

OFFICIAL
EXHIBITS

FILED
January 25, 2017
INDIANA UTILITY
REGULATORY COMMISSION

STATE OF INDIANA

INDIANA UTILITY REGULATORY COMMISSION

IN THE MATTER OF THE VERIFIED)
PETITION OF INDIANA MICHIGAN POWER)
COMPANY FOR APPROVAL OF DEMAND)
SIDE MANAGEMENT (DSM) PLAN,)
INCLUDING ENERGY EFFICIENCY (EE))
PROGRAMS, AND ASSOCIATED)
ACCOUNTING AND RATEMAKING)
TREATMENT, INCLUDING TIMELY)
RECOVERY THROUGH I&M'S DSM/EE)
PROGRAM COST RIDER OF ASSOCIATED)
COSTS, INCLUDING PROGRAM)
OPERATING COSTS, NET LOST REVENUE,)
FINANCIAL INCENTIVES, AND CARRYING)
CHARGES AND DEPRECIATION EXPENSE)
ON CAPITAL EXPENDITURES AND)
ASSOCIATED OPERATIONS AND)
MAINTENANCE EXPENSE.)

IURC
PETITIONER'S
EXHIBIT NO. 1-3
4-13-17 DATE REPORTER
CAUSE NO. 44841

PETITIONER'S SUBMISSION OF SETTLEMENT TESTIMONY OF
JON C. WALTER

Indiana Michigan Power Company ("I&M"), by counsel, hereby submits the
settlement testimony and attachments of Jon C. Walter.

Respectfully submitted,



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CERTIFICATE OF SERVICE

The undersigned certifies that a copy of the foregoing was served upon the following via electronic email, hand delivery or First Class, United States Mail, postage prepaid this 25th day of January, 2017 to:

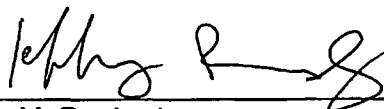
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Exhibit I&M-_____

INDIANA MICHIGAN POWER COMPANY

Cause No. 44841

PRE-FILED VERIFIED SETTLEMENT TESTIMONY

OF

JON C. WALTER

**PRE-FILED VERIFIED SETTLEMENT TESTIMONY OF JON C. WALTER
ON BEHALF OF
INDIANA MICHIGAN POWER COMPANY**

1 **I. INTRODUCTION**

2 **Q. Please state your name and business address.**

3 A. My name is Jon C. Walter. My business address is Indiana Michigan Power
4 Center, P.O. Box 60, Fort Wayne, Indiana 46801.

5 **Q. By whom are you employed and in what capacity?**

6 A. I am employed by Indiana Michigan Power Company (I&M or Company) as
7 Manager of Regulatory Support.

8 **Q. Are you the same Jon C. Walter who previously submitted direct and
9 rebuttal testimony in this Cause?**

10 A. Yes.

11 **Q. What is the purpose of your settlement testimony in this proceeding?**

12 A. The purpose of my testimony is to present and support the Settlement
13 Agreement between the Indiana Office of Utility Consumer Counselor
14 (OUCC), I&M Industrial Group (IG), the City of Fort Wayne (City) and I&M
15 (collectively, Settling Parties), as a reasonable resolution of the issues in this
16 proceeding and as support for a Commission order adopting the terms of the
17 Settlement Agreement. I also explain a clarification I&M is proposing to the
18 Work Energy Management (W.E.M.) tariff.

19 **Q. Are you sponsoring any attachments in this proceeding?**

20 A. Yes. Together with OUCC witness Rutter, I co-sponsor Settling Parties'

1 Exhibit 1, which is a copy of the Settlement Agreement previously filed in this
2 proceeding. I also sponsor Attachment JCW-1S, which is an illustration of the
3 impact of different measure life caps on lost revenues.

4 In addition, I have revised certain attachments from my direct testimony to
5 reflect the Settlement Agreement. For ease of reference, the attachments
6 have the same numbering as in my direct testimony but include an "S"
7 designator after the attachment number to reflect revision due to Settlement:

8	<u>Attachment JCW-2S</u>	DSM Plan Program Summary
9	<u>Attachment JCW-4S</u>	DSM Plan Program Tables
10	<u>Attachment JCW-5S</u>	DSM Plan Goals Versus IRP Summary
11	<u>Attachment JCW-6S</u>	DSM Plan Three Year Benefit Cost
12		Analysis
13	<u>Attachment JCW-12S</u>	2017 Shared Savings Forecast
14	<u>Attachment JCW-13S</u>	2018 Shared Savings Forecast
15	<u>Attachment JCW-14S</u>	2019 Shared Savings Forecast
16	<u>Attachment JCW-15S</u>	DSM/EE Revenue Requirement
17	<u>Attachment JCW-27S</u>	Public Efficient Streetlighting Program
18		Description
19	<u>Attachment JCW-36S</u>	Proposed Work Energy Management
20		Tariff
21	<u>Attachment JCW-37S</u>	Proposed Tariffs E.C.L.S. (Energy
22		Conservation Lighting Service) and
23		S.L.S. (Streetlighting Service)

1 **Q. Were these attachments prepared or assembled by you or under your**
2 **direction and supervision?**

3 A. Yes.

4 **Q. Please generally describe the Settlement Agreement.**

5 A. The Settlement Agreement sets forth the Settling Parties' negotiated
6 resolution of all issues in the proceeding. I discuss the terms of the
7 Settlement Agreement below. While it is an agreement among less than all
8 the parties, it is a fair and reasonable resolution of all the issues and the
9 Settling Parties recommend that the Settlement Agreement be approved
10 expeditiously.

11 **Q. Please discuss Section I.**

12 A. Section I of the Settlement Agreement clarifies that the Settling Parties agree
13 to the approval of I&M's requested DSM Plan and associated accounting and
14 ratemaking treatment, with the modifications outlined in the rest of the
15 Settlement Agreement.

16 **Q. Please discuss Section I A.1 – Lost Revenue.**

17 A. Section I A.1, together with Section I A.2, presents a reasonable compromise
18 of the treatment of lost revenues arising from the DSM Plan measures and
19 thereby addresses one of the main issues raised by witnesses for OUCC, IG,
20 and Citizens Action Coalition (CAC). Specifically, in Section I A.1, the Settling
21 Parties propose a cap on lost revenue recovery through the DSM Rider for

1 measures installed during the plan years (2017, 2018, and 2019). I&M
2 originally proposed that lost revenue recovery be based on the full life of each
3 measure. But under the compromise reflected in Section I A.1, a three-year
4 cap is proposed, meaning that lost revenue recovery through the DSM Rider
5 will be limited to the earlier of (a) three years, (b) the life of the measure, or (c)
6 until new rates are implemented pursuant to a final order in I&M's next base
7 rate case as set forth in Section I A.2, which I discuss below.

8 This three-year cap, applicable to the recovery of lost revenues for measures
9 installed as part of the DSM Plan is a significant change from I&M's litigation
10 position, which calculated lost revenues for 2017-2019 measures based on
11 measure life but did not include any other cap (except for continuing the four
12 year cap for 2016 plan measures established by the Commission's Order in
13 Cause No. 43827 DSM 5). I would note that the three year cap aligns with the
14 position advocated by non-settling party CAC testimony which reflects a
15 preference for a three year limitation. See CAC Witness Kelly Direct
16 Testimony, at 44.

17 **Q. Have you developed an example of how the provisions of Section I A.1 –**
18 **Lost Revenue would work?**

19 A. Yes. Attachment JCW-1S provides a comparison of energy savings and the
20 amount of lost revenue under a four year measure life cap and a three year
21 measure life cap against what the same values would be without any cap

1 imposed only for proxy measures installed during 2017, 2018, and 2019 and
2 without the impacts from any legacy lost revenue for measures installed in
3 prior years. In this way, Attachment JCW-1S provides an example of the
4 likely impact of Section I A.1 of the Settlement.

5 **Q. What does Attachment JCW-1S reveal about the potential impact of**
6 **Section I A.1 of the Settlement?**

7 A. Attachment JCW-1S estimates the likely impact of Section I A.1 by using
8 actual lost revenue data from 2015 measures as a reasonable proxy for
9 estimating net lost revenues for measures installed in plan years 2017-2019.
10 This example depicts that, over the time period of 2020 through 2023, lost
11 revenue under the three year cap proposed in the Settlement Agreement is
12 approximately \$29.6 million less than it would have been under the
13 life-of-measure approach originally proposed by I&M, and \$13.8 million less
14 than it would have been if a four-year cap were applied.

15 **Q. Please elaborate on why Attachment JCW-1S represents actual results**
16 **as compared to a forecast of DSM Plan measures installed during 2017**
17 **through 2019.**

18 A. There are three reasons why I&M developed Attachment JCW-1S using 2015
19 actual results instead of forecast DSM plan measures.

20 First, I&M developed the DSM Plan, in part, with an eye toward prior year
21 program performance to inform program design and measure distribution

1 across the programs. I&M has relied upon this process in past DSM plan
2 filings as well. This process is reasonable because it provides a foundation
3 upon which to predict program performance and actual measure uptake by
4 customers. As such, DSM Plan forecast measures reflect prior year
5 performance and therefore the DSM Plan is consistent with prior year actual
6 results in this fashion.

7 Second, consistent with past practice the DSM Plan used a half year
8 convention to estimate forecast energy savings and lost revenue for
9 measures installed during a plan year. Column (3) in the case in chief
10 Attachments JCW-9, JCW-10, and JCW-11 depict this half year convention.
11 While the half year convention has been used in the past, for the purposes of
12 JCW-1S, this convention lacks the granularity needed to compare energy
13 savings and the amount of lost revenue under a four-year and three-year cap
14 versus the same values without a cap. Because of how the half-year
15 convention works, I&M would have had to create a forecast of measure
16 installation for each month and year of the DSM Plan to assess the various
17 cap scenarios. For purposes of illustrating the comparative reduction in the
18 context of settlement, rather than create such a forecast, use of prior year
19 actual results is reasonably representative of how measures get installed
20 during an entire program year. To facilitate an understanding of the
21 Settlement Agreement, I&M used 2015 actual results to more conservatively
22 reflect the impact of cap scenarios for lost revenue.

1 The third reason follows from the first and second reasons described above.
2 I&M's DSM program experience reflects an influx of actual measure
3 installations at the end of each program year. Such actual activity reduces
4 half year convention accuracy for purposes of the lost revenue comparison
5 shown in Attachment JCW-1S because measures installed in December
6 (annual savings multiplier of 0.042) get significantly less annualized savings
7 weight than measures installed in June (annual savings multiplier of 0.542).
8 Since I&M's lost revenue measure life tracking process begins with the month
9 of installation, use of prior year actual results to predict future performance is
10 a more appropriate analysis of lost revenue impact from measure life cap
11 scenarios to illustrate the impact of the terms of the Settlement Agreement.

12 For the reasons described above, use of 2015 program year actual results as
13 a proxy for the DSM Plan lost revenues to illustrate savings under the
14 Settlement Agreement yields a more straightforward analysis of different cap
15 scenarios for lost revenue impacts in 2020-2023 than simply estimating what
16 those impacts might be using a plan forecast.

17 **Q. Please discuss Section I A.2 – Lost Revenue.**

18 A. Section I A.2 clarifies how I&M will treat lost revenues in its next base rate
19 case. Specifically, Section I A.2 provides that all energy savings from "legacy"
20 measures installed prior to the base case test year will be reflected in test year
21 energy sales. As a result, once new base rates are implemented, net lost

1 revenue recovery from these legacy measures will be eliminated from I&M's
2 DSM Rider. As for DSM measures installed during the test year, Section I A.2
3 provides that fifty percent of the energy savings from these measures will be
4 reflected in test year energy sales, and when new base rates are
5 implemented, net lost revenue recovery from this fifty percent will be
6 eliminated from the DSM Rider.

7 **Q. Can you provide an example of how the provisions of Section I A2 –**
8 **Lost Revenue would work in the context of a rate case?**

9 A. Yes. For example, assuming a base rate case with a calendar year 2018 as
10 the forward looking test year, the impact of all measures installed prior to
11 January 1, 2018 would be reflected in test year energy sales. Further, on
12 average 50% of all measures installed during 2018 would be reflected in test
13 year energy sales. Once the new base rates from that case are implemented
14 (e.g. July 1, 2018), there will be no Lost Revenue to recover through the DSM
15 Rider for the remainder of 2018. Lost Revenue from the other 50% of the
16 measures installed in 2018 then would be reflected in the DSM Rider
17 beginning in 2019 (and subject to the three year cap and other provisions of
18 Section I A.1). In addition, the DSM Rider will then reflect Lost Revenues
19 from measures installed in 2019. It is again important to note under the
20 Settlement Agreement that any measures installed and not addressed in the
21 base rate case remain subject to three year cap and other provisions of
22 Section I A.1.

1 **Q. Will Sections I A.1 or I A.2 of the Settlement require I&M to change the**
2 **proposed DSM Plan revenue requirement?**

3 A. No, the DSM Plan revenue requirement forecast will not require changes to
4 reflect these terms. For Section I A.1, the first year that the net lost revenue
5 cap will apply is 2020 (i.e., three years after measures are 2017 measures are
6 installed). The proposed revenue requirement forecast in this proceeding
7 goes through 2019; therefore, the cap will be reflected in the forecast revenue
8 requirement for I&M's next DSM plan.
9 For Section I A.2, any change to net lost revenue recovery resulting from a
10 base rate case would be reflected in (a) new DSM Rider rates proposed in the
11 base rate case and (b) the annual DSM Rider true-up filing following the
12 implementation of new base rates.

13 **Q. Please discuss Section I B.1 – Performance Incentives.**

14 A. Section I B.1, together with Section I B.2, presents a reasonable compromise
15 regarding the performance incentives and thereby addresses concerns raised
16 by witnesses for OUCC, IG, and CAC. Specifically, under Section I B.1, for all
17 three years of the plan (2017, 2018, and 2019), there will be a two-step
18 process for calculating the Company's performance incentives. Under "step
19 one," each individual sector's performance incentives for a given year will be
20 calculated under the methodology proposed by the Company. That is, each
21 individual sector's performance incentives will be calculated as the lower of
22 (a) 15% of 90% of that individual sector's net benefits or (b) 15% of sector

1 program costs. Then, as a “step two,” Section I B.1 establishes a process that
2 will consider the extent to which the Company met its annual energy savings
3 goal for each sector. If I&M fails to achieve at least 85% of either sector
4 energy savings goal in any program year, the amount of that sector’s
5 performance incentives calculated in “step one” will be reduced by 15%. At
6 the same time, if I&M achieves 105% or more of either sector energy savings
7 goal for a program year, that sector’s performance incentives calculated in
8 “step one” will be increased by 10%. This two-step process is shown in
9 Attachments JCW-12S, JCW-13S, and JCW-14S.

10 **Q. Does Section I B.1 represent a reasonable compromise on performance**
11 **incentives?**

12 A. Yes. As an initial matter, by using the Company’s proposed performance
13 incentive methodology in “step one,” Section I B.1 relies on a
14 Commission-approved basis for calculating performance incentives. That
15 Commission-approved methodology provides incentives for the Company to
16 administer programs cost-effectively by basing performance incentives on net
17 benefits, but it also contains critical customer protections, particularly the 15%
18 program cost cap. Section I B.1 then builds on the existing
19 Commission-approved methodology by reflecting an extra layer of incentive in
20 “step two” that is based on the Company’s energy savings goals. Thus the
21 Settlement Agreement reasonably addresses the concern that the financial
22 incentive should be based on the Company achieving the overall goal. This

1 concern is addressed within the existing financial mechanism and in a manner
2 that continues to incent the Company to run its programs in a
3 customer-focused and cost-effective manner.

4 **Q. Does Section I B.1 – Performance Incentives require a change in the**
5 **proposed DSM Plan revenue requirement?**

6 A. No, the DSM Plan contemplated Shared Savings performance at 100% of the
7 energy savings performance targets for each sector. Further, since the
8 Shared Savings forecast earnings in the DSM Plan will be reconciled against
9 final actual annual performance, an adjustment to the Shared Savings
10 component revenue requirement is not necessary at this time.

11 **Q. Please discuss Section I B.2 – Performance Incentives.**

12 A. Section I B.2 sets forth three adjustments to the calculation of I&M's Shared
13 Savings that are necessary for the Company to agree to Section I B.1:

14 a) As proposed in the Company's application, the Public Efficient
15 Streetlighting (PES) Program was included in the Company's projected
16 energy savings targets, but I&M did not request authority to earn
17 Shared Savings on this program, and therefore it was not included in
18 the net benefit calculation for 2017-2019. Under Section I B.2.a of the
19 Settlement, the PES Program will be removed from the applicable
20 sector energy savings goals used in the calculation established in
21 Section I B.1., and the PES Program will remain excluded from the net

1 benefit calculation as proposed by I&M.

2 b) As proposed in the Company's application, the Home Energy
3 Management (HEM) Program was included in the Company's
4 projected energy savings targets, and because the Company
5 requested authority to earn Shared Savings on HEM, it was also
6 included in the net benefit calculation. Section I B.2.b modifies this
7 proposed treatment of HEM so that, for purposes of the performance
8 incentive calculation in Section I B.1, the HEM Program will be
9 removed from the energy savings goals and net benefits calculation in
10 2017 only. Consistent with the Company's original proposal, for 2018
11 and 2019, the HEM Program will be included in the applicable sector
12 energy savings goals and Shared Savings net benefit and program
13 cost cap calculations.

14 c) As proposed in the Company's application, the Work Energy
15 Management (WEM) Program was included in the Company's
16 projected energy savings goals, but I&M did not request authority to
17 earn Shared Savings on this program, and therefore it was not
18 included in the net benefit calculation for 2017-2019. Section I B.2.c
19 modifies this proposed treatment so that for purposes of the
20 performance incentive calculation in Section I B.1, the WEM Program
21 will be removed from the energy savings goals in 2017 only.

1 Consistent with the Company's original proposal, the WEM Program
2 will be included in the applicable sector energy savings goals for 2018
3 and 2019, but will not be included in the net benefit calculation.

4 From the Company's perspective, these adjustments are necessary to reflect
5 the impact of other aspects of the negotiated Settlement package. The
6 adjustment to the PES Program in Section I B.2.a is necessary to reflect the
7 modifications to the PES Program agreed to in Section I C, which I discuss
8 below. Because Section I C reduces the LED streetlighting incentive level, it
9 is likely that participation in the PES Program will be lower than the Company
10 projected when it set its energy savings targets. Therefore, it is appropriate to
11 remove the PES Program from the energy savings target when calculating
12 "step two" of the performance incentive structure proposed in Section I B.1
13 above.

14 The adjustments to the HEM and WEM Programs are necessary to reflect the
15 fact that these are new programs that will just be getting off the ground in
16 2017. As proposed in I&M's case-in-chief, the Company's performance
17 incentive calculation did not involve the "step two" calculation proposed in
18 Section I B.1. With the inclusion of Section I B.1, it is reasonable to remove
19 these programs from the Section I B.1 calculation because new programs
20 often involve higher costs and lower participation as the programs are ramped
21 up and the Company attempts to gain new customers. Accordingly, the HEM

1 and WEM Programs are excluded from the Section I B.1 energy savings
2 target and net benefits calculation for 2017 only, giving the Company one plan
3 year to get those programs off the ground before they are included in the
4 Section I B.1 calculation.

5 **Q. Have you reflected the impact of Sections I B.1 and I B.2 in revised**
6 **attachments?**

7 A. Yes, Attachments JCW-12S, JCW-13S, and JCW-14S reflect the terms of
8 both Sections I B.1 and I B.2. The changes stemming from Section I B.2 only
9 require changes to the DSM Plan 2017 revenue requirement, and these
10 changes are reflected in red typeface on Attachments JCW-12S and
11 JCW-15S. As shown on Attachment JCW-15S, the revenue requirement for
12 2017 Shared Savings is now \$998,930 as compared to the revenue
13 requirement proposed in the Company's application of \$1,464,499 (*i.e.*, a
14 reduction of \$465,569, or approximately 32%, from I&M's original proposal).

15 **Q. Please discuss Section I C – LED Street Lights.**

16 A. Section I C of the Settlement addresses specific concerns raised by the
17 OUCC and IG regarding the rebate level included in the PES Program. More
18 specifically, the proposed rebate levels will be reduced from 100% to 80% of
19 the total LED fixture incremental measure costs. Section I C provides that
20 customers participating in the PES Program will be required to make an
21 up-front ten percent contribution to their respective LED fixture incremental

1 measure costs. Section I C also requires the other ten percent of the LED
2 fixture incremental measure costs to be reflected in updated LED tariff rates.
3 Both of these terms require changes in the DSM Plan as contained in the
4 Company's application and serve to reduce the cost shared by
5 non-participating customers.

6 **Q. Does Section I C – LED Streetlighting require any changes to I&M's**
7 **filing?**

8 A. Yes, it requires three changes. First, the ten percent up-front contribution and
9 the ten percent inclusion in LED tariff rates require a change to the design of
10 the PES Program, where the level of LED fixture incremental measure cost is
11 decreased from one hundred percent to eighty percent. This change reduces
12 the program operating cost for all three years of the plan, which
13 correspondingly reduces the revenue requirement in all three years. These
14 program operating cost changes are reflected in red font in Attachments
15 JCW-2S, JCW-4S, JCW-5S, and JCW-15S. I&M also updated the PES
16 Program work paper to reflect the change in program operating cost to eighty
17 percent of the LED fixture incremental measure cost as compared to the one
18 hundred percent level contained in the work paper program design in the
19 Company's case-in-chief. Lowering the incentive from 100% to 80% of the
20 incremental measure cost reduced the PES Program incentive cost by
21 \$1,067,444 (*i.e.*, from \$5,337,221 to \$4,269,777) and correspondingly
22 decreased the total three year revenue requirement as shown in Attachment

1 JCW-15S by the same amount.

2 Second, the inclusion of ten percent of LED fixture incremental cost in the
3 LED tariff rate requires a change to the ECLS and SLS tariffs contained in the
4 Company's application. Tariff ECLS and SLS LED streetlight fixture rates will
5 increase due to this change.

6 Third, lowering the incentive cost from 100% to 80% causes the benefit cost
7 score for the PES program to improve. Attachment JCW-6S reflects this
8 change in cost and as a result the PES program score under the TRC cost
9 test and UCT cost test increased to 2.67 each. The RIM test score also
10 improved to 0.56. These three test score increases reflect the \$1,067,444
11 reduction in cost of the PES Program. Because the PES Program is part of
12 the EE Portfolio and overall DSM Plan Portfolio, the EE portfolio and overall
13 DSM Plan Portfolio scores for the TRC, UCT and RIM tests also improved, as
14 shown on Attachment JCW-6S, with the overall DSM Plan Portfolio UCT
15 score improving from 2.68 to 2.71 and the TRC score improving from 2.18 to
16 2.21. This improved cost benefit analysis further supports the
17 reasonableness of the Settlement Agreement and the DSM Plan.

18 **Q. Have you prepared revised tariff sheets to reflect Section 1 C of the**
19 **Settlement Agreement?**

20 A. Yes, as shown in Attachment JCW-37S, the change to the LED tariff rates
21 increases the rates by \$0.21 and \$0.32 per month depending on the size of

1 the LED fixture. The calculation for these monthly incremental rates is shown
2 in work paper WP-JCW-S1. Attachment JCW-37S also contains language
3 stipulating the requirement of the ten percent up-front contribution by
4 participating customers. I have also updated the PES Program description as
5 shown in Attachment JCW-27S.

6 **Q. Please discuss the revised Oversight Board (OSB) voting procedures**
7 **set forth in Section I D – OSB Voting Provisions.**

8 A. The terms in Section I D regarding OSB voting provisions reasonably address
9 concerns raised by the OUCC and the CAC in their direct testimony in this
10 Cause. While the terms increase the likelihood of the need for an OSB vote
11 during implementation of the programs contained within I&M's DSM Plan,
12 they are not intended to impose undue or additional administrative burden to
13 carry out the provisions. Two of the provisions reduce the applicable amount
14 of transfer authority I&M has before an OSB vote is required, by ten percent in
15 Section I D.2 (i.e., 25% down to 15%), and by five percent in Section I D.3
16 (i.e., 10% down to 5%). These changes reasonably address the concerns
17 raised and should help facilitate improved interaction among the OSB voting
18 members.

19 The final change in Section I D.3 stems from I&M's request in its case-in-chief
20 to allow unencumbered funds from one program year to be used in the next
21 program year as required by program implementation (i.e., "carry over") in

1 pursuit of the energy savings targets contained within the DSM Plan. Section
2 I D.(4 requires that any carry over funds be used in a subsequent program
3 year before the Company transfers any current year funds to other programs
4 or seeks to exceed the sector budget.

5 **Q. Please discuss Section I E – Over-Under Recovery for Opt-Out**
6 **Customers.**

7 A. Section I E specifically responds to concerns raised by IG witness Gorman
8 concerning the continued recovery of over/under reconciliation balances from
9 opt-out customers. In Section I E, the Settling Parties recognize this issue
10 and agree to work together to develop a mechanism to end the ongoing
11 variance collection for opt-out customers in a timely manner..

12 **Q. Please discuss Section I F – Rebuttal Testimony Issue.**

13 A. Section I F reflects a compromise by the Company in which it will voluntarily
14 withdraw the portions of rebuttal testimony at issue in the Consumer Parties'
15 Joint Motion to Strike filed on December 22, 2016 in this proceeding. In so
16 agreeing, the Company is not conceding the merits of the Motion to Strike but
17 is merely agreeing to withdraw the testimony as part of the overall
18 compromise reflected in the Settlement Agreement.

19 **Q. Please discuss Section I G – City of Fort Wayne Concerns.**

20 A. Section I G addresses the issues raised by City witness Fasick concerning
21 potential opportunities for energy saving partnerships between the City and

1 I&M. In Section I G, I&M agrees to conduct a technical study of such
2 opportunities with the City. To the extent potential projects identified do not fit
3 within the Company's three-year DSM Plan, the Settlement Agreement sets
4 forth for a process for a discussion with the OSB and potential filing with the
5 Commission to amend the DSM Plan to accommodate the projects. The
6 Company and City agree to explain any such plan amendment to interested
7 members of the Settling Parties or OSB before filing. The Settlement
8 Agreement also preserves the rights of the other Settling Parties to contest
9 any such amendments.

10 **Q. Please discuss the clarification to Rider W.E.M. you are sponsoring.**

11 A. In my pre-filed direct testimony, I attached a proposed Rider W.E.M. to
12 implement the new WEM Program being proposed as part of the 2017-2019
13 DSM Plan. As I&M has developed plans to administer the new WEM
14 Program, it has identified a clarification that needs to be made to that
15 proposed Rider W.E.M., and this clarification is reflected on Attachment
16 JCW-36S to this testimony. Specifically, the revision clarifies that customers
17 participating in the Company's existing emergency demand response
18 program, Rider D.R.S.1, may switch to the WEM Program and service under
19 Rider W.E.M on May 31 of each year, once their registration under Rider
20 D.R.S.1 expires. As originally proposed, customers would only be able to
21 participate in either Rider D.R.S.1 or Rider W.E.M., not both; this clarification
22 allows customer to choose the best program for them. I&M believes this is a

1 customer-focused clarification that will allow customers greater flexibility in
2 choosing between energy curtailment programs. The clarification shown on
3 Attachment JCW-36S has been shared with the Settlement Parties, and no
4 Settling Party has objected to it.

5 **Q. Please discuss Attachment JCW-15S.**

6 A. Attachment JCW-15S provides the revised three-year revenue requirement
7 (including legacy lost revenues) under the Settlement Agreement of
8 \$170,183,692 (which reflects a decrease of \$1,533,013 compared to the
9 Company's case-in-chief of \$171,716,705) before the Gross Revenue
10 Conversion Factor is applied. This decrease is detailed above and was
11 provided to I&M Witness Smith, who used it to prepare revised DSM Rider
12 factors.

13 **Q. Does the Settlement Agreement change the EE and demand savings**
14 **goals for the DSM Plan?**

15 A. No. As shown on Attachment JCW-2S, the proposed plan is still designed to
16 achieve gross energy savings of 456,407,441 kWh and gross demand
17 savings of 133,003 kW over the three year period. While participation levels
18 in the PES Program may be lower as a result of the Settlement Agreement,
19 the DSM Plan goals remain reasonably achievable for the reasons set forth in
20 my direct testimony. As I also explained in my direct testimony (at 16-17),
21 these projections indicate how customer consumption is expected to change

1 in 2017-2019 as a result of the Company's implementation of the DSM Plan.

2 **Q. Does the DSM Plan as modified by the Settlement Agreement remain**
3 **consistent with the state energy analysis and the Company's most**
4 **recent long range integrated resource plan (IRP) submitted to the**
5 **Commission?**

6 A. Yes. As noted above, there is no change in the EE and demand savings
7 goals for the DSM Plan, and it remains consistent with the state energy
8 analysis and I&M's most recent IRP for the reasons set forth in my direct
9 testimony (at 60-65 and 69-71).

10 **Q. Does the Settlement Agreement modify the procedures for evaluation,**
11 **measurement and verification (EM&V) set forth in the Company's**
12 **case-in-chief?**

13 A. No. I&M remains committed to an independent, outside EM&V review as
14 discussed in my direct testimony (at 73-75).

15 **Q. Does the Settlement Agreement result in any undue or unreasonable**
16 **preference to any customer class?**

17 A. No. I&M is not aware of any undue or unreasonable preference contained
18 within the overall design of the DSM Plan as modified by the Settlement
19 Agreement.

1 **Q. What impact does the Settlement Agreement have on the effect, or**
2 **potential effect, in both the long term and the short term, of the DSM**
3 **Plan on the electric rates and bill of customers that participate in EE**
4 **programs compared to the electric rates and bills of customers that do**
5 **not participate in EE programs?**

6 A. In my direct testimony (at 77-78), I explained this type of effect is directionally
7 measured by the RIM test. As I noted above, the Settlement Agreement
8 improves the cost benefit analysis of the DSM Plan. I&M witness Smith
9 calculates the revised DSM Plan bill impact on the typical residential customer
10 using 1,000 kWh per month and I&M's major tariff classes. She explains that
11 the DSM Plan cost component factors have decreased due to the Settlement
12 Agreement.

13 **Q. What other provisions does the Settlement Agreement contain?**

14 A. The Settlement Agreement provides that it is reflective of a negotiated
15 settlement and that neither the making of the Settlement Agreement nor any
16 of its provisions shall constitute an admission by any Party to the Settlement
17 Agreement in this or any other litigation or proceeding. The Settlement
18 Agreement is a compromise and settlement and will be null and void unless
19 approved in its entirety without modification or further condition that is
20 unacceptable to any Settling Party. The Settlement Agreement also includes
21 provisions considering the substantial evidence in the record supporting
22 approval of the Settlement Agreement.

1 **Q. In your opinion, is Commission approval of the Settlement Agreement**
2 **in the public interest?**

3 A. Yes. After good faith efforts and the give and take of settlement negotiations,
4 I&M, the OUCC, IG and the City were able to settle on a reasonable resolution
5 that would reduce the time and resources of the Commission in litigating the
6 contested issues to a conclusion. Settling disputed issues is a reasonable
7 means of resolving controversy. The Settlement Agreement incorporates
8 several substantial concessions by the Company and by the Settling Parties
9 and reflects a reasonable compromise of all the issues raised in this
10 proceeding, including lost revenue, performance incentives, LED
11 streetlighting, and OSB oversight. The Settlement Agreement will allow I&M
12 to offer many beneficial, cost effective energy efficiency and demand
13 response programs to customers, but it also mitigates the impact on customer
14 rates for electric service. Moreover, as noted above, while not all parties to
15 this proceeding have joined the Settlement Agreement, the Settlement
16 Agreement resolution is supported by substantial evidence, including the
17 Company's rebuttal to the CAC and is a reasonable resolution of this Cause. I
18 recommend the Commission conclude that the Settlement Agreement is in
19 the public interest and approve it without modification.

20 **Q. Does this conclude your pre-filed verified settlement direct testimony?**

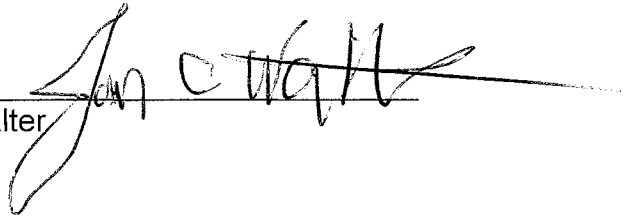
21 A. Yes.

VERIFICATION

I, Jon C. Walter, Manager of Regulatory Support for Indiana Michigan Power Company, affirm under penalties of perjury that the foregoing representations are true and correct to the best of my knowledge, information and belief.

Dated: January 25, 2017.

Jon C. Walter

A handwritten signature in black ink, appearing to read "Jon C. Walter", is written over a horizontal line. The signature is stylized with a large, looped initial "J" and a long, sweeping horizontal stroke at the end.

**Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
Settlement Term A1 Net Lost Revenue Measure Life Cap Scenario Impact Illustration***

Attachment JCW-1S
Cause No. 44841

		No Legacy Measure Impacts					New Measures Installed			Future Impact of 2017-2019 Measures Only			
		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
No Cap**	Res kWh	0	0	0	0	0	22,811,875	57,225,324	74,584,133	69,131,067	52,076,427	48,620,816	40,105,019
	C&I kWh	0	0	0	0	0	10,941,329	73,796,633	133,635,787	182,464,552	179,291,505	179,134,608	179,046,771
	Total kWh	0	0	0	0	0	33,753,204	131,021,957	208,219,920	251,595,619	231,367,932	227,755,424	219,151,790
	Res. \$	\$0	\$0	0	0	\$0	\$1,545,733	\$3,877,588	\$5,053,821	\$4,684,321	\$3,528,699	\$3,294,546	\$2,717,516
	C&I \$	\$0	\$0	0	0	\$0	\$626,719	\$4,227,071	\$7,654,658	\$10,451,570	\$10,269,817	\$10,260,830	\$10,255,799
	Total \$	\$0	\$0	0	0	\$0	\$2,172,452	\$8,104,659	\$12,708,479	\$15,135,891	\$13,798,516	\$13,555,377	\$12,973,315
		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
4 Year Cap***	Res kWh	0	0	0	0	0	22,811,875	57,225,324	74,584,133	69,131,067	44,719,226	27,360,417	10,001,608
	C&I kWh	0	0	0	0	0	10,941,329	73,796,633	133,635,787	182,464,552	169,947,033	110,107,879	50,337,785
	Total kWh	0	0	0	0	0	33,753,204	131,021,957	208,219,920	251,595,619	214,666,259	137,468,296	60,339,393
	Res. \$	\$0	\$0	\$0	\$0	\$0	\$1,545,733	\$3,877,588	\$5,053,821	\$4,684,321	\$3,030,175	\$1,853,942	\$677,709
	C&I \$	\$0	\$0	\$0	\$0	\$0	\$626,719	\$4,227,071	\$7,654,658	\$10,451,570	\$9,734,566	\$6,306,979	\$2,883,348
	Total \$	\$0	\$0	\$0	\$0	\$0	\$2,172,452	\$8,104,659	\$12,708,479	\$15,135,891	\$12,764,741	\$8,160,921	\$3,561,057
		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
3 Year Cap****	Res. kWh	0	0	0	0	0	22,811,875	57,225,324	74,584,133	61,773,866	27,360,417	10,001,608	0
	C&I kWh	0	0	0	0	0	10,941,329	73,796,633	133,635,787	173,120,080	110,264,776	50,425,622	0
	Total kWh	0	0	0	0	0	33,753,204	131,021,957	208,219,920	234,893,946	137,625,193	60,427,230	0
	Res. \$	\$0	\$0	\$0	\$0	\$0	\$1,545,733	\$3,877,588	\$5,053,821	\$4,185,797	\$1,853,942	\$677,709	\$0
	C&I \$	\$0	\$0	\$0	\$0	\$0	\$626,719	\$4,227,071	\$7,654,658	\$9,916,318	\$6,315,966	\$2,888,380	\$0
	Total \$	\$0	\$0	\$0	\$0	\$0	\$2,172,452	\$8,104,659	\$12,708,479	\$14,102,115	\$8,169,908	\$3,566,089	\$0

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total Impact (2020-2023)
4 Yr Cap to No Cap \$ Difference	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,033,775)	(\$5,394,456)	(\$9,412,258)	(\$15,840,489)
3 Yr Cap to No Cap \$ Difference	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,033,775)	(\$5,628,608)	(\$9,989,288)	(\$12,973,315)	(\$29,624,987)
3 Yr Cap to 4 Yr Cap \$ Difference	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,033,775)	(\$4,594,833)	(\$4,594,833)	(\$3,561,057)	(\$13,784,498)

*The energy savings and lost revenue amounts presented are based upon I&M 2015 actual verified savings and measures installed according to each measure's respective effective useful life and month of installation for that program year. 2015 results were used as a proxy for 2017-2019 measure installations because 2015 are the most recent actual verified results and as such provide a reasonable representative of the energy savings and lost revenue based on measure life tracking but subject to the cap scenarios analyzed for the years in question.

**The no cap scenario represents I&M's original request in this Cause for full life of measure tracking but are proxy values subject to the footnote directly above.

***The 4 Year Cap scenario represents the cap ordered by the Commission in Cause No. 43827 DSM 5, I&M's 2016 DSM Plan, but are proxy values subject to the first footnote above.

****The 3 Year Cap scenario represents I&M's settlement concession scenario agreed upon by the Settling Parties, but are proxy values subject to the first footnote above.

**Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
DSM Plan Program Summary**

Attachment JCW-2S
Cause No. 44841

	DSM Plan Direct Program*	Program Description	2017 Program Operating Budget (\$)	2017 Energy Savings (kWh)	2017 Demand Savings (kW)	2018 Program Operating Budget (\$)	2018 Energy Savings (kWh)	2018 Demand Savings (kW)	2019 Program Operating Budget (\$)	2019 Energy Savings (kWh)	2019 Demand Savings (kW)	Average Annual Cost of Conserved Energy (\$/kwh)	Lifetime Cost of Conserved Energy (\$/kwh)	3 Yr. Net Savings (kWh)	3 Yr. Program Operating Budget (\$)	3 Yr. Gross Energy Savings (kWh)	3 Yr. Gross Demand Savings (kW)
EE Programs	Home Energy Products	Rebates for efficient residential lighting & other electro-technologies	1,863,726	13,132,892	1,965	1,635,506	10,796,000	1,628	1,383,572	8,901,438	1,354	0.15	0.01	19,371,252	4,882,804	32,830,330	4,947
	Income Qualified Weatherproofing	Low income home weatherization & efficiency	571,039	724,847	72	571,039	734,847	72	571,039	744,847	72	0.78	0.06	2,204,541	1,713,117	2,204,541	217
	Schools Energy Education	Energy education for elementary age children with take home kits	662,354	3,179,000	880	662,354	3,179,000	880	662,354	3,179,000	880	0.21	0.02	6,580,530	1,987,082	9,537,000	2,640
	Home Appliance Recycling	Rebates for pick up, and recycling of refrigerators and freezers	594,990	3,348,400	400	594,990	3,348,400	400	594,990	3,348,400	400	0.18	0.02	5,424,408	1,784,969	10,045,200	1,199
	Home New Construction	Rebates for efficient new home construction	470,227	808,221	208	497,933	851,741	234	497,933	851,741	234	0.58	0.02	1,934,011	1,466,093	2,511,702	677
	Home Weatherproofing	Walk through audit with rebates for home weatherization & efficiency	518,143	1,129,074	103	518,143	1,129,074	103	518,143	1,129,074	103	0.46	0.03	2,811,393	1,554,429	3,387,221	309
	Home Energy Engagement	Home consumption comparison reports; online audit tool	2,175,592	40,900,405	4,514	2,240,418	41,190,745	4,562	2,382,110	41,629,375	4,619	0.05	0.05	121,657,120	6,798,120	123,720,525	13,695
	Work Prescriptive Rebates	Rebates for efficient lighting, efficient motors, etc.	3,429,980	29,042,325	5,785	2,792,166	22,877,500	4,573	2,052,416	16,665,000	3,373	0.12	0.01	61,040,494	8,274,562	68,584,825	13,712
	Work Custom Rebates	Rebates for custom C&I efficiency improvements	3,852,933	38,418,023	7,252	3,223,543	29,458,023	5,817	3,066,780	27,648,023	5,489	0.11	0.01	88,837,383	10,143,256	95,524,068	18,559
	Work Direct Install	Online & Walk through audits plus direct install cost effective measures for small business	437,543	1,999,500	267	416,469	1,799,550	241	395,435	1,599,600	214	0.23	0.02	5,344,663	1,249,467	5,398,650	722
	Public Efficient Streetlighting	Upgrade existing inefficient streetlighting with LED streetlighting	1,516,840	5,521,984	0	1,516,840	5,521,984	0	1,516,840	5,521,984	0	0.27	0.01	16,565,892	4,550,520	16,565,892	0
	EE Programs Total		16,093,367	138,204,650	21,428	14,669,421	120,886,843	18,509	13,641,611	111,218,461	16,739	0.12	0.01	331,771,688	44,404,399	370,309,954	56,675
DSM Programs	Home Energy Management	Active residential load management	2,495,536	2,389,500	5,974	2,016,096	4,400,500	11,001	1,720,377	6,411,500	16,029	0.47	0.03	7,788,885	6,232,009	13,201,500	33,004
	Work Energy Management	Active C&I load management	752,632	1,968,753	3,333	1,571,647	5,911,740	10,000	1,744,388	5,911,740	10,000	0.29	0.058	13,792,233	4,068,667	13,792,233	23,333
	Electric Energy Consumption Optimization (EECO)	Utility distribution voltage control program to optimize & reduce end use consumption	1,172,060	14,889,034	4,631	1,678,290	19,272,356	6,634	2,285,574	24,942,364	8,725	0.09	0.009	59,103,753	5,135,924	59,103,753	19,991
	DSM Programs Total		4,420,228	19,247,287	13,938	5,266,032	29,584,596	27,635	5,750,339	37,265,604	34,754	0.18	0.01	66,892,638	15,436,599	86,097,486	76,328
	Portfolio Totals		20,513,595	157,451,938	35,366	19,935,453	150,471,438	46,145	19,391,951	148,484,064	51,493	0.13	0.01	398,664,326	59,840,999	456,407,441	133,003

Portfolio Level Operating Costs (Indirect Operating Costs)

DSM Database & IT Support	\$200,000	\$200,000	\$200,000
Staff Development & Memberships	\$45,000	\$45,000	\$45,000
Portfolio Marketing & Customer Awareness	\$100,000	\$100,000	\$100,000
Planning & Analytic Support	\$125,000	\$125,000	\$125,000
Program Development	\$50,000	\$50,000	\$50,000
Administrative Support	\$325,000	\$325,000	\$325,000
Customer Engagement Platforms (IM HOME, IM WORK)	\$250,000	\$400,000	\$500,000
Customer Energy Information & Messaging	\$150,000	\$150,000	\$150,000
Total Portfolio Level Operating Costs	\$1,245,000	\$1,395,000	\$1,495,000
Total I&M Indiana DSM Plan Portfolio Operating Budget	\$21,758,595	\$21,330,453	\$20,886,951
Count of Direct Programs	14	14	14
DSM Plan Energy Savings as % I&M IN Utility kWh Sales	0.92%	0.88%	0.87%
DSM Plan Operating Cost as % of I&M IN Utility Revenues**	1.75%	1.71%	1.68%
DSM Plan Program Operating Cost	\$21,758,595	\$21,330,453	\$20,886,951
DSM Plan Energy Savings (kWh)	157,451,938	150,471,438	148,484,064
DSM Plan Operating Cost (cents/kwh saved)	\$0.14	\$0.14	\$0.14

Non-Behavior Measure NTG

80%

All Measures NTG

87%

Residential	12,423,974	12,339,924	12,540,895
C&I	9,334,621	8,990,529	8,337,055
Check Total	0	0	0

* Costs shown in table reflect the Direct costs of the programs and EM&V costs; the indirect costs are summarized below the table and referred to as "Portfolio level" costs.

**I&M Indiana 2015 Forecast

**Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
DSM Plan Program Tables**

Attachment JCW-4S
Cause No. 44841

3 Year DSM Program Forecast Goals & Budgets

EE Programs																																																																										
Work Prescriptive Rebates					Per KWH Rate					Work Direct Install					Per KWH Rate					Work Custom Rebates					Per KWH Rate					Public Efficient Streetlighting					Per KWH Rate																																							
2017					2018					2019					2017					2018					2019					2017					2018					2019																																		
Fixed Program Operating Costs										Fixed Program Operating Costs										Fixed Program Operating Costs										Fixed Program Operating Costs										Fixed Program Operating Costs																																		
Vendor Support					\$653,452					\$514,744					\$374,963					Vendor Support					\$132,000					\$132,000					\$132,000					Vendor Support					\$700,000					\$700,000					\$700,000																			
Implementation & Other Annual Cost					\$40,645					\$40,645					\$40,645					Implementation & Other Annual Cost					\$25,000					\$25,000					\$25,000					Implementation & Other Annual Cost					\$21,083					\$21,083					\$21,083																			
Outreach & Coordination					\$145,842					\$145,842					\$145,842					Outreach & Coordination					\$30,000					\$30,000					\$30,000					Outreach & Coordination					\$184,408					\$184,408					\$184,408																			
EM&V					\$97,547					\$97,547					\$97,547					EM&V					\$40,000					\$40,000					\$40,000					EM&V					\$100,000					\$100,000					\$100,000																			
Rebate Processing					\$34,575					\$19,738					\$17,872					Rebate Processing					\$1,370					\$1,233					\$1,096					Rebate Processing					\$2,099					\$1,478					\$1,330																			
Total Fixed					\$972,061					\$818,516					\$676,889					Total Fixed					\$228,370					\$228,233					\$228,096					Total Fixed					\$1,017,599					\$1,016,969					\$1,016,821																			
Variable Program Operating Costs																				Variable Program Operating Costs																				Variable Program Operating Costs																				Variable Program Operating Costs														
Customer Incentives					\$0.08					\$2,406,485					\$1,933,134					\$1,346,033					Customer Incentives					\$0.101					\$201,175					\$181,057					\$160,940					Customer Incentives					\$0.070					\$2,700,881					\$2,103,471					\$1,953,191				
Delivery & Other					\$0.0018					\$51,434					\$40,516					\$29,514					Delivery & Other					\$0.004					\$7,998					\$7,198					\$6,398					Delivery & Other					\$0.0035					\$134,463					\$103,103					\$96,768				
Total Budget					\$0.12					\$3,429,980					\$2,792,166					\$2,052,416					Total Budget					\$0.22					\$437,543					\$416,489					\$395,435					Total Budget					\$0.10					\$3,852,933					\$3,223,543					\$3,086,780				
Energy Savings (kWh)					29,042,325					22,877,500					18,665,000					Energy Savings (kWh)					1,999,500					1,799,550					1,599,600					Energy Savings (kWh)					38,418,023					29,458,023					27,648,023																			
Demand Savings (kW)					5,766					4,573					3,373					Demand Savings (kW)					267					241					214					Demand Savings (kW)					7,252					5,817					5,489																			
Participation					4,178					2,385					2,160					Participation					116					104					93					Participation					355					250					225																			

Home Weatherproofing													Home New Construction													Home Appliance Recycling													Income Qualified Weatherproofing																																																																													
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Participation (# Audits)													Participation (# of Homes)													Participation (Total Units)													Participation																																																																													

Home Energy Products- Lighting Component													Home Energy Engagement													Schools Energy Education																																																																																										
Per KWH Rate													Per Unit Rate													Per KWH Rate																																																																																										
2017													2018													2019													2017													2018													2019													2017													2018													2019												
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Vendor Fixed Capital Cost													Vendor Fixed													Vendor Fixed																																																																																										
Return Of and On I&M Assets													Marketing													Return Of and On I&M Assets																																																																																										
Program Coordination													Program Coordination													Program Coordination																																																																																										
EM&V													EM&V													EM&V																																																																																										
Total Fixed & Associated Costs													Total Fixed													Total Fixed & Associated Costs																																																																																										
Variable Program Operating Costs													Variable Program Operating Costs													Variable Program Operating Costs																																																																																										
Customer Incentives													Customer Incentives													Customer Incentives																																																																																										
Delivery & Other													Delivery & Other													Delivery & Other																																																																																										
Total Budget													Total Budget													Total Budget																																																																																										
Energy Savings (kWh)													Energy Savings (kWh)													Energy Savings (kWh)																																																																																										
Demand Savings (kW)													Demand Savings (kW)													Demand Savings (kW)																																																																																										
Participants													Participants													Participants																																																																																										

**Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
DSM Plan Goals Versus IRP Summary**

Attachment JCW-5S
Cause No. 44841

	IRP		3 Year Plan EE Programs			3 Year Plan Other DSM Programs			3 Year DSM Plan Total		
	Gross Energy Savings (kWh)	Gross Demand Savings (kW)	Direct Program Cost (\$)	Program Energy Savings (kWh)	Program Demand Savings (kW)	Direct Program Cost (\$)	Program Energy Savings (kWh)	Program Demand Savings (kW)	Direct Program Cost (\$)	Program Energy Savings (kWh)	Program Demand Savings (kW)
2017	148,253,286	23,489	16,093,367	138,204,650	21,428	4,420,228	19,247,287	13,938	20,513,595	157,451,938	35,366
2018	140,464,864	6,330	14,669,421	120,886,843	18,509	5,266,032	29,584,596	27,635	19,935,453	150,471,438	46,145
2019	140,382,396	6,327	13,641,611	111,218,461	16,739	5,750,339	37,265,604	34,754	19,391,951	148,484,064	51,493
Total	429,100,546	36,146	44,404,399	370,309,954	56,675	15,436,599	86,097,486	76,328	59,840,999	456,407,441	133,003

DSM Plan Budget Summary (\$)			
	Direct Operating Cost (\$)	Indirect Operating Cost (\$)	Total Operating Cost (\$)
2017	20,513,595	1,245,000	21,758,595
2018	19,935,453	1,395,000	21,330,453
2019	19,391,951	1,495,000	20,886,951
Total	59,840,999	4,135,000	63,975,999

IRP Versus DSM Plan Summary		
	IRP Savings (% of I&M IN Retail Sales)	DSM Plan Savings (% of I&M IN Retail Sales)
2017	0.87%	0.92%
2018	0.82%	0.88%
2019	0.83%	0.87%
3 Year Average	0.84%	0.89%

**Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
I&M DSM Plan - 3 Year Benefit Cost Analysis**

Attachment JCW-BS
Cause No. 44841

	UCT	TRC	RIM	Participant	UCT Benefits	UCT Costs	UCT Net Benefits	TRC Benefits	TRC Costs	TRC Net Benefits	RIM Benefits	RIM Costs	RIM Net Benefits	Participant Benefits	Participant Costs	Participant Net Benefits
Energy Efficiency (EE)																
Residential																
Home Energy Products	2.44	1.89	0.58	3.99	\$11,967,613	\$4,913,623	\$7,053,990	\$11,967,613	\$6,333,527	\$5,634,086	\$11,967,613	\$20,667,056	(\$8,700,043)	\$22,114,144	\$5,545,505	\$16,568,639
Income Qualified Weatherproofing	0.81	0.81	0.39	N/A	\$1,380,423	\$1,711,381	(\$330,958)	\$1,380,423	\$1,711,381	(\$330,958)	\$1,380,423	\$3,555,097	(\$2,174,674)	\$1,159,263	\$0	\$1,159,263
School Education	2.37	2.37	0.68	N/A	\$4,710,522	\$1,985,186	\$2,725,336	\$4,710,522	\$1,985,186	\$2,725,336	\$4,710,522	\$6,918,330	(\$2,207,808)	\$5,013,530	\$0	\$5,013,530
Home Appliance Recycling	1.31	1.31	0.47	N/A	\$2,335,863	\$1,789,829	\$546,034	\$2,335,863	\$1,789,829	\$546,034	\$2,335,863	\$4,941,886	(\$2,606,023)	\$4,446,418	\$0	\$4,446,418
Home New Construction	1.85	1.21	0.62	1.85	\$2,418,127	\$1,467,462	\$950,666	\$2,418,127	\$1,998,368	\$419,760	\$2,418,127	\$3,900,087	(\$1,481,959)	\$2,320,882	\$1,255,337	\$1,065,545
Home Weatherproofing	1.48	1.25	0.50	2.60	\$2,307,780	\$1,562,272	\$745,508	\$2,307,780	\$1,852,569	\$455,211	\$2,307,780	\$4,619,378	(\$2,311,595)	\$2,731,108	\$1,050,302	\$1,680,806
Home Energy Engagement	3.34	3.34	0.69	N/A	\$22,638,839	\$6,781,188	\$15,857,651	\$22,638,839	\$6,781,188	\$15,857,651	\$22,638,839	\$32,731,739	(\$10,092,900)	\$22,767,640	\$0	\$22,767,640
Residential Portfolio	2.36	2.13	0.62	N/A	\$47,759,168	\$20,215,152	\$27,544,016	\$47,759,168	\$22,456,059	\$25,303,109	\$47,759,168	\$77,334,171	(\$28,576,004)	\$66,552,988	\$7,851,145	\$52,701,842
Commercial & Industrial																
Work Prescriptive Rebates	5.72	2.74	0.83	2.74	\$47,784,071	\$8,359,931	\$39,424,140	\$47,784,071	\$17,421,541	\$30,362,530	\$47,784,071	\$97,721,415	(\$9,937,344)	\$40,491,447	\$14,784,074	\$25,707,373
Work Custom Rebates	4.87	2.97	0.82	3.49	\$50,098,536	\$10,282,779	\$39,815,757	\$50,098,536	\$16,874,948	\$33,223,588	\$50,098,536	\$61,141,227	(\$11,042,691)	\$44,340,248	\$12,707,548	\$31,632,700
Work Direct Install	2.76	1.43	0.70	1.67	\$3,469,235	\$1,247,762	\$2,221,473	\$3,469,235	\$2,419,701	\$1,049,535	\$3,469,235	\$4,850,722	(\$1,481,497)	\$2,978,071	\$1,595,767	\$1,382,304
C&I Portfolio	5.10	2.76	0.82	3.02	\$101,351,842	\$19,890,472	\$81,461,370	\$101,351,842	\$36,716,190	\$64,635,652	\$101,351,842	\$123,813,384	(\$22,461,521)	\$97,899,766	\$29,067,389	\$58,722,377
Public																
Public Efficient Streetlighting	2.67	2.67	0.56	N/A	\$12,164,406	\$4,564,172	\$7,600,234	\$12,164,406	\$4,504,172	\$7,600,234	\$12,164,406	\$21,910,363	(\$9,746,957)	\$9,963,621	\$0	\$9,963,621
EE Portfolio	3.61	2.53	0.72	N/A	\$161,275,416	\$44,669,796	\$116,605,619	\$161,275,416	\$63,736,422	\$97,538,994	\$161,275,416	\$223,958,498	(\$61,783,082)	\$158,326,374	\$36,936,534	\$121,387,840
Demand Side Management (DSM)																
Home Energy Management	3.24	3.69	2.18	3.04	\$23,681,059	\$7,309,818	\$16,371,241	\$23,681,059	\$6,426,293	\$17,254,766	\$23,681,059	\$10,851,109	\$12,829,950	\$6,029,070	\$1,980,580	\$4,048,490
Work Energy Management	1.14	1.14	0.86	N/A	\$15,486,016	\$13,607,672	\$1,878,344	\$15,486,016	\$13,607,672	\$1,878,344	\$15,486,016	\$17,970,154	(\$2,484,139)	\$2,630,585	\$0	\$2,630,585
Electric Energy Consumption Optimization	1.07	1.07	0.49	1.16	\$14,522,958	\$13,627,015	\$895,943	\$14,522,958	\$13,627,015	\$895,943	\$14,522,958	\$29,468,929	(\$14,946,971)	\$15,842,914	\$13,627,015	\$2,215,899
DSM Portfolio	1.55	1.60	0.92	1.58	\$53,690,033	\$34,544,505	\$19,145,528	\$53,690,033	\$33,660,980	\$20,029,053	\$53,690,033	\$58,291,192	(\$4,601,159)	\$24,702,579	\$15,607,595	\$9,094,984
DSM Plan Portfolio	2.71	2.21	0.76	N/A	\$ 214,965,449	\$79,214,302	\$ 135,751,147	\$ 214,965,449	\$97,397,401	\$ 117,568,048	\$214,965,448	\$281,349,689	(\$66,384,241)	\$183,028,953	\$52,546,129	\$130,482,824

**Indiana Michigan Power Company - Indiana
DSM - 3 Year DSM Plan
2017 Shared Savings Forecast**

Attachment JCW-12S
Cause No. 44841

<u>Program</u> (1)	<u>Utility Cost Test</u> <u>Net Benefit*</u> (2)	<u>90%</u> <u>of UCT</u> <u>Net Benefit</u> (3)=(2) x 90%	<u>15%</u> <u>Pre-Tax</u> <u>Shared</u> <u>Savings</u> (4)=(3) x 15%	<u>Program</u> <u>Operating</u> <u>Costs</u> (5)	<u>15%</u> <u>Sector</u> <u>Program</u> <u>Operating</u> <u>Cost Cap</u> (6)=(5) x 15%	<u>Capped</u> <u>Shared</u> <u>Savings</u> (7)=min(4),(6)
Home Energy Products	\$3,260,456			\$1,970,726		
Schools Energy Education	\$891,175			\$705,154		
Home Appliance Recycling	\$166,157			\$627,090		
Home New Construction	\$289,072			\$502,327		
Home Weatherproofing	\$112,153			\$550,243		
Home Energy Engagement	\$5,522,985			\$2,303,992		
Home Energy Management	\$5,729,248			\$3,103,794		
Residential Sector Total	\$10,241,998	\$9,217,799	\$1,382,670	\$6,659,532	\$998,930	\$998,930
Work Prescriptive Rebates	\$17,220,494			\$3,632,947		
Work Custom Rebates	\$17,265,177			\$4,077,633		
Work Direct Install	\$869,163			\$458,943		
Commercial and Industrial Sector Total	\$35,354,834	\$31,819,351	\$4,772,903	\$8,169,524	\$1,225,429	\$1,225,429
Total at 100% Energy Savings Target Attainment	\$45,596,833	\$41,037,150	\$6,155,573	\$14,829,056	\$2,224,358	\$2,224,358
	(8) 2017	(9) = (8) * 85%				(10) = (7) * 15%
Residential Sector Energy Savings Target Attainment less than 85%	Savings Target 69,844,919	Threshold 59,368,181				Performance Impact (\$149,839)
Commercial & Industrial Energy Savings Target Attainment less than 85%	77,726,802	66,067,782				(\$183,814)
Total Final Shared Savings Earnings with Downside Performance Impact (11) = (7) + (10)						\$1,890,705
	(12) 2017	(13) = (12) * 105%				(14) = (7) * 10%
Residential Energy Savings Target Attainment >= 105%	Savings Target 69,844,919	Threshold 73,337,165				Performance Impact \$99,893
Commercial & Industrial Energy Savings Target Attainment >= 105%	77,726,802	81,613,142				\$122,543
Total Final Shared Savings Earnings with Upside Performance Impact (15) = (7) + (14)						\$2,446,794

* Source: Attachment JCW-6

**Indiana Michigan Power Company - Indiana
DSM - 3 Year DSM Plan
2018 Shared Savings Forecast**

Attachment JCW-13S
Cause No. 44841

<u>Program</u> (1)	<u>Utility Cost Test</u> <u>Net Benefit*</u> (2)	<u>90%</u> <u>of UCT</u> <u>Net Benefit</u> (3)=(2) x 90%	<u>15%</u> <u>Pre-Tax</u> <u>Shared</u> <u>Savings</u> (4)=(3) x 15%	<u>Program</u> <u>Operating</u> <u>Costs</u> (5)	<u>15%</u> <u>Sector</u> <u>Program</u> <u>Operating</u> <u>Cost Cap</u> (6)=(5) x 15%	<u>Capped</u> <u>Shared</u> <u>Savings</u> (7)=min(4),(6)
Home Energy Products	\$2,090,565			\$1,638,036		
Schools Energy Education	\$911,399			\$662,812		
Home Appliance Recycling	\$179,811			\$600,027		
Home New Construction	\$329,565			\$498,197		
Home Weatherproofing	\$123,907			\$517,033		
Home Energy Engagement	\$5,303,110			\$2,235,940		
Home Energy Management	\$5,105,596			\$2,322,816		
Residential Sector Total	\$14,043,953	\$12,639,558	\$1,895,934	\$8,474,862	\$1,271,229	\$1,271,229
Work Prescriptive Rebates	\$13,058,955			\$2,795,344		
Work Custom Rebates	\$12,024,492			\$3,265,942		
Work Direct Install	\$741,172			\$410,919		
Commercial and Industrial Sector Total	\$25,824,620	\$23,242,158	\$3,486,324	\$6,472,204	\$970,831	\$970,831
Total at 100% Energy Savings Target Attainment	\$39,868,573	\$35,881,716	\$5,382,258	\$14,947,066	\$2,242,060	\$2,242,060
	(8) 2018	(9) = (8) * 85%			(10) = (7) * 15%	
Residential Sector Energy Savings Target Attainment less than 85%	Savings Target 73,690,683	Threshold 62,637,081			Performance Impact (\$190,684)	
Commercial & Industrial Energy Savings Target Attainment less than 85%	71,258,791	60,569,973			(\$145,625)	
Total Final Shared Savings Earnings with Downside Performance Impact (11) = (7) + (10)						\$1,905,751
	(12) 2018	(13) = (12) * 105%			(14) = (7) * 10%	
Residential Energy Savings Target Attainment >= 105%	Savings Target 73,690,683	Threshold 77,375,217			Performance Impact \$127,123	
Commercial & Industrial Energy Savings Target Attainment >= 105%	71,258,791	74,821,731			\$97,083	
Total Final Shared Savings Earnings with Upside Performance Impact (15) = (7) + (14)						\$2,466,266

* Source: Attachment JCW-6

**Indiana Michigan Power Company - Indiana
DSM - 3 Year DSM Plan
2019 Shared Savings Forecast**

Attachment JCW-14S
Cause No. 44841

Program (1)	Utility Cost Test Net Benefit* (2)	90% of UCT Net Benefit (3)=(2) x 90%	15% Pre-Tax Shared Savings (4)=(3) x 15%	Program Operating Costs (5)	15% Sector Program Operating Cost Cap (6)=(5) x 15%	Capped Shared Savings (7)=min(4),(6)
Home Energy Products	\$1,697,762			\$1,305,061		
Schools Energy Education	\$918,751			\$621,231		
Home Appliance Recycling	\$200,066			\$562,713		
Home New Construction	\$332,029			\$466,937		
Home Weatherproofing	\$134,248			\$484,493		
Home Energy Engagement	\$5,031,555			\$2,241,256		
Home Energy Management	\$5,429,931			\$1,878,594		
Residential Sector Total	\$13,744,341	\$12,369,907	\$1,855,486	\$7,560,286	\$1,134,043	\$1,134,043
Work Prescriptive Rebates	\$9,134,255			\$1,931,640		
Work Custom Rebates	\$10,517,169			\$2,939,204		
Work Direct Install	\$610,049			\$377,900		
Commercial and Industrial Sector Total	\$20,261,473	\$18,235,326	\$2,735,299	\$5,248,744	\$787,312	\$787,312
Total at 100% Energy Savings Target Attainment	\$34,005,814	\$30,605,233	\$4,590,785	\$12,809,030	\$1,921,355	\$1,921,355
	(8) 2019 Savings Target	(9) = (8) * 85% 85% Threshold				(10) = (7) * 15% 15% Performance Impact
Residential Sector Energy Savings Target Attainment less than 85%	76,605,471	65,114,650				(\$170,106)
Commercial & Industrial Energy Savings Target Attainment less than 85%	66,356,629	56,403,135				(\$118,097)
Total Final Shared Savings Earnings with Downside Performance Impact (11) = (7) + (10)						\$1,633,152
	(12) 2019 Savings Target	(13) = (12) * 105% 105% Threshold				(14) = (7) * 10% 10% Performance Impact
Residential Sector Energy Savings Target Attainment less than 85%	76,605,471	80,435,745				\$113,404
Commercial & Industrial Energy Savings Target Attainment less than 85%	66,356,629	69,674,460				\$78,731
Total Final Shared Savings Earnings with Upside Performance Impact (15) = (7) + (14)						\$2,113,490

* Source: Attachment JCW-6

**Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
DSM/EE Revenue Requirement**

Attachment JCW-15S
Cause No. 44841

	Residential	Commercial & Industrial	Total
2017 PY 8 Program Operating Cost	\$12,423,974	\$9,334,621	\$21,758,595
2017 PY 8 DSM Plan Net Lost Revenue	\$3,020,763	\$2,015,289	\$5,036,052
2017 PY 8 Legacy Net Lost Revenue	\$7,270,711	\$18,283,296	\$25,554,007
2017 PY 8 Shared Savings	\$998,930	\$1,225,429	\$2,224,358
2017 PY 8 Revenue Requirement	\$23,714,377	\$30,858,635	\$54,573,012
2018 PY 9 Program Operating Cost	\$12,339,924	\$8,990,529	\$21,330,453
2018 PY 9 DSM Plan Net Lost Revenue	\$3,395,590	\$1,862,562	\$5,258,152
2018 PY 9 Legacy Net Lost Revenue	\$6,875,947	\$21,442,702	\$28,318,648
2018 PY 9 Shared Savings	\$1,271,229	\$970,831	\$2,242,060
2018 PY 9 Revenue Requirement	\$23,882,690	\$33,266,624	\$57,149,313
2019 PY 10 Program Operating Cost	\$12,549,895	\$8,337,055	\$20,886,951
2019 PY 10 DSM Plan Net Lost Revenue	\$3,860,834	\$1,692,709	\$5,553,543
2019 PY 10 Legacy Net Lost Revenue	\$6,371,107	\$23,728,410	\$30,099,518
2019 PY 10 Shared Savings	\$1,134,043	\$787,312	\$1,921,355
2019 PY 10 Revenue Requirement	\$23,915,880	\$34,545,487	\$58,461,366
3 Yr. Program Operating Cost	\$37,313,793	\$26,662,206	\$63,975,999
3 Yr. DSM Plan Net Lost Revenue	\$10,277,188	\$5,570,560	\$15,847,748
3 Yr. DSM Legacy Net Lost Revenue	\$20,517,765	\$63,454,408	\$83,972,173
3 Yr. Shared Savings	\$3,404,202	\$2,983,571	\$6,387,773
3 Yr. Revenue Requirement	\$71,512,947	\$98,670,745	\$170,183,692
Total Revenue Requirement-Net of Gross Revenue Conversion	\$71,512,947	\$98,670,745	\$170,183,692
Gross Revenue Conversion Factor (GRCF)		1.77%	
Gross Revenue Conversion--Required Revenue	\$1,287,698	\$1,776,715	\$3,064,412
Total Revenue Requirement	\$72,800,645	\$100,447,460	\$173,248,104

Public Efficient Streetlighting Program - Indiana

Objective:	<p>The Public Efficient Streetlighting (PES) Program encourages energy efficiency by offering municipalities, counties, and other governmental subdivisions a cost effective option to upgrade I&M owned streetlighting to more efficient LED streetlighting. Participating governmental entities pay for streetlighting service through I&M's Streetlighting Service Tariff (Tariff S.L.S.) and Energy Conservation Lighting Service Tariff (Tariff E.C.L.S.). Streetlighting service through these tariffs consists of installation, ownership, and maintenance of I&M streetlighting assets (poles, wires, streetlight fixtures), and the provision of electricity service for the fixtures.</p> <p>The objectives of the PES Program are to:</p> <ul style="list-style-type: none"> • Encourage current customers to convert to more efficient LED streetlighting. • Lower electrical energy consumption for public streetlighting
Target Market:	<p>I&M Indiana municipalities, counties, and other governmental subdivisions enrolled in streetlighting service through I&M's Streetlighting Service Tariff (Tariff S.L.S.) and Energy Conservation Lighting Service Tariff (Tariff E.C.L.S.).</p>
Program Duration:	<p>The PES Program will be a program in I&M's 2017 - 2019 DSM/EE portfolio.</p>
Program Description:	<p>The Public Efficient Streetlighting (PES) Program encourages energy efficiency by offering municipalities, counties, and other governmental subdivisions a cost effective option to upgrade I&M owned streetlighting to more efficient LED streetlighting. Customers participating in the PES Program will agree to transition to a new LED ECLS Tariff category of streetlight. To further encourage the conversion to the more efficient technology, customers will pay a specific, but otherwise lower tariff rates for streetlighting service until such time as those rates are addressed in subsequent base rate filing with the IURC.</p> <p>The program will:</p> <ul style="list-style-type: none"> • Comparably buy down 80% of the incremental cost of the more efficient LED streetlight fixture with a rebate paid by the PES Program; • Use the cost difference between a LED streetlight fixture and a comparable high pressure sodium fixture as the incremental measure cost of the more efficient lighting option; • Provide a rebate to offset this incremental cost in order to encourage and entice participating customers to convert to the LED streetlighting; and • Require participating customers to make an upfront contribution of 10% of the incremental cost for the LED fixture.

Incentive Strategy:	<p>The incentive strategy for the PES Program is to apply 80% of the difference between the cost of and LED streetlight and a baseline high pressure sodium equivalent streetlight. PES rebates are calculated based on this cost differential and will offset I&M's capital cost of conversion (material and labor) of the LED streetlight fixture to the high pressure sodium streetlight fixture. As LED streetlight conversions occur, where LED streetlights are placed in-service, I&M will use the rebate from the PES program to offset the capital cost of conversion booked in I&M electric plant in-service streetlight accounts.</p>
Eligible Measures:	<p>Eligible measures for this program include the LED streetlight fixtures and connections to the existing streetlighting electricity source.</p>
Implementation Strategy:	<p>I&M has designed the PES Program on a three year conversion schedule for all existing I&M owned streetlights for flexibility to adequately serve all interested entities. I&M will engage with ECLS participating municipalities and governmental entities to inform them of the PES program, how it is structured, and the need to reach agreement on the number of streetlights converted. I&M will agree upon the conversion schedule, streetlight account update process, and other program requirements with each entity prior to the conversion work commencing. Each individual entity will need to provide written consent and/or other tariff required terms in advance of I&M undertaking the conversion process dictated by the PES program.</p> <p>The preference is to convert all I&M owned streetlights during the proposed three year period, however, I&M will work with participating entities based on need to allow for each entities' necessary budget planning/constraints.</p> <p>The design of the PES program is premised upon a one for one change out of existing streetlight fixtures where LED streetlight fixtures will be matched in terms of lumen output to the existing fixture lumen output at existing streetlight pole locations, electricity sources, and existing mounting configurations. Any requested deviations by participating governmental entities from a one-for-one change out will be subject to the terms set forth in Tariff ECLS relative to the nature of the requests and the costs associated that are determined to be beyond the rebate payment paid for by the PES program.</p>
Marketing Strategy:	<p>I&M will perform marketing and outreach for this program using internal company resources.</p>
Evaluation, Measurement & Verification:	<p>An independent third party program evaluation contractor will perform a impact evaluation to ensure that the program is effectively implemented, that the program is achieving the expected savings</p> <p>The impact evaluation is expected to determine the actual, verified energy reductions achieved by the program, and provide cost/benefit analyses of the program both on</p>

	RIM Test	.56	
	Participant Test	NA	

**I.U.R.C. NO. 16
INDIANA MICHIGAN POWER COMPANY
STATE OF INDIANA**

**RIDER W.E.M.
(Work Energy Management Rider)**

Availability of Service

Available on a voluntary basis to customers taking firm service from the Company under Tariffs G.S., G.S.-TOD, L.G.S., L.G.S.-TOD, I.P., C.S.-IRP, M.S., W.S.S., or E.H.G. who have the ability to reduce consumption under the provisions of this rider. The Company's Work Energy Management (W.E.M.) program provides participating customers an opportunity to voluntarily respond to locational marginal prices (LMP) by reducing consumption and receiving payment for such reduction during those times when LMP prices are high.

For non-owner occupied commercial and industrial buildings, the Company may require customers to obtain permission from the building owner to install the required load control equipment and, if necessary, auxiliary communicating devices such as remote sensors or additional control devices. Customers will not be eligible for this rider if the owner does not allow installation of such equipment or does not agree to program terms and requirements through a contractual agreement.

_____ Customers participating in this rider are not eligible for enrollment in any other Company or PJM Interconnection, L.L.C. RTO (PJM) demand response program. Notwithstanding anything to the contrary in Rider D.R.S.1, customers currently served under Rider D.R.S.1 will be eligible to switch to service under Rider W.E.M. once their registration with PJM under Rider D.R.S.1 expires on May 31 of a given year, provided the customer provides written notice to the Company by May 1 of that year. This provision does not address the enforceability of any additional contractual obligation the customer may have to a Curtailment Service Provider (CSP) if the customer has elected to use the services of a CSP under Rider D.R.S.1.

Conditions of Service

- (1) The Company reserves the right to make changes to this rider in order to continue effective program operation.
- (2) An interval meter is required. The Company will provide this meter as part of the program to qualifying participants.
- (3) The Company will inform the participant regarding the communication process and timing required to participate in this program and rider. The customer is ultimately responsible for receiving and acting upon notifications as part of this program and rider.
- (4) Participants shall not receive credit for any curtailment periods to the extent that the customer's program managed load is already reduced due to a planned or unplanned outage as a result of vacation, renovation, repair, refurbishment force majeure, strike, economic conditions, or any event other than the Company's program that causes the customer's energy consumption to fall outside of that considered normal operating conditions.

Program Description

To participate, customers, or their authorized agents, must allow the Company and its authorized agents to install program compliant load control equipment, connect that equipment to Company owned communication equipment, and maintain both the load control equipment and associated communication equipment connections for the duration of the program.

(Cont'd on Sheet No. X)

**ISSUED BY
RENDERED
PAUL CHODAK III
PRESIDENT
FORT WAYNE, INDIANA**

EFFECTIVE FOR ELECTRIC SERVICE

ON AND AFTER

**ISSUED UNDER AUTHORITY OF THE
INDIANA UTILITY REGULATORY COMMISSION
DATED
IN CAUSE NO.**

**I.U.R.C. NO. 16
INDIANA MICHIGAN POWER COMPANY
STATE OF INDIANA**

**RIDER W.E.M.
(Work Energy Management Rider)**

(Cont'd from Sheet No. X)

Also, if necessary, the customer must allow the Company to install any program required auxiliary communicating devices to further facilitate the program's management and control of certain customer loads and/or customer sited electric power supply equipment as deemed necessary and appropriate for program operation. The program will initially, but not exclusively, focus on the customer's end-use lighting and HVAC unit(s) loads for program remote control and management. Load control equipment available to participate in the program will be jointly determined and agreed upon by the Company, the Company's authorized agents and the customer. All such devices shall be installed at a time that is consistent with the orderly and efficient deployment of this program. The load control equipment must comply with the Company's approved list of devices. The customer must allow the Company to interface both through software algorithms and hardware devices to existing customer end-use load and communication equipment. The Company and its authorized agents will perform an initial site survey in order to fully determine and assess the viability of customer end use load and electric energy usage and consumption patterns to validate customer participation and program effectiveness. The Company and its authorized agents will maintain all program equipment installed on customer premises for the duration of the customer's participation of the program. The Company and its authorized agent will provide customer access and use of program energy management and control software for the duration of the customer's participation in the program.

The Company will utilize an energy management software platform that will operate and control customer load control devices to reduce customer's demand and energy use. The Company's energy management platform will operate to optimize energy use through load shaping to achieve optimum and efficient customer use of electricity. Energy reductions will be coordinated during electric power system peak load periods determined at the sole discretion of the Company. Non-emergency energy management events can occur for up to 800 hours per year with no single event lasting more than six (6) consecutive hours. The Company plans to initially target energy management events for up to 487 hours per year but reserves the right to undertake energy management events up to 800 hours per year according to, and appropriate for, individual Customer load profiles and business operating conditions and requirements. The Company and its authorized agent may utilize a load shaping strategy; however, other strategies may be employed and evaluated to determine the strategy that optimizes energy reduction without significantly affecting predetermined customer business preferences, operating conditions, and requirements.

Energy management events will be called according to and in alignment with predetermined customer preferences and business requirements. Non-emergency energy management events shall not exceed 800 hours per year and depend upon individual customer load profile and energy use footprint.

The customer may opt out of a non-emergency energy management event through the program energy management system software platform or by contacting the Company and/or its authorized agent personnel. The Company's energy management software algorithm will facilitate and accept the event opt out. The Company will communicate events to customers through the energy management platform and via other means required by the customer. The method of event notification may change as determined by the Company and in conjunction with customers, to email or other electronic notification means.

(Cont'd on Sheet No. X)

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INDIANA MICHIGAN POWER COMPANY
STATE OF INDIANA

RIDER W.E.M.
(Work Energy Management Rider)

(Cont'd from Sheet No. X)

Energy Management Credit

Customers will only receive either a monthly or annual payment, as mutually agreed upon by each customer and the Company, based on the Hourly Curtailed Energy and 90% of the applicable LMP (Day-Ahead) established by PJM (including congestion and marginal losses). Energy Management Credits will vary based on market hourly energy prices and program effectiveness as determined by the Company and its authorized agent. No payment will be made to customers who opt out of energy management activity for the period of time that the customer opted out for. The Company may assess a penalty to customers who opt out of Company determined system emergency conditions at a penalty rate consistent with and based upon the Company's cost to provide such opt out energy during emergency conditions.

Equipment

The Company, and its authorized agent, will furnish and install load control equipment, and, as necessary, auxiliary communicating devices at the customer's premise. All equipment will be owned and maintained by the Company and its authorized agent until such time as the Work Energy Management Program is discontinued or the customer requests to be removed from the program after completing the initial period of three (3) years. At that time, the Company will cease both its energy management and control of the load control equipment and any auxiliary communicating devices, remove Company owned program equipment, and cease annual customer incentives paid by the program.

Should the customer lose, damage, or not allow the Company and its authorize agent to operate and maintain the required load control devices and auxiliary communicating equipment, the Company and its authorized agent will contact the customer in an attempt to re-instate program required equipment functionality. If such attempts by the Company do not facilitate reinstating the program required functionality, the Company will remove the customer from the program, remove Company owned equipment, and will cease the program customer incentive payments.

Contract

Participating customers must agree to participate for an initial period of not less than three (3) years and shall remain a participant thereafter until either party gives at least six months' written notice to the other of the intention to discontinue participation under the terms of this rider.

Curtailed Energy

For each curtailment period, Curtailed Energy shall be defined as the difference between the customer's Customer Baseline Load (CBL) calculation and the customer's actual energy used during each hour of the curtailment period.

(Cont'd on Sheet No. X)

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EFFECTIVE FOR ELECTRIC SERVICE RENDERED
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I.U.R.C. NO. 16
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STATE OF INDIANA

RIDER W.E.M.
(Work Energy Management Rider)

(Cont'd from Sheet No. X)

Customer Baseline Load Calculation

The Company will utilize the energy management platform data and Company billing system data to determine a Customer Baseline Load (CBL) for each hour corresponding to each curtailment event hour in order to determine the amount of energy reduced for Energy Management Credit purposes. The CBL shall accurately reflect the customer's normal consumption profile, to the extent possible. The Company will provide to each WEM program customer how the CBL is determined.

Special Terms and Conditions

This rider is subject to the Company's Terms and Conditions of Service and all provisions of the tariff under which the customer takes service, including all payment provisions.

The Company shall not be required to offer the program to customers when the Company and its authorized agent cannot maintain the required functionality of the load control equipment, or if the continued operation of the program cannot be justified for reasons such as: customer preference, electric power market conditions, technological functionality and limitations, safety concerns, or abnormal customer premise conditions, including vacation or other limited occupancy residences.

The Company and its authorized agents shall be permitted access to the customer's premises during normal business hours to confirm installation and connectivity of the load control device(s). In the event the Company requires access to load control device(s), and the customer does not provide such access within 30 days of the request, the Company may discontinue the Energy Management Credit until such time as the Company is able to gain the required access. The Company shall not be responsible for the repair, maintenance or replacement of any customer-owned equipment.

The Company will collect data during the course of this energy management and control program. Customer-specific information will be held as confidential and data presented in any analysis will protect the identity of the individual customer.

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I.U.R.C. NO. 16
INDIANA MICHIGAN POWER COMPANY
STATE OF INDIANA

FIRST REVISED SHEET NO. 22
CANCELS ORIGINAL SHEET NO. 22

TARIFF E.C.L.S.
(Energy Conservation Lighting Service)

Availability of Service.

Available for streetlighting service to municipalities, counties, and other governmental subdivisions. The rates are applicable to new streetlights installed after April 6, 1981, and to 50,000 lumen high pressure sodium streetlights installed before that date. Only the lamps set forth below are available for such new service. Service rendered hereunder is predicated upon the execution by the customer of an agreement specifying the type, minimum number, and location of lamps to be served.

The Energy Policy Act of 2005 requires that mercury vapor lamp ballasts shall not be manufactured or imported after January 1, 2008. To the extent that the Company has the necessary materials, the Company will continue to maintain existing mercury vapor lamp installations in accordance with this Tariff.

Monthly Rate. (Tariff Code 530)

Nominal Lamp Wattage	Approx. Lamp Lumens	Type of Lamp	Rate Per Lamp Per Month			
			On Wood Pole With Overhead Circuitry	On Metallic or Concrete Pole Installed Prior to April 6, 1981		Post-top Lamp on Fiberglass Pole With Underground Circuitry
				Overhead Circuitry	Under- Ground Circuitry	
			\$	\$	\$	\$
70	5,800	HPS	7.05	16.00	16.35	--
100	9,500	HPS	7.85	16.75	17.55	14.40
200	22,000	HPS	11.90	18.45	20.00	--
400	50,000	HPS	15.85	21.50	23.05	--

The following rates apply to existing luminaires and are not available for new business.

175	7,000	MV	9.00
400	20,000	MV	14.60

Public Efficient Streetlighting Program

The Public Efficient Streetlighting Program (PES) is a program implemented under the Company's Demand-Side Management / Energy Efficiency Program, designed to encourage energy efficient streetlighting through the conversion of existing Company-owned streetlights to LED streetlights. The PES will be performed under the terms and conditions contained in the PES as approved by the Commission.

Participating municipalities and other participating customers will be required to make a one-time up-front contribution toward the LED fixture cost as follows:

Fixtures less than 20,000 Lumen	\$14.52 per fixture
Fixtures 20,000 Lumen and greater	\$21.82 per fixture

(Cont'd on Sheet No. 22.1)

ISSUED BY
PAUL CHODAK III
PRESIDENT
FORT WAYNE, INDIANA

EFFECTIVE FOR ELECTRIC SERVICE RENDERED
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IN CAUSE NO.

**I.U.R.C. NO. 16
INDIANA MICHIGAN POWER COMPANY
STATE OF INDIANA**

**FIRST REVISED SHEET NO. 22.1
CANCELS ORIGINAL SHEET NO. 22.1**

**TARIFF E.C.L.S.
(Energy Conservation Lighting Service)**

(Cont'd From Sheet No. 22)

PES Monthly Rate. (Tariff Code xxx)

		Rate Per Lamp Per Month			
		On Metallic or Concrete Pole Installed Prior to April 6, 1981			Post-top Lamp on Fiberglass Pole With Underground
Approx. Lamp Lumens	PES Type of Lamp Conversion	On Wood Pole With Overhead Circuitry	Overhead Circuitry	Under- Ground Circuitry	Circuitry
		\$	\$	\$	\$
5,800	HPS > LED	7.057.26	16.0016.21	16.3516.56	--
9,500	HPS > LED	7.858.06	16.7516.96	17.5517.76	14.4014.61
22,000	HPS > LED	11.9012.22	18.4518.77	20.0020.32	--
50,000	HPS > LED	15.8516.17	21.5021.82	23.0523.37	--
7,000	MV > LED	9.009.21			
20,000	MV > LED	14.6014.92			

The customer will be required to make a contribution-in-aid of construction calculated in accordance with the formula set forth below if the customer requests the installation of any facility other than a standard company luminaire and an upsweep arm not over 10 feet in length installed on a pole described in the above rate.

The contribution-in-aid-of-construction will equal the difference between estimated cost of the streetlighting system requested by the customer and the estimated cost of a streetlighting system using a lamp controlled by a photoelectric relay, a standard company luminaire, and an upsweep arm not over 10 feet in length installed on a wood pole with overhead circuitry of a span length not to exceed 150 feet. A customer paying a contribution-in-aid of construction will pay the above monthly rate for wood poles with overhead circuitry.

When underground facilities are requested by the customer, the estimated installed cost of the underground circuit will be \$8.10 per foot plus any and all cost required to repair, replace, or push under sidewalks, pavements, or other obstacles.

Applicable Riders.

Monthly charges computed under this tariff shall be adjusted in accordance with the applicable Commission-approved rider(s) listed on Sheet No. 34.

(Cont'd on Sheet No. 22.2)

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**EFFECTIVE FOR ELECTRIC SERVICE RENDERED
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I.U.R.C. NO. 16
INDIANA MICHIGAN POWER COMPANY
STATE OF INDIANA

FIRST REVISED SHEET NO. 22.2
CANCELS ORIGINAL SHEET NO. 22.2

**TARIFF E.C.L.S.
(Energy Conservation Lighting Service)**

(Cont'd from Sheet No. 22.1)

Delayed Payment Charge.

All bills under this schedule shall be rendered and due monthly. If not paid within 17 days after the bill is mailed, there shall be added to bills of \$3 or less, 10 percent of the amount of the bill; and to bills in excess of \$3 there shall be added 10 percent of the first \$3, plus 3 percent of the amount of the bill in excess of \$3. Any governmental agency shall be allowed such additional period of time for payment of the net bill as the agency's normal fiscal operations require, not to exceed 30 days.

Streetlighting Facilities.

All facilities necessary for streetlighting service hereunder, including but not limited to, all poles, fixtures, streetlighting circuits, transformers, lamps, and other necessary facilities, shall be the property of the Company and may be removed if the Company so desires at the termination of any contract for service hereunder. The Company will maintain all such facilities; however, the Company will not be responsible for replacing or rebuilding obsolete, discontinued, decorative, or other facilities which in the opinion of the Company are too expensive or unusual to replace or rebuild. In such instances the customer may at its own expense replace or rebuild the facilities or may contract for new service under any applicable tariff.

Hours of Lighting.

Lamps shall burn from approximately one-half hour after sunset until approximately one-half hour before sunrise, every night, approximately 4,000 hours per annum.

Lamp Outages.

For all outages which are reported daily in writing to the Company by a proper representative of the customer, the customer may deduct from the total amount which would have been paid had no outage occurred 1/30 of such amount per day of outage beyond two working days after such notice.

Relocation and Removal of Lamps

Lamps may be relocated or removed when requested in writing by a proper representative of the Customer, subject, however to the following conditions:

Lamps will be relocated upon payment by the Customer of the estimated cost of doing the work.

Lamps will be removed upon payment by the Customer of the estimated cost of doing the work.

(Cont'd on Sheet No. 22.3)

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FORT WAYNE, INDIANA

EFFECTIVE FOR ELECTRIC SERVICE RENDERED
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I.U.R.C. NO. 16
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STATE OF INDIANA

**TARIFF E.C.L.S.
(Energy Conservation Lighting Service)**

(Cont'd from Sheet No. 22.2)

Upon completion of the work, billing for relocation or removal of lamps will be adjusted to reflect actual costs. Charges under this tariff will end when the lamp and/or facilities are removed.

The customer shall pay the ongoing cost of any existing facilities associated with the relocated or removed lamps which must remain in place for the sole purpose of supplying power to other lamps of the Customer. The ongoing cost shall be the cost as specified in Tariff O.L. for other new equipment. For any equipment not specified in Tariff O.L. the charge shall be based upon the Company's actual cost.

The Company will relocate or remove lamps as rapidly as labor conditions permit.

Terms of Contract.

Contracts under this tariff will ordinarily be made for an initial term of one year with self-renewal provisions for successive terms of one year each until either party shall give at least 60 days' notice to the other of the intention to discontinue at the end of any term. The Company will have the right to require contracts for periods of longer than one year.

Special Terms and Conditions.

This tariff is subject to the Company's Terms and Conditions of Service.

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PAUL CHODAK III
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EFFECTIVE FOR ELECTRIC SERVICE RENDERED
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**I.U.R.C. NO. 16
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STATE OF INDIANA**

**FIRST REVISED SHEET NO. 21
CANCELS ORIGINAL SHEET NO. 21**

**TARIFF S.L.S.
(Streetlighting Service)**

Availability of Service.

This tariff is withdrawn except for existing streetlights or traffic control signals serving those municipalities, counties, and other governmental subdivisions having contracted for such service under this tariff, Tariff S.L.N. (Streetlighting-New and Rebuilt Systems), or a special contract prior to the first effective date of Tariff E.C.L.S. (Energy Conservation Lighting Service).

The Energy Policy Act of 2005 requires that mercury vapor lamp ballasts shall not be manufactured or imported after January 1, 2008. To the extent that the company has the necessary materials, the Company will continue to maintain existing mercury vapor lamp installations in accordance with this Tariff.

Monthly Rate. (Tariff Code 533)

Size of Lamp in <u>Lumens</u>	<u>Type of Lamp</u>	<u>Price Per Lamp Per Month</u>		
		<u>On Wood Poles With Overhead Circuitry</u>	<u>On Metallic or Concrete Poles With Overhead Circuitry</u>	<u>Underground Circuitry</u>
1,000	Incandescent	--	--	12.15
2,500	Incandescent	--	--	17.20
4,000	Incandescent	--	--	24.55
7,000	Mercury Vapor	8.85	13.20	15.90
20,000	Mercury Vapor	13.50	18.80	21.75
50,000	Mercury Vapor	--	30.15	--
16,000	High Pressure Sodium	12.20	17.95	22.55
25,500	High Pressure Sodium	14.25	20.05	--

Public Efficient Streetlighting Program

The Public Efficient Streetlighting Program (PES) is a program implemented under the Company's Demand-Side Management / Energy Efficiency Program, designed to encourage energy efficient streetlighting through the conversion of existing Company-owned streetlights to LED streetlights. The PES will be performed under the terms and conditions contained in the PES as approved by the Commission.

Participating municipalities and other participating customers will be required to make a one-time up-front contribution toward the LED fixture cost as follows:

Fixtures less than 20,000 Lumen \$14.52 per fixture
Fixtures 20,000 Lumen and greater \$21.82 per fixture

(Cont'd on Sheet No. 21.1)

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**FIRST REVISED SHEET NO. 21.1
CANCELS ORIGINAL SHEET NO. 21.1**

**TARIFF S.L.S.
(Streetlighting Service)**

(Cont'd from Sheet No. 21)

PES Monthly Rate. (Tariff Code xxx)

Size of Lamp in Lumens	PES Type of Lamp Conversion	Price Per Lamp Per Month		
		On Wood Poles With Overhead Circuitry	On Metallic or Concrete Poles With Overhead Circuitry	Underground Circuitry
1,000	Incandescent > LED	--	--	12.1512.36
2,500	Incandescent > LED	--	--	17.2017.41
4,000	Incandescent > LED	--	--	24.5524.76
7,000	Mercury Vapor > LED	8.859.06	13.2013.41	15.9016.11
20,000	Mercury Vapor > LED	13.5013.82	18.8019.12	21.7522.07
50,000	Mercury Vapor > LED	--	30.1530.47	--
16,000	High Pressure Sodium > LED	12.2012.41	17.9518.16	22.5522.76
25,500	High Pressure Sodium > LED	14.2514.57	20.0520.37	--

Rate for Traffic Control Signals.

For post type traffic director units, which are supplied energy for their operation but owned and maintained by the customer, having normally one lamp of 69 watts or less capacity burning at the same time except during a change in signal when no more than two lamps are burning simultaneously for a period not to exceed 15 percent of the total time to complete an entire cycle of signal changes, \$2.85/Month.

Applicable Riders.

Monthly charges computed under this tariff shall be adjusted in accordance with the applicable Commission-approved rider(s) listed on Sheet No. 34.

Delayed Payment Charge.

All bills under this schedule shall be rendered and due monthly. If not paid within 17 days after the bill is mailed, there shall be added to bills of \$3 or less, 10 percent of the amount of the bill; and to bills in excess of \$3, there shall be added 10 percent of the first \$3, plus 3 percent of the amount of the bill in excess of \$3. Any governmental agency shall be allowed such additional period of time for payment of the net bill as the agency's normal fiscal operations required, not to exceed 30 days.

(Cont'd on Sheet No. 21.2)

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INDIANA MICHIGAN POWER COMPANY
STATE OF INDIANA

**TARIFF S.L.S.
(Streetlighting Service)**

(Cont'd from Sheet No. 21.1)

Streetlighting Facilities.

All facilities necessary for streetlighting service hereunder, including but not limited to, all poles, fixtures, streetlighting circuits, transformers, lamps, and other necessary facilities, shall be the property of the Company and may be removed if the Company so desires at the termination of any contract for service hereunder. The Company will maintain all such facilities; however, the Company will not be responsible for replacing or rebuilding obsolete, discontinued, decorative, or other facilities which in the opinion of the Company are too expensive or unusual to replace or rebuild. In such instances the customer may at its own expense replace or rebuild the facilities or may contract for new service under any applicable tariff.

Hours of Lighting.

Streetlighting lamps shall burn from approximately one-half hour after sunset until approximately one-half hour before sunrise, every night, approximately 4,000 hours per annum. Traffic director units may operate 24 hours per day, every day, approximately 8,760 hours per annum.

Lamp Outages.

For all outages which shall be reported daily in writing to the Company by a proper representative of the customer, the customer may deduct from the total monthly amount 1/30 of the amount which would have been paid for any lamp had no outage occurred for each day of outage beyond two working days.

Terms of Contract.

Contracts under this tariff shall be made for a term of one year with self-renewal provisions for successive terms of one year each until either party shall give at least 60 days' notice to the other of the intention to discontinue at the end of the initial term or any yearly period. The Company will have the right to require contracts for periods longer than one year.

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