2,427)	(149,788)	(136,6
Deferred ITC														
Prior Year Feedback		RATEBASE	TOTAL	(1,944,475)	(912,527)	(242,376)	(382,281)	(367,271)	(5,110)	(14,302)	, , ,	(185)	(10,843)	
Solar Investment Tax Credit		RB_GUP_EPIS_P	TOTAL	(372,553)	(155,938)	(46,895)	(77,924)	(87,543)	(1,014)	(2,850)	(205)	(15)	(63)	(1
Rockport		RB_GUP_EPIS_P	TOTAL	(1,953,730)	(817,765)	(245,925)	(408,646)	(459,089)	(5,317)	(14,946)	(1,078)	(80)	(332)	(5
Cook Plant Simulator	(53,423)	RB_GUP_EPIS_P	TOTAL	(53,423)	(22,361)	(6,725)	(11,174)	(12,553)	(145)	(409)	(29)	(2)	(9)	
Total Deferred ITC	(4,324,181)		TOTAL	(4,324,181)	(1,908,590)	(541,921)	(880,025)	(926,457)	(11,586)	(32,508)	(2,399)	(283)	(11,247)	(9,1
Total Federal Income Tax	(19,081,043)		TOTAL	(19,081,043)	(10,084,998)	(779,499)	(3,670,482)	(5,105,234)	(45,747)	(87,239)	3,896	8,395	294,876	384,9
Total Income Tax	(20,376,909)		TOTAL	(20,376,909)	(11,153,015)	(549,474)	(3,850,214)	(5,622,579)	(48,217)	(76,890)	6,930	10,985	395,706	509,8
Total Expenses	1,328,826,145		TOTAL	1,328,826,145	563,545,176	160,604,033	275,768,996	304,499,782	3,438,966	11,154,756	726,581	104,030	4,690,941	4,292,8
									, ,		,	,	, ,	
Net Operating Income	168,915,990		TOTAL	168,915,990	73,764,757	27,024,802	33,848,520	27,365,985	461,538	1,459,483	148,826	53,450	2,353,166	2,435,4
Current Rate of Return	3.41%			3.41%	3.18%	4.38%	3.48%	2.93%	3.55%	4.01%	5.38%	11.38%	8.53%	11.2
Current Nate of Neturn	3.4170			3.4170	3.1070	4.5070	3.4070	2.9570	3.3376	4.0170	3.3076	11.5076	0.5570	11.2
&M Labor														
Production Demand	99,191,407	PROD_DEMAND	TOTAL	99,191,407	41,518,133	12,485,703	20,747,045	23,308,081	269,935	758,832	54,711	4,084	16,856	28,0
Production Energy	6,398,087	PROD_ENERGY	TOTAL	6,398,087	2,204,095	663,152	1,487,422	1,902,013	15,672	70,937	3,082	394	19,736	31,5
Transmission	5,321,751	TOTBSEXP	TOTAL	5,321,751	2,312,980	625,373	1,089,194	1,226,729	13,341	42,537	2,868	211	3,223	5,2
Distribution	11,843,225	EXP_OM_DIST	TOTAL	11,843,225	6,575,915	1,606,595	2,166,356	1,166,809	32,521	82,494	7,511	2,677	124,706	77,6
Customer Accounts	5,358,117	EXP_OM_CUSTACC	TOTAL	5,358,117	4,693,760	449,580	64,244	1,917	2,879	3,711	1,236	425	131,889	8,4
Customer Service		EXP_OM_CUSTSER		4,119,317	3,608,559	345,637	49,391	1,474	2,213	2,853	950	327	101,396	6,5
Total	132,231,904		TOTAL	132,231,904	60,913,442	16,176,040	25,603,652	27,607,022	336,561	961,365	70,358	8,118	397,806	157,5
Production Demand	99,191,407	PROD_DEMAND	TOTAL	99,191,407	41,518,133	12,485,703	20,747,045	23,308,081	269,935	758,832	54,711	4,084	16,856	28,0
Production Demand Production Energy		_	TOTAL	6,398,087	2,204,095	663,152	1,487,422	1,902,013	15,672	70,937	3,082	394	19,736	31,5
Total Production	105,589,494	I NOD_ENERGI	TOTAL	105,589,494	43,722,228	13,148,855	22,234,468	25,210,094	285,607	829,769	57,793	4,478	36,591	59,6
	100,009,494		IOIAL	100,009,494	43,122,228	13,140,000	22,234,408	25,210,094	200,007	029,709	57,793	4,470	30,391	59,0