Direct Testimony

of

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Financial Analysis Division

Illinois Commerce Commission

Commonwealth Edison Company

Revenue-neutral tariff changes related to rate design

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WITNESS IDENTIFICATION

Q. Please state your name, your employer, and your business address.

A. My name is William R. Johnson. I am employed by the Illinois Commerce Commission ("ICC" or "Commission"). My business address is 527 East Capitol Avenue, Springfield, Illinois 62701.

Q. How long have you been employed by the Commission?

A. I have been employed by the Commission since September 1994.

Q. Please briefly state your qualifications and experience.

A. I received a Bachelor of Arts degree in Economics from Sangamon State University (now University of Illinois at Springfield) in May 1990 and a Master of Arts degree in Economics, also from Sangamon State University, in December 1993. I have also completed the following Society of Depreciation Professionals courses: Basic Depreciation, Life and Net Salvage Analysis, and Preparing and Defending a Depreciation Study.

In September 1994, I was employed as an Economic Analyst in the Rates Department of the Commission. In that capacity, I reviewed and analyzed filings by electric, gas, water, and sewer utilities with regard to cost of service and rate design. In January 2000, I was reassigned to the Water Department of the Financial Analysis Division as an Economic Analyst. My duties included: (1) evaluating tariff filings; (2) inspecting water and wastewater facilities for

compliance with Commission rules; (3) assisting the Consumer Services Division in handling inquiries and complaints; (4) evaluating testimony presented by water and wastewater utilities; and (5) testifying as a Commission Staff ("Staff") witness in rate proceedings, applications for certificates of public convenience and necessity, applications for reorganizations, and other formal proceedings which include water and/or wastewater related issues. In February 2012, pursuant to a reorganization of the Public Utilities Bureau, I was reassigned to the Rates Department of the Financial Analysis Division as an Economic Analyst.

Q. Have you previously testified before the Commission?

A. Yes, I have previously testified before the Commission on numerous issues related to my duties, which include cost of service, rate design, water and wastewater depreciation rates, water and wastewater certification, and utility reorganizations.

Q. What is the purpose of this proceeding?

A. The Company has made this filing in accordance with Section 16-108.5(e) of the Public Utilities Act ("Act"). The Act states in part:

> (e) Nothing in subsections (c) or (d) of this Section shall prohibit the Commission from investigating, or a participating utility from filing, revenue-neutral tariff changes related to rate design of a performance-based formula rate that has been placed into effect for the utility. Following approval of a participating utility's performance-based formula rate tariff pursuant to subsection (c) of this Section, the utility shall make a filing with the Commission within one year after the effective date of the performance-based formula rate tariff that proposes changes to the tariff to incorporate

> the findings of any final rate design orders of the Commission applicable to the participating utility and entered subsequent to the Commission's approval of the tariff. The Commission shall, after notice and hearing, enter its order approving, or approving with modification, the proposed changes to the performance-based formula rate tariff within 240 days after the utility's filing. Following such approval, the utility shall make a filing with the Commission during each subsequent 3-year period that either proposes revenue-neutral tariff changes or re-files the existing tariffs without change, which shall present the Commission with an opportunity to suspend the tariffs and consider revenue-neutral tariff changes related to rate design.

PURPOSE OF TESTIMONY

Q. What is the purpose of your direct testimony?

A. The purpose of my testimony is to review the various embedded cost-of-service studies ("ECOSS") and rate design models provided by Commonwealth Edison Company ("ComEd" or "Company") and provide a recommendation to the Commission concerning the ECOSS and rate design models that should be utilized. I will also provide an overview of Commission directives from Docket Nos. 10-0467 and 11-0498.

Q. Are you sponsoring any schedules or attachments with your testimony?

A. Yes. I am sponsoring the following attachments:

Attachment 1.01 – Response to Staff Data Request WRJ 7.02;

Attachment 1.02 – Response to Staff Data Request WRJ 9.02.

Q. Please summarize your findings and recommendations.

A. My findings and recommendations are as follows:

(1) I recommend the Commission approve the ECOSS methodology presented in ComEd Ex. 3.14, the illustrative ECOSS that is the same as the rate design investigation ("RDI") ECOSS, with the exception that it incorporates all the findings and recommendations presented in the Christensen Associates Energy Consulting, LLC ("CA") Distribution Study other than those pertaining to the allocation of costs associated with 4kV facilities; and

(2) I recommend the Commission approve my proposed rate design, which is consistent with the current Commission approved rate design (approved in Docket No. 10-0467) but utilizes the cost inputs from ComEd Ex. 3.14 with next step revenue responsibilities.

Q. How is your testimony organized?

A. First, I identify the Company's proposed ECOSS, as well as the illustrative ECOSSs, and then present my proposed ECOSS. Second, I discuss class revenue responsibility. Third, I identify ComEd's proposed rate design, as well as the illustrative rate design models, and the rate design I am recommending. Fourth, I provide an overview of the Commission directives from Docket Nos. 10-0467 and 11-0498. Finally, I provide a summary of my recommendations.

EMBEDDED COST OF SERVICE STUDY

Q. What is the purpose of an ECOSS?

A. An ECOSS is used to determine the responsibility of ratepayers for the costs incurred by the utility. The results of the study serve as a guide for determining the level of revenues to be received from the various customer classes and for designing rates to recover those revenues.

Q. Has the Company provided an ECOSS for this proceeding?

A. Yes. The Company has provided several ECOSSs for this proceeding. ComEd has provided a RDI ECOSS, a 2013 formula rate update proceeding ("2013 FRU") or ("FRU") ECOSS and six illustrative ECOSSs.[1]

Q. Why has the Company provided several different ECOSSs?

A. The Company provided several different ECOSSs because past Commission orders, as I discuss later in my testimony, directed the Company to examine various issues and provide findings and recommendations to the Commission in the next rate design proceeding. The Company has incorporated some of the findings and recommendations into various ECOSSs. ComEd utilized a consulting firm, Christensen Associates Energy Consulting ("CA Energy Consulting") along with SAIC (formerly Patrick Energy Services Inc.) and PEI (Patrick Engineering Inc.) to assist ComEd in addressing some of the

[1] ComEd Ex. 3.0, pp. 1-2.

Commission's directives.[2] CA Energy Consulting and SAIC together are referred to as "the project team." I discuss the various Commission directives later in my testimony.

Q. Please provide a summary of the Company's proposed ECOSSs.

A. The following eight ECOSSs were provided by the Company:

1. <u>2013 FRU ECOSS</u> – The FRU ECOSS is the ECOSS provided in Docket No. 13-0318 for the annual formula rate update case. ComEd states that the FRU ECOSS is consistent with the Commission's 2010 ComEd rate case Order (Docket No. 10-0467).[3] In fact, the Company has stated in Docket No. 13-0318 that the FRU ECOSS was developed using the same methodology it used in Docket No. 11-0721 (ComEd's 2011 formula rate case) and Docket No. 12-0321 (ComEd's 2012 formula rate update case).[4]
2. <u>RDI ECOSS</u> - The RDI ECOSS differs in two ways from the FRU ECOSS. First, the services and standard meters allocation factors used in the RDI ECOSSs have been revised to reflect the updated standard meter service allowances and meter rentals. Second, the RDI ECOSS removes references associated with two cost categories (i.e., shared primary/secondary transformers subfunction and computations pertaining to uncollectible costs). The Company states that it removed the shared

[2] ComEd Ex. 3.07, p. 1.
[3] ComEd Ex. 3.0, pp. 20-21.
[4] ICC Docket No. 13-0318, ComEd Ex. 10.0, pp. 4-5.

primary/secondary transformers sub-function because costs are no longer functionalized to the sub-function. ComEd also states that it removed computations pertaining to uncollectible costs in response to the Commission's directive to remove uncollectible costs from the determination of the Rate Year Net Revenue Requirement. ComEd also opined that none of the differences in the RDI ECOSS constitutes a change in the functionalization or allocation methodologies employed in the 2013 FRU ECOSS. Therefore, according to ComEd, both the RDI ECOSS and the 2013 FRU ECOSS are consistent with the Commission's 2010 ComEd general rate case Order (Docket No. 10-0467).[5]

3. Illustrative ECOSS, ComEd Ex. 3.10 – This illustrative ECOSS is the same as the RDI ECOSS, with the exception that it incorporates all the findings and recommendations presented in CA Energy Consulting's Distribution Study (CA Distribution Study) (ComEd Ex. 3.07).[6] The CA Distribution Study addresses direct observation, circuit sample representativeness, allocation of primary voltage costs for the Railroad ("RR") class and Extra Large Load ("ELL") class (i.e., Dividing primary voltage distribution costs into 4 kilovolt ("kV") and above 4kV categories), ELL assets and the analysis of Rider NS – nonstandard services and facilities. All of the CA Distribution Study recommendations and findings are a result of the Commission directives in Docket No. 10-0467.[7]

[5] ComEd Ex. 3.0, pp. 20-21.
[6] *Id.*, p. 5.
[7] ComEd Ex. 3.07, p. 1.

4. Illustrative ECOSS, ComEd Ex. 3.12 - This illustrative ECOSS is the same as the RDI ECOSS, with the exception that it incorporates the findings pertaining to the allocation of costs associated with 4kV facilities presented in the CA Distribution Study.[8]
5. Illustrative ECOSS, ComEd Ex. 3.14 - This illustrative ECOSS is the same as the RDI ECOSS, with the exception that it incorporates all the findings and recommendations presented in the CA Distribution Study other than those pertaining to the allocation of costs associated with 4kV facilities.[9]
6. Illustrative ECOSS, ComEd Ex. 3.16 - This illustrative ECOSS is the same as the RDI ECOSS, with the exception that it incorporates indirect uncollectible cost allocation factors in accordance with the Indirect Uncollectible Cost Study (ComEd Ex. 3.08).[10] The Indirect Uncollectible Cost Study was performed as a result of a Commission directive in Docket No. 10-0467.[11]
7. Illustrative ECOSS, ComEd Ex. 3.17 - This illustrative ECOSS is the same as the RDI ECOSS, with the exception that it allocates certain distribution facilities costs by a single non-coincidental peak demand ("NCP") allocation factor for the entire group of residential customers.[12] This is a result of a Commission directive in Docket No. 11-0498.[13]

[8] ComEd Ex. 3.0, p. 5.
[9] *Id*.
[10] *Id*., p. 6.
[11] ComEd Ex. 3.08, p. 1.
[12] ComEd Ex. 3.0, p. 6.
[13] Final Order, Docket No. 11-0498, April 18, 2012, p. 8.

8. Illustrative ECOSS, ComEd Ex. 3.18 - This illustrative ECOSS is the same as the RDI ECOSS, with the exception that it allocates certain distribution facilities costs by a single NCP allocation factor for the entire group of residential customers, a single NCP allocation factor for the entire group of nonresidential customers, and a single NCP allocation factor for the entire group of lighting customers.[14]

Q. Which ECOSS is the Company proposing be approved?

A. ComEd takes no position at this time as to the relative merits of the methodologies applied in any of the ECOSSs.[15] However, the Company states that they are making no revisions to the Rate DSPP "Determination of Delivery Service Charges" tariff, which is based upon the Docket No. 10-0467 ECOSS. As discussed previously, the Company has updated the Docket No. 10-0467 ECOSS (i.e., RDI ECOSS) and states that the RDI ECOSS is consistent with the Commission's 2010 ComEd general rate case Order.[16] The Company utilizes the RDI ECOSS as the basis for comparison of the six illustrative ECOSSs to show what changes occur in cost allocations. Since the Company takes no position on the relative merits of the various ECOSSs and is filing the Rate DSPP tariff with no revisions, it appears that the Company proposes, in effect, that the RDI ECOSS should be approved by the Commission.

[14] ComEd Ex. 3.0, p. 6.
[15] *Id.*, p. 38.
[16] *Id.*, p. 23.

Q. Have you had an opportunity to review the ECOSSs presented by the Company along with the previous Commission Orders that caused the Company to propose the various ECOSSs?

A. Yes. As discussed below, my review found certain methods evaluated in the Company's studies to be reasonable alternatives to those currently used by ComEd.

Q. After reviewing the various ECOSSs and Commission Orders, do you agree with the Company's proposal to utilize the RDI ECOSS?

A. No, I do not. While ComEd states that the RDI ECOSS is consistent with the ECOSS approved by the Commission in Docket Nos. 10-0467, 11-0721 and 12-0321, it does not take into consideration any of the issues the Commission directed the Company to study. I believe the ECOSS should be adjusted to incorporate some of the project team's recommendations from the CA Distribution Study (ComEd Ex. 3.07).

Q. What is your ECOSS recommendation?

A. I recommend the Commission approve the ECOSS methodology presented in ComEd Ex. 3.14, the illustrative ECOSS that is the same as the RDI ECOSS, with the exception that it incorporates all the findings and recommendations presented in the CA Distribution Study other than those pertaining to the allocation of costs associated with 4kV facilities. However, I reserve the right to

reevaluate my position in rebuttal if other parties to the proceeding identify valid areas of concern.

Q. Why are you recommending the Commission approve the ECOSS methodology presented in ComEd Ex. 3.14?

A. The ECOSS presented in ComEd Ex. 3.14 addresses valid concerns that Staff raised, and which the Commission agreed with, in Docket No. 10-0467. These concerns relate to direct observation of ComEd facilities, circuit sample representation, and review of other utilities' treatment of primary/secondary issues. ComEd has provided information in this proceeding to address each of those concerns. The ECOSS presented in ComEd Ex. 3.14 includes the recommendations made by the project team that addresses the ECOSS concerns of Staff and the Commission from Docket No. 10-0467.

Q. Are you able to discuss the three ECOSS concerns raised by Staff in Docket No. 10-0467 and how they have been addressed by the Company.

A. Yes.

Q. What were the concerns regarding the direct observation of facilities in Docket No. 10-0467?

A. The Commission Order in Docket No. 10-0467 noted that ComEd was directed in a prior docket (Docket No. 08-0532) to use direct observation or sampling and estimation techniques of its system to develop more accurate and transparent

differentiation of primary and secondary costs in its next rate case, but that it failed to do so.[17] Thus, the Docket No. 10-0467 Order directed the Company to work with Staff:

> …to develop a scientifically-significant representative of its direct observations of this issue. It shall also have this representation in its cost of service study/studies in its next rate case. This analysis shall be part of any initial rate case filing that ComEd makes.[18]

The subsequent rate cases filed by the Company were formula rate cases that, per statute, largely deferred the rate design and cost of service issues to this current proceeding.

Q. How did ComEd address the Commission's direct observation directive?

A. ComEd utilized the project team to address the Commission's directive.[19] The project team used direct observation for underground conduit outside the City of Chicago; weather resistant wire ("WRW"); poles 50 feet or lower in height; poles taller than 50 feet in height; and poles that carry both primary and secondary equipment. According to the CA Distribution Study, the project team established sample sizes using a standard formula for sampling proportions. [20] The project team used a field inspection check list to record its observations, which included operating voltage, length and number of conductors, length and number of conduits, the location code, wood pole height and class, pole number, phase configuration, the operating voltage of circuits on poles, and equipment installed

[17] Final Order, Docket No. 10-0467, May 24, 2011, pp. 180-181.
[18] *Id.*
[19] ComEd Ex. 3.07, p. 1.
[20] *Id.,* p. 2.

on poles. The project team also created a field sketch of the electrical path of the circuit from the customer meter back to the substation for each circuit, with relevant information such as the locations of the recorded facilities and line lengths.[21]

Q. What were the results of the CA Distribution Study with regard to direct observation?

A. The project team's direct observation found no underground conduit in use at the secondary voltage level. Therefore, the project team retained ComEd's original allocation of 1 percent of these costs (underground conduit outside the City of Chicago) to secondary voltage distribution.[22]

The project team's direct observation review of WRW found an allocation of 22.4 percent to secondary distribution costs, 1.0 percent to secondary transformer costs, and 76.6 percent to shared (primary) distribution costs. The results found a substantially higher proportion of shared costs than ComEd assumed in Docket No. 10-0467, where 30 percent of WRW was allocated to shared distribution costs.[23]

For poles that carry both primary and secondary lines ("combination poles"), ComEd allocated 50 percent as secondary costs and 50 percent as primary or

[21] *Id*., p. 6.
[22] *Id*., p. 10.
[23] *Id*.

shared costs in Docket No. 10-0467. CA Energy Consulting's recommendation is to remove the 50/50 split of combination pole costs across secondary and primary voltage services and instead allocate 100 percent of combination pole costs as shared costs. The reason for their recommendation is that the combination pole exists to accommodate primary lines first and foremost. The attachment of secondary lines is a convenience for secondary service. The utility would not be able to transmit power efficiently if it did not have the primary service level at the pole's location (i.e., a utility cannot have secondary service without primary service).[24]

For poles 50 feet or lower in height, ComEd allocated 74.2 percent to shared costs in Docket No. 10-0467. The project team, through direct observation, found that 92.8 percent of poles 50 feet or lower should be allocated to shared costs.

For poles taller than 50 feet in height, ComEd allocated 82.5 percent to shared costs in Docket No. 10-0467. The project team, through direct observation, found that 97.5 percent of poles taller than 50 feet should be allocated to shared costs.

[24] *Id.*

The project team's recommended allocations are provided in ComEd Ex. 3.07, Table 2.3, page 13 and incorporated into the ECOSS found in ComEd Exs. 3.10 and 3.14.

Q. What were the circuit sample representation concerns in Docket No. 10-0467?

A. The Commission found that the Company's sampling method was flawed for identifying primary level circuits that only serve secondary customers. Staff recommended examination of a larger sample before drawing conclusions about the full set of distribution circuits on the system.[25] ComEd used a sample of four primary voltage circuits to illustrate its contention that circuits serve a variety of customer types with both underground and overhead facilities making it difficult to determine which specific distribution facilities serve particular customer groups.[26] The Commission stated: "…ComEd shall examine a larger, representative sample in its analysis and present the results contemporaneously with the initial filing in its next rate case."[27] The Commission wanted ComEd to explore whether sampling techniques could be used to develop a more accurate and transparent differentiation of primary and secondary costs.[28]

Q. How did ComEd address the Commission's circuit sample representation directive?

[25] Docket No. 10-0467, ICC Staff Ex. 10.0, pp. 26-28.
[26] ComEd Ex. 3.07, p. 20.
[27] Final Order, Docket No. 10-0467, May 24, 2011, p. 182.
[28] *Id.*, p. 181.

A. As with the direct observation directive, the Company utilized CA Energy Consulting and SAIC (the project team) to address the Commission's sampling directive. The project team utilized a much larger sample of 167 circuits, compared to 4 circuits in the sample from Docket No. 10-0467.

Q. What were the results of the CA Distribution Study with regard to use of a larger sample?

A. The project team found that while ComEd's sample of four circuits is not large enough to provide a statistically valid sample, the conclusions they reached in ComEd Ex. 21.6 (Docket No. 10-0467) are supported by the statistically valid sample drawn by the project team in the CA Distribution Study. They found that circuits tend to deliver electricity across both overhead and underground facilities in ComEd's primary distribution system and serve a diverse group of customers that includes secondary voltage residential, nonresidential, and lighting customers, in addition to serving primary voltage nonresidential customers and railroad traction power substations.[29]

Q. What were the concerns with regard to the Company's review of other utilities' treatment of primary/secondary issues?

A. The Company failed to present a detailed analysis of the primary/secondary cost analyses prepared by other utilities. The Commission directed ComEd to review the primary and secondary systems of other utilities and also produce cost of

[29] ComEd Ex. 3.07, p. 21.

service studies that reflect analysis of what other utilities do regarding this issue in a meaningful manner.[30]

Q. How did ComEd address the Commission's directive to review other utilities' treatment of primary/secondary issues?

A. ComEd utilized CA Energy Consulting to survey electric utilities to acquire other utilities' information concerning primary/secondary issues and also to acquire participating utilities' cost-of-service studies, where available.[31] The CA Energy Consulting survey is called the CA Cost Allocation Survey and is attached to ComEd witness Bradley L. Bjerning's direct testimony as ComEd Ex. 3.09.

Q. What were the results of the CA Cost Allocation Survey?

A. The CA Cost Allocation Survey found that industry practices are variable across service territories, and yet within the range of proper COS practices identified by the National Association of Regulatory Utility Commissioners ("NARUC"). The CA Cost Allocation Survey stated that ComEd's costing practices are well within the range of those reported in the survey.[32]

CLASS REVENUE RESPONSIBILITY

Q. What is class revenue responsibility?

[30] Final Order, Docket No. 10-0467, May 24, 2011, pp. 184-185.
[31] ComEd Ex. 3.09, p. 1.
[32] *Id.*, p. 3.

A. Each of ComEd's rate classes are responsible for recovering a certain amount of the total revenue requirement through rates. An ECOSS determines each class' cost responsibility and, therefore, how much revenue is necessary from each class in order to recover that class' costs. When a utility proposes a rate design it is determining how much revenue will be recovered from each class and also whether the cost to provide service to each class ("cost to serve") will be fully recovered from the respective class. For example, if the ECOSS identifies a residential class' cost to serve is $1 million and proposed residential rates are set to recover $1 million, then 100% of the residential class' cost of service is being recovered from the residential class. However, if the proposed residential rates recover less than $1 million, then the residential class would be paying less than 100% of its cost to serve and other classes would be required to pay higher rates in order to make up the resulting revenue shortfall. Cost of service is a very important tool in the development of rates and is a key consideration in determining whether individual classes should solely bear their own costs.

Q. What are ComEd's rate classes?

A. ComEd currently has the following rate classes:

- Single Family Without Electric Space Heat ("SFNH")
- Multi Family Without Electric Space Heat ("MFNH")
- Single Family With Electric Space Heat ("SFH")
- Multi Family With Electric Space Heat ("MFH")
- Watt-Hour ("WH")

- Small Load ("SL")
- Medium Load ("ML")
- Large Load ("LL")
- Very Large Load ("VLL")
- Extra Large Load ("ELL")
- High Voltage ("HV")
- Railroad ("RR")
- Fixture Included Lighting ("FIL")
- Dusk to Dawn Lighting ("DDL")
- General Lighting ("GL").

Q. What type of class revenue responsibility is the Company proposing?

A. ComEd's proposal of utilizing the RDI rate design[33] results in some classes having a revenue responsibility that is equal to, less than, or more than 100% of that class' cost to serve.[34] However, ComEd has presented several rate design models that provide various class revenue responsibility results for the Commission and other parties to review. While I am not an attorney, it is my understanding that this is a revenue-neutral proceeding, therefore, if one class' revenue responsibility changes then other classes' revenue responsibilities will be affected as well. The Company makes revenue responsibility comparisons between the RDI rate design model and the six illustrative rate design models

[33] ComEd Ex. 2.0, p. 12 states that RDI Rate Design includes cost inputs from the RDI ECOSS and FIL data inputs that reflect ComEd's proposal to offer LED Lighting units to the FIL Delivery Class.
[34] ComEd Ex. 2.0, pp.11 & 27.

since the RDI rate design follows the current Rate DSPP tariff. This gives the parties an opportunity to view the differences between what the revenue responsibility is under the current Rate DSPP tariff and what it would be under each of the various illustrative rate designs. It should also be noted that the revenue responsibilities will change based upon the final revenue requirement that the rate design is applied to. For example, the Company's assumed revenue requirement in this case is the same as that proposed in the initial filing for the 2013 FRU case. It is likely that the final revenue requirement approved in the 2013 FRU case will not equal what was proposed by the Company. Depending on when the rate design from this proceeding is actually put in place, the class revenue responsibilities will undoubtedly change.

The Company provided annual revenue responsibility tables that compare the RDI rate design with the various other rate design examples (ComEd Ex. 2.0, Tables CST-D3, and CST-D8 through CST-D21). The information in the tables includes the annual amount of revenues per class, the percent of cost per class, and the unitized amount per kWh per class.

Staff's proposed revenue responsibilities are identified on ICC Staff Ex.1.0, Attachment 1.01, which is a response to Staff DR WRJ 7.02. The table compares the revenue responsibility under the Company's RDI rate design and Staff's rate design proposal that reflects next step revenue responsibility. Staff's rate design, similar to the Company's rate design, results in some classes having

a revenue responsibility that is equal to, less than, or more than 100% of their cost to serve. However, under Staff's rate design the classes that are currently subsidizing the ELL, HV, and RR delivery classes (i.e., the SL, ML, LL, and VLL delivery classes) will see their share of those subsidies decrease.

RATE DESIGN

Q. What is ComEd's current rate design?

A. ComEd's rates are determined according to Rate DSPP – Delivery Service Pricing and Performance tariffs in accordance with the provisions of subsection 16-108(e) of the Act.

Q. What rate design has the Company provided in this proceeding?

A. The Company has provided various rate design examples for consideration in this proceeding. It provided a separate rate design based upon the following: 1) RDI ECOSS (at current revenue responsibility, 100% revenue responsibility, and the next step revenue requirement); 2) ComEd Ex. 3.10 ECOSS (at current revenue responsibility and 100% revenue responsibility); 3) ComEd Ex. 3.12 ECOSS (at current revenue responsibility and 100% revenue responsibility); 4) ComEd Ex. 3.14 ECOSS (at current revenue responsibility and 100% revenue responsibility); 5) ComEd Ex. 3.16 ECOSS (at current revenue responsibility and 100% revenue responsibility); 6) ComEd Ex. 3.17 ECOSS (at current revenue

responsibility and 100% revenue responsibility); and 7) ComEd Ex. 3.18 ECOSS (at current revenue responsibility and 100% revenue responsibility).

Q. Please explain what current revenue responsibility, 100% revenue responsibility, and next step revenue responsibilities are.

A. The Company states that the revenue responsibility for any given delivery class in the RDI Rate Design is the same as the revenue responsibility for that delivery class in the 2013 FRU Rate Design. Specifically, the revenue responsibility for the ELL Delivery Class is 71.9%; the HV Delivery Class is 85.3%; and the RR Delivery Class is 85.1%. Meanwhile, the revenue responsibility for each of the SL, ML, LL, and VLL delivery classes is 101.8%. The revenue responsibility for each of the remaining eight delivery classes is 100%. These revenue responsibilities are in the 2013 FRU Rate Design and maintained in the RDI Rate Design in accordance with the 2010 Rate Case Order. These revenue responsibility percentages, collectively, are referred to as the Current Revenue Responsibility Levels.[35]

100% revenue responsibility means that the revenue responsibility of a class is equal to the costs allocated to that class in the ECOSS. The rates would be considered fully cost based for the classes.

[35] ComEd Ex. 2.0, p. 14.

Next step revenue responsibility is a process that started in a previous docket. In Docket No. 07-0566 the Commission approved a four-step movement towards rates based upon the ECOSS for the ELL, HV, and RR delivery classes.[36] In ICC Docket No. 10-0467, in response to the Commission's directive for ComEd to address public policy considerations in the rate design applicable to the Railroad Delivery Class, ComEd proposed, and the Commission approved, a ten-step process to move the RR class closer to cost of service through adjustments to the DFC charge in order to mitigate the effects of rate shock.[37] The Commission also adopted the second step movement towards cost based rates for the ELL and HV classes in Docket No. 10-0467.[38]

As discussed previously, ICC Staff Ex.1.0, Attachment 1.01 is a table that compares the revenue responsibility under the Company's RDI rate design and Staff's rate design proposal that reflects next step revenue responsibility.

Q. Why has the Company provided various rate design examples?

A. The Company provided several different rate design examples because past Commission rulings directed the Company to examine various issues and provide findings and recommendations to the Commission in the next rate design proceeding. This provides the Commission and other parties the opportunity to review the results.

[36] Final Order, Docket No. 07-0566, September 10, 2008, p. 213.
[37] Final Order, Docket No. 10-0467, May 24, 2011, pp. 257-260.
[38] *Id.*, p. 264.

Q. Please provide a summary of the Company's various rate design examples.

A. The following rate designs were provided by the Company:

(1) 2013 FRU Rate Design (ComEd Ex. 2.03) – The 2013 FRU rate design is based upon the FRU ECOSS provided in Docket No. 13-0318 for the annual formula rate update case. The 2013 FRU rate design is consistent with the rate design approved in the Commission's rate case order in Docket No. 10-0467.[39]

(2) RDI Rate Design (ComEd Ex. 2.04, 2.06, and 2.07) – The RDI rate design is based on the RDI ECOSS and reflects ComEd's proposal to offer LED lighting units to the FIL delivery class. The Company states that all of the formulae and methodologies in the RDI rate design are the same as those in the 2013 FRU rate design. [40] ComEd presents three rate designs associated with the RDI ECOSS: one at current revenue responsibility levels (ComEd Ex. 2.04); one at 100% revenue responsibility (ComEd Ex. 2.06); and, one at the next step revenue requirement (ComEd Ex. 2.07).

(3) Rate Design associated with ComEd Ex. 3.10 ECOSS (ComEd Ex. 2.08 and 2.09) – This rate design is based upon the results of the ComEd Ex. 3.10 ECOSS. The ComEd Ex. 3.10 ECOSS incorporates all the findings and recommendations presented in the CA Distribution Study (ComEd Ex.

[39] ComEd Ex. 2.0, p. 12.
[40] *Id.*

3.07), as discussed in the ECOSS section of my testimony. The Company provided two rate designs associated with the ComEd Ex. 3.10 ECOSS: one at current revenue responsibility (ComEd Ex. 2.08) and the other at 100% revenue responsibility (ComEd Ex. 2.09).

(4) Rate Design associated with ComEd Ex. 3.12 (ComEd Ex. 2.10 and 2.11) – This rate design is based upon the results of the ComEd Ex. 3.12 ECOSS. The ComEd Ex. 3.12 ECOSS incorporates the findings pertaining to the allocation of costs associated with 4kV facilities presented in the CA Distribution Study (ComEd Ex. 3.07), as discussed in the ECOSS section of my testimony. The Company provided two rate designs associated with the ComEd Ex. 3.12 ECOSS: one at current revenue responsibility (ComEd Ex. 2.10) and the other at 100% revenue responsibility (ComEd Ex. 2.11).

(5) Rate Design associated with ComEd Ex. 3.14 (ComEd Ex. 2.12 and 2.13) – This rate design is based upon the results of the ComEd Ex. 3.14 ECOSS. The ComEd Ex. 3.14 ECOSS incorporates all the findings and recommendations presented in the CA Distribution Study (ComEd Ex. 3.07) other than those pertaining to the allocation of costs associated with 4kV facilities, as discussed in the ECOSS section of my testimony. The Company provided two rate designs associated with the ComEd Ex. 3.14 ECOSS: one at current revenue responsibility (ComEd Ex. 2.12) and the other at 100% revenue responsibility (ComEd Ex. 2.13).

(6) Rate Design associated with ComEd Ex. 3.16 (ComEd Ex. 2.14 and 2.15) – This rate design is based upon the results of the ComEd Ex. 3.16 ECOSS. The ComEd Ex. 3.16 ECOSS incorporates indirect uncollectible cost allocation factors in accordance with the Indirect Uncollectible Cost Study (ComEd Ex. 3.08), as discussed in the ECOSS section of my testimony. The Company provided two rate designs associated with the ComEd Ex. 3.16 ECOSS: one at current revenue responsibility (ComEd Ex. 2.14) and the other at 100% revenue responsibility (ComEd Ex. 2.15).

(7) Rate Design associated with ComEd Ex. 3.17 (ComEd Ex. 2.16 and 2.17) – This rate design is based upon the results of the ComEd Ex. 3.17 ECOSS. The ComEd Ex. 3.17 ECOSS allocates certain distribution facilities costs by a single NCP allocation factor for the entire group of residential customers, as discussed in the ECOSS section of my testimony. The Company provided two rate designs associated with the ComEd Ex. 3.17 ECOSS: one at current revenue responsibility (ComEd Ex. 2.16) and the other at 100% revenue responsibility (ComEd Ex. 2.17).

(8) Rate Design associated with ComEd Ex. 3.18 (ComEd Ex. 2.18 and 2.19) – This rate design is based upon the results of the ComEd Ex. 3.18 ECOSS. The ComEd Ex. 3.18 ECOSS allocates certain distribution facilities costs by a single NCP allocation factor for the entire group of residential customers, a single NCP allocation factor for the entire group of nonresidential customers, and a single NCP allocation factor for the entire group of lighting customers, as discussed in the ECOSS section of my

testimony. The Company provided two rate designs associated with the ComEd Ex. 3.18 ECOSS: one at current revenue responsibility (ComEd Ex. 2.18) and the other at 100% revenue responsibility (ComEd Ex. 2.19).

Q. Did the Company provide estimated bills corresponding to the various rate designs?

A. Yes. The Company provided Illustrative Estimated Annual Bills for the residential delivery classes (i.e., SFNH, MFNH, SFH, and MFH) as well as the nonresidential sector WH and SL delivery classes for each rate design example.[41] However, the Company stated that due to the varying nature of customers within the other delivery classes in the nonresidential sector (i.e., ML, LL, VLL, ELL, HV, and RR, FIL, DDL, and GL) there was little value in estimating average annual bills that do not reflect any typical customers.[42] The information in the Illustrative Estimated Annual Bills includes the annual kWh delivered and the annual delivery service bill.

Q. What is the Company's rate design proposal?

A. ComEd takes no position at this time as to the relative merits of the RDI rate design in relation to cost allocation in the RDI ECOSS.[43] However, the Company states that it is making no revisions to the Rate DSPP "Determination of Delivery Service Charges" tariff. Since the Company takes no position on the relative

[41] ComEd Ex. 2.0, Tables CST-22 through CST-25.
[42] ComEd Ex. 2.0, p. 30.
[43] *Id.*, p. 2.

merits of the various rate designs and is filing the Rate DSPP tariff with no revisions, the Company is in effect proposing the rate design that was approved by the Commission in Docket No. 10-0467, which in this case is referred to as the RDI rate design at current revenue responsibility. Additionally, the RDI rate design includes the Company's proposal to offer LED Lighting Units into the FIL Delivery Class.[44]

Q. Do you agree with the Company's proposal to utilize the RDI rate design?

A. No, I do not. The Company's proposed RDI rate design utilizes the RDI ECOSS, which I do not support, for the reasons discussed in the Embedded Cost of Service Study section of this testimony. Additionally, as discussed in the Class Revenue Responsibility section above, the Commission began the movement toward cost-based rates for the ELL, HV, and RR classes in Docket Nos. 07-0566 and 10-0467 and that should continue through implementation of the next step revenue responsibility, which the Company does not propose.

Q. What is your rate design recommendation?

A. As discussed in the ECOSS section of my testimony, I recommend use of the Company's illustrative ECOSS, ComEd Ex. 3.14. My recommended rate design is consistent with the current Commission approved rate design (approved in Docket No. 10-0467), but utilizes the cost inputs from ComEd Ex. 3.14 with next step revenue responsibilities. The Company did not provide a rate design

[44] *Id.*, p. 12.

example that included the cost inputs from ComEd Ex. 3.14 with next step revenue responsibilities. The Company provided such a rate design in response to Staff DR WRJ 7.02. Attached to my testimony as ICC Staff Ex.1.0, Attachment 1.01 is the response to Staff DR WRJ 7.02 that includes a table comparing the Company's RDI current revenue responsibility and Staff's next step revenue responsibility rate design proposal. Also included are the illustrative resulting rates under the Company's proposed revenue requirement that are associated with my proposed rate design.

I am not proposing changes to the delivery classes. My rate design determines the customer charges and DFC for the four residential delivery classes the same as approved in Docket No. 10-0467. This methodology is also used for the nonresidential WH class. The Standard Metering Charge is the same for all residential classes. Additionally, my rate design retains the SFV percentages approved by the Commission in Docket No. 10-0467, for the SFNH, MFNH, SFH, MFH, and WH classes.[45] However, I reserve the right to reevaluate my position in rebuttal if other parties to the proceeding identify valid areas of concern.

Additionally, in response to Staff DR WRJ 9.02 the Company provided the same type of annual estimated bills provided in ComEd Ex. 2.0, Tables CST-22 through CST-25 with Staff's recommended rate design included. The annual estimated bills under my recommended rate design are identified as "Illustrative

[45] Final Order, Docket No. 10-0467, May 24, 2011, p. 232.

Rate Design WRJ 7.02_Attach 1." I have attached the response to WRJ 9.02 as ICC Staff Ex. 1.0, Attachment 1.02.

Q. Why should the Commission approve your recommended rate design?

A. My proposed rate design incorporates the cost inputs from the ECOSS in ComEd Ex. 3.14, which included the recommendations made by the project team addressing the Commission's directives in its Docket No. 10-0467 Order addressing its ECOSS concerns. Additionally, my proposed rate design continues the movement towards cost based rates by following the next step revenue responsibility levels approved by the Commission in Docket No. 10-0467 for the ELL, HV, and RR delivery classes. The Commission has ordered and made a concerted effort to move toward cost-based rates for the ELL, HV, and RR classes. No reason has been presented as to why that movement should not be continued in this proceeding. As shown on ICC Staff Ex. 1.0, Attachment 1.01, under this proposed next step revenue responsibility rate design, the classes that are currently subsidizing the ELL, HV, and RR delivery classes (i.e., the SL, ML, LL, and VLL delivery classes) will see their shares of those subsidies decrease.

A. ELECTRICITY SUPPLY CHARGES

Q. What rate design issue related to supply charges should be addressed in this case?

A. Through the application of supply charges under Rate BES – Basic Electric Service ("Rate BES"), which are determined pursuant to the methodology described in Rider PE – Purchased Electricity ("Rider PE"), subsidies are provided to residential customers with electric space heat and dusk-to-dawn lighting customers. Residential customers without electric space heat and non-residential customers with demand that do not exceed 100 kilowatts ("kWs") pay the majority of the subsidies.[46] The Commission initiated a Section 9-250 proceeding to address issues related to supply rate design, Docket No. 11-0498. However, Docket No. 11-0498 only addressed residential space heating supply charges since other customer groups that are affected by the subsidies were not represented in the docket. The Commission approved a methodology to address supply charge subsidies to the residential electric space heating customers but did not address the rate subsidy to dusk-to-dawn lighting customers.[47] The Commission stated that the subsidies to dusk-to-dawn lighting customers must be addressed at a later time.[48]

Q. Has ComEd addressed supply charge subsidies in this case?

A. The Company made no proposal for the remaining supply charge subsidies; however, it stated that the customer groups that were not represented in Docket

[46] Final Order, Docket No. 11-0498, April 18, 2012, p. 3.
[47] *Id.*, pp. 6-7.
[48] *Id.*, p. 3.

No. 11-0498 will have an opportunity to participate if supply related subsidies are addressed in this proceeding.[49]

Q. Do you believe supply related subsidies for dusk-to-dawn lightning customers should be addressed in this proceeding?

A. Yes. It is clear from the Docket No. 11-0498 Order that subsidies exist for dusk-to-dawn lighting customers but were not addressed in that docket. All parties to Docket No. 11-0498 agreed, and the Commission ordered, that supply-related subsidies for dusk-to-dawn lighting customers should be addressed in a later proceeding.

Q. How should supply related subsidies be addressed in this case?

A. Since the Commission has already approved a methodology to address supply charge subsidies to the residential electric space heating customers, I recommend the Company provide, in rebuttal testimony, updated information related to supply charge subsidies to the dusk-to-dawn lighting customers similar to that found in the Company's Docket No. 11-0498 direct testimony (ComEd Ex. 1.0). This will provide all parties with the necessary testimony and data to make some type of informed recommendation on the remaining subsidies to dusk-to-dawn lighting customers associated with supply charges and how they may be addressed. The information provided should include testimony, analyses of the

[49] ComEd Ex. 2.0, pp. 66-67.

different methodologies to move toward cost-based supply charges, and any other information necessary for parties to make informed decisions.

OVERVIEW OF COMMISSION DIRECTIVES FROM PRIOR DOCKETS

Q. Is it your understanding that ComEd's responses addressing prior Commission directives were to be presented for all parties to review in this proceeding?

A. Yes. It is my understanding that the Commission had various directives that were to be addressed in the Company's next rate design case. Various parties had concerns relating to rate design and cost of service that the Commission believed should be addressed in a rate design case.

Q. Which Commission directives do you address?

A. My Embedded Cost of Service Study section addresses directives related to direct observation of ComEd facilities, circuit sample representation, and review of other utilities' treatment of primary/secondary issues. Staff's testimony in Docket No. 10-0467 identified concerns with each of these issues in Docket No. 10-0467.[50] The remaining directives were based on concerns raised by other parties in that docket. I discuss those other directives below and will respond, if necessary, to other parties' testimony regarding these other Commission directives.

[50] Final Order, Docket No. 10-0467, May 24, 2011, pp. 177-185.

Q. Which of the Company's responses regarding prior Commission directives will you discuss?

A. In addition to the three ECOSS related directives addressed earlier in the ECOSS section (i.e., direct observation of ComEd facilities, circuit sample representation, and review of other utilities' treatment of primary/secondary issues), the following are additional Commission directives related to rate design and cost of service that the Company addresses in its testimony which I will discuss:

- Other primary/secondary split issues, 4kv asset allocation.[51]
- Investigation of assets used to serve extra large load customer class.[52]
- Indirect uncollectible costs.[53]
- SFV.[54]
- Analysis of the impact on customer classes of reallocating NCP-related delivery costs using a single NCP allocator for the residential sector.[55]

A. OTHER PRIMARY/SECONDARY SPLIT ISSUES, 4KV ASSET ALLOCATION

Q. What was the Commission's directive concerning other primary/secondary split issues, 4kV asset allocation?

[51] *Id*., p. 191.
[52] *Id*., pp. 195-196.
[53] *Id*., p. 204.
[54] *Id*., p. 232.
[55] Final Order Docket No. 11-0498, April 18, 2012, p. 8.

A. The Commission directed ComEd to:

> …develop a new embedded cost of service study for the next rate case that excludes the costs that are associated with facilities below 12 kV from the Railroad Class. This study shall be part of ComEd's initial rate case filing. Failure to comply with any portion of this directive could subject ComEd to the penalties provided in the Public Utilities Act for failure to comply with a Commission Order.
> As is set forth in the issue below, the Commission concludes that ComEd must perform an investigation of the Extra Large Load customer classes. Included in that study shall be an assessment as to whether these customers use 4 kV service, and if so, to what extent, and also whether the NCP or CP allocator is an accurate allocator for these customers.[56]

Q. How did ComEd address the Commission's directive concerning other primary/secondary split issues, 4kV asset allocation?

A. The issue of allocation of primary voltage costs for the Railroad ("RR") class and Extra Large Load ("ELL") class is addressed in the CA Distribution Study performed by CA Energy Consulting. The CA Distribution Study separated costs into 4kV and above 4kV primary voltage categories. Methods were derived to allocate the shared primary voltage plant in service costs between 4kV primary voltage and above 4kV primary voltage categories. The Company used the information from the CA Distribution Study to remove from the costs associated with 4kV facilities that are not used to serve the RR class.[57]

With respect to the ELL class, the project team determined which ELL meter points are served using 4kV primary voltage distribution facilities. The study

[56] Final Order, Docket No. 10-0467, May 24, 2011, p. 191.
[57] ComEd Ex. 3.07, p. 13.

stated that ELL customers take service from ComEd in a variety of ways. All are served through multiple meter points at various voltages, both primary and secondary, throughout the system. The number of meter points for individual ELL accounts ranges from as few as two locations to as many as 263, with a total of number of meter points presently at 1,820 locations (excluding 10 outflow meters). In order to properly allocate the cost to serve into the four cost categories (secondary voltage distribution, secondary voltage transformer, primary voltage transformer, and shared distribution), each metering point was evaluated individually to determine the service voltage category.[58] The meter-by-meter assignments of ELL customers to voltage categories were delivered to ComEd, which used the results to develop the cost-of-service allocation factors for an illustrative ECOSS that does not assign certain costs to ELL customer loads delivered at voltages above 4 kV.[59]

The project team also addressed whether the NCP or CP allocator is an accurate allocator for the ELL customers. The project team divided ComEd's primary voltage distribution system into subcategories of equipment greater than 4kV and less than or equal to 4kV and allocated the two subcategories in an illustrative COS study based upon the use of each portion of the primary voltage distribution system.[60]

[58] *Id.*, p. 16.
[59] *Id.*, p. 18.
[60] *Id.*, p. 19.

B. INVESTIGATION OF ASSETS USED TO SERVE EXTRA LARGE LOAD CUSTOMER CLASS

Q. What was the Commission's directive concerning the assets used to serve the ELL customer class?

A. The Commission was concerned that ELL customers might be double-billed. The Commission stated:

> ComEd shall therefore undertake a study of the distribution assets used to serve the Extra Large Load customer class. That study shall be part of any initial filing in its next rate case.[61]

Q. How did ComEd address the Commission's directive concerning the assets used to serve the ELL customer class?

A. The issue concerning the assets used to serve the ELL customer class is addressed in the CA Distribution Study performed by CA Energy Consulting. The study sought to determine whether ComEd's cost recovery mechanism includes the opportunity for double recovery of any nonstandard service costs.[62] The CA Distribution Study provided an explanation of ComEd's treatment of Rider NS in its COS studies, examples of industry practices of cost recovery, and a survey of other utilities regarding distribution costing practices.[63]

[61] Final Order, Docket No. 10-0467, May 24, 2011, p. 195.
[62] *Id*., p. 23.
[63] *Id*., pp. 23-30.

C. INDIRECT UNCOLLECTIBLE COSTS

Q. What was the Commission's directive concerning indirect uncollectible costs?

A. The Commission stated that in the next rate case or rate design case ComEd shall include the segregated indirect uncollectible costs in a cost of service study in the manner that Mr. Bodmer (City of Chicago witness) set forth in his rebuttal testimony.[64]

Q. How did ComEd address the Commission's directive concerning indirect uncollectible costs?

A. ComEd provided an indirect uncollectible cost study (ComEd Ex. 3.08) that reviewed the customer operations costs recorded in the Uniform System of Account ("USOA") numbers 901 – Supervision, Account 902 – Meter Reading Expenses, and Account 903 – Customer Records and Collection Expenses. The costs from the USOA were identified by project and department and separated by payroll and non payroll portions for ECOSS purposes. The Company classified the costs into categories for determination of indirect costs. The Company then incorporated the information into an Illustrative ECOSS.[65]

[64] Final Order, Docket No. 10-0467, May 24, 2011, p. 204.
[65] ComEd Ex. 3.08, pp. 2-3.

D. STRAIGHT FIXED VARIABLE

Q. What was the Commission's directive concerning SFV rate design?

A. The Commission directed ComEd to:

> … in its next rate proceeding, ComEd must provide evidence that demonstrates whether the impacts on the low-use sub-group in the residential customer class are such that it would be appropriate to have a new class cost of service and rate design for that identifiable group. The Commission also encourages ComEd to explore how it defines the low-use customer sub-class.[66]

Q. How did ComEd address the Commission's directive concerning SFV rate design?

A. ComEd provided a study titled: "Residential Electricity usage and Bill Impacts of the Straight Fixed Variable Rate Design." The study includes a discussion by the Company concerning background, residential electricity usage, SFV rate design bill impacts, and a conclusion. The study also provides tables and charts for SFNH, MFNH, SFH, and MFH identifying residential electricity usage by the average number of customers in each percentile for 2010, the monthly minimum, monthly maximum, and monthly average usage for the percentile, as well as the annual minimum, annual maximum, and annual average usage for that percentile. For the same classes, SFV rate design bill impacts are provided comparing the SFV rate design approved by the Commission in Docket No. 10-0467 and the Company determined rates using the methodology employed for previously effective delivery service charges. [67]

[66] Final Order, Docket No. 10-0467, May 24, 2011, p. 232.
[67] ComEd Ex. 2.33.

Additionally, the Company provided charts that show for each zip code in the Company's service territory, for which average household income information was available, the splits between (a) customers in Percentile 1 through Percentile 50 and (b) customers in Percentile 51 through Percentile 100 in terms of usage. These charts also provide average household income for the zip code, and the charts are shown with zip codes arranged along the X-axis in order of increasing average household income. Four charts, one for each delivery class, provide summary data for customers in the City of Chicago. For customers in other areas of ComEd's service territory, there are eight charts for each delivery class due to the number of zip codes included in the analysis.[68]

ComEd found that there is no cost basis for creating additional residential delivery classes within ComEd's rate structure. ComEd also found that there is not an inequity that might warrant a restructuring of charges for delivery service within the existing residential delivery classes.[69]

E. Analysis of the Impact on Customer Classes of Reallocating NCP-Related Delivery Costs Using A Single NCP Allocator For The Residential Sector

Q. What was the Commission's directive concerning reallocating NCP-related delivery costs using a single NCP allocator for the residential sector?

[68] *Id.*
[69] *Id.*, at 1.

A. The Commission Order in Docket No. 11-0498 directed ComEd to provide in the next proceeding in which revenue neutral delivery service rate design issues are addressed, an analysis of the impact on customer classes of reallocating NCP-related delivery costs using a single NCP allocator for the residential sector.[70]

Q. How did ComEd address the Commission's directive concerning reallocating NCP-related delivery costs using a single NCP allocator for the residential sector?

A. ComEd provided two illustrative ECOSSs for which certain distribution facilities costs are allocated based on a single NCP allocation factor for a customer sector(s) rather than for individual delivery classes.[71] The Company also provided schedules that identify how the allocation factors are developed.[72] The Company also provided comparisons of revenue responsibilities for classes assuming that the NCP allocation factor is approved.[73] Additionally, the Company provided Illustrative average estimated annual bills for residential and non-residential customers.[74]

SUMMARY OF FINDINGS AND RECOMMENDATIONS

Q. Please summarize your findings and recommendations.

A. My findings and recommendations are as follows:

[70] Final Order, Docket No. 11-0498, April 18, 2012, p. 8.
[71] ComEd Ex. 3.17 and 3.18.
[72] ComEd Ex. 3.19.
[73] ComEd Ex. 2.0, pp. 38-40.
[74] *Id.*, at 50-55.

(1) I recommend the Commission approve the ECOSS methodology presented in ComEd Ex. 3.14, the illustrative ECOSS that is the same as the RDI ECOSS, with the exception that it incorporates all the findings and recommendations presented in the CA Distribution Study other than those pertaining to the allocation of costs associated with 4kV facilities; and

(2) I recommend the Commission approve my proposed rate design, which is consistent with the current Commission approved rate design (approved in Docket No. 10-0467) but utilizes the cost inputs from ComEd Ex. 3.14 with next step revenue responsibilities.

CONCLUSION

Q. Does this conclude your prepared direct testimony?

A. Yes, it does.

REQUEST NO. WRJ 7.02:

Please provide the following:

a) A table similar to ComEd Ex. 2.0, Table CST-D14 that compares RDI with the cost inputs from ComEd Ex. 3.14 at the next step revenue responsibilities.

b) The Rate Design and delivery service charges that would result using the next step revenue responsibilities discussed in WRJ-7.02(a). For example, provide the same type of schedules provided in (ComEd Ex. 2.07).

Please provide excel spreadsheets with formats intact for WRJ-7.02 (a) and (b).

RESPONSE:

ComEd objects to this data request on grounds it is unreasonably burdensome in that it seeks ComEd to perform analyses and calculations not in its possession or performed in the normal course of business. Without waiving this objection, or ComEd's General Objections, ComEd responds as follows:

ComEd performed analyses and calculations necessary for providing a response to this data request because this request is made early in the discovery process and ComEd is committed to providing data to the extent practical to parties.

a) The requested information is in the following table, WRJ 7.02a, which were prepared in Word format. Therefore, there is e no corresponding Excel spreadsheet of this table.

Table WRJ 7.02a: Revenue Responsibilities – RDI and WRJ 7.02_Attach 1 Illustrative

Delivery Class	RDI			Cost Inputs from ComEd Ex. 3.14 Next Step Revenue Responsibilities			Amount Change from RDI
	Amount	Percent of Cost	Unitized	Amount	Percent of Cost	Unitized	
	$	%	¢/kWh	$	%	¢/kWh	%
Residential							
SHNH	999,356,162	100.0	4.88	994,551,984	100.0	4.86	-0.481%
MFNH	279,990,249	100.0	6.33	279,055,538	100.0	6.31	-0.334%
SFH	17,925,680	100.0	2.39	17,611,793	100.0	2.35	-1.751%
MFH	47,558,164	100.0	2.99	46,758,354	100.0	2.94	-1.682%
Nonresidential							
WH	26,982,199	100.0	5.96	26,872,671	100.0	5.93	-0.406%
SL	300,826,824	101.8	2.63	297,439,858	101.2	2.60	-1.126%
ML	181,985,860	101.8	1.75	182,495,888	101.2	1.75	0.280%
LL	150,918,743	101.8	1.57	151,913,060	101.2	1.58	0.659%
VLL	256,913,641	101.8	1.42	259,258,948	101.2	1.43	0.913%
ELL	32,369,926	71.9	0.83	38,373,654	83.5	0.99	18.547%
HV	15,174,728	85.3	0.27	16,162,488	90.7	0.29	6.509%

RR	4,826,225	85.1	0.87	4,698,783	80.3	0.85	-2.641%
Lighting							
FIL	14,532,570	100.0	9.15	14,433,860	100.0	9.09	-0.679%
DDL	4,072,046	100.0	0.71	3,810,069	99.9	0.67	-6.434%
GL	896,983	100.0	1.37	893,052	100.0	1.36	-0.438%
Total	2,334,330,000	100.0	2.65	2,334,330,000	100.0	2.65	0.000%
Sector							
Residential	1,344,830,255	100.0	4.94	1,337,977,669	100.0	4.91	-0.510%
Nonresidential	969,998,146	100.0	1.62	977,215,350	100.0	1.63	0.744%
Lighting	19,501,599	100.0	2.46	19,136,981	100.0	2.41	-1.870%

b) Please see the attachment labeled as WRJ 7.02_Attach 1, which presents a populated rate design model determining illustrative delivery service charges reflecting the "next step" revenue responsibility levels and cost inputs from the ECOSS provided in ComEd Ex. 3.14.

ICC Dkt. No. 13-0387
WRJ 7.02_Attach 1
Illustrative Rate Design for ComEd Ex. 3.14 ECOSS and Next Step Revenue Responsibility

	A	B	C	D	E	F	G
1			EMBEDDED COST OF SERVICE INFORMATION: TAB R				
2		Annual		Total			
3		Billing	Embedded	Embedded	EPEC		
4	**Residential**	Units	Costs	Costs	Revenue		
5	Delivery	----------	----------	----------	----------		
6	Class	(A)	(B)	(C)	(D)		
7				=(B) by Class	=(C) x NRR/EC		
8	**SFNH**						
9	Customer	26,785,841	$290,449,703				
10	Meter	26,785,841	$90,596,947				
11	Dist	20,471,628,554	$589,769,747				
12	IEDT	20,471,628,554	$23,736,952				
13	Total			$994,553,349	$994,553,349		
14							
15	**MFNH**						
16	Customer	12,498,046	$107,598,737				
17	Meter	12,498,046	$42,329,655				
18	Dist	4,425,830,554	$124,006,387				
19	IEDT	4,425,830,554	$5,131,772				
20	Total			$279,066,551	$279,066,551		
21							
22	**SFH**						
23	Customer	419,990	$4,974,684				
24	Meter	419,990	$1,418,135				
25	Dist	750,453,895	$10,341,604				
26	IEDT	750,453,895	$870,155				
27	Total			$17,604,578	$17,604,578		
28							
29	**MFH**						
30	Customer	1,912,183	$17,060,397				
31	Meter	1,912,183	$6,464,589				
32	Dist	1,593,009,493	$21,378,144				
33	IEDT	1,593,009,493	$1,847,102				
34	Total			$46,750,232	$46,750,232		
35							
36	Total Residential			$1,337,974,710	$1,337,974,710		
37	Bills	41,616,060					
38	kWh	27,240,922,496					
39	Customer Costs		$420,083,521				
40	Meter Costs		$140,809,326				
41	Distribution Costs		$745,495,882				
42	IEDT Costs		$31,585,981				
43							

ICC Dkt. No. 13-0387
WRJ 7.02_Attach 1
Illustrative Rate Design for ComEd Ex. 3.14 ECOSS and Next Step Revenue Responsibility

	A	B	C	D	E	F	G
44		DELIVERY SERVICE CHARGES COMPUTATION: TAB R					
45			Unit		Total	As a % of	Overall
46	**Residential**	Adj	Charges	Revenue	Revenue	EPEC	$/kWh
47	Delivery	----------	----------	----------	----------	----------	----------
48	Class	(E)	(F)	(G)	(H)	(J)	(K)
49				=(A)x(F)	=(G) by Class	=(H)/(D)	=(H)/(A kWh)
50	**SFNH**						
51	CC	$0.01	$14.75	$395,091,155			
52	SMSC		$3.38	$90,536,143			
53	DFC (kWh)	($0.00001)	$0.02370	$485,177,597			
54	IEDT (kWh)		$0.00116	$23,747,089			
55	Total				$994,551,984	100.0%	$0.0486
56							
57	**MFNH**						
58	CC	($0.01)	$7.57	$94,610,208			
59	SMSC		$3.38	$42,243,395			
60	DFC (kWh)	$0.00002	$0.03097	$137,067,972			
61	IEDT (kWh)		$0.00116	$5,133,963			
62	Total				$279,055,538	100.0%	$0.0631
63							
64	**SFH**						
65	CC		$16.54	$6,946,635			
66	SMSC		$3.38	$1,419,566			
67	DFC (kWh)	$0.00001	$0.01116	$8,375,065			
68	IEDT (kWh)		$0.00116	$870,527			
69	Total				$17,611,793	100.0%	$0.0235
70							
71	**MFH**						
72	CC		$8.36	$15,985,850			
73	SMSC		$3.38	$6,463,179			
74	DFC (kWh)	$0.00001	$0.01410	$22,461,434			
75	IEDT (kWh)		$0.00116	$1,847,891			
76	Total				$46,758,354	100.0%	$0.0294
77							
78	Total Residential				$1,337,977,669	100.0%	$0.0491

ICC Dkt. No. 13-0387
WRJ 7.02_Attach 1

Illustrative Rate Design for ComEd Ex. 3.14 ECOSS and Next Step Revenue Responsibility

	A	B	C	D	E	F	G
1			EMBEDDED COST OF SERVICE INFORMATION: TAB N1				
2		Annual		Total			
3		Billing	Embedded	Embedded	EPEC		
4	**Nonresidential**	Units	Costs	Costs	Revenue		
5	Delivery	----------	----------	----------	----------		
6	Class	(A)	(B)	(C)	(D)		
7				=(B) by Class	=(C) x NRR/EC		
8	**WH**						
9	Customer	1,103,130	$13,789,423				
10	Meter	1,103,130	$3,153,109				
11	Dist	453,085,296	$9,409,509				
12	IEDT	453,085,296	$525,355				
13	Total			$26,877,396	$26,877,396		
14							
15	**SL**						
16	Customer	2,979,120	$40,136,175				
17	Meter	2,979,120	$28,127,879				
18	SV Dist	38,648,346	$212,409,003				
19	PV Dist	46,890	$107,671				
20	PV Tr	18,844	$4,295				
21	IEDT	11,437,156,848	$13,261,439				
22	Total			$294,046,462	$294,046,462		
23							
24	**ML**						
25	Customer	207,693	$3,486,395				
26	Meter	207,693	$4,393,139				
27	SV Dist	27,601,586	$158,765,192				
28	PV Dist	458,796	$1,522,968				
29	PV Tr	331,941	$62,040				
30	IEDT	10,408,083,027	$12,068,223				
31	Total			$180,297,957	$180,297,957		
32							
33	**LL**						
34	Customer	50,295	$3,422,770				
35	Meter	50,295	$1,097,444				
36	SV Dist	21,860,935	$131,264,636				
37	PV Dist	771,272	$3,134,406				
38	PV Tr	467,672	$110,097				
39	IEDT	9,621,568,523	$11,156,255				
40	Total			$150,185,608	$150,185,608		
41							
42	**VLL**						
43	Customer	22,471	$13,387,765				
44	Meter	22,471	$493,002				
45	SV Dist	30,113,757	$177,057,308				
46	PV Dist	9,004,235	$42,894,746				
47	PV Tr	5,680,289	$1,407,670				
48	IEDT	18,084,639,583	$20,969,227				
49	Total			$256,209,718	$256,209,718		
50							

ICC Dkt. No. 13-0387
WRJ 7.02_Attach 1
Illustrative Rate Design for ComEd Ex. 3.14 ECOSS and Next Step Revenue Responsibility

	A	B	C	D	E	F	G
51		DELIVERY SERVICE CHARGES COMPUTATION: TAB N1					
52			Unit		Total	As a % of	Overall
53	**Nonresidential**	Adj	Charges	Revenue	Revenue	EPEC	$/kWh
54	Delivery	----------	----------	----------	----------	----------	----------
55	Class	(E)	(F)	(G)	(H)	(J)	(K)
56				=(A)x(F)	=(G) by Class	=(H)/(D)	=(H)/(A kWh)
57	**WH**						
58	CC		$9.08	$10,016,420			
59	SMSC		$2.86	$3,154,952			
60	DFC (kWh)		$0.02908	$13,175,720			
61	IEDT (kWh)		$0.00116	$525,579			
62	Total				$26,872,671	100.0%	$0.0593
63							
64	**SL**						
65	CC	$0.18	$13.65	$40,664,988			
66	SMSC		$9.44	$28,122,893			
67	SV DFC (kW)	1.013	$5.57	$215,271,287			
68	PV DFC (kW)	1.013	$2.33	$109,254			
69	PV TRC (kW)		$0.23	$4,334			
70	IEDT (kWh)		$0.00116	$13,267,102			
71	Total				$297,439,858	101.2%	$0.0260
72							
73	**ML**						
74	CC	$0.10	$16.89	$3,507,935			
75	SMSC		$21.15	$4,392,707			
76	SV DFC (kW)	1.013	$5.83	$160,917,246			
77	PV DFC (kW)	1.013	$3.36	$1,541,555			
78	PV TRC (kW)		$0.19	$63,069			
79	IEDT (kWh)		$0.00116	$12,073,376			
80	Total				$182,495,888	101.2%	$0.0175
81							
82	**LL**						
83	CC	$0.55	$68.60	$3,450,237			
84	SMSC		$21.82	$1,097,437			
85	SV DFC (kW)	1.013	$6.08	$132,914,485			
86	PV DFC (kW)	1.013	$4.12	$3,177,641			
87	PV TRC (kW)		$0.24	$112,241			
88	IEDT (kWh)		$0.00116	$11,161,019			
89	Total				$151,913,060	101.2%	$0.0158
90							
91	**VLL**						
92	CC	$0.51	$596.29	$13,399,233			
93	SMSC		$21.94	$493,014			
94	SV DFC (kW)	1.013	$5.96	$179,477,992			
95	PV DFC (kW)	1.013	$4.83	$43,490,455			
96	PV TRC (kW)		$0.25	$1,420,072			
97	IEDT (kWh)		$0.00116	$20,978,182			
98	Total				$259,258,948	101.2%	$0.0143

ICC Dkt. No. 13-0387
WRJ 7.02_Attach 1
Illustrative Rate Design for ComEd Ex. 3.14 ECOSS and Next Step Revenue Responsibility

	A	B	C	D	E	F	G
1			EMBEDDED COST OF SERVICE INFORMATION: TAB N2				
2		Annual		Total			
3		Billing	Embedded	Embedded	EPEC		
4	**Nonresidential**	Units	Costs	Costs	Revenue		
5	Delivery	----------	----------	----------	----------		
6	Class	(A)	(B)	(C)	(D)		
7				=(B) by Class	=(C) x NRR/EC		
8	**ELL**						
9	Customer	593	$636,666				
10	Meter	593	$27,186				
11	SV Dist	3,328,921	$18,871,136				
12	PV Dist	4,140,025	$21,183,844				
13	PV Tr	2,511,427	$708,133				
14	IEDT	3,890,027,412	$4,510,506				
15	Total			$45,937,471	$45,937,471		
16							
17	**HV**						
18	Customer	925	$395,480				
19	Meter	925	$30,369				
20	SV Dist	31,700	$187,656				
21	PV Dist	214,355	$869,584				
22	HV Dist ≤ 10 MW	756,726	$144,583				
23	HV Dist > 10 MW	9,103,888	$1,868,598				
24	PV TR	50,157	$15,715				
25	HV Tr ≤ 10 MW	474,680	$1,533,298				
26	HV Tr > 10 MW	6,985,623	$6,321,259				
27	IEDT	5,559,330,908	$6,446,071				
28	Total			$17,812,613	$17,812,613		
29							
30	**RR**						
31	Customer	24	$116,797				
32	Meter	24	$2,266				
33	Dist	1,416,159	$5,089,910				
34	IEDT	554,129,868	$642,516				
35	Total			$5,851,489	$5,851,489		
36							
37	Total						
38	Nonresidential			$977,218,714	$977,218,714		
39	Bills	4,364,251					
40	kWh	60,008,021,465					
41	Customer Costs		$75,371,471				
42	Meter Costs		$37,324,394				
43	Distribution Costs		$794,943,257				
44	IEDT Costs		$69,579,592				
45							

	A	B	C	D	E	F	G
46		DELIVERY SERVICE CHARGES COMPUTATION: TAB N2					
47			Unit		Total	As a % of	Overall
48	**Nonresidential**	Adj	Charges	Revenue	Revenue	EPEC	$/kWh
49	Delivery	----------	----------	----------	----------	----------	----------
50	Class	(E)	(F)	(G)	(H)	(J)	(K)
51				=(A)x(F)	=(G) by Class	=(H)/(D)	=(H)/(A kWh)
52	**ELL**						
53	CC	$0.05	$1,073.69	$636,698			
54	SMSC		$45.84	$27,183			
55	SV DFC (kW)		$4.60	$15,313,037			
56	PV DFC (kW)		$4.15	$17,181,104			
57	PV TRC (kW)		$0.28	$703,200			
58	IEDT (kWh)		$0.00116	$4,512,432			
59	Total				$38,373,654	83.5%	0.0099
60							
61	**HV**						
62	CC	$0.05	$427.60	$395,530			
63	SMSC		$32.83	$30,368			
64	SV DFC (kW)		$5.92	$187,664			
65	PV DFC (kW)		$4.06	$870,281			
66	HV DFC ≤ 10 MW (kW)		$0.19	$143,778			
67	HV DFC > 10 MW (kW)		$0.21	$1,911,816			
68	PV TRC (kW)		$0.31	$15,549			
69	HV TRC ≤ 10 MW (kW)		$2.82	$1,338,598			
70	HV TRC > 10 MW (kW)		$0.69	$4,820,080			
71	IEDT (kWh)		$0.00116	$6,448,824			
72	Total				$16,162,488	90.7%	0.0029
73							
74	**RR**						
75	CC	$0.30	$4,866.84	$116,804			
76	SMSC		$94.42	$2,266			
77	DFC (kW)		$2.78	$3,936,922			
78	IEDT (kWh)		$0.00116	$642,791			
79	Total				$4,698,783	80.3%	0.0085
80							
81							
82							
83	Total Nonresidential				$977,215,350	100.0%	0.0163

ICC Dkt. No. 13-0387
WRJ 7.02_Attach 1
Illustrative Rate Design for ComEd Ex. 3.14 ECOSS and Next Step Revenue Responsibility

	A	B	C	D	E	F	G
1			EMBEDDED COST OF SERVICE INFORMATION: TAB L				
2		Annual		Total			
3		Billing	Embedded	Embedded	EPEC		
4	**Lighting**	Units	Costs	Costs	Revenue	Allocator	
5	Delivery	----------	----------	----------	----------	----------	
6	Class	(A)	(B)	(C)	(D)	(E)	
7				=(B) by Class	=(C) x NRR/EC		
8	**FIL**						
9	Customer		$844,225				
10	Dist		$13,403,124				
11	IEDT	158,772,279	$184,097				
12	Municipal						
13	LED-50-60 W	180				0.0000380	
14	MV-100 W	238,004				0.0423200	
15	MV-175 W	603,789				0.1087069	
16	MV-250 W	98,156				0.0184515	
17	MV-400 W	108,190				0.0221130	
18	HPS-70 W	17,149				0.0032877	
19	HPS-100 W	236,440				0.0461298	
20	HPS-150 W	264,174				0.0515845	
21	HPS-250 W	165,672				0.0350618	
22	HPS-400 W	27,855				0.0063490	
23	HPS-1,000 W	1,907				0.0009680	
24	Bracket ≤ 8 feet	913,319				0.2556619	
25	Bracket > 8 feet	630,834				0.2365927	
26	Lum Post Top	62,917				0.0264991	
27	Lum Acorn	14,843				0.0071805	
28	Private						
29	LED-50-60 W	60				0.0000296	
30	MV-175 W	119,961				0.0511581	
31	MV-400 W	45,033				0.0197717	
32	HPSF-100 W	26,590				0.0098662	
33	HPSF-250 W	129,555				0.0493965	
34	HPSC-100 W	5,897				0.0025641	
35	HPSC-150 W	13,843				0.0062691	
36	Total			$14,431,446	$14,431,446		
37							
38	**DDL**						
39	Customer		$804,174				
40	Meter	569,516,945	$472,446				
41	Dist	569,516,945	$1,875,018				
42	IEDT	569,516,945	$660,358				
43	Total			$3,811,996	$3,811,996		
44							
45	**GL**						
46	Customer		$167,475				
47	Meter	65,521,104	$40,817				
48	Dist	65,521,104	$608,870				
49	IEDT	65,521,104	$75,972				
50	Total			$893,134	$893,134		
51							

	A	B	C	D	E	F	G
52	Total Lighting	793,810,328		$19,136,576	$19,136,576		
53	Customer Costs		$1,815,874				
54	Meter Costs		$513,263				
55	Distribution Costs		$15,887,012				
56	IEDT Costs		$920,427				
57				EC			
58	Total Company	88,042,754,289		$2,334,330,000	$2,334,330,000		
59	Customer Costs		$497,270,866				
60	Meter Costs		$178,646,983				
61	Distribution Costs		$1,556,326,151				
62	IEDT Costs		$102,086,000				
63							

	A	B	C	D	E	F	G
64		DELIVERY SERVICE CHARGES COMPUTATION: TAB L					
65	**Lighting**		Unit		Total	As a % of	Overall
66	Delivery	Adj	Charges	Revenue	Revenue	EPEC	$/kWh
67	Class	----------	----------	----------	----------	----------	----------
68		(F)	(G)	(H)	(J)	(K)	(L)
69	**FIL**			=(A)x(G)	=(H) by Class	=(J)/(D)	=(J)/(A kWh)
70	Municipal (Fix)						
71	LED-50-60 W		$3.01	$542			
72	MV-100 W		$2.53	$602,150			
73	MV-175 W		$2.57	$1,551,738			
74	MV-250 W		$2.68	$263,058			
75	MV-400 W		$2.91	$314,833			
76	HPS-70 W		$2.73	$46,817			
77	HPS-100 W		$2.78	$657,303			
78	HPS-150 W		$2.78	$734,404			
79	HPS-250 W		$3.02	$500,329			
80	HPS-400 W		$3.25	$90,529			
81	HPS-1,000 W		$7.23	$13,788			
82	Bracket ≤ 8 feet		$3.99	$3,644,143			
83	Bracket > 8 feet		$5.34	$3,368,654			
84	Lum Post Top		$6.00	$377,502			
85	Lum Acorn		$6.89	$102,268			
86	Private (Fix)						
87	LED-50-60 W		$7.03	$422			
88	MV-175 W		$6.08	$729,363			
89	MV-400 W		$6.26	$281,907			
90	HPSF-100 W		$5.29	$140,661			
91	HPSF-250 W		$5.43	$703,484			
92	HPSC-100 W		$6.19	$36,502			
93	HPSC-150 W		$6.45	$89,287			
94	IEDT (kWh)		$0.00116	$184,176			
95	Total				$14,433,860	100.0%	$0.0909
96							
97	**DDL**						
98	SMSC		$0.00083	$472,699			
99	DFC (kWh)		$0.00470	$2,676,730			
100	IEDT (kWh)		$0.00116	$660,640			
101	Total				$3,810,069	99.9%	$0.0067
102							
103	**GL**						
104	SMSC		$0.00062	$40,623			
105	DFC (kWh)		$0.01185	$776,425			
106	IEDT (kWh)		$0.00116	$76,004			
107	Total				$893,052	100.0%	$0.0136
108							
109	Total Lighting				$19,136,981	100.0%	$0.0241
110							
111	Total						
112	Company				$2,334,330,000	100.0%	$0.0265
113					$2,334,330,000	NRR	
114					$0		
115					OK		

REQUEST NO. WRJ 9.02:

Please provide ComEd Ex. 2.0, Tables CST-D22 through CST-D25 that include the rate designs requested in Staff Data Requests WRJ-7.01(c), WRJ-7.02(b), WRJ-8.01(b), and WRJ-9.01(b). Please provide excel spreadsheets with formulas intact.

RESPONSE:

ComEd objects to this data request on the grounds it is unreasonably burdensome in that it seeks ComEd to perform analyses and calculations not in its possession or performed in the normal course of business. Without waiving the foregoing objection, or ComEd's General Objections, ComEd responds as follows:

ComEd performed analyses and calculations necessary for providing a response to this data request because this request is made early in the discovery process and ComEd is committed to providing data to the extent practical to parties.

The requested information is provided in the following tables and in the attachment labeled as WRJ 9.02_Attach 1.

Table WRJ 9.02-1 (CST-D22): Illustrative Average Residential Estimated Annual Bills		
Delivery Class	**2012 Average Annual kWh Delivered**	**Illustrative Annual Delivery Service Bill**
	kWh	**$**
SFNH	9,171	
2013 FRU Rate Design		447.43
RDI / Illustrative Rate Designs ComEd Exs. 2.04, 2.06, 2.07		447.70
Illustrative Rate Designs ComEd Exs. 2.08, 2.09		445.74
Illustrative Rate Designs ComEd Exs. 2.10, 2.11		447.89
Illustrative Rate Designs ComEd Exs. 2.12, 2.13		445.55
Illustrative Rate Designs ComEd Exs. 2.14, 2.15		449.34
Illustrative Rate Designs ComEd Exs. 2.16, 2.17		446.34
Illustrative Rate Designs ComEd Exs. 2.18, 2.19		446.89
Illustrative Rate Design WRJ 7.01_Attachs 2, 3, 4		447.16
Illustrative Rate Design WRJ 7.02_Attach 1		445.55
Illustrative Rate Design WRJ 8.01_Attach 1		445.55
Illustrative Rate Design WRJ 9.01_Attach 1		447.16
MFNH	4,249	
2013 FRU Rate Design		268.29
RDI / Illustrative Rate Designs ComEd Exs. 2.04, 2.06, 2.07		268.82
Illustrative Rate Designs ComEd Exs. 2.08, 2.09		267.96
Illustrative Rate Designs ComEd Exs. 2.10, 2.11		268.83
Illustrative Rate Designs ComEd Exs. 2.12, 2.13		267.92
Illustrative Rate Designs ComEd Exs. 2.14, 2.15		266.39
Illustrative Rate Designs ComEd Exs. 2.16, 2.17		268.16
Illustrative Rate Designs ComEd Exs. 2.18, 2.19		268.45
Illustrative Rate Design WRJ 7.01_Attachs 2, 3, 4		265.52
Illustrative Rate Design WRJ 7.02_Attach 1		267.92
Illustrative Rate Design WRJ 8.01_Attach 1		267.92
Illustrative Rate Design WRJ 9.01_Attach 1		265.52
SFH	21,442	
2013 FRU Rate Design		511.84
RDI / Illustrative Rate Designs ComEd Exs. 2.04, 2.06, 2.07		512.17
Illustrative Rate Designs ComEd Exs. 2.08, 2.09		503.11
Illustrative Rate Designs ComEd Exs. 2.10, 2.11		512.39
Illustrative Rate Designs ComEd Exs. 2.12, 2.13		503.20
Illustrative Rate Designs ComEd Exs. 2.14, 2.15		515.57
Illustrative Rate Designs ComEd Exs. 2.16, 2.17		509.44
Illustrative Rate Designs ComEd Exs. 2.18, 2.19		510.45
Illustrative Rate Design WRJ 7.01_Attachs 2, 3, 4		506.62
Illustrative Rate Design WRJ 7.02_Attach 1		503.20
Illustrative Rate Design WRJ 8.01_Attach 1		503.20
Illustrative Rate Design WRJ 9.01_Attach 1		506.62
MFH	9,997	
2013 FRU Rate Design		297.94
RDI / Illustrative Rate Designs ComEd Exs. 2.04, 2.06, 2.07		298.46
Illustrative Rate Designs ComEd Exs. 2.08, 2.09		293.54
Illustrative Rate Designs ComEd Exs. 2.10, 2.11		298.56
Illustrative Rate Designs ComEd Exs. 2.12, 2.13		293.44
Illustrative Rate Designs ComEd Exs. 2.14, 2.15		296.72
Illustrative Rate Designs ComEd Exs. 2.16, 2.17		297.14
Illustrative Rate Designs ComEd Exs. 2.18, 2.19		297.70
Illustrative Rate Design WRJ 7.01_Attachs 2, 3, 4		291.82
Illustrative Rate Design WRJ 7.02_Attach 1		293.44
Illustrative Rate Design WRJ 8.01_Attach 1		293.44
Illustrative Rate Design WRJ 9.01_Attach 1		291.82

Table WRJ 9.02-2 (CST-D23): Illustrative Estimated Annual Bills – Low Use Residential		
Delivery Class	**2012 Annual kWh Delivered**	**Illustrative Annual Delivery Service Bill**
	kWh	**$**
SFNH	6,095	
2013 FRU Rate Design		370.65
RDI / Illustrative Rate Designs ComEd Exs. 2.04, 2.06, 2.07		370.83
Illustrative Rate Designs ComEd Exs. 2.08, 2.09		369.20
Illustrative Rate Designs ComEd Exs. 2.10, 2.11		370.96
Illustrative Rate Designs ComEd Exs. 2.12, 2.13		369.08
Illustrative Rate Designs ComEd Exs. 2.14, 2.15		372.16
Illustrative Rate Designs ComEd Exs. 2.16, 2.17		369.69
Illustrative Rate Designs ComEd Exs. 2.18, 2.19		370.17
Illustrative Rate Design WRJ 7.01_Attachs 2, 3, 4		370.35
Illustrative Rate Design WRJ 7.02_Attach 1		369.08
Illustrative Rate Design WRJ 8.01_Attach 1		369.08
Illustrative Rate Design WRJ 9.01_Attach 1		370.35
MFNH	2,517	
2013 FRU Rate Design		212.59
RDI / Illustrative Rate Designs ComEd Exs. 2.04, 2.06, 2.07		213.05
Illustrative Rate Designs ComEd Exs. 2.08, 2.09		212.34
Illustrative Rate Designs ComEd Exs. 2.10, 2.11		213.00
Illustrative Rate Designs ComEd Exs. 2.12, 2.13		212.27
Illustrative Rate Designs ComEd Exs. 2.14, 2.15		211.12
Illustrative Rate Designs ComEd Exs. 2.16, 2.17		212.51
Illustrative Rate Designs ComEd Exs. 2.18, 2.19		212.73
Illustrative Rate Design WRJ 7.01_Attachs 2, 3, 4		210.41
Illustrative Rate Design WRJ 7.02_Attach 1		212.27
Illustrative Rate Design WRJ 8.01_Attach 1		212.27
Illustrative Rate Design WRJ 9.01_Attach 1		210.41
SFH	12,490	
2013 FRU Rate Design		399.85
RDI / Illustrative Rate Designs ComEd Exs. 2.04, 2.06, 2.07		400.10
Illustrative Rate Designs ComEd Exs. 2.08, 2.09		392.91
Illustrative Rate Designs ComEd Exs. 2.10, 2.11		400.22
Illustrative Rate Designs ComEd Exs. 2.12, 2.13		392.92
Illustrative Rate Designs ComEd Exs. 2.14, 2.15		402.78
Illustrative Rate Designs ComEd Exs. 2.16, 2.17		397.91
Illustrative Rate Designs ComEd Exs. 2.18, 2.19		398.64
Illustrative Rate Design WRJ 7.01_Attachs 2, 3, 4		395.71
Illustrative Rate Design WRJ 7.02_Attach 1		392.92
Illustrative Rate Design WRJ 8.01_Attach 1		392.92
Illustrative Rate Design WRJ 9.01_Attach 1		395.71
MFH	5,540	
2013 FRU Rate Design		228.99
RDI / Illustrative Rate Designs ComEd Exs. 2.04, 2.06, 2.07		229.33
Illustrative Rate Designs ComEd Exs. 2.08, 2.09		225.48
Illustrative Rate Designs ComEd Exs. 2.10, 2.11		229.38
Illustrative Rate Designs ComEd Exs. 2.12, 2.13		225.42
Illustrative Rate Designs ComEd Exs. 2.14, 2.15		227.99
Illustrative Rate Designs ComEd Exs. 2.16, 2.17		228.28
Illustrative Rate Designs ComEd Exs. 2.18, 2.19		228.75
Illustrative Rate Design WRJ 7.01_Attachs 2, 3, 4		224.21
Illustrative Rate Design WRJ 7.02_Attach 1		225.42
Illustrative Rate Design WRJ 8.01_Attach 1		225.42
Illustrative Rate Design WRJ 9.01_Attach 1		224.21

Table WRJ 9.02-3 (CST-D24): Illustrative Estimated Annual Bills – High Use Residential		
Delivery Class	**2012 Annual kWh Delivered**	**Illustrative Annual Delivery Service Bill**
	kWh	**$**
SFNH	12,286	
2013 FRU Rate Design		525.18
RDI / Illustrative Rate Designs ComEd Exs. 2.04, 2.06, 2.07		525.55
Illustrative Rate Designs ComEd Exs. 2.08, 2.09		523.23
Illustrative Rate Designs ComEd Exs. 2.10, 2.11		525.79
Illustrative Rate Designs ComEd Exs. 2.12, 2.13		522.99
Illustrative Rate Designs ComEd Exs. 2.14, 2.15		527.49
Illustrative Rate Designs ComEd Exs. 2.16, 2.17		523.97
Illustrative Rate Designs ComEd Exs. 2.18, 2.19		524.57
Illustrative Rate Design WRJ 7.01_Attachs 2, 3, 4		524.94
Illustrative Rate Design WRJ 7.02_Attach 1		522.99
Illustrative Rate Design WRJ 8.01_Attach 1		522.99
Illustrative Rate Design WRJ 9.01_Attach 1		524.94
MFNH	5,876	
2013 FRU Rate Design		320.62
RDI / Illustrative Rate Designs ComEd Exs. 2.04, 2.06, 2.07		321.21
Illustrative Rate Designs ComEd Exs. 2.08, 2.09		320.20
Illustrative Rate Designs ComEd Exs. 2.10, 2.11		321.27
Illustrative Rate Designs ComEd Exs. 2.12, 2.13		320.20
Illustrative Rate Designs ComEd Exs. 2.14, 2.15		318.31
Illustrative Rate Designs ComEd Exs. 2.16, 2.17		320.44
Illustrative Rate Designs ComEd Exs. 2.18, 2.19		320.79
Illustrative Rate Design WRJ 7.01_Attachs 2, 3, 4		317.30
Illustrative Rate Design WRJ 7.02_Attach 1		320.20
Illustrative Rate Design WRJ 8.01_Attach 1		320.20
Illustrative Rate Design WRJ 9.01_Attach 1		317.30
SFH	24,589	
2013 FRU Rate Design		551.21
RDI / Illustrative Rate Designs ComEd Exs. 2.04, 2.06, 2.07		551.57
Illustrative Rate Designs ComEd Exs. 2.08, 2.09		541.85
Illustrative Rate Designs ComEd Exs. 2.10, 2.11		551.82
Illustrative Rate Designs ComEd Exs. 2.12, 2.13		541.97
Illustrative Rate Designs ComEd Exs. 2.14, 2.15		555.22
Illustrative Rate Designs ComEd Exs. 2.16, 2.17		548.66
Illustrative Rate Designs ComEd Exs. 2.18, 2.19		549.75
Illustrative Rate Design WRJ 7.01_Attachs 2, 3, 4		545.61
Illustrative Rate Design WRJ 7.02_Attach 1		541.97
Illustrative Rate Design WRJ 8.01_Attach 1		541.97
Illustrative Rate Design WRJ 9.01_Attach 1		545.61
MFH	11,939	
2013 FRU Rate Design		327.98
RDI / Illustrative Rate Designs ComEd Exs. 2.04, 2.06, 2.07		328.57
Illustrative Rate Designs ComEd Exs. 2.08, 2.09		323.19
Illustrative Rate Designs ComEd Exs. 2.10, 2.11		328.69
Illustrative Rate Designs ComEd Exs. 2.12, 2.13		323.07
Illustrative Rate Designs ComEd Exs. 2.14, 2.15		326.66
Illustrative Rate Designs ComEd Exs. 2.16, 2.17		327.14
Illustrative Rate Designs ComEd Exs. 2.18, 2.19		327.74
Illustrative Rate Design WRJ 7.01_Attachs 2, 3, 4		321.28
Illustrative Rate Design WRJ 7.02_Attach 1		323.07
Illustrative Rate Design WRJ 8.01_Attach 1		323.07
Illustrative Rate Design WRJ 9.01_Attach 1		321.28

Table WRJ 9.02-4 (CST-D25): Illustrative Average Nonresidential Estimated Annual Bills		
Delivery Class	**2012 Average Annual kWh Delivered**	**Illustrative Annual Delivery Service Bill**
	kWh	**$**
WH	4,929	
2013 FRU Rate Design		293.26
RDI / Illustrative Rate Designs ComEd Exs. 2.04, 2.06, 2.07		293.53
Illustrative Rate Designs ComEd Exs. 2.08, 2.09		292.50
Illustrative Rate Designs ComEd Exs. 2.10, 2.11		293.70
Illustrative Rate Designs ComEd Exs. 2.12, 2.13		292.34
Illustrative Rate Designs ComEd Exs. 2.14, 2.15		286.82
Illustrative Rate Designs ComEd Exs. 2.16, 2.17		294.67
Illustrative Rate Designs ComEd Exs. 2.18, 2.19		294.18
Illustrative Rate Design WRJ 7.01_Attachs 2, 3, 4		285.62
Illustrative Rate Design WRJ 7.02_Attach 1		292.34
Illustrative Rate Design WRJ 8.01_Attach 1		292.34
Illustrative Rate Design WRJ 9.01_Attach 1		285.62
SL	46,069	
2013 FRU Rate Design		1,216.44
RDI Rate Design ComEd Ex. 2.04		1,211.76
Illustrative Rate Design ComEd Ex. 2.06		1,189.83
Illustrative Rate Design ComEd Ex. 2.07		1,203.02
Illustrative Rate Design ComEd Ex. 2.08		1,206.63
Illustrative Rate Design ComEd Ex. 2.09		1,184.94
Illustrative Rate Design ComEd Ex. 2.10		1,211.88
Illustrative Rate Design ComEd Ex. 2.11		1,190.55
Illustrative Rate Design ComEd Ex. 2.12		1,206.38
Illustrative Rate Design ComEd Ex. 2.13		1,184.46
Illustrative Rate Design ComEd Ex. 2.14		1,210.32
Illustrative Rate Design ComEd Ex. 2.15		1,188.75
Illustrative Rate Design ComEd Ex. 2.16		1,219.31
Illustrative Rate Design ComEd Ex. 2.17		1,197.61
Illustrative Rate Design ComEd Ex. 2.18		1,216.31
Illustrative Rate Design ComEd Ex. 2.19		1,194.38
Illustrative Rate Design WRJ 7.01_Attach 2		1,205.06
Illustrative Rate Design WRJ 7.01_Attach 3		1,183.14
Illustrative Rate Design WRJ 7.01_Attach 4		1,196.92
Illustrative Rate Design WRJ 7.02_Attach 1		1,198.12
Illustrative Rate Design WRJ 8.01_Attach 1		1,198.00
Illustrative Rate Design WRJ 9.01_Attach 1		1,196.68

Delivery Service Bill Impacts
Typical/Average Customer
(RRL = Revenue Responsibility Level)

		ComEd Ex. 2.03 2013 FRU ECOSS Current RRL		ComEd Ex. 2.04 RDI ECOSS Current RRL		Change from 2013 FRU	ComEd Ex. 2.06 RDI ECOSS 100 % RRL		ComEd Ex. 2.07 RDI ECOSS Next Step RRL		ComEd Ex. 2.08 ComEd Ex. 3.10 ECOSS Current RRL		ComEd Ex. 2.09 ComEd Ex. 3.10 ECOSS 100 % RRL	
SFNH		unit chg	annual bill	unit chg	annual bill	%	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 14.87	$ 178.44	$ 14.83	$ 177.96		$ 14.83	$ 177.96	$ 14.83	$ 177.96	$ 14.75	$ 177.00	$ 14.75	$ 177.00
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56		$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.02380	$ 218.27	$ 0.02383	$ 218.54		$ 0.02383	$ 218.54	$ 0.02383	$ 218.54	$ 0.02372	$ 217.54	$ 0.02372	$ 217.54
iedt	9,171 kWh	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64		$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64
Total			$ 447.43		$ 447.70	0.060%		$ 447.70		$ 447.70		$ 445.74		$ 445.74
MFNH		unit chg	annual bill	unit chg	annual bill	%	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 7.63	$ 91.56	$ 7.62	$ 91.44		$ 7.62	$ 91.44	$ 7.62	$ 91.44	$ 7.58	$ 90.96	$ 7.58	$ 90.96
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56		$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.03100	$ 131.72	$ 0.03104	$ 131.89		$ 0.03104	$ 131.89	$ 0.03104	$ 131.89	$ 0.03095	$ 131.51	$ 0.03095	$ 131.51
iedt	4,249 kWh	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93		$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93
Total			$ 268.29		$ 268.82	0.198%		$ 268.82		$ 268.82		$ 267.96		$ 267.96
SFH		unit chg	annual bill	unit chg	annual bill	%	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 16.96	$ 203.52	$ 16.93	$ 203.16		$ 16.93	$ 203.16	$ 16.93	$ 203.16	$ 16.55	$ 198.60	$ 16.55	$ 198.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56		$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01135	$ 243.37	$ 0.01136	$ 243.58		$ 0.01136	$ 243.58	$ 0.01136	$ 243.58	$ 0.01115	$ 239.08	$ 0.01115	$ 239.08
iedt	21,442 kWh	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87		$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87
Total			$ 511.84		$ 512.17	0.064%		$ 512.17		$ 512.17		$ 503.11		$ 503.11
MFH		unit chg	annual bill	unit chg	annual bill	%	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 8.60	$ 103.20	$ 8.57	$ 102.84		$ 8.57	$ 102.84	$ 8.57	$ 102.84	$ 8.36	$ 100.32	$ 8.36	$ 100.32
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56		$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01431	$ 143.06	$ 0.01435	$ 143.46		$ 0.01435	$ 143.46	$ 0.01435	$ 143.46	$ 0.01411	$ 141.06	$ 0.01411	$ 141.06
iedt	9,997 kWh	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60		$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60
Total			$ 297.94		$ 298.46	0.175%		$ 298.46		$ 298.46		$ 293.54		$ 293.54
WH		unit chg	annual bill	unit chg	annual bill	%	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 9.16	$ 109.92	$ 9.13	$ 109.56		$ 9.13	$ 109.56	$ 9.13	$ 109.56	$ 9.09	$ 109.08	$ 9.09	$ 109.08
smsc		$ 2.82	$ 33.84	$ 2.86	$ 34.32		$ 2.86	$ 34.32	$ 2.86	$ 34.32	$ 2.86	$ 34.32	$ 2.86	$ 34.32
dfc		$ 0.02917	$ 143.78	$ 0.02920	$ 143.93		$ 0.02920	$ 143.93	$ 0.02920	$ 143.93	$ 0.02909	$ 143.38	$ 0.02909	$ 143.38
iedt	4,929 kWh	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72		$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72
Total			$ 293.26		$ 293.53	0.092%		$ 293.53		$ 293.53		$ 292.50		$ 292.50
SL		unit chg	annual bill	unit chg	annual bill	%	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 13.65	$ 163.80	$ 13.75	$ 165.00		$ 13.48	$ 161.76	$ 13.67	$ 164.04	$ 13.84	$ 166.08	$ 13.46	$ 161.52
smsc		$ 9.93	$ 119.16	$ 9.44	$ 113.28		$ 9.44	$ 113.28	$ 9.44	$ 113.28	$ 9.44	$ 113.28	$ 9.44	$ 113.28
sv dfc	155.68 kW	$ 5.65	$ 879.59	$ 5.65	$ 879.59		$ 5.53	$ 860.91	$ 5.60	$ 871.81	$ 5.61	$ 873.36	$ 5.50	$ 856.24
pv dfc	0.19 kW	$ 2.27	$ 0.43	$ 2.27	$ 0.43		$ 2.22	$ 0.42	$ 2.25	$ 0.43	$ 2.35	$ 0.45	$ 2.30	$ 0.44
pv tr	0.08 kW	$ 0.23	$ 0.02	$ 0.23	$ 0.02		$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02
iedt	46,069 kWh	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44		$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44
Total			$ 1,216.44		$ 1,211.76	-0.385%		$ 1,189.83		$ 1,203.02		$ 1,206.63		$ 1,184.94

Delivery Service Bill Impacts
Typical/Average Customer
(RRL = Revenue Responsibility Level)

		ComEd Ex. 2.03 2013 FRU ECOSS Current RRL		ComEd Ex. 2.10 ComEd Ex. 3.12 ECOSS Current RRL		ComEd Ex. 2.11 ComEd Ex. 3.12 ECOSS 100 % RRL		ComEd Ex. 2.12 ComEd Ex. 3.14 ECOSS Current RRL		ComEd Ex. 2.13 ComEd Ex. 3.14 ECOSS 100 % RRL		ComEd Ex. 2.14 ComEd Ex. 3.16 ECOSS Current RRL	
SFNH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 14.87	$ 178.44	$ 14.83	$ 177.96	$ 14.83	$ 177.96	$ 14.75	$ 177.00	$ 14.75	$ 177.00	$ 14.89	$ 178.68
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.02380	$ 218.27	$ 0.02385	$ 218.73	$ 0.02385	$ 218.73	$ 0.02370	$ 217.35	$ 0.02370	$ 217.35	$ 0.02393	$ 219.46
iedt	9,171 kWh	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64
Total			$ 447.43		$ 447.89		$ 447.89		$ 445.55		$ 445.55		$ 449.34
MFNH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 7.63	$ 91.56	$ 7.61	$ 91.32	$ 7.61	$ 91.32	$ 7.57	$ 90.84	$ 7.57	$ 90.84	$ 7.52	$ 90.24
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.03100	$ 131.72	$ 0.03107	$ 132.02	$ 0.03107	$ 132.02	$ 0.03097	$ 131.59	$ 0.03097	$ 131.59	$ 0.03075	$ 130.66
iedt	4,249 kWh	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93
Total			$ 268.29		$ 268.83		$ 268.83		$ 267.92		$ 267.92		$ 266.39
SFH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 16.96	$ 203.52	$ 16.93	$ 203.16	$ 16.93	$ 203.16	$ 16.54	$ 198.48	$ 16.54	$ 198.48	$ 17.07	$ 204.84
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01135	$ 243.37	$ 0.01137	$ 243.80	$ 0.01137	$ 243.80	$ 0.01116	$ 239.29	$ 0.01116	$ 239.29	$ 0.01144	$ 245.30
iedt	21,442 kWh	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87
Total			$ 511.84		$ 512.39		$ 512.39		$ 503.20		$ 503.20		$ 515.57
MFH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 8.60	$ 103.20	$ 8.57	$ 102.84	$ 8.57	$ 102.84	$ 8.36	$ 100.32	$ 8.36	$ 100.32	$ 8.50	$ 102.00
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01431	$ 143.06	$ 0.01436	$ 143.56	$ 0.01436	$ 143.56	$ 0.01410	$ 140.96	$ 0.01410	$ 140.96	$ 0.01426	$ 142.56
iedt	9,997 kWh	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60
Total			$ 297.94		$ 298.56		$ 298.56		$ 293.44		$ 293.44		$ 296.72
WH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 9.16	$ 109.92	$ 9.14	$ 109.68	$ 9.14	$ 109.68	$ 9.08	$ 108.96	$ 9.08	$ 108.96	$ 8.85	$ 106.20
smsc		$ 2.82	$ 33.84	$ 2.86	$ 34.32	$ 2.86	$ 34.32	$ 2.86	$ 34.32	$ 2.86	$ 34.32	$ 2.86	$ 34.32
dfc		$ 0.02917	$ 143.78	$ 0.02921	$ 143.98	$ 0.02921	$ 143.98	$ 0.02908	$ 143.34	$ 0.02908	$ 143.34	$ 0.02852	$ 140.58
iedt	4,929 kWh	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72
Total			$ 293.26		$ 293.70		$ 293.70		$ 292.34		$ 292.34		$ 286.82
SL		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 13.65	$ 163.80	$ 13.76	$ 165.12	$ 13.41	$ 160.92	$ 13.82	$ 165.84	$ 13.42	$ 161.04	$ 13.63	$ 163.56
smsc		$ 9.93	$ 119.16	$ 9.44	$ 113.28	$ 9.44	$ 113.28	$ 9.44	$ 113.28	$ 9.44	$ 113.28	$ 9.44	$ 113.28
sv dfc	155.68 kW	$ 5.65	$ 879.59	$ 5.65	$ 879.59	$ 5.54	$ 862.47	$ 5.61	$ 873.36	$ 5.50	$ 856.24	$ 5.65	$ 879.59
pv dfc	0.19 kW	$ 2.27	$ 0.43	$ 2.27	$ 0.43	$ 2.23	$ 0.42	$ 2.34	$ 0.44	$ 2.30	$ 0.44	$ 2.27	$ 0.43
pv tr	0.08 kW	$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02
iedt	46,069 kWh	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44
Total			$ 1,216.44		$ 1,211.88		$ 1,190.55		$ 1,206.38		$ 1,184.46		$ 1,210.32

Delivery Service Bill Impacts
Typical/Average Customer
(RRL = Revenue Responsibility Level)

		ComEd Ex. 2.03 2013 FRU ECOSS Current RRL		ComEd Ex. 2.15 ComEd Ex. 3.16 ECOSS 100 % RRL		ComEd Ex. 2.16 ComEd Ex. 3.17 ECOSS Current RRL		ComEd Ex. 2.17 ComEd Ex. 3.17 ECOSS 100 % RRL		ComEd Ex. 2.18 ComEd Ex. 3.18 ECOSS Current RRL		ComEd Ex. 2.19 ComEd Ex. 3.18 ECOSS 100 % RRL		WRJ 7.01_Attach 2 WRJ 7.01 ECOSS Current RRL	
SFNH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 14.87	$ 178.44	$ 14.89	$ 178.68	$ 14.77	$ 177.24	$ 14.77	$ 177.24	$ 14.80	$ 177.60	$ 14.80	$ 177.60	$ 14.80	$ 177.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.02380	$ 218.27	$ 0.02393	$ 219.46	$ 0.02376	$ 217.90	$ 0.02376	$ 217.90	$ 0.02378	$ 218.09	$ 0.02378	$ 218.09	$ 0.02381	$ 218.36
iedt	9,171 kWh	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64
Total			$ 447.43		$ 449.34		$ 446.34		$ 446.34		$ 446.89		$ 446.89		$ 447.16
MFNH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 7.63	$ 91.56	$ 7.52	$ 90.24	$ 7.59	$ 91.08	$ 7.59	$ 91.08	$ 7.60	$ 91.20	$ 7.60	$ 91.20	$ 7.48	$ 89.76
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.03100	$ 131.72	$ 0.03075	$ 130.66	$ 0.03097	$ 131.59	$ 0.03097	$ 131.59	$ 0.03101	$ 131.76	$ 0.03101	$ 131.76	$ 0.03066	$ 130.27
iedt	4,249 kWh	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93
Total			$ 268.29		$ 266.39		$ 268.16		$ 268.16		$ 268.45		$ 268.45		$ 265.52
SFH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 16.96	$ 203.52	$ 17.07	$ 204.84	$ 16.81	$ 201.72	$ 16.81	$ 201.72	$ 16.84	$ 202.08	$ 16.84	$ 202.08	$ 16.70	$ 200.40
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01135	$ 243.37	$ 0.01144	$ 245.30	$ 0.01130	$ 242.29	$ 0.01130	$ 242.29	$ 0.01133	$ 242.94	$ 0.01133	$ 242.94	$ 0.01123	$ 240.79
iedt	21,442 kWh	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87
Total			$ 511.84		$ 515.57		$ 509.44		$ 509.44		$ 510.45		$ 510.45		$ 506.62
MFH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 8.60	$ 103.20	$ 8.50	$ 102.00	$ 8.51	$ 102.12	$ 8.51	$ 102.12	$ 8.54	$ 102.48	$ 8.54	$ 102.48	$ 8.30	$ 99.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01431	$ 143.06	$ 0.01426	$ 142.56	$ 0.01429	$ 142.86	$ 0.01429	$ 142.86	$ 0.01431	$ 143.06	$ 0.01431	$ 143.06	$ 0.01401	$ 140.06
iedt	9,997 kWh	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60
Total			$ 297.94		$ 296.72		$ 297.14		$ 297.14		$ 297.70		$ 297.70		$ 291.82
WH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 9.16	$ 109.92	$ 8.85	$ 106.20	$ 9.18	$ 110.16	$ 9.18	$ 110.16	$ 9.16	$ 109.92	$ 9.16	$ 109.92	$ 8.80	$ 105.60
smsc		$ 2.82	$ 33.84	$ 2.86	$ 34.32	$ 2.86	$ 34.32	$ 2.86	$ 34.32	$ 2.86	$ 34.32	$ 2.86	$ 34.32	$ 2.86	$ 34.32
dfc		$ 0.02917	$ 143.78	$ 0.02852	$ 140.58	$ 0.02931	$ 144.47	$ 0.02931	$ 144.47	$ 0.02926	$ 144.22	$ 0.02926	$ 144.22	$ 0.02840	$ 139.98
iedt	4,929 kWh	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72
Total			$ 293.26		$ 286.82		$ 294.67		$ 294.67		$ 294.18		$ 294.18		$ 285.62
SL		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 13.65	$ 163.80	$ 13.39	$ 160.68	$ 13.73	$ 164.76	$ 13.48	$ 161.76	$ 13.74	$ 164.88	$ 13.47	$ 161.64	$ 13.71	$ 164.52
smsc		$ 9.93	$ 119.16	$ 9.44	$ 113.28	$ 9.44	$ 113.28	$ 9.44	$ 113.28	$ 9.44	$ 113.28	$ 9.44	$ 113.28	$ 9.44	$ 113.28
sv dfc	155.68 kW	$ 5.65	$ 879.59	$ 5.53	$ 860.91	$ 5.70	$ 887.38	$ 5.58	$ 868.69	$ 5.68	$ 884.26	$ 5.56	$ 865.58	$ 5.61	$ 873.36
pv dfc	0.19 kW	$ 2.27	$ 0.43	$ 2.22	$ 0.42	$ 2.27	$ 0.43	$ 2.22	$ 0.42	$ 2.27	$ 0.43	$ 2.22	$ 0.42	$ 2.34	$ 0.44
pv tr	0.08 kW	$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02
iedt	46,069 kWh	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44
Total			$ 1,216.44		$ 1,188.75		$ 1,219.31		$ 1,197.61		$ 1,216.31		$ 1,194.38		$ 1,205.06

Delivery Service Bill Impacts
Typical/Average Customer
(RRL = Revenue Responsibility Level)

		ComEd Ex. 2.03 2013 FRU ECOSS Current RRL		WRJ 7.01_Attach 3 WRJ 7.01 ECOSS 100 % RRL		WRJ 7.01_Attach 4 WRJ 7.01 ECOSS Next Step RRL		WRJ 7.02_Attach 1 ComEd Ex. 3.14 ECOSS Next Step RRL		WRJ 8.01_Attach 1 ComEd Ex. 3.14 ECOSS Next Step (ELL and HV) Current (RR) RRL		WRJ 9.01_Attach 1 WRJ 7.01 ECOSS Next Step (ELL and HV) Current (RR) RRL	
SFNH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 14.87	$ 178.44	$ 14.80	$ 177.60	$ 14.80	$ 177.60	$ 14.75	$ 177.00	$ 14.75	$ 177.00	$ 14.80	$ 177.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.02380	$ 218.27	$ 0.02381	$ 218.36	$ 0.02381	$ 218.36	$ 0.02370	$ 217.35	$ 0.02370	$ 217.35	$ 0.02381	$ 218.36
iedt	9,171 kWh	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64	$ 0.00116	$ 10.64
Total			$ 447.43		$ 447.16		$ 447.16		$ 445.55		$ 445.55		$ 447.16
MFNH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 7.63	$ 91.56	$ 7.48	$ 89.76	$ 7.48	$ 89.76	$ 7.57	$ 90.84	$ 7.57	$ 90.84	$ 7.48	$ 89.76
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.03100	$ 131.72	$ 0.03066	$ 130.27	$ 0.03066	$ 130.27	$ 0.03097	$ 131.59	$ 0.03097	$ 131.59	$ 0.03066	$ 130.27
iedt	4,249 kWh	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93	$ 0.00116	$ 4.93
Total			$ 268.29		$ 265.52		$ 265.52		$ 267.92		$ 267.92		$ 265.52
SFH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 16.96	$ 203.52	$ 16.70	$ 200.40	$ 16.70	$ 200.40	$ 16.54	$ 198.48	$ 16.54	$ 198.48	$ 16.70	$ 200.40
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01135	$ 243.37	$ 0.01123	$ 240.79	$ 0.01123	$ 240.79	$ 0.01116	$ 239.29	$ 0.01116	$ 239.29	$ 0.01123	$ 240.79
iedt	21,442 kWh	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87	$ 0.00116	$ 24.87
Total			$ 511.84		$ 506.62		$ 506.62		$ 503.20		$ 503.20		$ 506.62
MFH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 8.60	$ 103.20	$ 8.30	$ 99.60	$ 8.30	$ 99.60	$ 8.36	$ 100.32	$ 8.36	$ 100.32	$ 8.30	$ 99.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01431	$ 143.06	$ 0.01401	$ 140.06	$ 0.01401	$ 140.06	$ 0.01410	$ 140.96	$ 0.01410	$ 140.96	$ 0.01401	$ 140.06
iedt	9,997 kWh	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60	$ 0.00116	$ 11.60
Total			$ 297.94		$ 291.82		$ 291.82		$ 293.44		$ 293.44		$ 291.82
WH		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 9.16	$ 109.92	$ 8.80	$ 105.60	$ 8.80	$ 105.60	$ 9.08	$ 108.96	$ 9.08	$ 108.96	$ 8.80	$ 105.60
smsc		$ 2.82	$ 33.84	$ 2.86	$ 34.32	$ 2.86	$ 34.32	$ 2.86	$ 34.32	$ 2.86	$ 34.32	$ 2.86	$ 34.32
dfc		$ 0.02917	$ 143.78	$ 0.02840	$ 139.98	$ 0.02840	$ 139.98	$ 0.02908	$ 143.34	$ 0.02908	$ 143.34	$ 0.02840	$ 139.98
iedt	4,929 kWh	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72	$ 0.00116	$ 5.72
Total			$ 293.26		$ 285.62		$ 285.62		$ 292.34		$ 292.34		$ 285.62
SL		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 13.65	$ 163.80	$ 13.31	$ 159.72	$ 13.55	$ 162.60	$ 13.65	$ 163.80	$ 13.77	$ 165.24	$ 13.66	$ 163.92
smsc		$ 9.93	$ 119.16	$ 9.44	$ 113.28	$ 9.44	$ 113.28	$ 9.44	$ 113.28	$ 9.44	$ 113.28	$ 9.44	$ 113.28
sv dfc	155.68 kW	$ 5.65	$ 879.59	$ 5.50	$ 856.24	$ 5.57	$ 867.14	$ 5.57	$ 867.14	$ 5.56	$ 865.58	$ 5.56	$ 865.58
pv dfc	0.19 kW	$ 2.27	$ 0.43	$ 2.30	$ 0.44	$ 2.33	$ 0.44	$ 2.33	$ 0.44	$ 2.32	$ 0.44	$ 2.32	$ 0.44
pv tr	0.08 kW	$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02	$ 0.23	$ 0.02
iedt	46,069 kWh	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44	$ 0.00116	$ 53.44
Total			$ 1,216.44		$ 1,183.14		$ 1,196.92		$ 1,198.12		$ 1,198.00		$ 1,196.68

Delivery Service Bill Impacts
Residential 25th and 75 Percentiles
(RRL = Revenue Responsibility Level)

		ComEd Ex. 2.03 2013 FRU ECOSS Current RRL		ComEd Ex. 2.04 RDI ECOSS Current RRL		Change from 2013 FRU	ComEd Ex. 2.06 RDI ECOSS 100 % RRL		ComEd Ex. 2.07 RDI ECOSS Next Step RRL		ComEd Ex. 2.08 ComEd Ex. 3.10 ECOSS Current RRL		ComEd Ex. 2.09 ComEd Ex. 3.10 ECOSS 100 % RRL	
SFNH25		unit chg	annual bill	unit chg	annual bill	%	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 14.87	$ 178.44	$ 14.83	$ 177.96		$ 14.83	$ 177.96	$ 14.83	$ 177.96	$ 14.75	$ 177.00	$ 14.75	$ 177.00
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56		$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.02380	$ 145.06	$ 0.02383	$ 145.24		$ 0.02383	$ 145.24	$ 0.02383	$ 145.24	$ 0.02372	$ 144.57	$ 0.02372	$ 144.57
iedt	6,095 kWh	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07		$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07
Total			$ 370.65		$ 370.83	0.049%		$ 370.83		$ 370.83		$ 369.20		$ 369.20
SFNH75		unit chg	annual bill	unit chg	annual bill	%	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 14.87	$ 178.44	$ 14.83	$ 177.96		$ 14.83	$ 177.96	$ 14.83	$ 177.96	$ 14.75	$ 177.00	$ 14.75	$ 177.00
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56		$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.02380	$ 292.41	$ 0.02383	$ 292.78		$ 0.02383	$ 292.78	$ 0.02383	$ 292.78	$ 0.02372	$ 291.42	$ 0.02372	$ 291.42
iedt	12,286 kWh	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25		$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25
Total			$ 525.18		$ 525.55	0.070%		$ 525.55		$ 525.55		$ 523.23		$ 523.23
MFNH25		unit chg	annual bill	unit chg	annual bill	%	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 7.63	$ 91.56	$ 7.62	$ 91.44		$ 7.62	$ 91.44	$ 7.62	$ 91.44	$ 7.58	$ 90.96	$ 7.58	$ 90.96
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56		$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.03100	$ 78.03	$ 0.03104	$ 78.13		$ 0.03104	$ 78.13	$ 0.03104	$ 78.13	$ 0.03095	$ 77.90	$ 0.03095	$ 77.90
iedt	2,517 kWh	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92		$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92
Total			$ 212.59		$ 213.05	0.216%		$ 213.05		$ 213.05		$ 212.34		$ 212.34
MFNH75		unit chg	annual bill	unit chg	annual bill	%	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 7.63	$ 91.56	$ 7.62	$ 91.44		$ 7.62	$ 91.44	$ 7.62	$ 91.44	$ 7.58	$ 90.96	$ 7.58	$ 90.96
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56		$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.03100	$ 182.16	$ 0.03104	$ 182.39		$ 0.03104	$ 182.39	$ 0.03104	$ 182.39	$ 0.03095	$ 181.86	$ 0.03095	$ 181.86
iedt	5,876 kWh	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82		$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82
Total			$ 320.62		$ 321.21	0.184%		$ 321.21		$ 321.21		$ 320.20		$ 320.20
SFH25		unit chg	annual bill	unit chg	annual bill	%	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 16.96	$ 203.52	$ 16.93	$ 203.16		$ 16.93	$ 203.16	$ 16.93	$ 203.16	$ 16.55	$ 198.60	$ 16.55	$ 198.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56		$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01135	$ 141.76	$ 0.01136	$ 141.89		$ 0.01136	$ 141.89	$ 0.01136	$ 141.89	$ 0.01115	$ 139.26	$ 0.01115	$ 139.26
iedt	12,490 kWh	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49		$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49
Total			$ 399.85		$ 400.10	0.063%		$ 400.10		$ 400.10		$ 392.91		$ 392.91
SFH75		unit chg	annual bill	unit chg	annual bill	%	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 16.96	$ 203.52	$ 16.93	$ 203.16		$ 16.93	$ 203.16	$ 16.93	$ 203.16	$ 16.55	$ 198.60	$ 16.55	$ 198.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56		$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01135	$ 279.09	$ 0.01136	$ 279.33		$ 0.01136	$ 279.33	$ 0.01136	$ 279.33	$ 0.01115	$ 274.17	$ 0.01115	$ 274.17
iedt	24,589 kWh	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52		$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52
Total			$ 551.21		$ 551.57	0.065%		$ 551.57		$ 551.57		$ 541.85		$ 541.85
MFH25		unit chg	annual bill	unit chg	annual bill	%	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 8.60	$ 103.20	$ 8.57	$ 102.84		$ 8.57	$ 102.84	$ 8.57	$ 102.84	$ 8.36	$ 100.32	$ 8.36	$ 100.32
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56		$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01431	$ 79.28	$ 0.01435	$ 79.50		$ 0.01435	$ 79.50	$ 0.01435	$ 79.50	$ 0.01411	$ 78.17	$ 0.01411	$ 78.17
iedt	5,540 kWh	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43		$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43
Total			$ 228.99		$ 229.33	0.148%		$ 229.33		$ 229.33		$ 225.48		$ 225.48
MFH75		unit chg	annual bill	unit chg	annual bill	%	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 8.60	$ 103.20	$ 8.57	$ 102.84		$ 8.57	$ 102.84	$ 8.57	$ 102.84	$ 8.36	$ 100.32	$ 8.36	$ 100.32
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56		$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01431	$ 170.85	$ 0.01435	$ 171.32		$ 0.01435	$ 171.32	$ 0.01435	$ 171.32	$ 0.01411	$ 168.46	$ 0.01411	$ 168.46
iedt	11,939 kWh	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85		$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85
Total			$ 327.98		$ 328.57	0.180%		$ 328.57		$ 328.57		$ 323.19		$ 323.19

Delivery Service Bill Impacts
Residential 25th and 75 Percentiles
(RRL = Revenue Responsibility Level)

		ComEd Ex. 2.03 2013 FRU ECOSS Current RRL		ComEd Ex. 2.10 ComEd Ex. 3.12 ECOSS Current RRL		ComEd Ex. 2.11 ComEd Ex. 3.12 ECOSS 100 % RRL		ComEd Ex. 2.12 ComEd Ex. 3.14 ECOSS Current RRL		ComEd Ex. 2.13 ComEd Ex. 3.14 ECOSS 100 % RRL		ComEd Ex. 2.14 ComEd Ex. 3.16 ECOSS Current RRL	
SFNH25		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 14.87	$ 178.44	$ 14.83	$ 177.96	$ 14.83	$ 177.96	$ 14.75	$ 177.00	$ 14.75	$ 177.00	$ 14.89	$ 178.68
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.02380	$ 145.06	$ 0.02385	$ 145.37	$ 0.02385	$ 145.37	$ 0.02370	$ 144.45	$ 0.02370	$ 144.45	$ 0.02393	$ 145.85
iedt	6,095 kWh	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07
Total			$ 370.65		$ 370.96		$ 370.96		$ 369.08		$ 369.08		$ 372.16
SFNH75		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 14.87	$ 178.44	$ 14.83	$ 177.96	$ 14.83	$ 177.96	$ 14.75	$ 177.00	$ 14.75	$ 177.00	$ 14.89	$ 178.68
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.02380	$ 292.41	$ 0.02385	$ 293.02	$ 0.02385	$ 293.02	$ 0.02370	$ 291.18	$ 0.02370	$ 291.18	$ 0.02393	$ 294.00
iedt	12,286 kWh	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25
Total			$ 525.18		$ 525.79		$ 525.79		$ 522.99		$ 522.99		$ 527.49
MFNH25		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 7.63	$ 91.56	$ 7.61	$ 91.32	$ 7.61	$ 91.32	$ 7.57	$ 90.84	$ 7.57	$ 90.84	$ 7.52	$ 90.24
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.03100	$ 78.03	$ 0.03107	$ 78.20	$ 0.03107	$ 78.20	$ 0.03097	$ 77.95	$ 0.03097	$ 77.95	$ 0.03075	$ 77.40
iedt	2,517 kWh	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92
Total			$ 212.59		$ 213.00		$ 213.00		$ 212.27		$ 212.27		$ 211.12
MFNH75		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 7.63	$ 91.56	$ 7.61	$ 91.32	$ 7.61	$ 91.32	$ 7.57	$ 90.84	$ 7.57	$ 90.84	$ 7.52	$ 90.24
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.03100	$ 182.16	$ 0.03107	$ 182.57	$ 0.03107	$ 182.57	$ 0.03097	$ 181.98	$ 0.03097	$ 181.98	$ 0.03075	$ 180.69
iedt	5,876 kWh	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82
Total			$ 320.62		$ 321.27		$ 321.27		$ 320.20		$ 320.20		$ 318.31
SFH25		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 16.96	$ 203.52	$ 16.93	$ 203.16	$ 16.93	$ 203.16	$ 16.54	$ 198.48	$ 16.54	$ 198.48	$ 17.07	$ 204.84
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01135	$ 141.76	$ 0.01137	$ 142.01	$ 0.01137	$ 142.01	$ 0.01116	$ 139.39	$ 0.01116	$ 139.39	$ 0.01144	$ 142.89
iedt	12,490 kWh	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49
Total			$ 399.85		$ 400.22		$ 400.22		$ 392.92		$ 392.92		$ 402.78
SFH75		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 16.96	$ 203.52	$ 16.93	$ 203.16	$ 16.93	$ 203.16	$ 16.54	$ 198.48	$ 16.54	$ 198.48	$ 17.07	$ 204.84
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01135	$ 279.09	$ 0.01137	$ 279.58	$ 0.01137	$ 279.58	$ 0.01116	$ 274.41	$ 0.01116	$ 274.41	$ 0.01144	$ 281.30
iedt	24,589 kWh	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52
Total			$ 551.21		$ 551.82		$ 551.82		$ 541.97		$ 541.97		$ 555.22
MFH25		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 8.60	$ 103.20	$ 8.57	$ 102.84	$ 8.57	$ 102.84	$ 8.36	$ 100.32	$ 8.36	$ 100.32	$ 8.50	$ 102.00
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01431	$ 79.28	$ 0.01436	$ 79.55	$ 0.01436	$ 79.55	$ 0.01410	$ 78.11	$ 0.01410	$ 78.11	$ 0.01426	$ 79.00
iedt	5,540 kWh	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43
Total			$ 228.99		$ 229.38		$ 229.38		$ 225.42		$ 225.42		$ 227.99
MFH75		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 8.60	$ 103.20	$ 8.57	$ 102.84	$ 8.57	$ 102.84	$ 8.36	$ 100.32	$ 8.36	$ 100.32	$ 8.50	$ 102.00
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01431	$ 170.85	$ 0.01436	$ 171.44	$ 0.01436	$ 171.44	$ 0.01410	$ 168.34	$ 0.01410	$ 168.34	$ 0.01426	$ 170.25
iedt	11,939 kWh	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85
Total			$ 327.98		$ 328.69		$ 328.69		$ 323.07		$ 323.07		$ 326.66

Delivery Service Bill Impacts
Residential 25th and 75 Percentiles
(RRL = Revenue Responsibility Level)

		ComEd Ex. 2.03 2013 FRU ECOSS Current RRL		ComEd Ex. 2.15 ComEd Ex. 3.16 ECOSS 100 % RRL		ComEd Ex. 2.16 ComEd Ex. 3.17 ECOSS Current RRL		ComEd Ex. 2.17 ComEd Ex. 3.17 ECOSS 100 % RRL		ComEd Ex. 2.18 ComEd Ex. 3.18 ECOSS Current RRL		ComEd Ex. 2.19 ComEd Ex. 3.18 ECOSS 100 % RRL		WRJ 7.01_Attach 2 WRJ 7.01 ECOSS Current RRL	
SFNH25		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 14.87	$ 178.44	$ 14.89	$ 178.68	$ 14.77	$ 177.24	$ 14.77	$ 177.24	$ 14.80	$ 177.60	$ 14.80	$ 177.60	$ 14.80	$ 177.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.02380	$ 145.06	$ 0.02393	$ 145.85	$ 0.02376	$ 144.82	$ 0.02376	$ 144.82	$ 0.02378	$ 144.94	$ 0.02378	$ 144.94	$ 0.02381	$ 145.12
iedt	6,095 kWh	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07
Total			$ 370.65		$ 372.16		$ 369.69		$ 369.69		$ 370.17		$ 370.17		$ 370.35
SFNH75		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 14.87	$ 178.44	$ 14.89	$ 178.68	$ 14.77	$ 177.24	$ 14.77	$ 177.24	$ 14.80	$ 177.60	$ 14.80	$ 177.60	$ 14.80	$ 177.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.02380	$ 292.41	$ 0.02393	$ 294.00	$ 0.02376	$ 291.92	$ 0.02376	$ 291.92	$ 0.02378	$ 292.16	$ 0.02378	$ 292.16	$ 0.02381	$ 292.53
iedt	12,286 kWh	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25
Total			$ 525.18		$ 527.49		$ 523.97		$ 523.97		$ 524.57		$ 524.57		$ 524.94
MFNH25		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 7.63	$ 91.56	$ 7.52	$ 90.24	$ 7.59	$ 91.08	$ 7.59	$ 91.08	$ 7.60	$ 91.20	$ 7.60	$ 91.20	$ 7.48	$ 89.76
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.03100	$ 78.03	$ 0.03075	$ 77.40	$ 0.03097	$ 77.95	$ 0.03097	$ 77.95	$ 0.03101	$ 78.05	$ 0.03101	$ 78.05	$ 0.03066	$ 77.17
iedt	2,517 kWh	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92
Total			$ 212.59		$ 211.12		$ 212.51		$ 212.51		$ 212.73		$ 212.73		$ 210.41
MFNH75		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 7.63	$ 91.56	$ 7.52	$ 90.24	$ 7.59	$ 91.08	$ 7.59	$ 91.08	$ 7.60	$ 91.20	$ 7.60	$ 91.20	$ 7.48	$ 89.76
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.03100	$ 182.16	$ 0.03075	$ 180.69	$ 0.03097	$ 181.98	$ 0.03097	$ 181.98	$ 0.03101	$ 182.21	$ 0.03101	$ 182.21	$ 0.03066	$ 180.16
iedt	5,876 kWh	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82
Total			$ 320.62		$ 318.31		$ 320.44		$ 320.44		$ 320.79		$ 320.79		$ 317.30
SFH25		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 16.96	$ 203.52	$ 17.07	$ 204.84	$ 16.81	$ 201.72	$ 16.81	$ 201.72	$ 16.84	$ 202.08	$ 16.84	$ 202.08	$ 16.70	$ 200.40
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01135	$ 141.76	$ 0.01144	$ 142.89	$ 0.01130	$ 141.14	$ 0.01130	$ 141.14	$ 0.01133	$ 141.51	$ 0.01133	$ 141.51	$ 0.01123	$ 140.26
iedt	12,490 kWh	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49
Total			$ 399.85		$ 402.78		$ 397.91		$ 397.91		$ 398.64		$ 398.64		$ 395.71
SFH75		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 16.96	$ 203.52	$ 17.07	$ 204.84	$ 16.81	$ 201.72	$ 16.81	$ 201.72	$ 16.84	$ 202.08	$ 16.84	$ 202.08	$ 16.70	$ 200.40
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01135	$ 279.09	$ 0.01144	$ 281.30	$ 0.01130	$ 277.86	$ 0.01130	$ 277.86	$ 0.01133	$ 278.59	$ 0.01133	$ 278.59	$ 0.01123	$ 276.13
iedt	24,589 kWh	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52
Total			$ 551.21		$ 555.22		$ 548.66		$ 548.66		$ 549.75		$ 549.75		$ 545.61
MFH25		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 8.60	$ 103.20	$ 8.50	$ 102.00	$ 8.51	$ 102.12	$ 8.51	$ 102.12	$ 8.54	$ 102.48	$ 8.54	$ 102.48	$ 8.30	$ 99.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01431	$ 79.28	$ 0.01426	$ 79.00	$ 0.01429	$ 79.17	$ 0.01429	$ 79.17	$ 0.01431	$ 79.28	$ 0.01431	$ 79.28	$ 0.01401	$ 77.62
iedt	5,540 kWh	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43
Total			$ 228.99		$ 227.99		$ 228.28		$ 228.28		$ 228.75		$ 228.75		$ 224.21
MFH75		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 8.60	$ 103.20	$ 8.50	$ 102.00	$ 8.51	$ 102.12	$ 8.51	$ 102.12	$ 8.54	$ 102.48	$ 8.54	$ 102.48	$ 8.30	$ 99.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01431	$ 170.85	$ 0.01426	$ 170.25	$ 0.01429	$ 170.61	$ 0.01429	$ 170.61	$ 0.01431	$ 170.85	$ 0.01431	$ 170.85	$ 0.01401	$ 167.27
iedt	11,939 kWh	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85
Total			$ 327.98		$ 326.66		$ 327.14		$ 327.14		$ 327.74		$ 327.74		$ 321.28

Delivery Service Bill Impacts
Residential 25th and 75 Percentiles
(RRL = Revenue Responsibility Level)

		ComEd Ex. 2.03 2013 FRU ECOSS Current RRL		WRJ 7.01_Attach 3 WRJ 7.01 ECOSS 100 % RRL		WRJ 7.01_Attach 4 WRJ 7.01 ECOSS Next Step RRL		WRJ 7.02_Attach 1 ComEd Ex. 3.14 ECOSS Next Step RRL		WRJ 8.01_Attach 1 ComEd Ex. 3.14 ECOSS Next Step (ELL and HV) Current (RR) RRL		WRJ 9.01_Attach 1 WRJ 7.01 ECOSS Next Step (ELL and HV) Current (RR) RRL	
SFNH25		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 14.87	$ 178.44	$ 14.80	$ 177.60	$ 14.80	$ 177.60	$ 14.75	$ 177.00	$ 14.75	$ 177.00	$ 14.80	$ 177.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.02380	$ 145.06	$ 0.02381	$ 145.12	$ 0.02381	$ 145.12	$ 0.02370	$ 144.45	$ 0.02370	$ 144.45	$ 0.02381	$ 145.12
iedt	6,095 kWh	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07	$ 0.00116	$ 7.07
Total			$ 370.65		$ 370.35		$ 370.35		$ 369.08		$ 369.08		$ 370.35
SFNH75		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 14.87	$ 178.44	$ 14.80	$ 177.60	$ 14.80	$ 177.60	$ 14.75	$ 177.00	$ 14.75	$ 177.00	$ 14.80	$ 177.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.02380	$ 292.41	$ 0.02381	$ 292.53	$ 0.02381	$ 292.53	$ 0.02370	$ 291.18	$ 0.02370	$ 291.18	$ 0.02381	$ 292.53
iedt	12,286 kWh	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25	$ 0.00116	$ 14.25
Total			$ 525.18		$ 524.94		$ 524.94		$ 522.99		$ 522.99		$ 524.94
MFNH25		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 7.63	$ 91.56	$ 7.48	$ 89.76	$ 7.48	$ 89.76	$ 7.57	$ 90.84	$ 7.57	$ 90.84	$ 7.48	$ 89.76
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.03100	$ 78.03	$ 0.03066	$ 77.17	$ 0.03066	$ 77.17	$ 0.03097	$ 77.95	$ 0.03097	$ 77.95	$ 0.03066	$ 77.17
iedt	2,517 kWh	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92	$ 0.00116	$ 2.92
Total			$ 212.59		$ 210.41		$ 210.41		$ 212.27		$ 212.27		$ 210.41
MFNH75		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 7.63	$ 91.56	$ 7.48	$ 89.76	$ 7.48	$ 89.76	$ 7.57	$ 90.84	$ 7.57	$ 90.84	$ 7.48	$ 89.76
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.03100	$ 182.16	$ 0.03066	$ 180.16	$ 0.03066	$ 180.16	$ 0.03097	$ 181.98	$ 0.03097	$ 181.98	$ 0.03066	$ 180.16
iedt	5,876 kWh	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82	$ 0.00116	$ 6.82
Total			$ 320.62		$ 317.30		$ 317.30		$ 320.20		$ 320.20		$ 317.30
SFH25		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 16.96	$ 203.52	$ 16.70	$ 200.40	$ 16.70	$ 200.40	$ 16.54	$ 198.48	$ 16.54	$ 198.48	$ 16.70	$ 200.40
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01135	$ 141.76	$ 0.01123	$ 140.26	$ 0.01123	$ 140.26	$ 0.01116	$ 139.39	$ 0.01116	$ 139.39	$ 0.01123	$ 140.26
iedt	12,490 kWh	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49	$ 0.00116	$ 14.49
Total			$ 399.85		$ 395.71		$ 395.71		$ 392.92		$ 392.92		$ 395.71
SFH75		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 16.96	$ 203.52	$ 16.70	$ 200.40	$ 16.70	$ 200.40	$ 16.54	$ 198.48	$ 16.54	$ 198.48	$ 16.70	$ 200.40
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01135	$ 279.09	$ 0.01123	$ 276.13	$ 0.01123	$ 276.13	$ 0.01116	$ 274.41	$ 0.01116	$ 274.41	$ 0.01123	$ 276.13
iedt	24,589 kWh	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52	$ 0.00116	$ 28.52
Total			$ 551.21		$ 545.61		$ 545.61		$ 541.97		$ 541.97		$ 545.61
MFH25		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 8.60	$ 103.20	$ 8.30	$ 99.60	$ 8.30	$ 99.60	$ 8.36	$ 100.32	$ 8.36	$ 100.32	$ 8.30	$ 99.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01431	$ 79.28	$ 0.01401	$ 77.62	$ 0.01401	$ 77.62	$ 0.01410	$ 78.11	$ 0.01410	$ 78.11	$ 0.01401	$ 77.62
iedt	5,540 kWh	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43	$ 0.00116	$ 6.43
Total			$ 228.99		$ 224.21		$ 224.21		$ 225.42		$ 225.42		$ 224.21
MFH75		unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill	unit chg	annual bill
cc		$ 8.60	$ 103.20	$ 8.30	$ 99.60	$ 8.30	$ 99.60	$ 8.36	$ 100.32	$ 8.36	$ 100.32	$ 8.30	$ 99.60
smsc		$ 3.34	$ 40.08	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56	$ 3.38	$ 40.56
dfc		$ 0.01431	$ 170.85	$ 0.01401	$ 167.27	$ 0.01401	$ 167.27	$ 0.01410	$ 168.34	$ 0.01410	$ 168.34	$ 0.01401	$ 167.27
iedt	11,939 kWh	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85	$ 0.00116	$ 13.85
Total			$ 327.98		$ 321.28		$ 321.28		$ 323.07		$ 323.07		$ 321.28