STATE OF INDIANA

INDIANA UTILITY REGULATORY COMMISSION

FILED

PETITION OF INDIANA MICHIGAN POWER) COMPANY, AN INDIANA CORPORATION, FOR) (1) AUTHORITY TO INCREASE ITS RATES AND CHARGES FOR ELECTRIC UTILITY SERVICE THROUGH A PHASE IN RATE ADJUSTMENT: (2) APPROVAL OF: REVISED DEPRECIATION RATES: ACCOUNTING RELIEF: INCLUSION IN BASIC RATES AND CHARGES OF QUALIFIED POLLUTION CONTROL PROPERTY, CLEAN ENERGY PROJECTS AND COST OF BRINGING I&M'S SYSTEM TO ITS PRESENT STATE OF EFFICIENCY; RATE ADJUSTMENT MECHANISM PROPOSALS: COST DEFERRALS; MAJOR STORM DAMAGE RESTORATION RESERVE DISTRIBUTION **VEGETATION** AND MANAGEMENT PROGRAM RESERVE: AND AMORTIZATIONS; AND (3) FOR APPROVAL OF NEW SCHEDULES OF RATES, RULES AND REGULATIONS.

July 26, 2017

INDIANA UTILITY

REGULATORY COMMISSION

CAUSE NO. 44967-NONE

SUBMISSION OF DIRECT TESTIMONY OF DANIEL E. HIGH

Petitioner, Indiana Michigan Power Company (I&M), by counsel, respectfully submits the direct testimony and attachments of Daniel E. High in this Cause.

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The undersigned certifies that the foregoing was served upon the following via electronic email, hand delivery or First Class, or United States Mail, postage prepaid this 26th day of July, 2017 to:

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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,
- 3 Columbus, 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
- 6 Principal Regulatory Consultant in the Regulatory Strategy Department. AEPSC
- 7 supplies engineering, financing, accounting, planning, advisory, and other
- 8 services to the subsidiaries of the American Electric Power (AEP) system, one of
- 9 which is 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
- 15 Marketing and Customer Services Representative in the Marketing and
- 16 Customer Services Department of the Columbus Region. In August 1998, I
- 17 joined the Regulated Pricing & Analysis Department as a Regulatory Consultant.
- From 2006 through 2008, I performed duties as a Regulatory Consultant in
- 19 Transmission & Interconnection Services under the Regulatory Services
- Department, where I was responsible for rate design and maintaining wholesale

1 contracts. In January 2009, I returned to Regulated Pricing & Analysis under the 2 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?

9 A. Yes. In 1999, I attended the Edison Electric Institute's (EEI) school on cost
 10 allocation and rate design. In 2003, I attended EEI's advanced cost allocation
 11 and rate design school.

12 Q. Have you previously submitted testimony in any regulatory proceedings?

Yes. I have submitted testimony before the Public Service Commission of Kentucky on behalf of Kentucky Power Company; before the Michigan Public Service Commission (MPSC or Commission) and the Indiana Utility Regulatory Commission on behalf of I&M; and before the Public Utilities Commission of Ohio 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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20 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
2		of 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
5		this 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, 2018 (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

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• WP-DEH-11: Class Peak Data

- 1 • WP-DEH-12: Call Center Allocation (Account 903)
- 2 • WP-DEH-13: Meter Reading Allocation (Account 902)
- 3 • WP-DEH-14: Meter Allocation (Account 370)
- WP-DEH-15: Allocation of Forfeited Discounts (Account 450) and 4 5 Miscellaneous Service Revenue (Account 451)
- 6 WP-DEH-16: Allocation of Poles (Account 364), Overhead Conductors (Account 365), Underground Conductors (Account 367) and Transformers 7 (Account 368) 8
- 9 • WP-DEH-17: Phase-In Rate Adjustment Class Cost-of-Service study
- WP-DEH-18: Phase-In Rate Adjustment Proposed Equalized ROR 10
- 11 • WP-DEH-19: Phase-In Rate Adjustment Allocation Factors
- 12 WP-DEH-20: Phase-In Rate Adjustment Allocators
- Were the attachments and workpapers that you are sponsoring prepared 13 Q.
- 14 by you or under your direction?
- 15 A. Yes.

OVERVIEW OF CLASS COST-OF-SERVICE STUDIES 16

- 17 Q. Briefly describe the nature and purpose of a cost-of-service study.
- 18 A. Cost studies are utilized to determine the revenue requirement for the services 19 offered by the utility and to determine the costs that different classes of 20 customers impose on the utility system. A cost-of-service study is a basic 21 analytical tool used in traditional utility rate design. When all of the jurisdictional 22 costs are allocated to the various customer classes, the result is a fully allocated 23

class cost study that is a guide in establishing rates based on costs.

- 1 Q. Please describe how you prepared the class cost-of-service study.
- An Excel spreadsheet (Attachment DEH-1) was used to prepare the class costof-service study. The Excel spreadsheet permits the analyst to use two types of
 allocation factors those which are generated externally and input to the
 program and those which are developed internally as a result of the allocation
 process. An example of an external allocation factor would be the total number
 of secondary customers served at distribution level (DIST_SERV). An example
- 8 of an internal factor would be the rate base gross utility plant electric plant in
- 9 service distribution allocation factor (RB GUP EPIS D).

10 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 Stegall. 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.
- 16 Q. Please describe the functionalization process.
- 17 A. Once the relevant data is gathered, the costs are then separated by major 18 electric system functions. Typically, functions in an electric utility are:
- Production and Purchased Power Costs
- Transmission Costs
- Distribution Costs
- 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.

12 Q. Please describe the classification process.

- 13 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

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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. 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 demandrelated 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.

1 Q. Please describe the allocation process.

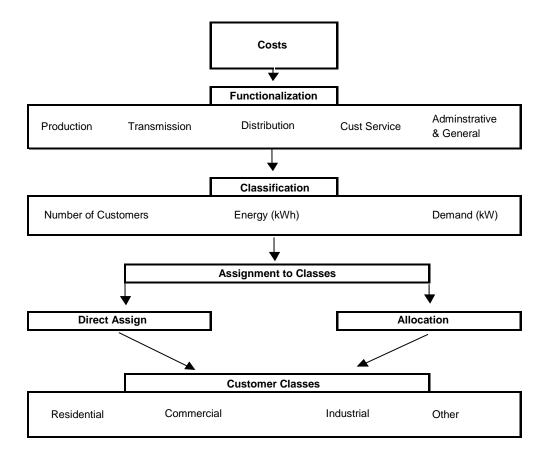
A.

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.

- 1 Q. Does the allocation method employed by the Company meet these 2 objectives?
- 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.

Α.

From the jurisdictional cost-of-service allocation study, as prepared by Company witness Stegall, 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.

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. This is known as the summer and winter peak method or the 6CP method. 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.

- 1 Q. Please explain coincident peak cost allocation.
- 2 Coincident peak cost allocation refers to the process of determining each class's Α. 3 hourly demand contribution to the Company's monthly peak demand. 4 instance, a single coincident peak method (1 CP) would allocate costs to the 5 customer classes according to the load of that class at the time of the utility's 6 highest measured one-hour peak demand in the Test Year. Conversely, an 7 allocator based on the class contribution to the 12 monthly maximum system 8 peaks (12 CP) might be used when the monthly peaks lie within a narrow range 9 and there are no definite spikes in the load curve. I&M, for class allocation 10 purposes, used the summer and winter peak method to assign customer costs to 11 reflect two seasonal peaks.
- 12 Q. What CP demand allocator is the Company proposing in this proceeding?
- 13 A. The Company is proposing to utilize the 6 CP demand allocator in this proceeding, consistent with the 6 CP methodology found appropriate in Cause No. 44075.
- 16 Q. Is the 6 CP demand allocator the most appropriate demand allocator to
 17 assign demand-related costs among the customer classes in this
 18 proceeding?
- 19 A. Yes. The 6 CP is the most appropriate demand allocator considering the load 20 profile during the Test Year continues to reflect six monthly peaks, three during 21 the summer and three during the winter, which supports the use of a 6 CP 22 allocator. 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.
- Q. Has I&M conducted analyses to confirm that the 6 CP demand allocator is
 the most appropriate demand allocator in this proceeding?

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Α.

Yes. On page 116 of the Commission's Order in Cause No. 44075, the Commission directed I&M to conduct a comprehensive and fresh analysis to determine the best demand allocation methodology. The Company has responded to that directive by conducting an additional analysis of I&M Indiana load profile data for the periods in this proceeding – i.e., the historic twelve months ended December 31, 2016 and forecast twelve months ended December 31, 2018. Figure DEH-3 and Figure DEH-4 provide visual depictions of these load profiles. These data points confirm a long-term pattern that I&M Indiana retail loads demonstrate summer and winter peaks. Therefore, it is appropriate to use a 6 CP demand allocator.

Figure DEH-3

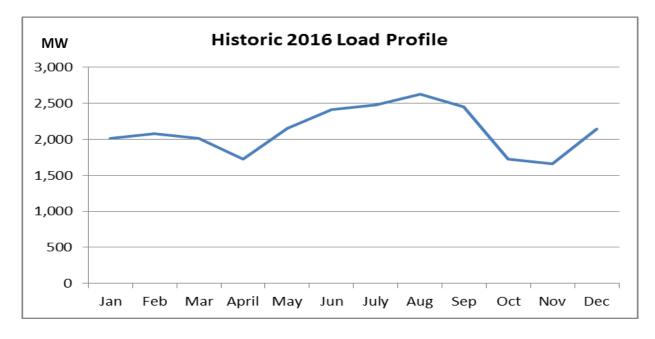
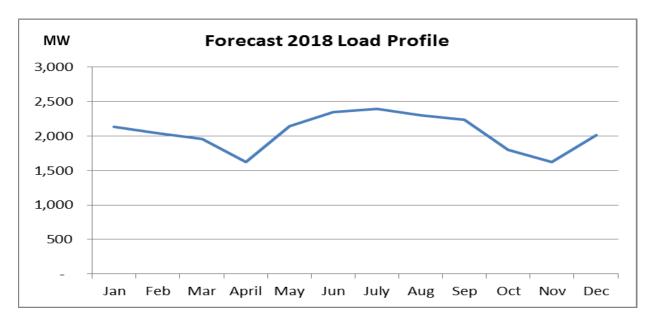


Figure DEH-4



- 1 Q. Have you also examined the Indiana retail class loads for the forecast test
- 2 year?
- 3 A. Yes. Figure DEH-5 summarizes class monthly peak information for the forecast
- 4 twelve months ended December 31, 2018.

Figure DEH-5
Class Load Profile for Forecast Test Period 2018



1 Q. What did the Company learn from these analyses?

A. Figure DEH-3 and Figure DEH-4 show that the I&M Indiana retail load profile continues to have three summer peaks and three winter peaks. This is consistent with the load profiles shown in the March 2011 test year in Cause No.

44075.

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As shown in Figure DEH-5, the Residential (RS) class demonstrates summer and winter peaks, the Lighting class is winter peaking, General Service (GS) and Large General Service (LGS) classes are summer peaking and the Industrial Power (IP) class demonstrates a flat load shape. The seasonality of the retail class load shapes support the Company's proposed 6 CP demand allocator as the best method to allocate demand costs among the customer classes.

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

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

22 A. The functional components of transmission plant were obtained directly from the 23 jurisdictional study and are classified as demand-related and allocated to the classes based on their contribution to the average of the six monthly peak demands on the power supply transmission (BULK_TRANS) and subtransmission systems (SUB_TRANS), respectively. Generator step-up transformers are included in transmission plant based on the FERC accounts, but are separately identified and allocated using the production demand allocation factor since they are related to the production function.

Q. How were the portions of distribution plant allocated?

A.

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

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).

- 1 Q. How was the general and intangible portion of electric plant classified and 2 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. Has the Company made the appropriate classification of distribution plant?

Α.

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

- 1 associated with Accounts 360-368, and based on the number of customers with
- 2 Accounts 369-373.
- 3 Q. Please describe the allocation of Accumulated Provision for Depreciation
- 4 and Amortization.
- 5 A. The functionalized components of Accumulated Provision for Depreciation and
- 6 Amortization were obtained directly from the jurisdictional study and classified
- 7 and allocated in a fashion similar to Electric Plant in Service.
- 8 Q. Please describe the allocation of working capital.
- 9 A. Fuel stock and allowances were allocated using the energy allocation factor
- 10 (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.
- 14 Q. How were the other rate base items functionalized, classified, and
- 15 allocated?
- 16 A. The rate base elements of prepaid pension expenses were functionalized,
- 17 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
- 20 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

2 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.

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

13 A. Production-related O&M was classified as either demand- or energy-related in 14 the jurisdictional study. The demand component was allocated using the 15 production demand allocation factor (PROD DEMAND) and the energy 16 component was allocated using the energy allocation factor (PROD_ENERGY). 17 Non-fuel nuclear O&M was allocated using the production demand allocation 18 factor (PROD_DEMAND), and nuclear fuel expense was allocated using the 19 energy allocation factor (PROD_ENERGY).

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

A. 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 Α. 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.

1 Account 591, Maintenance of Structures, and Account 592, Maintenance 2 of Station Equipment, were classified as demand-related and allocated on the distribution demand allocation factor DIST CPD. Account 593, Maintenance of 3 4 Overhead Lines, Account 594, Maintenance of Underground Lines, and Account 5 595, Maintenance of Line Transformers, were functionalized and classified 6 according to the associated distribution plant accounts and allocated accordingly. 7 Account 596, Maintenance of Street Lighting and Signal Systems, was classified 8 customer-related and directly assigned to the street lighting class. Account 597, 9 Maintenance of Meters, was classified customer-related and allocated in the 10 same manner as meter plant. Account 598, Maintenance of Miscellaneous 11 Distribution Plant, was classified customer-related and directly assigned to the 12 outdoor lighting class. Account 590, Maintenance Supervision and Engineering, 13 was classified and allocated based on the sum of the allocated O&M expense 14 Accounts 591 through 598.

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

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17 Account 902, Meter Reading Expense, was allocated to those classes with meter Α. 18 installations based upon an average number of customers weighted to reflect differences in meter reading requirements. 19 Customer Records Expense, 20 Account 903 was divided into two categories of cost which included the call 21 center and other. Call center costs were first split into residential and other 22 based on the actual number of calls received by the call center and then other 23 call center expenses were allocated based on the number of customers.

1 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. All customer accounting, customer services,

and sales expense accounts were classified as customer-related.

Q. Please describe the allocation of A&G expense.

7 A. The regulatory expense associated with the Nuclear Regulatory Commission

(NRC) was allocated based on the production demand allocation factor. The

functional components of property insurance were taken directly from the

jurisdictional study and allocated based on the appropriate plant allocation factor.

The regulatory expense associated with retail rate case proceedings was

allocated based on class revenue levels and all other A&G expenses were

functionalized, classified, and allocated based on O&M labor expense.

ALLOCATION OF DEPRECIATION AND TAXES

- 15 Q. Please describe the allocation of depreciation and amortization expense.
- 16 A. The functionalized components of depreciation and amortization expense were
- allocated using the corresponding plant items.
- 18 Q. How were other regulatory expense items allocated?
- 19 A. The functional components related to asset retirement obligations were obtained
- 20 directly from the jurisdictional study and allocated using the appropriate plant
- 21 allocation factor.

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1 Q. How were taxes assigned to the retail classes?

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2 A. Individual other tax items were allocated and classified using the appropriate demand, revenue, or plant allocator.

Interest expense was calculated on rate base and individual Schedule M items were allocated using the appropriate allocators. State and current Federal income taxes were computed by class. Deferred Federal Income Tax and Deferred Investment Tax Credit were allocated using the appropriate allocation factors.

EARNED RETURNS

- Q. Please summarize the resulting earned rate of return for each class shown
 in the 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-6:

Figure DEH-6
Rates of Return for Projected Class Cost-of-Service Study

Customer Class	Rate of Return
Residential	2.31%
General Service	2.45%
Large General Service	2.30%
Industrial Power	1.92%
Municipal and School Service	1.33%
Water and Sewage Service	2.73%
Electric Heating General	3.12%
Irrigation Service	0.06%
Outdoor Lighting	6.25%
Street Lighting	3.82%
Total I&M Jurisdictional Class	2.30%

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

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

- Q. Please describe the additional cost-of-service study you completed related
 to the 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 Williamson. This additional cost-of-service study, which is
 shown in Workpaper WP-DEH-17, provides class rates of return for the PRA. It
 uses as its inputs the PRA jurisdictional separation study prepared by Company
 witness Stegall.
- 14 Q. How did you complete this additional cost-of-service study in support of the PRA?
- 16 A. I prepared the additional cost-of-service study shown on WP-DEH-17 in a
 17 manner that was consistent with the Test Year class cost-of-service study shown
 18 on Attachment DEH-1. All differences between this additional study and
 19 Attachment DEH-1 are due to the different inputs provided by the jurisdictional
 20 separation studies supported by Company witness Stegall.

1 <u>CONCLUSION</u>

- 2 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 sales revenue to each customer class, as explained by Company witness Nollenberger.

- 12 Q. Does this conclude your pre-filed verified direct testimony?
- 13 A. Yes.

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VERIFICATION

I, Daniel E. High, Staff Regulatory Consultant for 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: 7-20-17

Daniel E. High

<u>Label</u>	Allocation Constant Factor	<u>Function</u>	Total <u>Retail</u> 1	<u>RS</u> 2	Total <u>GS</u>	Total <u>LGS</u>	Total <u>IP</u>	<u>MS</u> 14	WSS_SEC 15	WSS_PRI 16	WSS_SUB 17	Total <u>WSS</u>	<u>EHG</u> 18	<u>IS</u> 19	<u>OL</u> 20	<u>SL</u> 21
Rate Base P-T-D Plant in Service Production																
Demand	2,970,253,308 PROD_DEMAND	TOTAL	2,970,253,308	1,178,983,069	527,394,938	513,568,917	705,136,533	9,005,965	13,945,850	8,600,704	1,758,378	24,304,932	1,801,462	416,033	3,854,699	5,786,760
GSU Total	37,629,246 PROD_DEMAND 3,007,882,554	TOTAL TOTAL	37,629,246 3,007,882,554	14,936,182 1,193,919,251	6,681,408 534,076,346	6,506,250 520,075,167	8,933,163 714,069,695	114,094 9,120,059	176,676 14,122,526	108,960 8,709,663	22,276 1,780,654	307,912 24,612,844	22,822 1,824,285	5,271 421,303	48,834 3,903,533	73,311 5,860,071
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Transmission Transmission	1,063,575,012 TRAN TO	TOTAL	1,063,575,012	423,146,439	188,568,056	183,059,286	252,580,305	3,164,163	4,968,289	3,063,357	697,749	8,729,395	644,555	151,775	1,402,698	2,128,340
Total	1,063,575,012	TOTAL	1,063,575,012	423,146,439	188,568,056	183,059,286	252,580,305	3,164,163	4,968,289	3,063,357	697,749	8,729,395	644,555	151,775	1,402,698	2,128,340
Distribution																
360 Land and Land Rights	18,626,563 DIST_CPD	TOTAL	18,626,563	8,491,416	3,405,824	3,400,963	3,025,389	48,143	91,463	56,395	-	147,858	11,541	3,308	35,558	56,562
361 Structures and Improvements 362 Station Equipment	13,981,592 DIST_CPD 237,098,329 DIST_CPD	TOTAL TOTAL	13,981,592 237,098,329	6,373,882 108,087,605	2,556,501 43,352,877	2,552,853 43,291,007	2,270,938 38,510,314	36,138 612,819	68,655 1,164,238	42,332 717,857	-	110,986 1,882,095	8,663 146,912	2,483 42,109	26,691 452,616	42,457 719,974
363 Storage Battery Equipment	6,739,081 DIST_POLES	TOTAL	6,739,081	3,392,572	1,256,810	1,183,004	791,247	19,224	33,885	13,450	-	47,335	4,665	2,643	16,098	25,483
364 Poles 365 Overhead Lines	241,000,744 DIST_POLES 374,468,245 DIST OHLINES	TOTAL TOTAL	241,000,744 374,468,245	121,324,004 191,125,761	44,945,608 70,037,149	42,306,210 65,348,685	28,296,306 41,494,028	687,480 1,082,931	1,211,775 1,889,331	481,000 690,692	-	1,692,775 2,580,023	166,842 263,231	94,534 158,680	575,676 920,844	911,308 1,456,912
366 Underground Conduit	94,692,662 DIST_UGLINES	TOTAL	94,692,662	49,068,825	17,767,120	16,415,486	9,793,569	278,005	479,588	158,630	-	638,219	67,693	43,460	240,307	379,980
367 Underground Lines 368 Transformers	238,445,625 DIST_UGLINES 320,400,397 DIST_TRANSF	TOTAL TOTAL	238,445,625 320,400,397	123,560,226 183,222,622	44,739,390 61,435,909	41,335,840 52,995,945	24,661,188 16,857,846	700,045 1,037,562	1,207,651 1,665,308	399,447 163,554	-	1,607,098 1,828,862	170,457 255,323	109,436 224,684	605,117 986,596	956,828 1,555,048
369 Services	175,231,645 DIST_SERV	TOTAL	175,231,645	145,759,205	18,931,034	1,209,563	32,876	123,558	141,983	-	-	141,983	53,469	26,735	8,589,776	363,447
370 Meters 371 Installations on Cust Premises	91,199,951 DIST_METERS 22,651,235 DIST_OL	TOTAL TOTAL	91,199,951 22,651,235	32,276,283	48,537,958	6,148,430	2,223,844	262,345	392,723	78,863	68,865	540,451	101,349	89,010	- 22,651,235	1,020,283
373 Street Lighting	19,335,460 DIST_SL	TOTAL	19,335,460	-	-	-	-	-	-	-	-	-	-	-	-	19,335,460
Total	1,853,871,528	TOTAL	1,853,871,528	972,682,400	356,966,180	276,187,987	167,957,545	4,888,250	8,346,600	2,802,219	68,865	11,217,684	1,250,146	797,083	35,100,512	26,823,741
Total P-T-D Plant in Service	5,925,329,093	TOTAL	5,925,329,093	2,589,748,090	1,079,610,582	979,322,440	1,134,607,545	17,172,472	27,437,415	14,575,240	2,547,268	44,559,923	3,718,985	1,370,162	40,406,742	34,812,152
	LABOR_M LABOR_M	PRODUCTION TO_TRAN	143,168,883 10,739,876	56,828,045 4,272,891	25,420,911 1,904,142	24,754,484 1,848,515	33,988,216 2,550,531	434,096 31,951	672,203 50,169	414,562 30,933	84,755 7,046	1,171,520 88,149	86,832 6,509	20,053 1,533	185,800 14,164	278,927 21,492
	LABOR_IVI LABOR_M	DISTPRI	15,004,766	6,840,323	2,743,587	2,739,671	2,437,125	38,782	73,679	45,430	7,046	119,108	9,297	2,665	28,644	45,564
	LABOR_M	DISTSEC	8,934,798	5,319,551	1,729,348	1,446,733	271,143	30,118	46,960	-	- 2 502	46,960	7,441	7,214	29,633	46,657
	LABOR_M LABOR_M	ENERGY CUSTOMER	4,486,623 16,436,114	1,499,211 13,776,355	667,231 2,009,405	884,496 245,361	1,335,718 35,148	11,367 12,371	28,344 15,442	17,489 1,406	3,503 1,055	49,336 17,903	2,177 5,183	406 4,702	14,261 212,291	22,419 117,395
General & Intangible Plant	198,771,059 LABOR_M	TOTAL	198,771,059	88,536,377	34,474,624	31,919,260	40,617,880	558,685	886,796	509,820	96,359	1,492,975	117,440	36,573	484,792	532,454
Total Electric Plant in Service	6,124,100,153	TOTAL	6,124,100,153	2,678,284,467	1,114,085,206	1,011,241,699	1,175,225,425	17,731,157	28,324,211	15,085,060	2,643,627	46,052,898	3,836,425	1,406,735	40,891,534	35,344,606
Electric Utility Plant	6,124,100,153	TOTAL	6,124,100,153	2,678,284,467	1,114,085,206	1,011,241,699	1,175,225,425	17,731,157	28,324,211	15,085,060	2,643,627	46,052,898	3,836,425	1,406,735	40,891,534	35,344,606
Accum. Depreciation and Amortization																
Steam & Hydro Nuclear	(285,865,823) RB_GUP_EPIS_P (906,551,480) RB_GUP_EPIS_P	TOTAL TOTAL	(285,865,823) (906,551,480)	(113,468,762) (359,837,608)	(50,758,024) (160,966,292)	(49,427,367) (156,746,450)	(67,864,392) (215,214,832)	(866,760) (2,748,712)	(1,342,189) (4,256,415)	(827,757) (2,625,022)	(169,231) (536,675)	(2,339,177) (7,418,112)	(173,378) (549,825)	(40,040) (126,977)	(370,987) (1,176,493)	(556,935) (1,766,178)
ARO Steam & Hydro	(0) RB_GUP_EPIS_P	TOTAL	(0)	(0)	(0)	(0)	(213,214,032) (0)	(2,740,712) (0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1,700,170)
ARO Nuclear GSU	(0) RB_GUP_EPIS_P (12,753,847) RB_GUP_EPIS_P	TOTAL TOTAL	(0) (12,753,847)	(0) (5,062,386)	(0) (2,264,559)	(0) (2,205,192)	(0) (3,027,756)	(0) (38,670)	(0) (59,882)	(0) (36,930)	(0) (7,550)	(0) (104,362)	(0) (7,735)	(0) (1,786)	(0) (16,552)	(0) (24,848)
Transmission	(360,482,199) TRAN_TO	TOTAL	(360,482,199)	(143,418,900)	(63,912,208)	(62,045,096)	(85,608,164)	(1,072,444)	(1,683,924)	(1,038,277)	(236,491)	(2,958,693)	(218,462)	(51,442)	(475,423)	(721,368)
Distribution General & Intangible	(534,914,966) RB_GUP_EPIS_D (77,908,096) RB_GUP_EPIS_G	TOTAL TOTAL	(534,914,966) (77,908,096)	(280,657,190) (34,701,734)	(102,998,805) (13,512,290)	(79,691,114) (12,510,718)	(48,462,368) (15,920,133)	(1,410,453) (218,976)	(2,408,323) (347,579)	(808,551) (199,823)	(19,870) (37,768)	(3,236,744) (585,170)	(360,716) (46,030)	(229,990) (14,335)	(10,127,880) (190,014)	(7,739,706) (208,695)
Total	(2,178,476,411)	TOTAL	(2,178,476,411)	(937,146,581)	(394,412,179)	(362,625,938)	(436,097,646)	(6,356,015)	(10,098,312)	(5,536,360)	(1,007,585)	(16,642,258)	(1,356,146)	(464,570)	(12,357,349)	(11,017,729)
Net Electric Plant in Service	3,945,623,741	TOTAL	3,945,623,741	1,741,137,886	719,673,027	648,615,761	739,127,780	11,375,142	18,225,900	9,548,700	1,636,041	29,410,640	2,480,278	942,164	28,534,186	24,326,877
Working Capital																
Fuel Inventory	23,786,224 PROD ENERGY	TOTAL	23,786,224	7,948,201	3,537,385	4,689,234	7,081,428	60,264	150,267	92,720	18,570	261,557	11,542	2,153	75,603	118,857
Allowance Inventory-Current	17,184,522 PROD_ENERGY	TOTAL	17,184,522	5,742,233	2,555,608	3,387,769	5,116,026	43,538	108,561	66,986	13,416	188,964	8,339	2,155 1,555	54,620	85,869
Materials & Supplies - Prod Materials & Supplies - Trans	83,181,841 RB_GUP_EPIS_P 6,557,723 RB_GUP_EPIS_T	TOTAL TOTAL	83,181,841 6,557,723	33,017,380 2,609,009	14,769,677 1,162,661	14,382,480 1,128,695	19,747,324 1,557,344	252,212 19,509	390,553 30,633	240,862 18,888	49,243 4,302	680,659 53,823	50,450 3,974	11,651 936	107,951 8,649	162,058 13,123
Materials & Supplies - Trans Materials & Supplies - Dist	7,690,632 RB_GUP_EPIS_D	TOTAL	7,690,632	4,035,092	1,480,845	1,145,743	696,758	20,278	34,625	11,625	4,302 286	46,536	5,974 5,186	3,307	145,612	111,276
Total Working Capital	138,400,942	TOTAL	138,400,942	53,351,915	23,506,176	24,733,921	34,198,879	395,801	714,640	431,082	85,817	1,231,538	79,491	19,602	392,435	491,183
Rate Base Offsets																
Cook Plant Turbine Replacement (1823308) Rockport DSI Deferrals	10,942,177 PROD_DEMAND 7,997,972 PROD_DEMAND	TOTAL TOTAL	10,942,177 7,997,972	4,343,280 3,174,636	1,942,881 1,420,111	1,891,947 1,382,882	2,597,667 1,898,714	33,177 24,250	51,375 37,552	31,684 23,159	6,478 4,735	89,537 65,446	6,636 4,851	1,533 1,120	14,200 10,380	21,318 15,582
SFAS 106 Medicare Subsidy	- LABOR_M	TOTAL	-	-	-	-	1,090,714	-	-	25,155	-,755	-	-,001	-	-	-
Prepaid Pension Expense Deferred Gain Rockport Unit 2 Sale	70,598,516 LABOR_M (9,505,845) PROD_DEMAND	TOTAL TOTAL	70,598,516 (9,505,845)	31,445,910 (3,773,157)	12,244,525 (1,687,848)	11,336,924	14,426,457 (2,256,683)	198,431 (28,822)	314,968 (44,632)	181,075 (27,525)	34,224 (5,627)	530,267 (77,784)	41,712 (5,765)	12,990 (1,331)	172,186 (12,336)	189,114 (18,520)
Cook Uprate Project Deferral (1823418)	22,070,752 PROD_DEMAND	TOTAL	22,070,752	8,760,547	3,918,859	(1,643,599) 3,816,123	5,239,585	66,920	103,626	63,908	13,066	180,600	13,386	3,091	28,643	42,999
Over-Recovered Storm Expense (2540123) Total	(1,071,349) DIST_OHLINES 101,032,222	TOTAL TOTAL	(1,071,349) 101,032,222	(546,809) 43,404,407	(200,375) 17,638,153	(186,962) 16,597,315	(118,714) 21,787,026	(3,098) 290,858	(5,405) 457,484	(1,976) 270,326	- 52,875	(7,381) 780,685	(753) 60,066	(454) 16,949	(2,635) 210,438	(4,168) 246,325
									·							
Total Rate Base	4,185,056,905	TOTAL	4,185,056,905	1,837,894,208	760,817,356	689,946,997	795,113,685	12,061,801	19,398,023	10,250,107	1,774,733	31,422,863	2,619,836	978,714	29,137,058	25,064,386
Operating Revenues Firm Sales of Electricity	986,184,277 RSALE	TOTAL	986,184,277	417,018,661	173,142,257	166,886,974	206,410,819	2,591,457	4,882,647	2,802,699	537,918	8,223,264	619,006	152,254	6,213,544	4,926,041
Interruptible	700 004 BBCS BBCC	TOTAL	700 00:	040.7	100 000	40- 4	40- 0	A 2==	0.0==	0.000	40.	A 115	·=-			4 500
Demand Energy	783,391 PROD_DEMAND 87,202,948 PROD_ENERGY	TOTAL TOTAL	783,391 87,202,948	310,952 29,138,990	139,098 12,968,448	135,452 17,191,254	185,977 25,961,303	2,375 220,934	3,678 550,895	2,268 339,923	464 68,079	6,410 958,897	475 42,314	110 7,893	1,017 277,171	1,526 435,744
Interruptible - Indiana Specific	(675,645) PROD_ENERGY	TOTAL	(675,645)	(225,768)	(100,479)	(133,197)	(201,147)	(1,712)	(4,268)	(2,634)	(527)	(7,429)	(328)	(61)	(2,148)	(3,376)
Total	87,310,694	TOTAL	87,310,694	29,224,174	13,007,067	17,193,509	25,946,132	221,597	550,305	339,558	68,015	957,878	42,462	7,941	276,040	433,894

Sales for Resale

<u>Label</u>	Allocation <u>Constant</u> <u>Factor</u>	<u>Function</u>	Total <u>Retail</u> 1	<u>RS</u> 2	Total <u>GS</u>	Total <u>LGS</u>	Total <u>IP</u>	<u>MS</u> 14	WSS_SEC 15	WSS_PRI 16	<u>WSS_SUB</u> 17	Total <u>WSS</u>	<u>EHG</u> 18	<u>IS</u> 19	<u>OL</u> 20	<u>SL</u> 21
Demand Energy Total	- PROD_DEMAND 86,383,166 PROD_ENERGY 86,383,166	TOTAL TOTAL TOTAL	- 86,383,166 86,383,166	- 28,865,059 28,865,059	- 12,846,534 12,846,534	- 17,029,642 17,029,642	- 25,717,245 25,717,245	- 218,857 218,857	- 545,716 545,716	336,728 336,728	- 67,439 67,439	- 949,882 949,882	- 41,917 41,917	- 7,819 7,819	- 274,565 274,565	- 431,648 431,648
Other Operating Revenues Forfeited Discounts (Acct. 450) Miscellaneous Service Revenue (Acct. 451) Rent Assoc Co - Prod Rent Assoc Co - Trans Rent Assoc Co - Dist Rent Non-Assoc Co - Prod Rent Non-Assoc Co - Trans Rent Non-Assoc Co - Dist Rent ABD - Trans Rent ABD - Dist Other Electric Revenue - Prod Other Electric Rev. Production-Retail Demand (456) Other Electric Revenue - Transmission Other Electric Revenue - Dist Other Electric Revenue - Dist Other Electric Revenue - Dist Other Electric Revenue - Local Facil Charge Total - Other Operating Revenues	4,395,935 FORF_DISC 4,037,147 MISC_SERV_REV 3,167 RB_GUP_EPIS_P - RB_GUP_EPIS_T 4,089,405 RB_GUP_EPIS_D 100,353 RB_GUP_EPIS_P 82,351 RB_GUP_EPIS_T 389,275 RB_GUP_EPIS_T 389,275 RB_GUP_EPIS_D 185,754 RB_GUP_EPIS_D 247,228 RB_GUP_EPIS_D 247,228 RB_GUP_EPIS_D 247,228 RB_GUP_EPIS_D 120,497,293 TRAN_TO 1,703,308 RB_GUP_EPIS_D 244,129 RB_GUP_EPIS_D 139,238,698	TOTAL	4,395,935 4,037,147 3,167 - 4,089,405 100,353 82,351 389,275 185,754 3,263,352 247,228 0 (0) 120,497,293 1,703,308 244,129 139,238,698	3,271,941 3,793,442 1,257 - 2,145,614 39,833 32,764 204,243 73,903 1,712,203 98,132 0 (0) 47,940,201 893,686 128,089 60,335,309	656,080 229,556 562 - 787,422 17,819 14,601 74,956 32,934 628,364 43,898 0 (0) 21,363,740 327,975 47,007 24,224,913	309,245 7,798 548 - 609,236 17,351 14,174 57,994 31,971 486,171 42,747 0 (0) 20,739,626 253,757 36,370 22,606,988	136,922 3,328 752 - 370,493 23,824 19,557 35,268 44,113 295,654 58,692 0 (0) 28,615,981 154,317 22,118 29,781,018	700 - 10 - 10,783 304 245 1,026 553 8,605 750 0 (0) 358,483 4,491 644 386,593	6,531 520 15 - 18,412 471 385 1,753 868 14,692 1,161 0 (0) 562,880 7,669 1,099 616,456	918 260 9 - 6,181 291 237 588 535 4,933 716 0 (0) 347,062 2,575 369 364,674	- 2 - 152 59 54 14 122 121 146 0 (0) 79,051 63 9 79,795	7,449 781 26 - 24,745 821 676 2,355 1,525 19,746 2,023 0 (0) 988,993 10,307 1,477 1,060,924	2,428 134 2 - 2,758 61 50 263 113 2,201 150 0 (0) 73,025 1,149 165 82,496	1,758 14 12 167 27 1,403 35 0 (0) 17,195 732 105 21,449	8,939 1,262 4 - 77,427 130 109 7,370 245 61,787 321 0 (0) 158,918 32,250 4,622 353,384	2,231 846 6 - 59,170 196 165 5,632 372 47,218 482 0 (0) 241,129 24,645 3,532 385,624
Total Other Revenues	312,932,559	TOTAL	312,932,559	118,424,543	50,078,514	56,830,139	81,444,395	827,047	1,712,477	1,040,959	215,248	2,968,684	166,874	37,208	903,989	1,251,165
Gain on Disp of Emission Const. Allow. Total Operating Revenues Operating Expense	- PROD_ENERGY 1,299,116,835	TOTAL	- 1,299,116,835	- 535,443,203	- 223,220,771	223,717,113	- 287,855,213	3,418,504	- 6,595,124	- 3,843,658	- 753,166	11,191,948	- 785,880	- 189,462	7,117,533	6,177,206
O&M Expense Production Demand Energy GSU Total Transmission Transmission Total	351,104,497 PROD_DEMAND 335,236,837 PROD_ENERGY 433,499 PROD_DEMAND 686,774,834 PROD_DEMAND 12,252,667 TRAN_TO 12,252,667	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	351,104,497 335,236,837 433,499 686,774,834 12,252,667 12,252,667	139,363,958 112,019,871 172,069 251,555,898 4,874,760 4,874,760	62,341,732 49,854,984 76,972 112,273,687 2,172,354 2,172,354	60,707,400 66,088,840 74,954 126,871,194 2,108,892 2,108,892	83,352,018 99,803,794 102,912 183,258,725 2,909,792 2,909,792	1,064,567 849,342 1,314 1,915,224 36,452 36,452	1,648,496 2,117,822 2,035 3,768,353 57,236 57,236	1,016,663 1,306,777 1,255 2,324,695 35,291 35,291	207,852 261,716 257 469,825 8,038 8,038	2,873,011 3,686,315 3,547 6,562,873 100,565 100,565	212,945 162,671 263 375,879 7,425 7,425	49,178 30,342 61 79,581 1,748 1,748	455,652 1,065,536 563 1,521,750 16,159 16,159	684,035 1,675,143 845 2,360,023 24,519 24,519
Distribution Operation 580 Supervision & Engineering 581 Load Dispatching 582 Station Expenses 583 Overhead Lines 584 Underground Lines 585 Street Lighting 586 Meters 587 Customer Installations 588 Miscellaneous Distribution 588 Miscellaneous Distribution - Misc Distribution IN Ft. W 589 Rents Total	4,477,568 TOTOXEXP 1,002,578 DIST_CPD - DIST_CPD (292,949) DIST_OHLINES 1,884,792 DIST_UGLINES - DIST_SL 1,413,209 DIST_METERS (1,819) DIST_PCUST 13,160,875 RB_GUP_EPIS_D 914,592 DIST_LABOR_M 1,300,733 RB_GUP_EPIS_D 23,859,580	TOTAL	4,477,568 1,002,578 - (292,949) 1,884,792 - 1,413,209 (1,819) 13,160,875 914,592 1,300,733 23,859,580	2,300,468 457,052 - (149,519) 976,681 - 500,144 (1,512) 6,905,199 587,509 682,464 12,258,487	962,312 183,319 - (54,790) 353,642 - 752,130 (197) 2,534,149 146,838 250,458 5,127,863	648,880 183,058 - (51,123) 326,739 - 95,274 (13) 1,960,694 100,389 193,782 3,457,680	400,148 162,842 - (32,461) 194,934 - 34,460 (1) 1,192,352 62,144 117,844 2,132,263	11,855 2,591 - (847) 5,533 - 4,065 (1) 34,702 1,841 3,430 63,169	20,160 4,923 - (1,478) 9,546 - 6,086 (1) 59,254 3,083 5,856 107,427	6,883 3,035 - (540) 3,157 - 1,222 (0) 19,893 1,061 1,966 36,678	376 - - - - 1,067 - 489 24 48 2,004	27,419 7,959 - (2,018) 12,703 - 8,375 (2) 79,636 4,167 7,871 146,110	3,137 621 - (206) 1,347 - 1,570 (1) 8,875 497 877 16,719	2,044 178 - (124) 865 - 1,379 (0) 5,659 330 559 10,890	66,031 1,914 - (720) 4,783 - (89) 249,183 6,129 24,628 351,858	55,275 3,044 - (1,140) 7,563 - 15,810 (4) 190,425 4,748 18,820 294,543
Distribution Maintenance 590 Supervision & Engineering 591 Structures 592 Station Equipment 593 Overhead Lines 594 Underground Lines 595 Line Transformers 596 Street Lighting 597 Meters 598 Miscellaneous Distribution Total	24,507 TOTMXEXP - DIST_CPD 1,259,135 DIST_CPD 31,359,698 TOTOHLINES 1,131,694 TOTUGLINES 179,203 DIST_TRANSF (5,158) DIST_SL 65,048 DIST_METERS 161,015 DIST_OL 34,175,141	TOTAL	24,507 - 1,259,135 31,359,698 1,131,694 179,203 (5,158) 65,048 161,015 34,175,141	12,347 - 574,010 15,920,104 586,433 102,478 - 23,021 - 17,218,393	4,571 - 230,230 5,858,662 212,339 34,362 - 34,619 - 6,374,783	4,266 - 229,901 5,485,288 196,185 29,641 - 4,385 - 5,949,668	2,790 - 204,513 3,555,994 117,045 9,429 - 1,586 - 3,891,357	70 - 3,254 90,207 3,323 580 - 187 - 97,621	123 - 6,183 158,009 5,732 931 - 280 - 171,258	47 - 3,812 59,701 1,896 91 - 56 - 65,603	0 - - - - 49 - 49	170 - 9,995 217,710 7,628 1,023 - 385 - 236,911	17 - 780 21,913 809 143 - 72 - 23,735	10 - 224 12,902 519 126 - 63 - 13,844	174 - 2,404 76,251 2,872 552 - - 161,015 243,268	90 - 3,823 120,667 4,541 870 (5,158) 728 - 125,561
Customer Accounts 901 Supervision 902 Meter Read 903 Customer Records 904 Uncollectibles 905 Miscellaneous Total	862,138 TOTOX234 2,116,296 CUST_902 9,532,668 CUST_903 - UNCOLFAC 3,001,265 TOTOX234 15,512,367	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	862,138 2,116,296 9,532,668 - 3,001,265 15,512,367	772,421 1,800,250 8,636,479 - 2,688,942 13,898,092	77,199 234,149 808,940 - 268,744 1,389,032	9,540 76,231 52,672 - 33,211 171,653	298 - 4,032 - 1,039 5,369	503 1,526 5,276 - 1,752 9,058	578 1,754 6,056 - 2,012 10,399	21 62 216 - 72 371	7 22 78 - 26 134	606 1,838 6,350 - 2,110 10,905	218 660 2,279 - 757 3,914	206 1,642 1,136 - 716 3,699	- - - - -	1,147 - 15,503 - 3,994 20,645
Customer Service & Inf & Sales Exp 907 Supervision 908 Customer Assist 909 Information & Instruction 910 Miscellaneous Cust. Serv. 911-916 Misc Selling Total	803,369 EXP_OM_CUSTACCT 8,408,171 EXP_OM_CUSTACCT 28,531 EXP_OM_CUSTACCT - EXP_OM_CUSTACCT - EXP_OM_CUSTACCT 9,240,070	TOTAL TOTAL TOTAL	803,369 8,408,171 28,531 - - - 9,240,070	719,767 7,533,185 25,562 - - 8,278,514	71,936 752,897 2,555 - - 827,388	8,890 93,041 316 - - 102,247	278 2,910 10 - - 3,198	469 4,910 17 - - 5,395	539 5,637 19 - - 6,194	19 201 1 - - 221	7 73 0 - - 80	565 5,911 20 - - - 6,495	203 2,121 7 - - 2,331	192 2,005 7 - - 2,203	- - - - -	1,069 11,190 38 - - 12,297
Administrative & General Expense Reg Commission - Prod Reg Commission - Expense Insurance - Production Insurance - Transmission	9,099,010 PROD_DEMAND 490,233 LABOR_M 2,005,381 RB_GUP_EPIS_P 144,078 RB_GUP_EPIS_T	TOTAL TOTAL TOTAL TOTAL	9,099,010 490,233 2,005,381 144,078	3,611,671 218,359 795,996 57,322	1,615,610 85,025 356,073 25,545	1,573,256 78,723 346,738 24,798	2,160,100 100,177 476,076 34,216	27,589 1,378 6,080 429	42,721 2,187 9,416 673	26,347 1,257 5,807 415	5,387 238 1,187 95	74,455 3,682 16,410 1,183	5,519 290 1,216 87	1,274 90 281 21	11,808 1,196 2,603 190	17,727 1,313 3,907 288

<u>Label</u>	Allocation Constant Factor	<u>Function</u>	Total <u>Retail</u> 1	<u>RS</u> 2	Total <u>GS</u>	Total <u>LGS</u>	Total <u>IP</u>	<u>MS</u> 14	WSS_SEC 15	WSS_PRI 16	WSS_SUB 17	Total <u>WSS</u>	<u>EHG</u> 18	<u>IS</u> 19	<u>OL</u> 20	<u>SL</u> 21
Insurance - Distribution A&G - Labor Related Total	249,324 RB_GUP_EPIS_D 70,711,145 LABOR_M 82,699,172	TOTAL TOTAL TOTAL	249,324 70,711,145 82,699,172	130,814 31,496,077 36,310,240	48,008 12,264,060 14,394,321	37,144 11,355,010 13,415,670	22,588 14,449,472 17,242,629	657 198,748 234,881	1,123 315,470 371,590	377 181,364 215,568	9 34,279 41,194	1,509 531,113 628,351	168 41,778 49,058	107 13,011 14,784	4,721 172,461 192,978	3,607 189,416 216,259
Total O&M Expense	864,513,831	TOTAL	864,513,831	344,394,384	142,559,428	152,077,005	209,443,333	2,361,800	4,492,458	2,678,426	521,325	7,692,210	479,061	126,749	2,326,014	3,053,847
Depreciation & Amortization Expense Production Nuclear	59,161,452 RB_GUP_EPIS_P 68,800,801 RB_GUP_EPIS_P	TOTAL TOTAL	59,161,452 68,800,801	23,482,964 27,309,112	10,504,643 12,216,195	10,229,256 11,895,939	14,044,897 16,333,273	179,381 208,608	277,773 323,032	171,309 199,220	35,023 40,730	484,105 562,982	35,881 41,728	8,287 9,637	76,778 89,287	115,261 134,040
GSU Transmission Distribution	785,266 RB_GUP_EPIS_P 19,664,413 TRAN_TO 74,404,032 RB_GUP_EPIS_D	TOTAL TOTAL TOTAL	785,266 19,664,413 74,404,032	311,696 7,823,544 39,038,030	139,431 3,486,430 14,326,626	135,776 3,384,579 11,084,641	186,422 4,669,951 6,740,876	2,381 58,502 196,187	3,687 91,859 334,986	2,274 56,638 112,465	465 12,901 2,764	6,426 161,398 450,215	476 11,917 50,174	110 2,806 31,990	1,019 25,934 1,408,738	1,530 39,351 1,076,555
General & Intangible Total Depreciation & Amort Expense	17,995,386 RB_GUP_EPIS_G 240,811,351	TOTAL TOTAL	17,995,386 240,811,351	8,015,484 105,980,830	3,121,099 43,794,424	2,889,754 39,619,945	3,677,268 45,652,687	50,580 695,638	80,285 1,111,621	46,156 588,062	8,724 100,606	135,164 1,800,289	10,632 150,809	3,311 56,141	43,890 1,645,647	48,205 1,414,941
Regulatory Debits/Credits Reg Debits / Credits - Generation	1,098,696 RB GUP EPIS P	TOTAL	1,098,696	436,106	195,083	189,969	260,830	3,331	5,159	3,181	650	8,990	666	154	1,426	2,141
Reg Debits / Credits - Nuclear Reg Debits / Credits - Transmission Reg Debits / Credits - Distribution	5,471,088 RB_GUP_EPIS_P 322,556 RB_GUP_EPIS_T - RB_GUP_EPIS_D	TOTAL TOTAL TOTAL	5,471,088 322,556	2,171,640 128,330	971,440 57,188	945,973 55,517	1,298,833 76,601	16,589 960	25,688 1,507	15,842 929	3,239 212	44,769 2,647	3,318 195	766 46	7,100 425	10,659 645
Total Regulatory Debits/Credits	6,892,340	TOTAL	6,892,340	2,736,075	1,223,712	1,191,460	1,636,265	20,880	32,353	19,953	4,101	56,407	4,180	966	8,951	13,445
Taxes Other Than Income FICA	9,118,117 LABOR_M	TOTAL	9,118,117	4,061,381	1,581,436	1,464,215	1,863,242	25,628	40,680	23,387	4,420	68,486	5,387	1,678	22,239	24,425
Federal Unemployment Tax State Unemployment Tax Real & Personal Property Tax IN PSC Assessment Sales and Use Taxes Gross Receipts Tax Federal Excise Tax Business Franchise Tax	44,815 LABOR_M 251,079 LABOR_M 43,372,214 NP 1,499,400 RSALE 75,459 RB_GUP 20,715,673 RSALE - PROD_DEMAND RB_GUP	TOTAL	44,815 251,079 43,372,214 1,499,400 75,459 20,715,673	19,961 111,835 19,139,434 634,037 33,001 8,759,846	7,773 43,547 7,910,996 263,246 13,727 3,637,006	7,197 40,319 7,129,900 253,736 12,460 3,505,609	9,158 51,307 8,124,852 313,828 14,481 4,335,842	126 706 125,041 3,940 218 54,436	200 1,120 200,348 7,424 349 102,564	115 644 104,964 4,261 186 58,873	22 122 17,984 818 33 11,299	337 1,886 323,296 12,503 567 172,737	26 148 27,264 941 47 13,003	8 46 10,357 231 17 3,198	109 612 313,662 9,447 504 130,521	120 673 267,413 7,490 436 103,476
Regis Fee Taxes on Capital Leases	- RB_GUP 602,672 NP	TOTAL TOTAL	- 602,672	- 265,949	109,926	99,072	- 112,898	- 1,737	2,784	- 1,459	- 250	- 4,492	379	144	4,358	3,716
Total Taxes Other Than Income	75,679,429	TOTAL	75,679,429	33,025,445	13,567,657	12,512,507	14,825,607	211,833	355,468	193,888	34,948	584,304	47,197	15,680	481,452	407,747
Other O&M Expenses Line of Credit Fees Accretion Expense - Distribution Factoring Expense Accretion Expense - Production Accretion Expense - Nuclear Total Other Expenses	1,138,539 RATEBASE 24,670 RB_GUP_EPIS_D 8,127,978 RSALE 1,302,405 RB_GUP_EPIS_P - RB_GUP_EPIS_P 10,593,591	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	1,138,539 24,670 8,127,978 1,302,405 - 10,593,591	499,997 12,944 3,437,003 516,964 - 4,466,907	206,979 4,750 1,427,012 231,254 - 1,869,995	187,699 3,675 1,375,457 225,191 - 1,792,022	216,310 2,235 1,701,206 309,190 - 2,228,941	3,281 65 21,358 3,949 - 28,654	5,277 111 40,242 6,115 - 51,745	2,789 37 23,099 3,771 - 29,696	483 1 4,433 771 - 5,688	8,549 149 67,775 10,657 - 87,130	713 17 5,102 790 - 6,621	266 11 1,255 182 - 1,714	7,927 467 51,211 1,690 - 61,295	6,819 357 40,600 2,537 - 50,313
Total Operating Expense Before Income Tax	1,198,490,543	TOTAL	1,198,490,543	490,603,641	203,015,216	207,192,938	273,786,832	3,318,804	6,043,646	3,510,026	666,668	10,220,340	687,867	201,251	4,523,360	4,940,293
Gross Operating Income	100,626,292	TOTAL	100,626,292	44,839,562	20,205,555	16,524,174	14,068,381	99,700	551,478	333,632	86,498	971,608	98,013	(11,788)	2,594,174	1,236,913
Interest Expense Factor Interest Expense Synchronized	1.94000000% 81,190,104	TOTAL	81,190,104	35,655,148	14,759,857	13,384,972	15,425,205	233,999	376,322	198,852	34,430	609,604	50,825	18,987	565,259	486,249
Net Operating Income Before Income Tax	19,436,189	TOTAL	19,436,189	9,184,414	5,445,699	3,139,203	(1,356,824)	(134,299)	175,156	134,780	52,068	362,004	47,188	(30,775)	2,028,915	750,664
Schedule M Income Adjustments Gross Plant Related Property Tax Adjustments Labor Related Production Plant Related	(105,022,704) RB_GUP - NP (7,759,304) LABOR_M (16,883,451) RB_GUP_EPIS_P	TOTAL TOTAL TOTAL TOTAL	(105,022,704) - (7,759,304) (16,883,451)	(45,930,124) - (3,456,140) (6,701,551)	(19,105,540) - (1,345,765) (2,997,807)	(17,341,868) - (1,246,013) (2,919,218)	(20,154,039) - (1,585,575) (4,008,122)	(304,073) - (21,809) (51,192)	(485,734) - (34,617) (79,271)	(258,695) - (19,902) (48,888)	(45,336) - (3,761) (9,995)	(789,765) - (58,280) (138,154)	(65,791) - (4,584) (10,240)	(24,124) - (1,428) (2,365)	(701,252) - (18,925) (21,911)	(606,128) - (20,785) (32,893)
Production Demand Related Rate Base Related Production Energy Related Customer Related	2,900,290 PROD_DEMAND 703,536 RATEBASE 16,070,991 PROD_ENERGY EXP_OM_CUSTAC	TOTAL TOTAL TOTAL CT TOTAL	2,900,290 703,536 16,070,991	1,151,213 308,962 5,370,145	514,972 127,898 2,390,009	501,472 115,985 3,168,247	688,527 133,664 4,784,516	8,794 2,028 40,717	13,617 3,261 101,527	8,398 1,723 62,646	1,717 298 12,546	23,732 5,282 176,719	1,759 440 7,798	406 165 1,455	3,764 4,898 51,081	5,650 4,213 80,305
Distribution Related General Plant Related Transmission Plant Related Provision for Uncollectibles	448,664 RB_GUP_EPIS_D (4,042,887) RB_GUP_EPIS_G 322,556 RB_GUP_EPIS_T - RSALE	TOTAL TOTAL TOTAL TOTAL	448,664 (4,042,887) 322,556	235,403 (1,800,778) 128,330	86,391 (701,194) 57,188 -	66,842 (649,219) 55,517	40,648 (826,144) 76,601	1,183 (11,363) 960	2,020 (18,037) 1,507	678 (10,369) 929	17 (1,960) 212	2,715 (30,366) 2,647	303 (2,389) 195 -	193 (744) 46 -	8,495 (9,860) 425	6,492 (10,830) 645
Total Schedule M Income Adjustments	(113,262,309)	TOTAL	(113,262,309)	(50,694,540)	(20,973,847)	(18,248,255)	(20,849,924)	(334,756)	(495,727)	(263,480)	(46,262)	(805,469)	(72,508)	(26,396)	(683,285)	(573,329)
State Tax Adjustments Indiana - Gross Plant Related Indiana - Other (Tax Credit)	78,415,626 RB_GUP - RB_GUP	TOTAL TOTAL	78,415,626 -	34,293,912 -	14,265,229	12,948,376 -	15,048,094	227,037	362,675 -	193,156 -	33,850	589,681 -	49,123 -	18,012	523,593 -	452,568 -
Indiana - Production Plant Related Illinois - Gross Plant Related Kentucky - Gross Plant Related Kentucky - Production Plant Related	- RB_GUP_EPIS_P 83,641,385 RB_GUP 78,415,626 RB_GUP - RB_GUP_EPIS_P	TOTAL TOTAL TOTAL	83,641,385 78,415,626	36,579,320 34,293,912 -	15,215,889 14,265,229	13,811,279 12,948,376 -	16,050,927 15,048,094 -	242,168 227,037	386,845 362,675 -	206,028 193,156	36,106 33,850 -	628,979 589,681 -	52,397 49,123 -	19,213 18,012 -	558,486 523,593	482,728 452,568 -
Michigan - Gross Plant Related Michigan - Production Plant Related Other - Gross Plant Related West Virginia - Gross Plant Related	81,328,352 RB_GUP - RB_GUP_EPIS_P - RB_GUP - RB_GUP	TOTAL TOTAL TOTAL TOTAL	81,328,352 - - -	35,567,750 - - -	14,795,106 - - -	13,429,340 - - -	15,607,052 - - -	235,471 - - -	376,147 - - -	200,330	35,107 - - -	611,585 - - -	50,948 - - -	18,682 - - -	543,042 - - -	469,378 - - -
Indiana Taxable Income Tax Factor (Tax Rate x Apportionment) Indiana Tax including Credit	(15,410,494) 4.2746500% (658,745)	TOTAL TOTAL	(15,410,494) (658,745)	(7,216,213) (308,468)	(1,262,920) (53,985)	(2,160,676) (92,361)	(7,158,653) (306,007)	(242,018) (10,345)	42,104 1,800	64,456 2,755	39,656 1,695	146,216 6,250	23,803 1,017	(39,159) (1,674)	1,869,223 79,903	629,903 26,926
Illinois Taxable Income Tax Factor (Tax Rate x Apportionment) Illinois Tax	(10,184,735) 0.1165290% (11,868)	TOTAL TOTAL	(10,184,735) (11,868)	(4,930,805) (5,746)	(312,259) (364)	(1,297,773) (1,512)	(6,155,821) (7,173)	(226,888) (264)	66,273 77	77,328 90	41,912 49	185,514 216	27,077 32	(37,959) (44)	1,904,116 2,219	660,063 769

<u>Label</u>	Allocation <u>Constant</u> <u>Factor</u>	<u>Function</u>	Total <u>Retail</u> 1	<u>RS</u> 2	Total <u>GS</u>	Total <u>LGS</u>	Total <u>IP</u>	<u>MS</u> 14	WSS_SEC 15	WSS_PRI 16	WSS_SUB 17	Total <u>WSS</u>	<u>EHG</u> 18	<u>IS</u> 19	<u>OL</u> 20	<u>SL</u> 21
Kentucky Taxable Income	(15,410,494)	TOTAL	(15,410,494)	(7,216,213)	(1,262,920)	(2,160,676)	(7,158,653)	(242,018)	42,104	64,456	39,656	146,216	23,803	(39,159)	1,869,223	629,903
Tax Factor (Tax Rate x Apportionment) Kentucky Tax	0.0671700% (10,351)	TOTAL	(10,351)	(4,847)	(848)	(1,451)	(4,808)	(163)	28	43	27	98	16	(26)	1,256	423
Michigan Taxable Income	(12,497,768)	TOTAL	(12,497,768)	(5,942,376)	(733,042)	(1,679,712)	(6,599,696)	(233,585)	55,576	71,631	40,914	168,120	25,628	(38,490)	1,888,672	646,713
Tax Factor (Tax Rate x Apportionment) Current Michigan Tax Total Michigan Tax	0.8844120% (110,532) (110,532)	TOTAL TOTAL	(110,532) (110,532)	(52,555) (52,555)	(6,483) (6,483)	(14,856) (14,856)	(58,369) (58,369)	(2,066) (2,066)	492 492	634 634	362 362	1,487 1,487	227 227	(340) (340)	16,704 16,704	5,720 5,720
West Virginia Taxable Income Tax Factor (Tax Rate x Apportionment) West Virginia Tax	(93,826,120) 0.1489150% (139,721)	TOTAL TOTAL	(93,826,120) (139,721)	(41,510,125) (61,815)	(15,528,148) (23,124)	(15,109,052) (22,500)	(22,206,748)	(469,055) (698)	(320,571) (477)	(128,700) (192)	5,806 9	(443,465) (660)	(25,320) (38)	(57,171) (85)	1,345,630 2,004	177,335 264
Other Taxable Income	(71) RB_GUP	TOTAL	(71)	(31)	(13)	(12)	(14)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)
Tax Factor (Tax Rate x Apportionment) Other Tax	69.2280100% (49)	TOTAL	(49)	(21)	(9)	(8)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Total State Income Tax	(931,266)	TOTAL	(931,266)	(433,452)	(84,813)	(132,688)	(409,436)	(13,537)	1,919	3,330	2,141	7,391	1,254	(2,170)	102,084	34,102
Federal Taxable Income Tax Factor (Tax Rate x Apportionment)	(92,894,854) 35.00%	TOTAL	(92,894,854)	(41,076,673)	(15,443,335)	(14,976,364)	(21,797,312)	(455,518)	(322,491)	(132,030)	3,665	(450,856)	(26,574)	(55,001)	1,243,546	143,233
Gross Current FIT	(32,513,199)	TOTAL	(32,513,199)	(14,376,836)	(5,405,167)	(5,241,727)	(7,629,059)	(159,431)	(112,872)	(46,211)	1,283	(157,799)	(9,301)	(19,251)	435,241	50,132
Parent Savings Allocation	(59,276) RB_GUP	TOTAL	(59,276)	(25,923)	(10,783)	(9,788)	(11,375)	(172)	(274)	(146)	(26)	(446)	(37)	(14)	(396)	(342)
Total Current FIT	(32,572,475)	TOTAL	(32,572,475)	(14,402,759)	(5,415,951)	(5,251,515)	(7,640,434)	(159,603)	(113,146)	(46,357)	1,257	(158,245)	(9,338)	(19,264)	434,845	49,790
Deferred FIT Gross Plant Related Net Plant Related	39,249,291 RB_GUP - NP	TOTAL TOTAL TOTAL	39,249,291 - -	17,165,096 - 2,877,646	7,140,160 - 1,287,259	6,481,037	7,532,007 - 1,721,088	113,639 - 21,982	181,530 - 34,039	96,680 - 20,992	16,943 - 4.292	295,153	24,588 - 4.397	9,016	262,073	226,523
Production Plant Distribution Labor	7,249,755 RB_GUP_EPIS_P (157,032) RB_GUP_EPIS_D 2,824,448 LABOR_M	TOTAL TOTAL	7,249,755 (157,032) 2,824,448	(82,391) 1,258,062	(30,237) 489,869	1,253,512 (23,394) 453,558	(14,227) 577,162	(414) 7,939	(707) 12,601	(237) 7,244	(6) 1,369	59,323 (950) 21,215	(106) 1,669	1,015 (68) 520	9,408 (2,973) 6,889	14,124 (2,272) 7,566
Rate Base Energy Demand Transmission Revenue Related	(246,238) RATEBASE (6,492,543) PROD_ENERGY (1,015,101) PROD_DEMAND (127,274) RB_GUP_EPIS_T - RSALE	TOTAL TOTAL TOTAL TOTAL TOTAL	(246,238) (6,492,543) (1,015,101) (127,274)	(108,137) (2,169,493) (402,924) (50,636)	(44,765) (965,543) (180,240) (22,565)	(40,595) (1,279,945) (175,515) (21,906)	(46,782) (1,932,903) (240,984) (30,225)	(710) (16,449) (3,078) (379)	(1,141) (41,016) (4,766) (595)	(603) (25,308) (2,939) (367)	(104) (5,069) (601) (83)	(1,849) (71,393) (8,306) (1,045)	(154) (3,150) (616) (77)	(58) (588) (142) (18)	(1,714) (20,636) (1,317) (168)	(1,475) (32,443) (1,978) (255)
General Plant Related Total Current Year DFIT	1,415,010 RB_GUP_EPIS_G 42,700,316	TOTAL TOTAL TOTAL	1,415,010 42,700,316	630,272 19,117,496	245,418 7,919,355	227,227 6,873,979	289,150 7,854,285	3,977 126,507	6,313 186,257	3,629 99,091	686 17,427	10,628 302,775	836 27,386	260 9,938	3,451 255,013	3,790 213,582
Deferred ITC Prior Year Feedback Solar Investment Tax Credit Rockport Cook Plant Simulator Total Deferred ITC	(2,170,678) RATEBASE (343,847) RB_GUP_EPIS_P (2,214,684) RB_GUP_EPIS_P (39,148) RB_GUP_EPIS_P (4,768,357)	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	(2,170,678) (343,847) (2,214,684) (39,148) (4,768,357)	(953,267) (136,483) (879,075) (15,539) (1,984,364)	(394,616) (61,053) (393,237) (6,951) (855,857)	(357,857) (59,453) (382,928) (6,769) (807,007)	(412,404) (81,629) (525,765) (9,294) (1,029,092)	(6,256) (1,043) (6,715) (119) (14,132)	(10,061) (1,614) (10,398) (184) (22,258)	(5,316) (996) (6,413) (113) (12,838)	(921) (204) (1,311) (23) (2,458)	(16,298) (2,814) (18,122) (320) (37,554)	(1,359) (209) (1,343) (24) (2,934)	(508) (48) (310) (5) (871)	(15,113) (446) (2,874) (51) (18,484)	(13,000) (670) (4,315) (76) (18,061)
Total Federal Income Tax	5,359,484	TOTAL	5,359,484	2,730,373	1,647,548	815,457	(815,242)	(47,229)	50,854	39,896	16,225	106,976	15,114	(10,197)	671,374	245,310
Total Income Tax	4,428,218	TOTAL	4,428,218	2,296,920	1,562,735	682,769	(1,224,678)	(60,766)	52,773	43,227	18,367	114,366	16,368	(12,367)	773,458	279,412
Total Expenses	1,202,918,761	TOTAL	1,202,918,761	492,900,562	204,577,950	207,875,708	272,562,154	3,258,039	6,096,419	3,553,253	685,035	10,334,707	704,235	188,883	5,296,818	5,219,705
Net Operating Income	96,198,075	PRODUCTION TO_TRAN DISTPRI DISTSEC ENERGY CUSTOMER TOTAL	46,216,536 16,206,858 15,102,205 11,025,784 1,010,411 6,636,280 96,198,075	18,883,989 6,630,653 6,938,012 6,483,423 350,326 3,256,240 42,542,642	8,958,985 3,133,105 2,956,793 2,207,550 165,472 1,220,916 18,642,821	8,170,604 2,849,072 2,761,588 1,728,228 205,348 126,565 15,841,405	9,297,976 3,274,141 2,116,341 318,138 255,693 30,769 15,293,059	82,905 28,496 22,608 21,097 1,527 3,832 160,465	248,092 86,468 83,001 63,568 7,356 10,220 498,705	168,613 58,754 56,399 - 5,002 1,637 290,405	46,710 18,133 - - 1,357 1,931 68,131	463,416 163,355 139,400 63,568 13,716 13,788 857,241	38,848 13,598 12,696 12,210 685 3,608 81,645	170 61 69 225 2 52 579	166,674 59,337 78,430 97,498 8,996 1,409,780 1,820,715	152,968 55,041 76,270 93,847 8,646 570,730 957,501
Current Rate of Return	2.30%		2.30%	2.31%	2.45%	2.30%	1.92%	1.33%	2.57%	2.83%	3.84%	2.73%	3.12%	0.06%	6.25%	3.82%
Production Demand Production Energy Transmission Distribution Customer Accounts Customer Service Total Production Demand Production Energy Total Production	99,551,999 PROD_DEMAND 3,119,758 PROD_ENERGY 7,467,937 TOTBSEXP 18,346,619 EXP_OM_DIST 7,187,740 EXP_OM_CUSTACC 2,540,733 EXP_OM_CUSTSER 138,214,785 99,551,999 PROD_DEMAND 3,119,758 PROD_ENERGY 102,671,757		99,551,999 3,119,758 7,467,937 18,346,619 7,187,740 2,540,733 138,214,785 99,551,999 3,119,758 102,671,757	39,515,189 1,042,472 2,971,140 9,318,578 6,439,757 2,276,335 61,563,470 39,515,189 1,042,472 40,557,661	17,676,344 463,957 1,324,039 3,636,352 643,616 227,506 23,971,813 17,676,344 463,957 18,140,301	17,212,947 615,031 1,285,358 2,973,962 79,537 28,115 22,194,950 17,212,947 615,031 17,827,978	23,633,591 928,787 1,773,503 1,904,258 2,488 879 28,243,506 23,633,591 928,787 24,562,378	301,847 7,904 22,217 50,831 4,197 1,484 388,480 301,847 7,904 309,751	467,414 19,709 34,885 88,101 4,819 1,703 616,631 467,414 19,709 487,122	288,264 12,161 21,509 32,334 172 61 354,502 288,264 12,161 300,425	58,934 2,436 4,899 649 62 22 67,003 58,934 2,436 61,370	814,612 34,305 61,294 121,085 5,053 1,786 1,038,135 814,612 34,305 848,918	60,378 1,514 4,526 12,789 1,814 641 81,661 60,378 1,514 61,892	13,944 282 1,066 7,819 1,714 606 25,431 13,944 282 14,226	129,195 9,916 9,849 188,138 - 337,099 129,195 9,916 139,111	193,951 15,589 14,944 132,808 9,566 3,381 370,240 193,951 15,589 209,540
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