RATE CASE FILING REQUIREMENTS

Pursuant to order dated April 25, 2024 in Case No. U-18238

(Updated July 9, 2024)

PART I FILING INSTRUCTIONS ACCOMPANYING STANDARD EXHIBITS AND SCHEDULES FOR RATE CASE FILINGS

General Instructions

Pursuant to MCL 460.6a, utility applicants may use projected costs and revenues for a future consecutive 12-month period in developing its requested rates and charges. If a utility elects to do so, it must identify the future consecutive 12-month period used to develop the projected costs and revenues, and reflect in its filing the costs and revenues expected to be experienced during that period. Projected costs and revenues for the future consecutive 12-month period which deviate from actual costs and revenues in the most recent historical 12-month period shall be identified, and any such deviations shall be described and explained. Where these instructions specify that a particular set of information or ratemaking approach should be used, the utility shall provide that information and use that approach, but may propose that alternative information and ratemaking approaches be used to establish rates for the projected period. Such alternative information and approaches may be explained and justified.

The historical period shall not be presented as a split year period and must be presented on a calendar year basis. Capital expenditures for the projected test period exhibits shall be presented on a calendar year basis for the historical period, projected bridge period, and projected test year period unless the utility chooses to utilize a projected test period on a non-calendar year basis. Should the utility choose to use a non-calendar year projected test period, then all 12 month periods (historical and bridge) prior to the test period shall continue to be presented on a calendar year basis (for illustrative purposes refer to Exhibit A-12, Schedule B5 and its sub-schedules for the appropriate presentation).

A utility shall serve the Michigan Public Service Commission (MPSC) Staff, including the Staff's Case Coordinator, via email (or by any prearranged method the Case Coordinator deems sufficient) all Application Documents the same day as the case is filed. All "Application documents" includes all testimony, exhibits, and any supporting documents including workpapers in native format with formulas intact.

At least 30 calendar days prior to filing its rate case, a utility shall contact the MPSC Staff to (a) identify the Staff Case Coordinator to be added to the Proof of Service and (b) to confirm how many hard copies of the utility case filing the Staff requires. A utility shall provide the MPSC Staff with any number of hard copies of testimony, exhibits, workpapers and any other application documents, etc. that Staff identifies.

A utility shall satisfy all Pre-Filing Requirements (see Attachment 1).

Where the utility prepares its filing in a manner that differs from a policy or practice adopted by the Commission in the preceding general rate case for the utility, it shall identify such difference, and shall quantify, to the extent practicable, the impact on the utility's revenue requirement calculation of that difference.

With the exception of Schedule F-5 Proposed Tariff Sheets, the standard exhibits shall be provided electronically in native Microsoft Excel format with all formulas and links active. The Schedule F-5 Proposed Tariff Sheets shall be supplied in Microsoft Word format. Information included on the schedules shall be sourced to workpapers and other supporting documents that are included in the case filing. Any workpapers and other supporting documents that are Microsoft Excel based shall also be provided electronically in native Microsoft Excel format with all formulas and links active.

The standard exhibit titles listed below must specify the projected future 12-month period upon which the filing is based. The utility shall also provide the historic test year information in the same manner and format as the projected test year information outlined below (see Exhibits and Schedules).

The exhibits shall include the formulas that explain the relationship among the exhibit rows and columns.

All exhibits, workpapers, attachments and other documents shall be served in original format with formulas intact. This includes, but is not limited to, (a) all information and documents used to support a calculation and (b) all information and documents used to support the utility application, testimony and exhibits. The utility shall serve these exhibits, workpapers, attachments and other documents on the same day that an application, testimony, rebuttal testimony, or any other utility document is filed.

At the time of filing, the utility shall provide notice of the filing to all parties to the preceding general rate case of the applicant, and shall promptly provide a copy of the filing upon request.

Part I

Schedule A-1 and A-2

A-1 Projected Revenue Deficiency
A-2 Projected Financial Metrics

The projected revenue deficiency (sufficiency) is determined based on information supplied in Schedules B, C, D and E. Utilities providing service in more than one jurisdiction shall identify the MPSC jurisdictional amounts on schedules A, B and C based on the jurisdictional separation determined in Schedule F-1.

Schedules B-1, B-2, B-3, B-4, and B-5

B-1 Projected Rate Base
B-2 Projected Utility Plant
B-3 Projected Accumulated Provision for Depreciation
B-4 Projected Working Capital
B-5 Projected Capital Expenditure Summary and Supporting Exhibits

The amounts included for plant in service, plant held for future use, construction work in progress, and accumulated depreciation reserve must reflect all retirements, all capital expenditures, and book depreciation expense expected to occur by the end of the projected future 12-month period.

Schedules C-1 through C-11

C-1 Projected Net Operating Income
C-2 Revenue Conversion Factor
C-3 Projected Sales Revenue
C-4 Projected Fuel and Purchased Power (or Cost of Gas Sold)
C-5 Projected Operating and Maintenance Expenses
C-6 Projected Depreciation and Amortization Expenses
C-7 Projected General Taxes
C-8 Projected Federal Income Taxes
C-9 Projected State Income Taxes
C-10 Projected Other (or Local) Taxes
C-11 Projected Allowance for Funds Used During Construction

Operating revenues and expenses must reflect the revenues and expenses that the utility expects to experience during the projected future 12-month period.

Significant changes in individual operating revenue or expense items for the projected future period from those included in the historical information provided in Part III must be identified and explained in testimony by the utility, and supporting data and justification must be supplied with respect to each revenue and expense item.

The depreciation and amortization expense included in these schedules must reflect the depreciation rates approved at the time the utility makes its filing, and those rates must be applied to the plant included in its filing. If a utility files a concurrent depreciation case, or has a pending depreciation case at the time of rate case filing, then the utility shall provide a statement within its rate case filing describing the revenue requirement impact of its full depreciation case request.

The tax rates used in preparing these schedules must reflect the tax rates that the utility anticipates will be in effect during the projected future 12-month period. If the utility uses tax rates different from those specified in the tax laws in effect at the time of the filing, the utility shall provide an explanation of and justification for all such differences.

Schedules D-1, D-2, D-3, D-4 and D-5

D-1 Projected Rate of Return Summary
D-2 Cost of Long-Term Debt
D-3 Cost of Short-Term Debt
D-4 Cost of Preferred Stock
D-5 Cost of Common Shareholders' Equity

The utility must reflect all issuances of securities, equity infusions, retirements, redemptions, conversions, etc., that the utility expects to occur by the end of the projected future period.

Schedule E-1

E-1 Sales, Load and Customer Data

Sales levels for the projected future 12-month period must reflect reasonably anticipated market and economic conditions the utility expects to influence sales during that period. Such sales levels must also reflect the impact of reasonably anticipated energy conservation and efficiency programs for the projected future period. The projected sales levels must be weather-normalized utilizing the weather-normalization method adopted by the Commission in the most recent general rate case for the utility; however, the utility may, in addition, propose the use of any other weather-normalization method for which the utility presents information supporting the conclusion that such alternative method is more likely to predict actual sales during the future period.

Schedules F-1, F-2, F-3, F-4 and F-5

F-1 Projected Cost of Service Allocation Study
F-2 Summary of Present and Proposed Revenues
F-3 Detail of Present and Proposed Revenues
F-4 Comparison of Present and Proposed Monthly Bills
F-5 Proposed Tariff Sheets

For utilities with more than 1,000,000 retail customers in Michigan, the electric cost of service allocation study must be prepared in conformance with MCL 460.11. The study must reflect the allocation of (i) production-related and transmission costs using the method of allocation described in MCL 460.11, (ii) energy-related costs based on energy consumption, (iii) customer-related costs based on the number of customers, (iv) demand-related costs (other than production-related and transmission) based on the relative demands of customer classes.

Summary of present and proposed revenue summarizes the effect on revenues of proposed rate changes including the percentage of increase/decrease by rate class. Detail of present and proposed rates will reflect revenues by rate class based on present and proposed rates. Each rate class will require a separate page.

Comparison of present and proposed monthly bills will reflect revenues by rate class based on present and proposed rates at various usage increments. Each rate class will require a separate page.

Part II

Each general rate case filing shall include:

- Annual Reports to the MPSC P-521 (electric) P-522 (gas) for the most recent 2 years
- Annual Report to the SEC Form 10-K
- Quarterly Report to Shareholders (most recent 4 quarters)
- Bond and other financial prospectuses for issuances during the past 2 years

Paper copies of the documents in Part II are not required if the documents are available free of charge online as part of the case filing on the e-docket. The Part II items are required to be keyword searchable, as described further in the Process Guidelines below. For documents available free of charge online outside of the e-docket, the utility may provide a reference link and citation to the full and complete version of such documents in lieu of providing the full and complete version within its e-docket filing. The utility shall not utilize a Michigan Public Service Commission website reference in lieu of a full and complete version of such documents on the e-docket.

Part III

Supplemental Data (see Part III – Forms and Instructions)

Other Instructions

A rate case filing shall include:

- An application describing the relief that is being sought by the applicant
- A draft notice of hearing in current prescribed MPSC format
- Testimony in support of the utilities filed request
- A firm, non-modifiable Protective Order which is provided as Attachment 13.
- Information as defined in these Filing Instructions, Part I, Part II and Part III, including workpapers in support of Part I, Part II and Part III as described in these filing instructions.

Process Guidelines

- For cross-examination transcripts, the utility shall secure and pay for transcript turnaround service of three-days or faster. If not available on the e-docket, the utility shall provide non-confidential transcripts to all parties. If not available on the e-docket, the utility shall provide confidential transcripts to the parties pursuant to applicable protective orders.

- For documents whereby the utility is the author or creator, such documents provided to the docket or in response to audit/discovery shall be keyword searchable.

- Utility applications, testimony, exhibits, workpapers, discovery questions/responses, audit questions/responses, and other information provided by the utility (both to the docket and provided outside of the docket) shall be keyword searchable. All Utility provided information throughout the entirety of the rate case shall be keyword searchable, including information/documents provided to parties outside of the docket. This keyword searchable requirement applies to all Parts of the Filing Requirements (Parts I, II and II) as well as scanned image files. This keyword searchable requirement applies to all proposed settlement documents, irrespective of whether said documents are filed to the docket.

- Upon Staff or Intervenor request, the utility shall make available to the requesting party any proprietary information, analyses, modeling, or similar that the utility uses to support its rate filing or that the utility uses to facilitate its internal planning, budgeting, decision-making, risk assessment, or similar processes. If a utility is unable to provide the requested proprietary information due to license/contractual/legal restrictions, the utility shall provide the requesting party with verification of such restrictions.

- Once a petition to intervene is filed, the potential intervening person may begin issuing discovery. If the utility receives a discovery request from a person which filed a petition to intervene, but that person has yet to be granted intervenor status, then the utility shall respond to said discovery (within 8 business days) in one of two ways:

  a) Indicate, in writing, to that person that the utility intends to object to their intervention at the prehearing, OR

  b) Respond to said discovery in the same manner the utility would respond as if the potential intervener was already granted intervening status (ie, a normal discovery response)

- The Staff's Case Coordinator shall be included on the service list for all rate cases, including, but not limited to, for receiving service of non-confidential discovery as well as confidential discovery.

Schedule Guidelines

The prehearing conference should occur no sooner than 18 calendar days after a rate case is filed, and also not later than 28 calendar days after the rate case is filed. The Administrative Law Judge (ALJ) shall adopt a schedule that initially requires Intervenors and Staff to file their direct cases in sufficient time to allow the Commission to reach a final decision within 10 months from the date of the filing of the rate case. The ALJ shall establish a 10-month schedule without respect to Commission meeting dates, thus utilizing the entire 10-month period.

The ALJ shall attempt to follow these calendar-day milestones in an effort to ensure the following minimum number of days:

- 120 calendar days between the date of the utility rate case application and the date of the Staff/Intervenor Testimony.

- 21 calendar days between the date of Staff/Intervenor Testimony and the date of Rebuttal Testimony.

- 12 calendar days between the date of Rebuttal Testimony and the first day of Cross Examination.

- 33 calendar days between the date of Replies to Exceptions to the PFD and the date of the Statutory Deadline.

In the ALJ's discretion, the ALJ may increase the number of calendar days between these dates. In addition, the administrative law judges are directed to take appropriate actions to ensure that evidentiary hearings proceed in an organized and effective fashion. In addition to other actions the administrative law judge believes will achieve that goal, the administrative law judge may require the parties to identify prior to commencement of cross-examination the issues that the party intends to pursue during cross-examination. The Commission concludes that doing so in advance of cross-examination will allow a more meaningful and useful evidentiary record to be created.

Discovery Guidelines

Discovery timeframes and requirements shall also apply to audit questions and audit responses.

Guidance for labeling and identification of Discovery Questions and Discovery Responses is provided on the next page, page 8. This guidance was approved in the order dated April 25, 2024 in Case No. U-18238.

Discovery Responses issued by the utility or any intervening party shall be served to those parties and individuals identified on the Proof of Service and the Parties List. All attachments shall be provided via email, in the same email, at the time a Discovery Response is served. Confidential responses shall be served to those individuals identified on the Proof of Service and Parties List, so long as those individuals have signed the Non-Disclosure Agreement associated with the Protective Order (if said Protective Order contains a Non-Disclosure Agreement). If a single attachment file is larger than the State of Michigan's email system is able to receive then the utility shall contact the Staff's case coordinator. The case coordinator shall instruct the utility/intervening party as to what manner Staff would like to receive the file attachment.

The Administrative Law Judge shall adopt discovery practices that will promote the expeditious processing of a filing. Unless the ALJ determines that a different discovery turnaround time is more appropriate, discovery responses shall be provided within 8 business days, best efforts prior to Staff/Intervenor filing and 5 business days, best efforts after Staff/Intervenor filing. "Business day" shall mean "those days in which the State of Michigan offices are scheduled to be open for public business". The time for a response begins counting on the first business day after discovery is served.

In the event that a utility needs additional time to respond to an audit request or discovery request beyond the set turnaround, then the utility shall notify the requesting party to approximate the additional time needed. For Staff, the utility shall also notify the Case Coordinator. This utility notification requirement shall apply only to audit/discovery responses that are delivered more than 1 business days past the expected turnaround time.

Labeling and Identificaiton of Discovery Questions and Discovery Responses

EMAILS:

The subject line should contain case number and description. If the response is confidential, the subject line should indicate that.

Discovery Request Example:	U-21297 DTE Elec – Staff's 1st Discovery Request to DTE Elec
Discovery Response Example:	U-21297 DTE Elec – DTE's Response to Staff's 1st Discovery
Confidential Discovery Response Example:	U-21297 DTE Elec - Response to AG 1st Discovery CONFIDENTIAL

Key Considerations:* *Be sure that email subject line is clear that it's Staff/AG/etc first discovery

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THE ACTUAL REQUEST

The document cover page (or first page) should contain a description of the document.

Example Request:

MICHIGAN PUBLIC SERVICE COMMISSION STAFF'S
FIRST DISCOVERY REQUEST TO
DTE ELECTRIC COMPANY

FILE NAMES

Key Considerations: (a) The file name should contain the case number, requesting party, receiving party, and discovery request number.
(b) Use any combo of spaces/dashes and 2-6 digit party designator codes the utility prefers ; consistent for file organization
(c) Utility to use consistent file name identification for easy e-file storage/organization ("base" plus details)
(d) Attachments shall include a description of the file after the "base"
(e) Helpful Lettering for Condensing:

R = Full Response ; RP1 = First Partial ; RP2 = Second Partial
Q = Question # , ATT = Attachment, POS = Proof of Service
CONF = Confidential, SUPP = Supplemental

CONSUMERS ENERGY STYLE RESPONSES

Sufficient Response Naming Examples:

BASE = U21389-AG##-CE- (keep BASE CONSISTENT for all responses, utility chooses its base)

**** the AG## or ST## is critical to Staff re: Consumers Naming Convention for e-storage chronology*

U21389-AG13-CE-0782-0810	Response to AG13
U21389-AB05-CE-0811-0816	Response to ABATE-5
U21389-AG17-CE-0828 Supplemental	Supplemental Response to 0828
U21389-AG17-CE-0828 SUPP	Supplemental Response to 0828
U21389-ST13-CE-0619, 0613, 0615-0621	Partial Response to Staff-13
U21389-AB05-CE-0811-0816 POS	Proof of Service for 0811-0816
U21389-AG17-CE-0828 Confidential	Confidential Response to 0828
U21389-AG17-CE-0828 CONF	Confidential Response to 0828
	*** Put the Confidential designation at end for save/sort purposes*
If Attachments	
U21389-ST08-CE-0828 ATT Fuel Cost	Fuel Cost Attachment for 0828
U21389-ST08-CE-0828 ATT 1 Inflation Jan	*ATT 1/2/3 helpful when multiple attachments for same question*
U21389-ST08-CE-0828 ATT 2 Inflation Feb	*ATT 1/2/3 helpful when multiple attachments for same question*
U21389-ST08-CE-0828 ATT 3 Inflation March	*ATT 1/2/3 helpful when multiple attachments for same question*

DTE / OTHERS STYLE RESPONSES

Sufficient Response Naming Examples:

BASE = U-21297 STDE-## (keep base consistent for all responses, utility chooses its base)

*** The ## (such as 01, 02, 07, 11, etc) is critical to Staff re: DTE/Other Naming Convention for e-storage chronology

U-21297-STDT-01R	Full Response "R" to Staff's First SET
U-21297-STDT-01-RP1-Q22-Q30	RP1 indicates partial reponse number 1 to set 1, Qs 22-30 answered
U-21297-STDT-01-RP2-Q31-Q499	RP2 indicates partial reponse number 2 to set 1, Qs 31-499 answered
U-21297 STDT 01 RP1 Q22-Q30	*Same as line 59 but without dashes ; utility choice as long as consistent*
U-21297-STDT-01R POS	Proof of Service for Set 1
U-21297-STDT-01R Confidential	Confidential Response to Set 1
U-21297-STDT-01R CONF	….or CONF for shortened Confidential
*** Put the Confidential designation at end for save/sort purposes*	
U-21297-STDT-07R Supplemental Q7	Supplemental Response to Q22 of Staff's Seventh Set
U-21297-STDT-05R SUPP Q2.2	Supplemental Response to Q2.2 of Staff's Fifth Set
If Attachments	
U-21297-STDT-01R OR U-21297-STDT-01RP1-Q22-Q30	*Examples of "BASE" to then be followed by ATT info*
U-21297-STDT-02R ATT 2.3 Fuel Inventory	Fuel Inv Attachement for Set 2, Q3
U-21297-STDT-02R ATT 2.3 Fuel Inventory Confidential	Confidential Fuel Inv Attachment Set 2, Q3
U-21297-STDT-02R ATT 2.3 Fuel Inv CONF	** same as above just abbreviated differently
U-21297-STDT-12R ATT 12.1a Inf Rate Jan	January Inflation info for Set 12, Q1a
U-21297-STDT-12R ATT 12.1b Inf Rate Feb	February Inflation info for Set 12, Q1b
U-21297-STDT-12R ATT 12.7 Project List	Project List for Set 12, Q7
U-20359-IM-AG-03R ATT 185 Hist ROE	I&M response w/ historial ROE attachment to AG Set 3, Q185

Company Name
Exhibits and Schedules for Rate Case Filing Requirements

Exhibit	Schedule	Title
Part I		
HISTORICAL YEAR EXHIBITS		
A-1	A1	Revenue Deficiency (Sufficiency)
A-1	A2	Historical Financial Metrics
A-2	B1	Rate Base
A-2	B2	Utility Plant
A-2	B3	Depreciation Reserve and Other Deductions
A-2	B4	Working Capital
A-3	C1	Adjusted Net Operating Income
A-3	C2	Revenue Conversion Factor
A-3	C3	Historical Operating Revenue
A-3	C4	Historical Fuel and Purchased Power/Cost of Gas Sold
A-3	C5	Historical Operation and Maintenance Expenses
A-3	C6	Depreciation and Amortization Expenses
A-3	C7	General Taxes
A-3	C8	Federal Income Taxes
A-3	C9	State Income Taxes
A-3	C10	Other (or Local) Taxes
A-3	C11	Allowance for Funds Used During Construction
A-4	D1	Rate of Return Summary
A-4	D2	Cost of Long-Term Debt
A-4	D3	Cost of Short-Term Debt
A-4	D4	Cost of Preferred Stock
A-4	D5	Cost of Common Shareholders' Equity
A-5	E1 - E?	Sales, Load and Customer Data
PROJECTED TEST YEAR EXHIBITS		
A-11	A1	Projected Revenue Deficiency (Sufficiency)
A-11	A2	Projected Financial Metrics
A-12	B1	Projected Rate Base
A-12	B2	Projected Utility Plant
A-12	B3	Projected Accumulated Provision for Depreciation
A-12	B4	Projected Working Capital
A-12	B5	Projected Capital Expenditure Summary and Supporting Exhibits
A-13	C1	Projected Net Operating Income
A-13	C2	Revenue Conversion Factor
A-13	C3	Projected Sales Revenue
A-13	C4	Projected Fuel and Purchased Power/Cost of Gas Sold
A-13	C5	Projected Operation and Maintenance Expenses
A-13	C6	Projected Depreciation and Amortization Expenses
A-13	C7	Projected General Taxes
A-13	C8	Projected Federal Income Taxes
A-13	C9	Projected State Income Taxes
A-13	C10	Projected Other (or Local) Taxes
A-13	C11	Projected Allowance for Funds Used During Construction
A-14	D1	Projected Rate of Return Summary
A-14	D2	Cost of Long-Term Debt
A-14	D3	Cost of Short-Term Debt
A-14	D4	Cost of Preferred Stock
A-14	D5	Cost of Common Shareholders' Equity
A-15	E1 - E?	Sales, Load and Customer Data
A-16	F1	Projected Cost of Service Allocation Study
A-16	F2	Summary of Present and Proposed Revenues
A-16	F3	Detail of Present and Proposed Revenues
A-16	F4	Comparison of Present and Proposed Monthly Bills
A-16	F5	Proposed Tariff Sheets
Part II		Supporting Data (MPSC Annual Report, 10-K, Parent Annual Report etc)
Part III		Supplemental Data

Schedule A-1

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-1
Revenue Deficiency (Sufficiency)	Schedule: A-1
for the Historical Year Ended December 31, 20XX	Page: 1 of 1
	Witness:

Line No.	(a) Description	(b) Source	(c) Total ($000)
1			
2	Rate Base	Exh. A-2, Sch.B1	
3			
4	Adjusted Net Operating Income	Exh. A-3), Sch. C1	
5			
6	Overall Rate of Return	Line 4 ÷ Line 2	
7			
8	Required Rate of Return	Exh. A-4, Sch. D1	
9			
10	Income Requirements	Line 2 x Line 8	
11			
12	Income Deficiency (Sufficiency)	Line 10 - Line 4	
13			
14	Revenue Conversion Factor	Exh. A-3, Sch. C2	
15			
16	Revenue Deficiency (Sufficiency)	Line 12 x Line 14	$

Schedule A-2

Michigan Public Service Commission
Company Name
Financial Metrics- Financial Basis

Case No.: U-XXXXX
Exhibit No. A-1
Schedule: A-2

Witness:

	(a)	(b)	(c)	(d)	(e)	(f)
		Calendar Year				
Line No.	**Description**	**20xx**	**20xx**	**20xx**	**20xx**	**20xx**
1	Operating Revenue	$	$	$	$	$
2	Operating Expenses					
3	Pre-Tax Operating Income					
4	Income Taxes					
5	Net Operating Income					
6	Other Income and Deductions					
7	AFUDC					
8	Interest Charges					
9	Preferred Stock Dividends					
10	Net Income Available for Common					
11	Average Common Equity					
12	Earned Rate of Return on Common Equity					
13	Authorized Rate of Return on Common Equity					

Schedule A-2

Michigan Public Service Commission
Company Name
Financial Metrics- Financial Basis

Case No.: U-XXXXX
Exhibit No. A-1
Schedule: A-2
Page: 2 of 6
Witness:

	(a)	(b)	(c)	(d)	(e)	(f)
				Calendar Year		
Line	Description	20XX	20XX	20XX	20XX	20XX
	EBIT Interest Coverage Ratio					
14	Pre-Tax Operating Income	$	$	$	$	$
15	Other Income and Deductions					
16	AFUDC					
17	Total EBIT					
18	Interest Charges					
19	EBIT Interest Coverage Ratio					
	EBITDA Interest Coverage Ratio					
20	Total EBIT					
21	Depreciation and Amortization					
22	Total EBIDTA					
23	Interest Charges					
24	EBIDTA Interest Coverage Ratio					
	Funds Flow from Operations (FFO) Interest Coverage Ratio					
25	Net Operating Income					
26	Depreciation and Amortization					
27	Deferred Income Tax					
28	AFUDC					
29	Other Major Recurring Non-Cash Items					
30	Interest Paid					
31	Less:					
32	Operating Lease Adjustment to Depreciation					
33	Subtotal					
34	Interest Charges					
35	FFO Interest coverage Ratio					

Schedule A-2

Michigan Public Service Commission
Company Name
Financial Metrics- Financial Basis

Case No.: U-XXXXX
Exhibit No. A-1
Schedule: A-2
Page: 3 of 6
Witness:

	(a)	(b)	(c)	(d)	(e)	(f)
		Calendar Year				
Line	**Description**	**20XX**	**20XX**	**20XX**	**20XX**	**20XX**
	Overall Fixed Charge Coverage Ratio	$	$	$	$	$
36	Net Income Available for Common					
37	Interest Charges					
38	Subtotal Numerator					
39	Interest Charges					
40	Preferred Stock Dividends					
41	Subtotal Denominator					
42	Overall Fixed Charge and Coverage Ratio					
	Cash Flow Coverage of Dividends Ratio					
43	Net Income Available for Common					
44	Depreciation and Amortization					
45	Deferred Taxes					
46	Subtotal					
47	Common Dividends					
48	Cash Flow Coverage of Dividends Ratio					
	Common Dividend Payout Ratio					
49	Common Diidends					
50	Net Income Available for Common					
51	Common Dividend Payout Ratio					
	Permanent Capitalization					
52	Long Term Debt					
53	Preferred Stock					
54	Common Equity					
55	Total Permanent Capital					
56	Long Term Debt					
57	Preferred Stock					
58	Common Equity					
59	Total Permanent Capital	%	%	%	%	%

Schedule A-2

Michigan Public Service Commission
Company Name
Financial Metrics- Ratemaking Basis

Case No.: U-XXXXX
Exhibit No. A-1
Schedule: A-2
Page: 4 of 6
Witness:

	(a)	(b)	(c)	(d)	(e)	(f)
		Calendar Year				
Line	**Description**	**20XX**	**20XX**	**20XX**	**20XX**	**20XX**
60	Operating Revenue	$	$	$	$	$
61	Operating Expense					
62	Pre-Tax Operating Income					
63	Income Taxes					
64	Net Operating Income					
65	Tax Impact of Pro-Forma Interst on NOI					
66	AFUDC					
67	Interest Charges					
68	Preferred Stock Dividends					
69	Net Income Available for Common and JDITC					
70	Return Assignable to JDITC					
71	Net Income Avaliable for Common					
72	Average Common Equity					
73	Earned Rate of Return on Common Equity					
74	Authorized Return on Equity	%	%	%	%	%

Schedule A-2

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No. A-1
Financial Metrics- Ratemaking Basis	Schedule: A-2
	Page: 5 of 6
	Witness:

	(a)	(b)	(c)	(d)	(e)	(f)
				Calendar Year		
Line	**Description**	**20XX**	**20XX**	**20XX**	**20XX**	**20XX**
	EBIT Interest Coverage Ratio					
75	Pre-Tax Operating Income	$	$	$	$	$
76	AFUDC					
77	Total EBIT					
78	Interest Charges					
79	EBIT Interest Coverage Ratio					
	EBITDA Interest Coverage Ratio					
80	Total EBIT					
81	Deprecisation and Amortization					
82	Total EBIDTA					
83	Interest Charges					
84	EBITDA Interest Coverage Ratio					
	Funds Flow from Operations (FFO) Interest Coverage Ratio					
85	Net Operating Income					
86	Depreciation and Amortization					
87	Deferred Income Tax					
88	AFUDC					
89	Other Major Recurring Non-Cash Items					
90	Interest Paid					
91	Less:					
92	Operating Lease Adjustment					
93	Subtotal					
94	Interest Charges					
95	FFO Interest Coverage Ratio					
	Overall Fixed Charge Coverage Ratio					
96	Net Income Available for Common					
97	Interest Charges					
98	Subtotal Numerator					
99	Interest Charges					
100	Preferred Stock Dividends					
101	Subtotal Denominator					
102	Overall Fixed Charge Coverage Ratio					

Schedule A-2

Michigan Public Service Commission
Company Name
Financial Metrics- Ratemaking Basis

Case No.: U-XXXXX
Exhibit No. A-1
Schedule: A-2

Witness:

	(a)	(b)	(c)	(d)	(e)	(f)
		Calendar Year				
Line	**Description**	**20XX**	**20XX**	**20XX**	**20XX**	**20XX**
	Cash Flow Coverage of Dividends Ratio	$	$	$	$	$
103	Net Income Available for Common					
104	Depreciation and Amortization					
105	Deferred Taxes					
106	Subtotal					
107	Common Dividends					
108	Cash Flow Coverage of Dividends Ratio					
	Common Dividend Payout Ratio					
109	Common Dividends					
110	Net Income Available for Common					
111	Common Dividend Payout Ratio					
	Permanent Capitalization					
112	Long Term Debt (Excluding Securitization)					
113	Preferred Stock					
114	Common Equity					
115	Total Permanent Capital					
116	Long Term Debt (Excluding Securitization)					
117	Preferred Stock					
118	Common Equity					
119	Total Permanent Capital	%	%	%	%	%

Schedule B-1

Michigan Public Service Commission
Company Name
Historical Rate Base
For the Historical Year Ended

Case No.: U-XXXXX
Exhibit No.: A-2
Schedule: B-1
Page: 1 of 1
Witness:

Line No.	(a) Description	(b) Source	(c) Rate Base ($000)
1			
2	Plant in Service	Exh A-2, Sch B2	
3	Plant Held for Future Use	Exh A-2, Sch B2	
4	Construction Work in Progress	Exh A-2, Sch B2	
5	Total Utility Plant		$
6			
7	Less: Depreciation Reserve	Exh A-2, Sch B3	
8			
9	Net Utility Plant		$
10			
11	Net Capital Lease Property		
12			
13	Total Utillity Property and Plant		$
14			
15	Less: Capital Lease Obligations		
16			
17	Net Plant		$
18			
19	Allowance for Working Capital	Exh A-2, Sch B4	
20			
21	Total Historical Period Rate Base		$

Schedule B-2

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-2
Total Utility Plant		Schedule:	B-2
For the Historical Year Ended		Page:	1 of 1
		Witness:	

Line No.	(a) **Description**	(b) **MPSC Account Number**	(c) **Utility Plant ($000)**
1			
2	Plant in Service	101	
3	Plant purchased or sold	102	
4	Experimental plant unclassified	103	
5	Plant leased to others	104	
6	Completed Construction not classified	106	
7	Plant in Service		$
8			
9	Plant held for future use	105	
10			
11	Construction work in progress	107	
12			
13	Total Historical Period Utility Plant		$

Schedule B-3

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-2
Depreciation Reserve and Other Deductions		Schedule:	B-3
For the Historical Year Ended		Page:	1 of 1
		Witness:	

Line No.	(a) **Description**	(b) **Historical Accumulated Provision for Depreciation ($000)**
	Total Historical Period Accumulated Provision for Depreciation	$

Schedule B-4

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-2
Working Capital		Schedule:	B-4
For the Historical Year Ended		Page:	1 of 1
		Witness:	

Line No.	(a) Description	(b) **Working Capital ($000)**
1		
2	Assets	
	Total Assets	$
	Liabilities	
	Total Liabililties	$
	Working Capital	$

Schedule C-1

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-3
Adjusted Net Operating Income	Schedule: C-1
for the Historical Year Ended December 31, 20XX	Page: 1 of 1
	Witness:

Line No.	(a) Description	(b) Source	(c) Net Operating Income ($000)
1			
2	**Operating Revenues**		
3			
4	**Operating Expenses**		
5	Fuel and Purchased Power (Electric Only)		
6	Operations and Maintenance Expenses		
7	Depreciation and Amortization		
8	General Taxes		
9	Income Taxes		
10	Total Operating Expenses		$
11			
12	**Operating Income**		
13			
14	**Operating Income Adjustments**		
15	Allowances for Funds Used During Construction		
16	Loss on Reacquired Securities		
17	Income Tax Effect of Interest		
18	Interest Synchronization Adjustments		
19	Total Operating Income Adjustments		$
20			
21	**Adjusted Net Operating Income**		$

Schedule C-2

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-3
Revenue Conversion Factor		Schedule:	C-2
for the Historical Year Ended December 31, 20XX		Page:	1 of 1
		Witness:	

	(a)	(b)	(c)
Line No.	**Description**	**Calc. Logic/Source**	**Amount**

Schedule C-3

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-3
Historical Operating Revenue		Schedule:	C-3
for the Historical Year Ended December 31, 20XX		Page:	1 of 1
		Witness:	

	(a)	(b)	(c)
Line No.	**Description**	**Source**	**Sales Revenue ($000)**

Schedule C-4

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-3
Historical Fuel and Purchased Power/Cost of Gas Sold	Schedule: C-4
for the Historical Year Ended December 31, 20XX	Page: 1 of 1
	Witness:

Line No.	(a) **Description**	(b) **Source**	(c) **Fuel and Purchased Power ($000)**

Schedule C-5

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-3
Historical Operation and Maintenance Expenses		Schedule:	C-5
for the Historical Year Ended December 31, 20XX		Page:	1 of 1
		Witness:	

	(a)	(b)	(c)
Line No.	**Description**	**Source**	**Operation and Maintenance Expenses ($000)**

Schedule C-6

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-3
Depreciation and Amortization Expenses		Schedule:	C-6
for the Historical Year Ended December 31, 20XX		Page:	1 of 1
		Witness:	

	(a)	(b)	(c)
Line No.	**Description**	**Source**	**Depreciation & Amortization Expense ($000)**

Schedule C-7

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-3
General Taxes	Schedule: C-7
for the Historical Year Ended December 31, 20XX	Page: 1 of 1
	Witness:

Line No.	(a) **Description**	(b) **Source**	(c) **General Taxes ($000)**

Schedule C-8

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-3
Federal Income Taxes		Schedule:	C-8
for the Historical Year Ended December 31, 20XX		Page:	1 of 1
		Witness:	

	(a)	(b)	(c)
Line No.	**Description**	**Source**	**Federal Income Taxes ($000)**

Schedule C-9

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-3
State Income Taxes	Schedule: C-9
for the Historical Year Ended December 31, 20XX	Page: 1 of 1
	Witness:

Line No.	(a) **Description**	(b) **Source**	(c) **State Income Taxes ($000)**

Schedule C-10

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-3
Other (or Local) Taxes		Schedule:	C-10
for the Historical Year Ended December 31, 20XX		Page:	1 of 1
		Witness:	

	(a)	(b)	(c)
Line No.	**Description**	**Source**	**Other (or Local) Taxes ($000)**

Schedule C-11

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-3
Allowance for Funds Used During Construction	Schedule: C-11
for the Historical Year Ended December 31, 20XX	Page: 1 of 1
	Witness:

	(a)	(b)	(c)
Line No.	**Description**	**Source**	**AFUDC ($000)**

Schedule D-1

Michigan Public Service Commission
Company Name
Overall Rate of Return Summary
for the Historical Year Ended December 31, 20XX

Case No.: U-XXXXX
Exhibit No.: A-4
Schedule: D-1
Page: 1 of 1
Witness:

	(a)	(b)	(c)	(d)	(e)		(f)	(g)	(h)	(i)
		Capital Structure					Weighted Cost			
Line No.	Description	Amount ($000) (1)	Percent Permanent Capital (2)	Percent of Total Capital	Cost Rate %		Permanent Capital (2)	Total Cost %	Conversion Factor	Pre-Tax Return
1										
2	Long-Term Debt					(3)				
3										
4	Preferred Stock					(4)				
5										
6	Common Shareholders' Equity					(5)				
7										
8	Total Permanent Capital									
9										
10	Short-Term Debt					(6)				
11										
12	Job Development- ITC-Debt									
13	Job Development- ITC Equity									
14	Total Job Development- ITC									
15										
16	Deferred Income Taxes (Net)- MBT									
17										
18	Deferred Income Taxes (Net)- Federal									
19										
20	Total									

(1) see Exh. A-2, Sch. B2
(2) Excludes Short-Term Debt, Deferred Job Development Investment Tax Credit, Deferred Investment Tax Credit, and Deferred Income Taxes to calculate the rate of return for Job Development Investment Tax Credit purposes in accordance with Internal Revenue Service Income Tax Regulation Section 1.46-6
(3) See Exh. A-4, Sch. D2
(4) See Exh, A-4, Sch. D4
(5) See Exh, A-4, Sch. D5
(6) See Exh, A-4, Sch. D3

Schedule D-2

Case No.:	U-XXXXX
Exhibit No.:	A-4
Schedule:	D-2
Page:	1 of 1
Witness:	

Michigan Public Service Commission
Company Name
Cost of Long-Term Debt
for the Historical Year Ended December 31, 20XX

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
Line No.	Description	Original Issue Date	Stated Maturity Date	Interest Rate (%)	Amount of Offering ($000)	Price to Public (%)	Underwriting & Financing Expenses (%)	Net Proceeds to the Company (%)	Cost Based on Net Proceeds (%)	Amount Outstanding ($000)	Annual Cost ($000)
1											
2	**Mortgage Bonds**									$	
3											
4											
5											
6											
7											
8	Total Mortgage Bonds									$	
9											
10	**Other Long-Term Debt**										
11										$	
12											
13											
14	Total Other Long-Term Debt									$	
15											
16	Total Long-Term Debt									$	
17											
18	Unamortized Debt Discount, Premium, and Expense										
19											
20	Total Long-Term Debt Balance									$	

Schedule D-3

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-4
Cost of Short-Term Debt	Schedule: D-3
for the Historical Year Ended December 31, 20XX	Page: 1 of 1
	Witness:

Line No.	(a) **Month**	(b) **Balance Outstanding ($000)**	(c) **Total Cost ($000)**
1			
2	Commercial Paper	$	$
3			
4	Inter-Company Loans		
5			
6	Letter of Credit		
7			
8	Other		
9			
10	Total	$	$
11			
12	Average Cost of Short-Term Debt		$

Schedule D-4

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-4
Cost of Preferred Stock	Schedule: D-4
for the Historical Year Ended December 31, 20XX	Page: 1 of 1
	Witness:

Line No.	(a) Description	(b) Annual Dividend ($000)	(c) Par Value	(d) Discount or Premium ($000)	(e) Finance Expenses ($000)	(f) Net Proceeds Received ($000)	(g) Number of Shares Outstanding ($000)	(h) Total Value of Outstanding Proceds ($000)	(i) Cost Rate (%)	(j) Annual Dollar Amount ($000)

Schedule D-5

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-4
Cost of Common Shareholders' Equity		Schedule:	D-5
for the Historical Year Ended December 31, 20XX		Page:	1 of 1
		Witness:	

Schedule E-1

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-5
Annual Service Area Sales by Major Customer Classes and System Output	Schedule: E-1
5-Year Historical	Page: 1 of 1
	Witness:

							Losses and Company Use		
Line No.	**Year**	**Residential**	**Commercial**	**Industrial**	**Other**	**Total**	**Millions Unit of Measure**	**% of Output**	**System Output Unit of Measure**
1	Year 1								
2	Year 2								
3	Year 3								
4	Year 4								
5	Year 5								

Schedule A-1

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-11
Revenue Deficiency (Sufficiency)		Schedule:	A-1
Projected 12 Month Period Ending xxxx		Page:	1 of 1
		Witness:	

	(a)	(b)	(c)
Line No.	**Description**	**Source**	**Total ($000)**
1			
2	Rate Base	Exh. A-12, Sch.B1	
3			
4	Adjusted Net Operating Income	Exh. A-13, Sch. C1	
5			
6	Overall Rate of Return	Line 4 ÷ Line 2	
7			
8	Required Rate of Return	Exh. A-14, Sch. D1	
9			
10	Income Requirements	Line 2 x Line 8	
11			
12	Income Deficiency (Sufficiency)	Line 10 - Line 4	
13			
14	Revenue Conversion Factor	Exh. A-13, Sch. C2	
15			
16	Revenue Deficiency (Sufficiency)	Line 12 x Line 14	

Schedule A-2

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-11
Financial Metrics- Ratemaking Basis		Schedule:	A-2
		Page:	1 of 3
		Witness:	

	(a)	(b)	(c)
		Fiscal Year	
Line No.	**Description**	**No Rate Relief Month/Year**	**Full Rate Relief Month/Year**
1	Operating Revenue	$	$
2	Operating Expense		
3	Pre-Tax Operating Income		
4	Income Taxes		
5	Net Operating Income		
6	Tax Impact of Pro-Forma Interest on NOI		
7	AFUDC		
8	Interest Charges		
9	Preferred Stock Dividends		
10	Net Income Available for Common and JDITC		
11	Return Assignable to JDITC		
12	Net Income Available for Common		
13	Average Common Equity		
14	Earned Rate of Return on Common Equity		
15	Authorized Return on Common Equity	%	%

Schedule A-2

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-11
Financial Metrics- Ratemaking Basis		Schedule:	A-2
		Page:	2 of 3
		Witness:	

	(a)	(b)	(c)
		Fiscal Year	
Line No.	Description	No Rate Relief Month/Year	Full Rate Relief Month/Year
	EBIT Interest Coverage Ration		
16	Pre-Tax Operating Income	$	$
17	AFUDC		
18	Total EBIT		
19	Interest Charges, Net of Tax Benefit		
20	EBIT Interest Coverage Ratio		
	EBITDA Interest Coverage Ratio		
21	Total EBIT		
22	Depreciation and Amortization		
23	Total EBITDA		
24	Interest Charges, Net of Tax Benefit		
25	EBITDA Interest Coverage Ratio		
	Funds Flow from Operations (FFO) Interest Coverage Ratio		
26	Net Operating Income		
27	Depreciation and Amortization		
28	Deferred Income Tax		
29	AFUDC		
30	Other Major Recurring Non-Cash Items		
31	Interest Paid		
	Less:		
32	Operating Lease Adjustment to Depreciation		
33	Subtotal		
34	Interest Charges, Net of Tax Benefit		
35	FFO Interest Coverage Ratio		
	Overall Fixed Charge Coverage Ratio		
36	Net Income Available for Common		
37	Interest Charges, Net of Tax Benefit		
38	Subtotal Numerator		
39	Interest Charges		
40	Preferred Stock Dividends		
41	Subtotal Denominator		
42	Overall Fixed Charge Coverage Ratio		

Schedule A-2

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-11
Financial Metrics- Ratemaking Basis		Schedule:	A-2
		Page:	3 of 3
		Witness:	

	(a)	(b)	(c)
		Fiscal Year	
Line No.	**Description**	**No Rate Relief Month/Year**	**Full Rate Relief Month/Year**
	Cash Flow Coverage of Dividend Ratio		
43	Net Income Available for Common	$	$
44	Depreciation and Amortization		
45	Deferred Taxes		
46	Subtotal		
47	Common Dividends		
48	Cash Flow Coverage of Dividends Ratio		
	Common Dividend Payout Ratio		
49	Common Dividends		
50	Net Income Available for Common		
51	Common Dividend Payout Ratio		
	Permanent Capitalization		
52	Long Term Debt (Excluding Securitization)		
53	Preferred Stock		
54	Common Equity		
55	Total Permanent Capital		
56	Long Term Debt		
57	Preferred Stock		
58	Common Equity		
59	Total Permanent Capital	%	%

Schedule B-1

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-12
Projected Rate Base		Schedule:	B-1
Projected 12 Month Period Ending xxxx		Page:	1 of 1
		Witness:	

Line No.	(a) **Description**	(b) **Source**	(c) **Rate Base ($000)**
1			
2	Plant in Service	Ex A-12, Sch B2	
3	Plant Held for Future Use	Ex A-12, Sch B2	
4	Construction Work in Progress	Exh A-12, Sch B2	
5	Total Utility Plant		
6			
7	Less: Depreciation Reserve	Exh A-12, Sch B3	
8			
9	Net Utility Plant		
10			
11	Net Capital Lease Property		
12			
13	Total Utillity Property and Plant		
14			
15	Less: Capital Lease Obligations		
16			
17	Net Plant		
18			
19	Allowance for Working Capital	Exh A-12, Sch B4	
20			
21	Total Projected Test Period Rate Base		$

Schedule B-2

Michigan Public Service Commission
Company Name
Total Utility Plant
Projected 12 Month Period Ending xxxx

Case No.: U-XXXXX
Exhibit No.: A-12
Schedule: B-2
Page: 1 of 1
Witness:

	(a)	(b)	(c)
Line No.	**Description**	**MPSC Account Number**	**Projected Utility Plant ($000)**
1			
2	Plant in Service	101	
3	Plant purchased or sold	102	
4	Experimental plant unclassified	103	
5	Plant leased to others	104	
6	Completed Construction not classified	106	
7	Plant in Service		$
8			
9	Plant held for future use	105	
10			
11	Construction work in progress	107	
12			
13	Total Projected Period Utility Plant		$

Schedule B-3

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-12
Depreciation Reserve and Other Deductions		Schedule:	B-3
Projected 12 Month Period Ending xxxx		Page:	1 of 1
		Witness:	

Line No.	(a) **Description**	(b) **Projected Accumulated Provision for Depreciation ($000)**
	Total Projected Period Accumulated Provision for Depreciation	$

Schedule B-4

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-12
Working Capital		Schedule:	B-4
Projected 12 Month Period Ending xxxx		Page:	1 of 1
		Witness:	

Line No.	(a) **Description**	(b) **Projected Working Capital ($000)**
1		
2	Assets	
	Total Assets	$
	Liabilities	
	Total Liabililties	$
	Total Projected Working Capital	$

Schedule B-5

Miscellaneous Utility
Case No. U-xxxx

Capital Expenditures Exhibit Index

hyperlinked	Title	Witness
	Test Period Capital Expenditures	
A-12 B5	Summary	xxxxx
A-12 B5.1 p.1	Power Generation Summary	xxxxx
A-12 B5.1 p.2	Routine and Big	xxxxx
A-12 B5.2	Capital Expenditures - Ship and Train	xxxxx
A-12 B5.3 p.1	Nuclear Production Plant & Nuclear Fuel	xxxxx
A-12 B5.4 p.1	Distribution Plant	xxxxx
A-12 B5.5	Advanced Metering Infrastructure (AMI)	xxxxx
A-12 B5.6	Corporate Staff Summary	xxxxx

Schedule B-5

Michigan Public Service Commission
Miscellaneous Utility
Projected Capital Expenditures
Summary
($000)

Case No.: U-xxxx
Exhibit: A-12
Schedule: B5
Witness: xxxxx
Page: 1 of 1

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Capital Expenditures							
		Historical	Projected Bridge Year			Projected Test Year		Last Rate Case Approved Spending Plan U-xxxxx	Actual Spending Test Year U-xxxxx
Line No.	Description	12 mos. ended 12/31/20ww	12 mos. ending 12/31/20xx	10 mos. ending 10/31/20yy	22 mos. ending 10/31/20yy	12 mos. ending 10/31/20zz	Reference	12 mos. Ended 12/31/20xx	12 mos. Ended 12/31/20xx
					col. (c)+(d)				
1	Production Plant:								
2	Steam	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	Exh A-12, Sch B5.1	xxxxx	xxxxx
3	Hydraulic	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	Exh A-12, Sch B5.1	xxxxx	xxxxx
4	Other	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	Exh A-12, Sch B5.1	xxxxx	xxxxx
5	Ship / Train	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	Exh A-12, Sch B5.2	xxxxx	xxxxx
6	Nuclear (including Nuclear Fuel)	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	Exh A-12, Sch B5.3	xxxxx	xxxxx
7	Distribution	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	Exh A-12, Sch B5.4	xxxxx	xxxxx
8	Automated Metering Infrastructure (AMI)	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	Exh A-12, Sch B5.5	xxxxx	xxxxx
9	Corporate Staff	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	Exh A-12, Sch B5.6	xxxxx	xxxxx
10	Total Capital Expenditures	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx		xxxxx	xxxxx

Schedule B-5.1

Michigan Public Service Commission
Miscellaneous Utility
Projected Capital Expenditures
Steam, Hydraulic and
Other Power Generation
($000)

Case No.: U-xxxx
Exhibit: A-12
Schedule: B5.1
Witness: xxxxx
Page: 1 of 2

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
		Capital Expenditures					
		Historical	Projected Bridge Year			Projected Test Year	
Line No.	Description	12 mos. ended 12/31/20ww	12 mos. ending 12/31/20xx	10 mos. ending 10/31/20yy	22 mos. ending 10/31/20yy	12 mos. ending 10/31/20zz	Reference
					col. (c)+(d)		
1	**Steam Power Generation**						
2	Routine	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	Exh A-12, B5.1 page 2
3	Non-Routine Steam Power	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
4	Non-Routine Environmental	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
5	Total Steam Production	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
6	**Hydraulic Production Plant**						
7	Routine	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	Exh A-12, B5.1 page 2
8	Non-Routine	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
9	Total Hydraulic Production	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
10	**Other Production Plant**						
11	Routine	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	Exh A-12, B5.1 page 2
12	Non-Routine	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
13	Total Other Production	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
14	Grand Total	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	

Schedule B-5.1

Michigan Public Service Commission
Miscellaneous Utility
Projected Capital Expenditures
Steam, Hydraulic, and
Other Power Generation
($000)

Case No.: U-xxxx
Exhibit: A-12
Schedule: B5.1
Witness: xxxxx

	(a)	(b)	(c)	(d)	(e)	(f)
		Capital Expenditures				
		Historical	**Projected Bridge Year**			**Projected Test Year**
Line No.		**12 mos. ended 12/31/20ww**	**12 mos. ending 12/31/20xx**	**10 mos. ending 10/31/20yy**	**22 mos. ending 10/31/20yy**	**12 mos. ending 10/31/20zz**
	Total Capital - Routine				*col. (c)+(d)*	
1	Unit 1	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
2	Unit 2	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
3	Unit 3	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
4	Unit 4	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
5	Unit 5	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
6	Unit 6	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
7	Unit 7	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
8	Subtotal Steam Power Generation	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
9	Hydro	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
10	Peakers	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
11	Total by Plant	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
	Total Capital - Big					
12	Big Project 1	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
13	Big Project 2	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
14	Big Project 3	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
15	Big Project 4	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
16	Big Project 5	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
17	Big Project 6	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
18	Total by Major Project	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx

Schedule B-5.2

Michigan Public Service Commission
Miscellaneous Utility
Projected Capital Expenditures
Ship Co.
($000)

Case No.: U-xxxx
Exhibit No.: A-12
Schedule: B5.2
Witness: xxxxx
Page: 1 of 1

	(a)	(b)	(c)	(d)	(e)	(f)
		Capital Expenditures				
		Historical	**Projected Bridge Year**			**Projected Test Year**
Line No.	**Description**	**12 mos. ended 12/31/20ww**	**12 mos. ending 12/31/20xx**	**10 mos. ending 10/31/20yy**	**22 mos. ending 10/31/20yy**	**12 mos. ending 10/31/20zz**
					col. (c)+(d)	
1	Ship Co.:					
2	Small Project 1	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
3	Small Project 2	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
4	Small Project 3	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
5	Small Project 4	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
6	Small Project 5	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
7	Small Project 6	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
8	Small Project 7	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
9	Small Project 8	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
10	Small Project 9	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
11	Small Project 10	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
12	Small Project 11	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
13	Small Project 12	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
14	Small Project 13	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
15	Small Project 14	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
16	Small Project 15	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
17	Small Project 16	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
18	Small Project 17	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
19	Total Ship Co.	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
20	Train Co.					
21	Railcar truck rebuilds	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
22	Total Train Co.	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
23	**Total Ship Co. and Train Co.**	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx

Schedule B-5.3

Michigan Public Service Commission
Miscellaneous Utility
Projected Capital Expenditures
Nuclear Production Plant & Nuclear Fuel
($000)

Case No.: U-xxxx
Exhibit: A-12
Schedule: B5.3
Witness: xxxxx

	(a)	(b)	(c)	(d)	(e)	(f)
		Capital Expenditures				
		Historical	**Projected Bridge Year**			**Projected Test Year**
Line No.	**Description**	**12 mos. ended 12/31/20ww**	**12 mos. ending 12/31/20xx**	**10 mos. ending 10/31/20yy**	**22 mos. ending 10/31/20yy**	**12 mos. ending 10/31/20zz**
					col. (c)+(d)	
1	**Nuclear Production Plant**					
2	Routine and Small Projects	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
3	Non-Routine and Large Projects	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
4	Total Projects	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
5	**Nuclear Fuel**					
6	Uranium	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
7	Conversion	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
8	Enrichment	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
9	Fabrication	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
10	Total Nuclear Fuel	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
11	**Total Capital Expenditures**	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx

Schedule B-5.4

Michigan Public Service Commission
Miscellaneous Utility
Projected Capital Expenditures
Distribution Plant
($000)

Case No.: U-xxxx
Exhibit: A-12
Schedule: B5.4
Witness: xxxxx
Page: 1 of 1

	(a)	(b)	(c)	(d)	(e)	(f)
		Capital Expenditures				
						Projected Test Year
		Historical	**Projected Bridge Year**			
Line No.	**Description**	**12 mos. ended 12/31/20ww**	**12 mos. ending 12/31/20xx**	**10 mos. ending 10/31/20yy**	**22 mos. ending 10/31/20yy**	**12 mos. ending 10/31/20zz**
					col. (c)+(d)	
	Capital Expenditures					
1	New Business:					
2	Customer Connections	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
3	Meters	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
4	Transformers	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
5	Customer Advances for Construction	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
6	Total New Business	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
7	System Strengthening and Reliability:					
8	Reliability	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
9	General Load Growth	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
10	New Business Specific Projects	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
11	Major Equipment	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
12	Substation/Station Improvement	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
13	Customer Advances for Construction	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
14	Subtotal System Strengthening and Reliability	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
15	System Strengthening Blankets:					
16	Increased Loads	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
17	System Improvements	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
18	Relocations	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
19	Normal Retirement Unit Changeouts	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
20	Emergency Retirement Unit Changeouts and Storm	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
21	Subtotal System Strengthening Blankets	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
22	Total System Strengthening, Reliability and Blankets	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
23	Miscellaneous					
24	Other Miscellaneous	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
25	**Total Capital**	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx

by FERC USoA Bucket if possible

Schedule B-5.4

Michigan Public Service Commission	Case No.: U-xxxx
Miscellaneous Utility	Exhibit: A-12
Projected Capital Expenditures	Schedule: B5.4
WORKPAPER SYSTEM STRENGTH/RELIABILITY	Witness: xxxxx
($000)	Page: 1 of 1

	(a)	(b)	(c)	(d)	(e)	(f)
		Capital Expenditures				
		Historical	**Projected Bridge Year**			**Projected Test Year**
Line No.	**Description**	**12 mos. ended 12/31/20ww**	**12 mos. ending 12/31/20xx**	**10 mos. ending 10/31/20yy**	**22 mos. ending 10/31/20yy**	**12 mos. ending 10/31/20zz**
					col. (c)+(d)	
	Capital Expenditures					
1	System Strengthening and Reliability:					

Projects Over $5 million dollars (with spend in test year)

Project #1					
Project #2					

Projects Under $5 Million

Bucket 1					
Bucket 2					
Bucket 3					
Bucket 4					
Bucket 5					
Bucket 6					

Schedule B-5.5

Michigan Public Service Commission
Miscellaneous Utility
Projected Capital Expenditures
Advanced Metering Infrastructure (AMI)
($000)

Case No.: U-xxxx
Exhibit: A-12
Schedule: B5.5
Witness: xxxxx
Page: 1 of 1

	(a)	(b)	(c)	(d)	(e)	(f)
		Capital Expenditures				
		Historical	**Projected Bridge Year**			**Projected Test Year**
Line No.	**Description**	**12 mos. ended 12/31/20ww**	**12 mos. ending 12/31/20xx**	**10 mos. ending 10/31/20yy**	**22 mos. ending 10/31/20yy**	**12 mos. ending 10/31/20zz**
1	Advanced Metering Infrastructure				*col. (c)+(d)*	
2	Meters	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
3	Network	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
4	Project Management Office	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
5	Information Technology	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
6	Corporate Overheads/Other	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
7	Total AMI Capital Expenditures	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx

Schedule B-5.6

Michigan Public Service Commission	Case No.: U-xxxx
Miscellaneous Utility	Exhibit: A-12
Projected Capital Expenditures	Schedule: B5.6
Corporate Staff	Witness: xxxxx
($000)	Page: 1 of 1

	(a)	(b)	(c)	(d)	(e)	(f)
		Capital Expenditures				
		Historical	**Projected Bridge Year**			**Projected Test Year**
Line No.	**Description**	**12 mos. ended 12/31/20ww**	**12 mos. ending 12/31/20xx**	**10 mos. ending 10/31/20yy**	**22 mos. ending 10/31/20yy**	**12 mos. ending 10/31/20zz**
					col. (c)+(d)	
1	Information Technology:					
2	Corporate Applications	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
3	Customer Service	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
4	Plant & Field	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
5	Shared Infrastructure	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
6	Subtotal Information Technology	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
7	NERC-Critical Infrastructure Program	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
8	Facilities Renovation	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
9	Service Center Optimization	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
10	Facilities-Construction & Upgrade	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
11	Electric Vehicle Fleet	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
12	Other Miscellaneous	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
13	Total Corporate Staff	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx

Schedule C-1

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-13
Adjusted Net Operating Income		Schedule:	C-1
Projected 12 Month Period Ending xxxx		Page:	1 of 1
		Witness:	

Line No.	(a) Description	(b) Source	(c) Net Operating Income ($000)
1			
2	**Operating Revenues**		
3			
4	**Operating Expenses**		
5	Fuel and Purchased Power (Electric Only)		
6	Operations and Maintenance Expenses		
7	Depreciation and Amortization		
8	General Taxes		
9	Income Taxes		
10	Total Operating Expenses		$
11			
12	**Operating Income**		
13			
14	**Operating Income Adjustments**		
15	Allowances for Funds Used During Construction		
16	Loss on Reacquired Securities		
17	Income Tax Effect of Interest		
18	Interest Synchronization Adjustments		
19	Total Operating Income Adjustments		$
20			
21	**Adjusted Net Operating Income**		$

Schedule C-2

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-13
Projected Revenue Conversion Factor	Schedule: C-2
	Page: 1 of 1
	Witness:

Line No.	(a) Description	(b) Calc. Logic/Source	(c) Amount

Schedule C-3

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-13
Projected Operating Revenue	Schedule: C-3
Projected 12 Month Period Ending xxxx	Page: 1 of 1
	Witness:

Line No.	(a) **Description**	(b) **Source**	(c) **Projected Sales Revenue ($000)**

Schedule C-4

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-13
Projected Fuel and Purchased Power/Cost of Gas Sold		Schedule:	C-4
Projected 12 Month Period Ending xxxx		Page:	1 of 1
		Witness:	

	(a)	(b)	(c)
Line No.	**Description**	**Source**	**Projected Fuel and Purchased Power ($000)**

Schedule C-5

Michigan Public Service Commission	Case No.:	U-XXXXX
Company Name	Exhibit No.:	A-13
Projected Operation and Maintenance Expenses	Schedule:	C-5
Projected 12 Month Period Ending xxxx	Page:	1 of 1
	Witness:	

Line No.	(a) **Description**	(b) **Source**	(c) **Historical Operation and Maintenance Expenses ($000)**	(d) **Change in Operation and Maintenance Expenses ($000)**	(e) **Projected Operation and Maintenance Expenses ($000)**

Schedule C-6

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-13
Projected Depreciation and Amortization Expenses		Schedule:	C-6
Projected 12 Month Period Ending xxxx		Page:	1 of 1
		Witness:	

Line No.	(a) **Description**	(b) **Source**	(c) **Projected Depreciation & Amortization Expense ($000)**

Schedule C-7

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-13
Projected General Taxes	Schedule: C-7
Projected 12 Month Period Ending xxxx	Page: 1 of 1
	Witness:

	(a)	(b)	(c)
Line No.	**Description**	**Source**	**Projected General Taxes ($000)**

Schedule C-8

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-13
Projected Federal Income Taxes		Schedule:	C-8
Projected 12 Month Period Ending xxxx		Page:	1 of 1
		Witness:	

Line No.	(a) **Description**	(b) **Source**	(c) **Projected Federal Income Taxes ($000)**

Schedule C-9

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-13
Projected State Income Taxes	Schedule: C-9
Projected 12 Month Period Ending xxxx	Page: 1 of 1
	Witness:

	(a)	(b)	(c)
Line No.	**Description**	**Source**	**Projected State Income Taxes ($000)**

Schedule C-10

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-13
Projected Other (or Local) Taxes	Schedule: C-10
Projected 12 Month Period Ending xxxx	Page: 1 of 1
	Witness:

Line No.	(a) **Description**	(b) **Source**	(c) **Projected Other (or Local) Taxes ($000)**

Schedule C-11

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-13
Projected Allowance for Funds Used During Construction	Schedule: C-11
Projected 12 Month Period Ending xxxx	Page: 1 of 1
	Witness:

	(a)	(b)	(c)
Line No.	**Description**	**Source**	**Projected AFUDC ($000)**

Schedule D-1

Michigan Public Service Commission
Company Name
Projected Rate of Return Summary

Case No.: U-XXXXX
Exhibit No.: A-14
Schedule: D-1
Page: 1 of 1
Witness:

	(a)	(b)	(c)	(d)	(e)		(f)	(g)	(h)	(i)
		Capital Structure					**Weighted Cost**			
Line No.	**Description**	**Amount ($000) (1)**	**Percent Permanent Capital (2)**	**Percent of Total Capital**	**Cost Rate %**		**Permanent Capital (2)**	**Total Cost %**	**Conversion Factor**	**Pre-Tax Return**
1										
2	Long-Term Debt					(3)				
3										
4	Preferred Stock					(4)				
5										
6	Common Shareholders' Equity					(5)				
7										
8	Total Permanent Capital									
9										
10	Short-Term Debt					(6)				
11										
12	Job Development- ITC-Debt									
13	Job Development- ITC Equity									
14	Total Job Development- ITC									
15										
16	Deferred Income Taxes (Net)- MBT									
17										
18	Deferred Income Taxes (Net)- Federal									
19										
20	Total									

(1) see Exh. A-12, Sch. B2
(2) Excludes Short-Term Debt, Deferred Job Development Investment Tax Credit, Deferred Investment Tax Credit, and Deferred Income Taxes to calculate the rate of return for Job Development Investment Tax Credit purposes in accordance with Internal Revenue Service Income Tax Regulation Section 1.46-6
(3) See Exh. A-14, Sch. D2
(4) See Exh, A-14, Sch. D4
(5) See Exh, A-14, Sch. D5
(6) See Exh, A-14, Sch. D3

Schedule D-2

Michigan Public Service Commission
Company Name
Cost of Long-Term Debt
Projected 12 Month Period Ending xxxx

Case No.: U-XXXXX
Exhibit No.: A-14
Schedule: D-2
Page: 1 of 1
Witness:

Line No.	(a) Description	(b) Original Issue Date	(c) Stated Maturity Date	(d) Interest Rate (%)	(e) Amount of Offering ($000)	(f) Price to Public (%)	(g) Underwriting & Financing Expenses (%)	(h) Net Proceeds to the Company (%)	(i) Cost Based on Net Proceeds (%)	(j) Amount Outstanding ($000)	(k) Annual Cost ($000)
1											
2	**Mortgage Bonds**									$	
3											
4											
5											
6											
7											
8	Total Mortgage Bonds									$	
9											
10	**Other Long-Term Debt**										
11										$	
12											
13											
14	Total Other Long-Term Debt									$	
15											
16	Total Long-Term Debt									$	
17											
18	Unamortized Debt Discount, Premium, and Expense										
19											
20	Total Long-Term Debt Balance									$	

Schedule D-3

Michigan Public Service Commission
Company Name
Cost of Short-Term Debt
Projected 12 Month Period Ending xxxx

Case No.: U-XXXXX
Exhibit No.: A-14
Schedule: D-3
Page: 1 of 1
Witness:

	(a)	(b)	(c)
Line No.	**Month**	**Projected Balance Outstanding ($000)**	**Total Cost ($000)**
1			
2	Commercial Paper	$	$
3			
4	Inter-Company Loans		
5			
6	Letter of Credit		
7			
8	Other		
9			
10	Total	$	$
11			
12	Average Cost of Short-Term Debt		$

Schedule D-4

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-14
Cost of Preferred Stock	Schedule: D-4
Projected 12 Month Period Ending xxxx	Page: 1 of 1
	Witness:

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Line No.	**Description**	**Annual Dividend ($000)**	**Par Value**	**Discount or Premium ($000)**	**Finance Expenses ($000)**	**Net Proceeds Received ($000)**	**Number of Shares Outstanding ($000)**	**Total Value of Outstanding Proceds ($000)**	**Cost Rate (%)**	**Annual Dollar Amount ($000)**

Schedule D-5

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-14
Cost of Common Shareholders' Equity		Schedule:	D-5
Projected 12 Month Period Ending xxxx		Page:	1 of 1
		Witness:	

Schedule E-1

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-15
Annual Service Area Sales by Major Customer Classes and System Output	Schedule: E-1
5-Year Projected	Page: 1 of 1
	Witness:

Line No.	Year	Residential	Commercial	Industrial	Other	Total	Losses and Company Use: Millions Unit of Measure	Losses and Company Use: % of Output	System Output Unit of Measure
1	Year 1								
2	Year 2								
3	Year 3								
4	Year 4								
5	Year 5								

Schedule F-1

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-16
Annual Service Area Sales by Major Customer Classes and System Output	Schedule: F-1
5-Year Projected	Page: 1 of 1
	Witness:

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Line No.	**Description**	**Alloc**	**Total**	**Alloc Juris**	**Total Residential**	**Total Commerical Secondary**	**Total Primary**	**Total Government**	**Total Wholesale**

Schedule F-2

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-16
Summary of Present and Proposed Revenue by Rate Schedule	Schedule: F-2
	Page: 1 of 1
	Witness:

Line No.	(a) **Description**	(b) **Total Present Revenue ($000)**	(c) **Total Proposed Revenue ($000)**	(d) **Total Net Increase/(Decrease) ($000)**	(e) **Total Net Increase/(Decrease) (%)**

Schedule F-3

Michigan Public Service Commission
Company Name
Present and Proposed Revenue Detail
($000)

Case No.: U-XXXXX
Exhibit No.: A-16
Schedule: F-3
Page: 1 of 1
Witness:

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
		Billing Determinants		**Present**		**Proposed**	
Line No.	**Description**	**Quantity**	**Units**	**Rate**	**Revenue**	**Rate**	**Revenue**

Schedule F-4

Michigan Public Service Commission	Case No.: U-XXXXX
Company Name	Exhibit No.: A-16
Comparison of Present and Proposed Monthly Bills	Schedule: F-4
	Page: 1 of 1
Residential Service Rate	Witness:

	(a)	(b)	(c)	(d)	(e)	(f)
				Increase		
Line No.	**Monthly kWh Use**	**Present Net Monthly Bill**	**Proposed Net Monthly Bill**	**Amount**	**Percent**	**Proposed Unit Cost**

Schedule F-5

Michigan Public Service Commission		Case No.:	U-XXXXX
Company Name		Exhibit No.:	A-16
Proposed Tariff Sheets		Schedule:	F-5
Projected 12 Month Period Ending xxxx		Page:	1 of 1
		Witness:	

MICHIGAN PUBLIC SERVICE COMMISSION
PART III – STANDARD FILING REQUIREMENTS
SUPPLEMENTAL DATA

The following data is to be provided to Commission Staff at the time of filing of a general rate application and is to be treated as the initial data request meant to facilitate the Commission Staff's audit of historical, bridge, and projected data covering the 12-month historical period ending _______, the bridge period, and the 12-month projected period ending __________. At the time of filing, the utility shall also provide this data to all intervening parties in the utility's preceding general rate case, utilizing the most recent "Service List" from the preceding general rate case to provide such data,[1] along with supplying the same to all other intervening parties in this case promptly upon request, all or a portion thereof capable of being subject to the Protective Order approved in Case No. U-18238 (as found in Attachment 13), if so requested. This information should be used in conjunction with the annual reports filed by the utility with the MPSC (i.e., P-521 and P-522 reports, etc.). The utilities' filed projected rate case amounts should be fully supported within PART I of the MPSC's STANDARD RATE CASE FILING REQUIREMENTS.

Unless stated otherwise, the following data should be provided for all electric, gas and steam utilities. If a particular requirement does not apply to electric, gas or steam, simply indicate as such.

Accounting Data and Records

- Historical period balance sheet and income statement with supporting monthly detailed general ledgers.
- Listing of all internal audit reports completed during and since the historical period.
- Listing of ongoing internal audits.
- Most recent calendar year External Auditor Audit Report and Audit Report of Differences.
- Current corporate structure and organizational chart for utility.
- See Attachment 2 for additional requirements

Sales and Purchased Power

- Historical period actual sales data, both by volumes and customers by rate schedule.
- Historical period weather normalized sales by customer class/rate schedule.
- An explanation of any significant customer usage changes in the historical period.
- Historical period company use and losses (including unaccounted for gas).

[1] If a prior intervenor's contact information has changed since the last "Service List" in the preceding general rate case was issued, it is that prior intervenor's responsibility to update its contact information on record with the Commission by sending an email to the Commission's Executive Secretary at mpscedockets@michigan.gov.

- Historical period on-peak/off-peak sales data.
- Historical period actual heating degree day and cooling degree day information.
- See Attachment 3 for additional requirements

Other Operating Revenues

- Summary schedule that shows actual Other Operating Revenues by account, for the historical period.
- See Attachment 4 for additional requirements

Rates, Tariffs, and Cost of Service

- See Attachment 5 for additional requirements (including Attachment 5a)

Operation and Maintenance Expenses

- Actual O&M expenses by account for the historical period as detailed in same format as the utility supplies in its annual P-521/P-522 reports.
- Description of methodology and calculations underlying billings from parent company.
- Provide annual uncollectible write-offs and collections, by rate schedule, for the most recent 5 years. If the information is unavailable by rate schedule, provide by rate class. If this is not possible, explain in detail why it is not. Include 3 and 5 year averages and 3 and 5 year rolling averages.

Compensation & Benefits

- Historical period payroll and number of employees.
- Executive payroll (all compensation) for the historical period. Show allocations of executive payroll to all utility and non-utility entities and the basis for the allocations.
- Description and support for benefits included in Account 926 for the historical period.
- Provide a copy of the most recent actuarial report for all retirement plans and other post-employment benefits.
- Provide copies of employee informational booklets describing all executive and non-executive benefit and incentive plans in effect during historical period.
- See Attachment 6 for additional requirements
- See Attachment 7 for additional requirements

Taxes Other than Income Taxes

- Calculations for the following items in the historical period: All payroll related taxes, Property Taxes, Other

Income Taxes

- Calculation of state and federal income tax expenses for the historical period. Include components such as net income before taxes, synchronized interest expense and Schedule M adjustments.
- Calculations supporting the adjustments to the operating income that have been assumed for the projected period. Include the supporting calculation for synchronized interest expense.
- Copies of most recent calendar years Federal and State Income Tax Returns for Utility must be made available to review.

Plant, CWIP and Working Capital

- Plant in service actual balances by MPSC plant account at end of the historical period. Show annual additions, retirements, and sales of plant.
- Reserve for depreciation balances by plant account from the historical period. Show accruals, retirements, salvage, cost of removal and amortizations separately. Explain any significant items.
- Details of CWIP balance for historical period.
- Details of non-utility plant amounts and investments in subsidiaries.
- Depreciation and amortization expense accrual included for historical period by plant account.
- Schedule of depreciation rates during the historical period.
- Historical end of period balances for individual working capital balances (assets and liabilities) corresponding to the projected working capital.
- Deferred tax balances for historical period and summary of their calculation.
- Derivation of historical period AFUDC.
- List any changes in accounting for plant during and since the historical period.
- List any changes in the method used to calculate depreciation on plant balances and an explanation of the change/reason.

Capitalization

- End of historical period actual capital components include: long-term debt, short-term debt, common equity, deferred income taxes, and JDITC.
- Calculation of long-term debt for the historical period, separating interest from amortization of debt discount, premium and expense. Show debt issuances, principal repayments, and retirement of debt.
- Capitalization Ratios- Permanent Capital (LTD and Common Equity).
- See Attachment 8 for additional requirements

Generation/Production Related

- See Attachment 9 for additional requirements
- See Attachment 10 for additional requirements

Distribution Related

- See Attachment 11 for additional requirements. The information required in Attachment 11 applies only to regulated utilities serving one-million or more electric or gas customers within the State of Michigan.

Financial Metrics

- See Attachment 12 for additional requirements

PRE-FILING REQUIREMENTS

Filing Announcement:

In order to facilitate the scheduling and preparation of rate case proceedings, any utility intending to file a general rate case shall file a Filing Announcement (FA), in a new public docket, at least 60 calendar days prior to the proposed filing of the case. The FA, along with a proof of service, shall be served on the Michigan Public Service Commission (Commission) and all parties granted intervention in the utility's last two general rate cases. If the general rate case described in the FA is not filed within 180 days after filing of the FA, the FA will be considered withdrawn.

The Filing Announcement shall include:

- Statement of intent to file for an increase in rates
- Dates of the historical and proposed test periods
- Estimated date of filing
- The service area to be included in the application for an increase in rates

The Filing Announcement is informational only. The FA does not replace, or impact in any way, the Initial Notice of Hearing required by Section 71 of the Administrative Procedures Act and Rule 417 of the Rules of Practice and Procedure before the Commission.

The Filing Announcement satisfies the utility's obligation under MCL 460.6a(1) to "coordinate with the [C]omission staff in advance of filing its general rate case . . ."

Rate Case Summary:

The utility shall file a summary of the intended rate case in the same docket as the Filing Announcement. This summary shall be filed at least 3 business days prior to the actual filing date. The summary shall include:

- Summary of the most recent rate case filed with the Commission
    - Case number and test year of most recent rate case
    - The dollar amount requested and the dollar amount granted with the date implemented
    - ROE approved in the most recent rate case

- Overview of current key rate case issues and drivers. At minimum,
    - The requested revenue increase (aka requested revenue deficiency)
    - Percentage increase overall, and the rate increase/decrease by rate class and also by rate schedule
    - Proposed changes to rate design
    - Proposed changes to cost of service
    - Inflation rates
    - Requested ROE

- Unique or special requests
- Include a breakdown of the key drivers in the request and quantify the revenue requirement impact of each driver, with the sum equaling the revenue requirement increase requested in the format below:

Key Drivers • Revenue Requirements		
	Drivers	Revenue Requirement Impact
a.	xxxx	$$$
b.	xxxx	$$$
c.	xxxx	$$$
d.	xxxx	$$$
e.	xxxx	$$$
f.		
g.		
h.		
i.		
j.		
k.	**Total Revenue Requirement Impact**	**$$$**

- Identify the revenue requirement associated with rate base. In the format below, Include a breakdown of the rate base key drivers by rate base item from the most recent rate case to the requested rate base in this case.

Key Drivers • Rate Base			
	Drivers	Rate Base Impact (rate base 13-month average)	Revenue Requirement Impact (Return on, Return of, and Property Tax)
a.	Last Rate Base Order	$$$	$$$
b.	xxxx	$$$	$$$
c.	xxxx	$$$	$$$
d.	xxxx	$$$	$$$
e.	xxxx	$$$	$$$
f.			
g.			
h.			
i.			
j.			
k.	**Requested Rate Base**	**$$$**	**$$$**

- Intended filing date if it has changed since the Filing Announcement was filed, along with proposed effective date of new rates.

The Rate Case Summary is informational only and shall not be considered final or binding. Modifications to the actual rate case filing that are not reflected in the Rate Case Summary shall not require a new 3 business day spacing, and shall not impact the timing of the actual rate case filing in any way. In addition, such modifications shall not require a new Rate Case Summary to be filed.

Accounting Data and Records

1. Provide the most recent cost allocation manual (CAM) or detailed summary for any cost allocations included in the rate case filing.

    a. Provide an explanation of any changes in cost allocation procedures or calculation methods within the last 3 years as well as deviations from FERC Accounting Instructions.

2. Provide overview of utility accounting procedures that describe the accounting process from the time a cost is incurred, or revenue is received, until the item is ultimately assigned to a FERC Account.

    a. Provide a cross-walk from Internal Account to FERC Accounting

<u>Sales and Purchased Power</u>

1. Provide actual sales, use per customer, and number of customers by month by the rate schedules as proposed in this case for:
    a. The most recent five calendar years of historical sales information. Please provide this information for bundled/GCR and choice/GCC customers separately and provide in Excel spreadsheet format with working formulas.
    b. All months that are available in the current year. Please provide this information for bundled/GCR and choice/GCC customers separately and provide in Excel spreadsheet format with working formulas.

2. Provide weather normalized sales by month by rate class (provide by rate schedule if available) for:
    a. The most recent five calendar years of historical sales information provided in Item 1. Please provide this information for bundled/GCR and choice/GCC customers separately and provide in Excel spreadsheet format with working formulas.
    b. All months that are available in the current year. Please provide this information for bundled/GCR and choice/GCC customers separately and provide in Excel spreadsheet format with working formulas.

3. Provide forecasted sales, use per customer, and number of customers by month by rate class (provide by rate schedule if available) for 60 months beyond the actual sales provided in Item 1, including the forecasted test period and beyond as available. Please provide this information for bundled/GCR and choice/GCC customers separately and provide in Excel spreadsheet format with working formulas.

4. Weather Normalization:
    a. Provide, in electronic spreadsheet format, a table containing monthly values of peak usage / demand by jurisdiction and by total system (if different) for the most recent calendar year for which actual values for each month are available.
    b. Identify by name, location ID, and jurisdiction the applicable weather station(s) used to normalize the Test Year's sales volumes.
    c. Provide, in electronic spreadsheet format, the actual number of Heating Degree Days (HDD) and Cooling Degree Days (CDD) for each of the most recently completed 30 calendar years for each weather station used by the Company in determining Test Year weather normalization adjustments.
    d. Provide, in electronic spreadsheet format, the HDD and CDD data used to normalize Test Year sales volumes. Indicate if these values are on a calendar basis or a billing cycle basis.
    e. Provide by rate class for each of the most recently completed 20 calendar years, in electronic spreadsheet format:

        1. Number of customers on a year-end basis;
        2. Number of customers on an annual average basis; and
        3. Class annual sales volumes.

   f. Provide, in electronic spreadsheet format, projected customers and sales volumes by rate class for the Test Year.

5. Provide purchased power from MISO Market and PJM Market by month for the previous 5 years.

6. Provide SSR Payments and Revenues for the previous 5 years.

7. Provide Planned Generator Outages for the projected test year.

8. Provide Unplanned Generator Outages for previous 5 years.

9. Provide Most Recent Line Loss Study.
   a. Methodology
   b. Loss Mitigation Efforts
   c. Forecasted Line Loss 3 years

10. Provide Summary of Uncollectible Expenses.
    a. Methodology of Calculation
    b. 5 Year Historical
    c. Mitigation Strategies
    d. Forecast 3 years
    e. 5 Year Historical gross write-offs by year
    f. 5 Year Historical net write-offs by year

11. Provide comparison of Last Rate Case Sales Projections, Customer Counts, Sales Per Customer, Revenues, and ROE to actuals in the operation of the test year.

12. Provide actual and weather normalized monthly sales and customer counts known at the time of filing, even if outside of the test period.

13. Provide the electric deliveries and customer count regression model equations in their form and specification with each variable and estimator coefficient.

14. Provide all statistical tests for model significance and goodness of fit, including the t-statistics, p-values, R2 and MAPE coefficients, for the deliveries, customer count, and peak demand models.

15. Provide the employment and industrial production forecasts that were used as inputs in the forecasting model.

16. Provide all population projection forecasts that were used as inputs in the forecasting model.

17. Provide the peak demand regression model in its form and specification, with each explanatory variable and estimator coefficient included.

18. Provide the source for the Company's EV forecast as well as the forecasted electricity consumption per EV.

19. Provide the DG forecast inputs used in the electricity sales forecast model.

20. All else equal, by how much would a 1% increase or decrease in the electric deliveries forecast change the peak demand forecast?

Other Operating Revenue

1. Provide a historical five year breakdown of all Other Operating Revenue accounts- and any other sub-accounts or other subdivisions associated- in a format (with adjustment necessary for rate case purposes) similar to that found on work-papers supporting the Company's projections of same. Include, separately show, and explain in detail all adjustments and normalizations that would be made for rate case purposes. Include 3 and 5 year calendar averages and 3 and 5 year rolling averages.

2. For any year-to-year historical changes and changes from the most recent historical year to the Company's projection in an account exceeding 5% or $500,000, explain in detail the reason for the change.

3. Provide Late Fees Collected by customer class.

Rates, Tariffs, and Cost of Service

General

1. Provide a copy of all exhibits, including all workpapers and models relied on in their preparation, in native working electronic format. For any hard input, provide and explain the provenance and source of said input in detail

2. Provide a separate copy of all exhibits, including workpapers and models relied on in their preparation, relating to cost of service, and rate design conforming to the most recent Commission decisions on all issues.

3. Provide a list of adjustments (with explanations and where the adjustments would fit in the revenue requirement model) to the revenue requirement that would result if all revenue requirement items conformed to most recent Commission decisions.

4. Provide a legend showing which inputs in the cost of service model correspond to each output of the revenue requirement model (or other model utilized in the Company's filing). If an output corresponds to multiple inputs or vice-versa, explain how those amounts are distributed in detail.

5. Provide a summary, including an explanation and testimony, exhibit, model, and workpaper references, of all differences between the Company's proposed exhibits and those conforming to the Commissions most recent decisions.

Determinants

6. Provide bill frequency distributions for all rate schedules for the most recent 5 years.

7. Provide a thorough description of the methodology necessary to adjust the cost of service inputs and allocators and rate design determinants to account for customers moving between rate schedules if breakevens were to be changed.

8. For any customer/load/usage movement assumed between rates, rate schedules, credits, or provisions, provide all determinants involved in the change, their source, and their ultimate destination.

Credits and Special Provisions

9. Provide a historical five year breakdown of participation in all credits and special provisions (including but not limited to Residential Income Assistance, Senior Citizen, Load Management, and opt-out programs), both monthly and summed to annually, with data on customer count, average monthly bill, average and total volumetric usage,

average and total dollar amount provided by the RIA program; on a monthly basis. Include 3 and 5 year calendar averages and 3 and 5 year rolling averages.

10. For any year-to-year or month-to-month historical changes and changes from the most recent historical year to the Company's projection exceeding 5%, explain in detail the reason for the change.

Value-Added Services

11. Separately provide a detailed historical five year breakdown of all Value-Added Services revenues and expenses (separately showing all subdivisions of same) in a format similar to that found on work-papers supporting the Company's projections of same. Include, separately show, and explain in detail all adjustments and normalizations that would be made for rate case purposes. Include 3 and 5 year calendar averages and 3 and 5 year rolling averages.

12. For any year-to-year historical changes and changes from the most recent historical year to the Company's projection in a program exceeding 5%, explain in detail the reason for the change.

13. Provide a complete copy of the most recent annual report prepared for the value added programs provided to Staff pursuant to MCL460.

14. Provide an explanation for variances in the projected test year value added programs revenues and expenses that don't conform to allocations and calculations provided in the annual report.

Jobwork

15. Separately provide a detailed historical five year breakdown of all Jobwork revenues and expenses (separately showing all subdivisions of same) in a format similar to that found on work-papers supporting the Company's projections of same. Include, separately show, and explain in detail all adjustments and normalizations that would be made for rate case purposes. Include 3 and 5 year calendar averages and 3 and 5 year rolling averages.

16. For any year-to year historical changes and changes from the most recent historical year to the Company's projection in an account exceeding 5%, explain in detail the reason for the change.

GAS UTILITY SPECIFIC REQUIREMENTS

Test Year Design Peak Day Volume

17. Provide the mathematical model used by the Company for forecasting projected peak day volumes.
    a. Identify the specific variables used in the design peak day forecast model.
    b. Indicate if this model was used by the Company in previous design peak day forecasts.

18. If the design peak day calculation relies on an assumption for HDDs, explain why the value utilized was chosen.

19. If the design peak day calculation relies on an actual historical peak day, identify the date, throughput volume, and HDDs of the actual historical peak day.

20. Provide the actual, annual peak day volumes for the last 15 years.

21. Provide projections for annual peak day volume for the last 15 years made by the Company.

Other Gas-in-Kind

22. Identify any non-rate schedule fuel/GIK credits in the Company's filing, including workpaper and exhibit references.

23. Explain how the non-rate schedule fuel/GIK credits are calculated.

24. Provide a historical five year breakdown of all non-rate schedule fuel/GIK credits in a format (with any adjustments necessary for rate case purposes) similar to that found on work-papers supporting the Company's projections of same. Include, separately show, and explain in detail all adjustments and normalizations that would be made for rate case purposes. Include 3 and 5 year calendar averages and 3 and 5 year rolling averages.

25. Explain any differences between the historical and forecasted non-rate schedule fuel/GIK credit amounts.

Electric Utility Specific Requirements

26. Provide Hourly unit/plant specific production/generation (gross kWh) for the last five years, for all generation facilities.

Michigan Public Service Commission						
Case:	U-XXXXX					
Company Name:						
Date:						
Generation 8760						
Unit	**Plant**	**Month**	**Day**	**Hour**	**Year**	**KWH**

27. Provide Hourly Dispatch data for peak day (both MISO and Company peak) for the last 5 years.

Michigan Public Service Commission			
Case:	U-XXXXX		
Company Name:			
Date:			
Peak Day Generation			
YEAR	20XX		
MISO Peak Load Day:	MM/DD/YYYY	Company Peak Load Day:	MM/DD/YYYY
Unit	Generation (000s kWh)	Unit	Generation (000s kWh)

28. Provide 8760 hourly load data for the most recent 10 years (or as many as are available), broken out by schedule and those schedules combined to class.

Michigan Public Service Commission					
Case:	U-XXXXX				
Company Name:					
Date:					
		Load 8760			
Class	**Rate**	**Month**	**Hour**	**Year**	**KWH**

29. Identify the monthly coincident peaks, and the lowest system hour. Also provide each rate schedule/class Non-Coincident peak, and lowest hours.

Michigan Public Service Commission																					
Case:	U-XXXXX																				
Company Name:																					
Date:																					
Monthly Coincident Peaks					**Monthly Lowest Hour**					**Monthly Lowest Hour by Class**						**Monthly Class Peaks**					
Year	Month	Day	Hour	KWH	Year	Month	Day	Hour	KWH	Class	Year	Month	Day	Hour	KWH	Class	Year	month	Day	Hour	KWH

30. Provide Historical 5 years of Generation (kwh), Load (kwh), and real-time LMP, MCC, and MLC ($) at each of the companies MISO nodes, or for whichever nodes that are used by company owned generation assets. Also provide 5 year projected LMP`s for all applicable nodes. A paper copy of this information is not required if this information is provided in electronic model form (Excel) at the time of the filing.

Michigan Public Service Commission													
Case:	U-XXXXX												
Company Name:													
Date:													
			Nodal Data										
Date	Node	Value: Generation (KWH), Load (KWY), LMP ($), MCC ($), MLC ($)	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
mm/mm/yyyy	ABC.123	Generation	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
mm/mm/yyyy	ABC.123	Load	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
mm/mm/yyyy	ABC.123	LMP	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
mm/mm/yyyy	ABC.123	MCC	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
mm/mm/yyyy	ABC.123	MLC	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx

31. Provide replacement costs for each plant (if available).

32. Provide five year plant specific data for the following accounts: “Plant in service”, “Accumulated Depreciation”, “Depreciation Expense” and, “Construction Work In Progress” in the excel format provided (see attached PDF’s for spreadsheet format).

33. For the most recent 5 years provide electric account and generation plant data, of plants under MPSC jurisdiction.

Electric Energy Account Summary

Line No.	Item	MWH's
1	**SOURCES OF ENERGY**	
2	Generation (Excluding Station Use):	
3	Steam	
4	Nuclear	
5	Hydro-Conventional	
6	Hydro-Pumped Storage	
7	LESS Energy for Pumping	
8	Other	
9	**Net Generation** ***(Total of lines 3 thru 8)***	

MONTHLY PEAKS AND OUTPUT			
Line No.	Month	Total Monthly Energy	Monthly Non-Requirements Sales for Resale & Associated Losses
10	January		
11	February		
12	March		
13	April		
14	May		
15	June		
16	July		
17	August		
18	September		
19	October		
20	November		
21	December		
22	TOTAL		

Year	Plant Name	Kind of plant (steam, int. combustion. Gas turbine or nuclear	Kind of plant (steam, int. combustion. Gas turbine or nuclear	Year originally constructed	Year last unit w as installed	Installed cpcty. (max. generator

Annual Report Data

34. For all generation plant and units in above requests, provide the following:
    a. Provide an index for the full names of the plants and their associated units.
    b. Supply a breakdown of “renewables” between solar, wind, and others

Other Expense Items for Gas, Electric, Steam, All Utilities

35. Provide the following information for the most recent historical five years and for the forecasted periods:
    (a) expenses for the purpose of influencing regulation or legislation;
    (b) expenses for the purpose of influencing public opinion about policy issues or about the company’s reputation;
    (c) expenses relating to all proceedings before the Commission, with specificity about what is spent on (and projected for) rate cases during the required time periods;
    (d) contributions to 26 USC 501(c)(3) and 501(c)(4) non-profit organizations;

(e) expenses associated with litigation that seeks to overturn rules or statutes, to the extent that this is not covered by number (c) above.

Depreciation Reserve (108)

Description	FERC/MPSC Account No.	Depreciation Reserve Balance December 31, 2011	Depreciation Reserve Balance December 31, 2012	Depreciation Reserve Balance December 31, 2013	Depreciation Reserve Balance December 31, 2014	Depreciation Reserve Balance December 31, 2015
Intangible Plant						
Miscellaneous Intangible Plant	303					
TOTAL INTANGIBLE						
Production Plant						
Steam Production Plant						
Structures and Improvements	311					
Boiler Plant Equipment	312					
Turbogenerator Units	314					
Accessory Electric Equipment	315					
Miisc. Power Plant Equipment	316					
ARC-Steam Production	317					
Total Steam Production						
Nuclear Production Plant						
Structures & Improvements	321					
Reactor Plant Equipment	322					
Turbogenerator Units	323					
Accessory Electric Equipment	324					
Misc. Power Plant Equipment	325					
ARC-Nuclear Production	326					
Total Nuclear Production						
Hydraulic Production Plant						
Structures & Improvements	331					
Reservoirs, Dams and Waterways	332					
Water Wheels, Turbines and Generatoı	333					
Accessory Electric Equipment	334					
Misc. Power Plant Equipment	335					
Roads, Railroads and Bridges	336					
Total Hydraulic Production						
Other Production Plant						
Structures & Improvements	341					
Fuel Holders, Products and Accessorie:	342					
Prime Movers	343					
Generators	344					
Accessory Electric Equipment	345					
Misc. Power Plant Equipment	346					
ARC-Other Production	347					
Total Other Production						
Total Production Plant						
Transmission Plant						
Structures & Improvements	352					
Station Equipment	353					
Total Transmission Plant						
Distribution Plant						
Structures & Improvements	361					
Station Equipment	362					
Storage Battery Equipment	363					
Poles, Towers and Fixtures	364					
Overhead Conductors and Devices	365					
Underground Conduit	366					
Underground Conductors and Devices	367					
Line Transformers	368					
Services	369					
Cust Meters-Conventional	370A					
Cust Meters-AMI	370B					
Installations on Customer Premises	371					
Street Lighting & Signal Systems	373					
ARC-Distribution Plant	374					
Total Distribution Plant						
General Plant						
Structures & Improvements	390					
Office Furniture	391A					
Computer Equipment	391B					
Office Equipment	391C					
Transportation Equipment	392					
Stores Equipment	393					
Tools,Shop&Garage Equip	394					
Laboratory Equipment	395					
Power Operated Equipment	396					
Communication Equipment	397					
Miscellaneous Equipment	398					
ARC-General Plant	399					
RWIP						
Total General Plant						
Grand Total	**P-521, p. 219**					

Michigan Public Service Commisoon
Company
U-xxxxxx
Construction Work In Progress (Account 107)

Description	FERC/MPSC Account No.	CWIP December 31, 2011	CWIP December 31, 2012	CWIP December 31, 2013	CWIP December 31, 2014	CWIP December 31, 2015
Intangible Plant						
Miscellaneous Intangible Plant	303					
Total Intangible Plant						
Production Plant						
Steam Production Plant						
Land and Land Rights	310					
Structures & Improvements	311					
Boiler and Equipment	312					
Turbogenerator Units	314					
Accessory Electric Equipment	315					
Misc. Power Plant Equipment	316					
ARC-Steam Production	317					
Total Steam Production						
Nuclear Production Plant						
Land and Land Rights	320					
Structures & Improvements	321					
Reactor Plant Equipment	322					
Turbogenerator Units	323					
Accessory Electric Equipment	324					
Misc. Power Plant Equipment	325					
ARC-Nuclear Production	326					
Total Nuclear Production						
Hydraulic Production Plant						
Land and Land Rights	330					
Structures & Improvements	331					
Reservoirs, Dams and Waterways	332					
Water Wheels, Turbines and Generators	333					
Accessory Electric Equipment	334					
Misc. Power Plant Equipment	335					
Roads, Railroads and Bridges	336					
Total Hydraulic Production						
Other Production Plant						
Land and Land Rights	340					
Structures & Improvements	341					
Fuel Holders, Products and Accessories	342					
Prime Movers	343					
Generators	344					
Accessory Electric Equipment	345					
Misc. Power Plant Equipment	346					
ARC-Other Production	347					
Total Other Production						
Total Production Plant						
Transmission Plant						
Land and Land Rights	350					
Structures & Improvements	352					
Station Equipment	353					
Total Transmission Plant						
Distribution Plant						
Land and Land Rights	360					
Structures & Improvements	361					
Station Equipment	362					
Storage Battery Equipment	363					
Poles, Towers and Fixtures	364					
Overhead Conductors and Devices	365					
Underground Conduit	366					
Underground Conductors and Devices	367					
Line Transformers	368					
Services	369					
Meters	370					
Installations on Customer Premises	371					
Leased Property on Customer Premises	372					
Street Lighting & Signal Systems	373					
ARC-Distribution Plant	374					
Total Distribution Plant						
General Plant						
Land and Land Rights	389					
Structures & Improvements	390					
Office Furniture	391A					
Computer Equipment	391B					
Office Equipment	391C					
Transportaton Equipment	392					
Stores Equipment	393					
Tools, Shop and Garage Equipment	394					
Laboratory Equipment	395					
Power Operated Equipment	396					
Communication Equipment	397					
Miscellaneous Equipment	398					
ARC-General Plant	399					
Total General Plant						
Total DTE Electric	**P-521, p. 216**					

Company
U-xxxxxx
Depreciation Expense (403 - 405)

Description	FERC/MPSC Account No.	Depreciation & Amortization Expense Total 2011	Depreciation & Amortization Expense Total 2012	Depreciation & Amortization Expense Total 2013	Depreciation & Amortization Expense Total 2014	Depreciation & Amortization Expense Total 2015
Intangible Plant						
Miscellaneous Intangible Plant	303					
TOTAL INTANGIBLE						
Production Plant						
Steam Production Plant						
Structures and Improvements	311					
Boiler Plant Equipment	312					
Turbogenerator Units	314					
Accessory Electric Equipment	315					
Misc. Power Plant Equipment	316					
ARC-Steam Production	317					
Total Steam Production						
Nuclear Production Plant						
Structures & Improvements	321					
Reactor Plant Equipment	322					
Turbogenerator Units	323					
Accessory Electric Equipment	324					
Misc. Power Plant Equipment	325					
ARC-Nuclear Production	326					
Total Nuclear Production						
Hydraulic Production Plant						
Structures & Improvements	331					
Reservoirs, Dams and Waterways	332					
Water Wheels, Turbines and Generators	333					
Accessory Electric Equipment	334					
Misc. Power Plant Equipment	335					
Roads, Railroads and Bridges	336					
Total Hydraulic Production						
Other Production Plant						
Structures & Improvements	341					
Fuel Holders, Products and Accessories	342					
Prime Movers	343					
Generators	344					
Accessory Electric Equipment	345					
Misc. Power Plant Equipment	346					
ARC-Other Production	347					
Total Other Production						
Total Production Plant						
Transmission Plant						
Structures & Improvements	352					
Station Equipment	353					
Total Transmission Plant						
Distribution Plant						
Structures & Improvements	361					
Station Equipment	362					
Storage Battery Equipment	363					
Poles, Towers and Fixtures	364					
Overhead Conductors and Devices	365					
Underground Conduit	366					
Underground Conductors and Devices	367					
Line Transformers	368					
Services	369					
Cust Meters-Conventional	370A					
Cust Meters-AMI	370B					
Installations on Customer Premises	371					
Street Lighting & Signal Systems	373					
ARC-Distribution Plant	374					
Total Distribution Plant						
General Plant						
Structures & Improvements	390					
Office Furniture	391A					
Computer Equipment	391B					
Office Equipment	391C					
Transportation Equipment	392					
Stores Equipment	393					
Tools,Shop&Garage Equip	394					
Laboratory Equipment	395					
Power Operated Equipment	396					
Communication Equipment	397					
Miscellaneous Equipment	398					
ARC-General Plant	399					
Total General Plant						
Grand Total	**P-521, p. 336**					

Company
U-xxxxxx
Plant in Service (Account 101)

Description	FERC/MPSC Account No.	Plant in Service December 31, 2011	Plant in Service December 31, 2012	Plant in Service December 31, 2013	Plant in Service December 31, 2014	Plant in Service December 31, 2015
Intangible Plant						
Miscellaneous Intangible Plant	303					
Total Intangible Plant						
Production Plant						
Steam Production Plant						
Land and Land Rights	310					
Structures & Improvements	311					
Boiler and Equipment	312					
Turbogenerator Units	314					
Accessory Electric Equipment	315					
Misc. Power Plant Equipment	316					
ARC-Steam Production	317					
Total Steam Production						
Nuclear Production Plant						
Land and Land Rights	320					
Structures & Improvements	321					
Reactor Plant Equipment	322					
Turbogenerator Units	323					
Accessory Electric Equipment	324					
Misc. Power Plant Equipment	325					
ARC-Nuclear Production	326					
Total Nuclear Production						
Hydraulic Production Plant						
Land and Land Rights	330					
Structures & Improvements	331					
Reservoirs, Dams and Waterways	332					
Water Wheels, Turbines and Generators	333					
Accessory Electric Equipment	334					
Misc. Power Plant Equipment	335					
Roads, Railroads and Bridges	336					
Total Hydraulic Production						
Other Production Plant						
Land and Land Rights	340					
Structures & Improvements	341					
Fuel Holders, Products and Accessories	342					
Prime Movers	343					
Generators	344					
Accessory Electric Equipment	345					
Misc. Power Plant Equipment	346					
ARC-Other Production	347					
Total Other Production						
Total Production Plant						
Transmission Plant						
Land	350					
Structures & Improvements	352					
Station Equipment	353					
Total Transmission Plant						
Distribution Plant						
Land and Land Rights	360					
Structures & Improvements	361					
Station Equipment	362					
Storage Battery Equipment	363					
Poles, Towers and Fixtures	364					
Overhead Conductors and Devices	365					
Underground Conduit	366					
Underground Conductors and Devices	367					
Line Transformers	368					
Services	369					
Meters	370A					
Meters- AMI	370B					
Installations on Customer Premises	371					
Street Lighting & Signal Systems	373					
ARC-Distribution Plant	374A					
Total Distribution Plant						
General Plant						
Land and Land Rights	389					
Structures & Improvements	390					
Office Furniture	391A					
Computer Equipment	391B					
Office Equipment	391C					
Transportaton Equipment	392					
Stores Equipment	393					
Tools, Shop and Garage Equipment	394					
Laboratory Equipment	395					
Power Operated Equipment	396					
Communication Equipment	397					
Miscellaneous Equipment	398					
ARC-General Plant	399					
Total General Plant						
Total Electric	**P-521, p. 207**					

Payroll, Incentive Compensation, Insurance Premiums and Merchant Fees

Provide the following information relating to payroll expenses:

1. Provide a schedule, similar to the format below, by pay period or month, which details the regular pay and the overtime pay and the regular hours worked and paid overtime hours worked for the historical test year and preceding 5 years.

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Year: 20xx												
Head Count												
Regular Pay												
Overtime Pay												
Regular Hours Worked												
Paid Overtime Hours Worked												
Year: 20xx												
Head Count												
Regular Pay												
Overtime Pay												
Regular Hours Worked												
Paid Overtime Hours Worked												
....												
...												
...												
...												

2. For the 12-month historical test year, 12-month projected test year, and bridge year, provide (on a total Gas or Electric or Steam basis) a separate summary table for each year (using categories and format shown below) that includes the number of full time employees (FTE's/Headcount) (exclude FTE's created by overtime hours) and the actual paid cash compensation broken down between base wages or salaries, overtime, and incentives or bonuses. For any calendar year included in this request for which actual data is not available for the entire calendar year, create a calendar year using the available actual data combined with the forecast applicable to the rest of the year. Identify which months and figures are associated with both the actual and forecast data.

Year: 2XXX		**Actual (Unadjusted) Paid Cash Compensation**					
Category	**Total Gas or Electric or Steam FTE***	**Base Wages or Salaries**	**Overtime**	**Incentive or Bonus**		**Other Compensation (Explain)**	**Total**
				Short-Term	Long-Term		
Officers							
Exempt							
Nonexempt							
Union							
Sub Total							
Contracted Services							
Total							
*Please Exclude Full-Time Equivalent (FTE) Created by Overtime							

3. For the Historic Test Year through the Projected Test Year, describe all salary increases that could apply to union employees, as well as non-union employees, e.g. Cost of living, step, etc. Specify when each type of salary increase could apply, e.g. monthly, quarterly, annually, etc.

4. Provide the total headcount and the total aggregated fees and compensation paid to directors and executives during the test year. Include all benefits including, but not limited to, dues and/or memberships paid, automobiles, insurance premiums and stock options.

5. Provide the historic test year payroll and projected test year payroll by operating group (i.e. generation, distribution, etc.). If unable to split the data between gas and electric divisions, use the same allocators that have been used in the company's 10K reporting. Additionally, provide details for:
    a. Changes in payroll from the historic test year to the projected test year for each operating group.
    b. For each operating group, provide total material, total labor, total contracted, total overhead, total other, and overall total cost for the 12-mont historic test year and 12-month projected test year.

6. For any incentive compensation cost included in the current rate case, provide the level of performance achieved and plan payout for the related plan(s) in the most recent 5 years.

7. Identify and list all case numbers and order dates for all Commission orders (on and after January 1, 2019) that disallowed incentive compensation for any officers in prior cases.

8. Provide the compensation level, specifically itemizing each component of total compensation including incentive compensation, of the top 5 officers. In addition, provide the market median for total compensation level and market median for incentive compensation level. In addition, provide average annual salary, market data, and average salary to market.

9. Identify and list each exhibit and workpaper that contains insurance premium expense projections.

10. Provide the average merchant fee payment on (a) residential monthly billing paid by credit/debit card and (b) non-residential monthly billing paid by credit/debit card. Provide (a) and (b) broken out by rate schedule.

11. Provide the (a) total number of customers for the most recent 5 years by residential, industrial, and commercial sectors and (b) number of customers that pay utility bill by credit or debit card (please distinguish between the two) and broken out by customer class (residential, commercial, industrial) and (c) number of customers that are eligible for bill payment with a credit/debit card with zero fee, broken out by customer class (residential, commercial, industrial).

Pension, OPEB, and Active Healthcare

Pension

1. Provide the pension expense included in the projected test year

2. Provide the pension expense for the projected test year based upon the most recent year-end actuarial remeasurement.

3. If the pension expense included in the rate case is different than the pension expense included in part 2 above, provide support from the actuary that documents and justifies any deviation in expense included in the rate case filing which differs from the year-end actuarial remeasurement amounts. If an interim projection is submitted by the Company as the rate case expense, documentation from the actuary that provides a basis and rationale for the interim projection's deviation from the year-end remeasurement should be included. Changes in assumptions (specifically the discount rate) should be explained by the actuary.

4. Provide all actuary communications that relate to pensions for the projected period. For each communication, provide who requested the changes in the discount rate, assumed rate of return on assets, etc. on all components of expense. Provide the purpose of each of these changes. For example, were the changes for rate case purposes, internal management, GAAP reporting, or other purposes?

OPEB

5. Provide the OPEB expense included in the projected test year

6. Provide the OPEB expense for the projected test year based upon the most recent year-end actuarial remeasurement.

7. If the OPEB expense included in the rate case is different than the OPEB expense included in part 6 above, provide support from the actuary that documents and justifies any deviation in expense included in the rate case filing which differs from the year-end actuarial remeasurement amounts. If an interim projection is submitted by the Company as the rate case expense, documentation from the actuary that provides a basis and rationale for the interim projection's deviation from the year-end remeasurement should be included. Changes in assumptions (specifically the discount rate) should be explained by the actuary.

8. Provide all actuary communications that relate to OPEB for the projected period. For each communication, provide who requested the changes in the discount rate, assumed rate of return on assets, etc. on all components of expense. Provide the purpose of each of these changes. For example, were the changes for rate case purposes, internal management, GAAP reporting, or other purposes?

ACTIVE HEALTHCARE

9. Provide the actual healthcare costs incurred for the historical test year and each of the preceding five years.

Capitalization

1. Describe the utility's current dividend policy to its parent company and any planned changes to the current policy. Provide the dividend amount and percentage of total net income from the utility to its parent over the last 3 years.

2. If the Company has engaged in any interest rate hedging activities or interest rate derivative contracts since January 1 of the third year preceding the test year:
   a. Explain the nature and general conditions of each activity or contract and provide a copy of each agreement or contract;
   b. Provide each analysis, in electronic spreadsheet format, the Company performed prior to engaging in each of these transactions, including the date each such analysis was performed;
   c. Provide for each transaction any ex post analysis of transaction gains or losses, in electronic spreadsheet format, including the date each such analysis was performed; and
   d. Provide a copy of the Company's policies and guidelines related to hedging activities and to derivative contracts that were in effect as of the date the Company commenced each activity or executed one or more contracts involving each activity.
3. For each individual *pro forma* LT Debt security of the utility included in this filing, explain the assumptions used to calculate the coupon rate and the spread to benchmark Treasury in relation to the utility's credit rating. Please explain all issuance expenses and provide the calculations of the coupon rate and issuance expenses in electronic spreadsheet format. If the information was derived or obtained from other sources, identify each such specific source and provide a copy of each such specific source document in portable document format (PDF) files, MS Word files, or electronic spreadsheet files.

4. Provide copies of all presentations and other materials provided by the utility (or by a parent company specific to the regulated utility) to any credit rating agency in the previous 24-months. Include any historical and projected financial metrics and information provided by the utility (or by a parent company specific to the regulated utility) to any credit rating agency.

5. For utilities that have credit ratings from the major credit rating agencies listed below, provide *pro forma* financial ratios for the year preceding the Test Year and the Test Year including but not restricted to the ratios listed below. Calculate each ratio using the methodology used by each credit rating agency. Include the actual, *pro forma*, or actual plus *pro forma* financial statement or statements from which each ratio was calculated, in electronic spreadsheet format:

   Standard & Poor's:
   a. Cash Flow (Funds from Operations / Debt %);
   b. Debt leverage (Total debt / Capital %); and
   c. Debt / EBITDA.

   Moody's:
   d. CFO Pre-W/C to Interest;
   e. CFO Pre-W/C to Debt %;

f. CFO Pre-W/C - Dividends to Debt %; and
g. Total Debt to Book Capitalization %.

Fitch:

h. EBITDA to Interest;
i. FFO plus interest to interest;
j. Debt to EBITDA;
k. FFO to Debt %; and
l. Debt to Capitalization %.

Generation/Production Related

Operation and Maintenance (Electric)

1. Beginning with the first month of the historical test period through the last month of the forecasted test period, provide the following information by month, or next most detailed breakdown available, for each fossil, nuclear, and hydro operation and maintenance project over $1,000,000, broken down by plant and unit. If a unit breakdown is not available, then provide the information separated by plant or the next available breakdown. Provide in Excel spreadsheet format with working formulas.
    a) When planning began for the project.
    b) The costs for each project broken into specific components as available (including, but not limited to engineering, materials, labor, contingency, etc.).
    c) The actual/estimated project start and completion dates.
    d) Reason(s) for the work to be performed (for example insurance, aging equipment, warranty, federal/state regulation, etc.).
    e) Specific detail of the work that was/will be performed.
    f) Provide an anticipated/actual project timeline for all the work to be performed, such as a GANTT chart.
    g) Standards of the work to be performed (for example IEEE, ASME, etc.), if applicable.
    h) Identify who will be performing the work. If the work was/will be contracted out, identify if the Company has used the vendors previously.
    i) The approximate number of people performing the work.
    j) For routine projects (i.e., work that the utility performs regularly), identify how often the work is performed.
    k) The last time similar work was performed.
    l) Identify when the budget was drafted for the project.
    m) Identify when the budget was submitted for the project.
    n) Identify when the budget was approved (internally and by the Board of Directors) and what amount was approved for the project.
    o) Identify who at the Company approved the budget for the project.
2. Provide the annual spending and the percent of the project that has been/will be completed by year/partial year for every fossil, nuclear, and hydro operation and maintenance project over $1,000,000 identified in Item 1. Provide in Excel spreadsheet format with working formulas.
    a) Identify what amount of the annual spending for each operation and maintenance project is currently included in the Company's authorized rates.
3. For the fossil/steam plants identified on page 402 in the utility's annual report as "STEAM-ELECTRIC GENERATING PLANT STATISTICS (Large Plants)", provide the actual operation and maintenance expenses by unit, or the next most detailed

breakdown available, for the most recent five years consistent with the MPSC Annual Report Form P-521 page 320-323 for Steam Power Generation. Provide in digital Excel spreadsheet format with working formulas.

4. Beginning with the first month of the historical test period through the last month of the forecasted test period, provide a list of all fossil, nuclear, and hydro plant outages over seven days in length by plant by unit. Include the outage start and end dates, the outage duration, the reason for the outage, and a detailed explanation of the work that was or will be performed. For planned outages that have already occurred, provide the planned as well as the actual details of the outage. Provide in digital Excel spreadsheet format with working formulas.
5. Provide the following actual information for each generating unit including peakers by year for the most recent five years: 1) capacity factor; 2) equivalent availability factor; 3) planned outage factor; 4) random outage factor; 5) heat rate; and 6) net generation. Provide in digital Excel spreadsheet format with working formulas.
6. For the forecasted test period, provide the following forecasted information for each generating unit including peakers: 1) capacity factor; 2) equivalent availability factor; 3) planned outage factor; 4) random outage factor; 5) heat rate; and 6) net generation. Provide in digital Excel spreadsheet format with working formulas.

Capital Expenditures (Electric)

7. Beginning with the first month of the historical test period through the last month of the forecasted test period, provide the following information by month for each fossil, nuclear, and hydro capital project over $1,000,000, broken down by plant and unit. If a unit breakdown and/or monthly breakdown is not available, then provide the expenses in the next most detailed breakdown available. Provide in Excel spreadsheet format with working formulas.
    a) When the planning began for the project.
    b) The costs for each project broken into specific components (including, but not limited to engineering, materials, labor, contingency, etc.) and specify which amounts are construction work in progress (CWIP) or plant-in-service. For capital projects that span multiple rate cases, the Company should maintain consistent cost component nomenclature in its exhibits and workpapers. If a category name has changed since the previous case but is part of the same project, the Company shall indicate the change, provide a rationale for the change, and include a financial crosswalk between the last case's category or categories and the current case's equivalent category or categories.
    c) The actual/estimated project start and completion dates.
    d) Reason(s) for the work to be performed (for example insurance, aging equipment, warranty, federal/state regulation, etc.).
    e) Specific detail of the work that was/will be performed.
    f) Provide an anticipated/actual timeline for all the work to be performed, such as a GANTT chart.
    g) Standards of the work to be performed (for example IEEE, ASME, etc.).

h) Identify who will be performing the work. If the work was/will be contracted out, identify if the Company has used the vendors previously.

i) The approximate number of people working on the project.

j) For routine projects (i.e., work that the utility performs regularly), identify how often the work is performed.

k) The last time similar work was performed.

l) Identify when the budget was drafted for the project.

m) Identify when the budget was submitted for the project.

n) Identify when the budget was approved (internally and by the Board of Directors) and what amount was approved for the project.

o) Identify who at the Company approved the budget.

p) If the project received a Certificate of Necessity per MCL 460.6s:

    i) Identify the CON case number
    ii) Indicate how much was approved for the project.

8. Provide the annual spending and the percent of the project that has been/will be completed for every fossil, nuclear, and hydro capital project over $1,000,000 identified in Item 1. Provide in Excel spreadsheet format with working formulas.

    a) Identify what amount of the annual spending for each capital project was requested for recovery in the Company's previous rate case.

    b) For capital projects that span multiple rate cases, explain why capital expenditures in past cases were underspent or overspent compared to previous Company projections and the amounts approved by the Commission in previous Orders.

9. For capital projects that were included in an approved integrated resource plan per MCL 460.6t (11):
    a) Identify the approved integrated resource plan and case number.
    b) Indicate how much was approved for the project or projects.
    c) Indicate when the Company began incurring costs for the project(s), or intends to commence incurring costs for the project(s).

10. For capital projects over $1 million in the current rate case, provide the spending for each project in the previous rate case in the form of Attachment 9b.

Production Capital Related

1. Provide production capital information in the template below.

Production Capital Projects Greater than $1 million															
				Capital Expenditures In Last Rate Case ($) U-XXXXX					Requested Capital Expeditures in Instant Rate Case ($)				Project Totals Details		
Line No.	Plant	Unit	Project Name/Description	Historic Test Period ($)	Projected Bridge Period ($)	Projected Test Period ($)	Total Requested for Project ($)	Amount Approved in Commission Order ($)	Historic Test Period ($)	Projected Bridge Period ($)	Projected Test Period ($)	Total Requested for Project ($)	Actual Amount Spent to Date since Project Inception ($)	Total Projected Expenditures for Project ($)	Was this Project Pre-approved in another case? (IRP, Renewable Plan, etc.) If yes, provide Case Number and amount preapproved.
1															
2															
3															
4															
5															
6															
7															
8															
9															
...more															

Generation/Production Related

Definitions:
An **electric generating facility** is one or more electric generating units grouped together at a plant site.

Non-routine projects are not routine and do not recur annually. Non-Routine capital projects are typically undertaken only once in an electric generating facility's remaining lifetime or only once every ten years or longer. Examples of non-routine capital projects include environmental retrofits, major equipment overhauls, and lifecycle management.

A **Substantial Plant Investment (SPI)** is a cumulative capital investment on non-routine projects over a five-year period at an electric generating facility. The capital investment threshold for a project or a cumulative capital investment to qualify as an SPI is the lesser of: 1) $50 million, or 2) 2% of the annual revenue requirement. The five-year period begins with the filing of the utility's first rate case that is filed after the final order in Case No. U-18238 that establishes rate case filing requirements is issued.

1. For any electric generating facility where SPI will occur, the initial request for recovery of capital expenditures related to the SPI should include a net present value (NPV) analysis. This analysis will compare two sets of costs, one set belonging to a "SPI" scenario, the other belonging to a "retirement/decommission" scenario which may or may not include replacement generation. The analysis should include the best available depreciation schedule for the actual expected life of the capital equipment associated with the SPI and the electric generating facility it is associated with. For example, if an SPI is expected to last 30 years, but the facility will only be operational for 10 years, the SPI should be depreciated in accordance with the actual expected operation of the SPI.

    a. The "SPI" scenario will include all of the electric generating facility's projected capital and O&M expenses (including SPI capital and O&M costs) from the present through the expected retirement and decommissioning of the facility or 20 years from now, whichever comes first.
    b. The "retirement/decommission" scenario will consist of the costs of retiring and decommissioning the facility or applicable electric generating units associated with the facility prior to the need for the SPI, and thus will not include the costs of the SPI.

    In the NPV analysis, the capital and O&M costs of the projects associated with the SPI should be broken out and not lumped into larger, more general categories, in order to allow Staff and other interested parties to see the impact of the SPI on the facility's cost-effectiveness.

2. Provide a workpaper or exhibit that shows all capital and O&M projected test year amounts from the previous case with actual expenditures (to date) for all Routine and Non-Routine large capital projects. Provide a detailed explanation of any variance.

3. For each SPI, as defined in #1 above, provide a separate exhibit or work paper. The work paper or exhibit shall include all projected amounts of the cumulative projects that collectively represent the total SPI from the start of the capital project through the end of the capital project. Provide actual amounts that align with the original projected amounts through the most recent full year. Also, provide the projected amount approved in the last rate case and the corresponding actual amount. This exhibit or work paper should be updated and included in every subsequent rate case until project completion. Identify variances on an absolute basis and provide a detailed explanation for any significant variances including why the variances were unavoidable and are reasonable. See example workpaper below:

Production Capital																		
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
Line No.		Current Rate Case Projected 12 months	Historic Test Year Actual	Last Rate Case Approved	Actual	Variance	SPI Yr-1 Projected	Actual	Variance	SPI Yr-2 Projected	Actual	Variance	SPI Yr-3 Projected	Actual	Variance	SPI Yr-4 Projected	Actual	Variance
1	Routine Capital																	
2	SPI Facility Name																	
3	Project 1																	
4	Project 2																	
5	Project 3																	
6	*Subtotal*																	
7	Non-Routine Capital																	
8	SPI Facility Name																	
9	Project 1																	
10	Project 2																	
11	Project 3																	
12	*Total*																	

*Insert additional years as needed to provide a complete SPI spending plan from start to finish
*Insert actual project amounts that correspond with projected amounts as available

4. Identify any large contracts with third parties (EPCs, for example) that contain contingency funds, and the dollar amount of said contingency. Demonstrate that any large contracts with third parties (EPCs, for example) do not contain contingency funds.

5. Provide all supporting information for items such as large supplier contracts (project contracted labor, EPC, etc.), plant purchase contracts, environmental quality or other large capital project budget/contracts. If support is confidential, provide said support (within three business days) once appropriate protective orders are in place.

6. Provide the final reports of all environmental compliance studies that were undertaken for electric generating units or for projects at electric generating units. Reports more than five years old, or those that were provided in previous rate cases, do not need to be submitted. All supporting spreadsheets and calculations must be provided.

Distribution Related

The information required in Attachment 11 applies only to regulated utilities serving one-million or more electric or gas customers within the State of Michigan.

Exhibit Presentation

Distribution Capital Programs-	Historic Test Year ($)	Last Rate Case Approved ($) *(If Contested)*	Last Rate Case Actual ($)	Variation (%)	Location of Testimony Regarding Significant Variation (>10%)	Current Case Projection ($)
Reliability						
Asset Relocation						
Modernization						
TOTAL						

Electric Utility Distribution System Capital Investments Filing Requirements

1. Description of all capitalization policy changes occurring since last rate case that have a material effect on Distribution Capital investments.

2. Provide five year historic spending in all Distribution Capital Programs and explanation in program scope that would materially affect the use of averages over the 5 year period. (i.e. known and measurable, project relocation to another program, etc.)

   (SEE NOTE AT END ABOUT ALTERNATIVES TO #2)

3. Provide project level data which supports the requested test year spending plan.
   a. For the highest cost top 25 projects provide:
      i. Purpose and Necessity of the Project with Supporting Data.
      ii. Line Design, size, material used.
      iii. Line Length and ROW requirements.
      iv. Approximate Construction Schedule.
      v. Project effect on cost of operation and reliability of service.
      vi. A description of the property being replaced and salvage value.
      vii. Map of site and location of facilities.
      viii. Funding from other entities (MDOT, Customer, Municipalities, Etc.)
      ix. All studies performed by the Company or 3rd party regarding the project.
      x. Date of board approval.

4. CIAC 5 year historic and projected CIAC by distribution program.

5. Construction work in progress (CWIP)
    a. Provide a list of all construction projects in progress at the filing date which have been included in the proposed rate base.

6. Provide spreadsheet/exhibit that includes all of the following information for the highest cost top 25 IT and OT projects in the test year.
    a. Project description and functionality of the system with all acronyms defined.
    b. Project timelines and spending plans.
    c. Project benefits, both in dollars and intangible.
    d. Project timeline including expected implementation date.
    e. A description of alternatives considered, and rational behind decision.
    f. Cost benefit ratio (if applicable).
    g. Project business case showing date of Board Approval, and approved project amount for Each Individual Project.
    h. Percentage of total budget that the top 25 projects represents, and total number of projects that fall outside of the top 25.

7. Provide the date and duration of all Demand Response (DR) events that have occurred in previous 5 years for all *DR rates in each customer class and the estimated peak load reduction associated with the DR event.*

8. DER Summary
    a. Provide total number of customers with the following technologies in the Company's service territory by year for the last five years.
        i. Energy storage
        ii. Solar PV
        iii. Electric vehicles
    b. Provide total number of DG customers by year for the last five years.

9. Identify all contingency costs included in the projected test year capital spending in the filing. If none, provide evidence that there are no contingency costs included in the rate request.

10. Provide total company Cyber Security Spending and allocation if applicable, between Companies.

11. Provide vegetation management (Capital) for the last 5 years cycle.

12. Provide AMI Opt out Fees recovered in last 5 years.

13. Identify all current pilot programs being funded by the Company.
    a. Explanation of the hypothesis of the pilot program.
    b. Potential benefits.
    c. Pilot timeframe.
    d. Pilot from previous 3 years.

14. Crosswalk of all projects with similar names or project scopes, the different areas they are located within, and description of the scope of each project and how they differ.

15. 4.8kV Hardening/Conversion
    a. Map of all areas that have received 4.8kV hardening and conversion, each noted separately, for the last five years. This should be overlayed the Company's service territory map which notes the system types (4.8kV, 13.2kV, etc.).
    b. Provide a list of the associated areas, with total investment by year for hardening and conversion, each noted separately, and a brief description of the work conducted and why.

Gas Distribution/Transmission/Storage/Production Capital Spending

1. Description of all capitalization policy changes occurring since last rate case that have a material effect on capital investments.

2. Provide project level data which supports the requested test year spending plan.
    a. For the highest cost top 25 projects provide
        i. Purpose and Necessity of the Project with Supporting Data.
        ii. Line Design, size, material used.
        iii. Line Length and ROW requirements.
        iv. Approximate Construction Schedule.
        v. Project effect on cost of operation and reliability of service.
        vi. A description of the property being replaced and salvage value.
        vii. Map of site and location of facilities.
        viii. Funding from other entities (MDOT, Customer, Municipalities, Etc.)
        ix. All studies performed by the Company or 3rd party regarding the project.

3. Provide Unplanned Capital Replacement of Assets Over $1 million for last 5 years. (Pipeline rupture, etc.)

4. Provide Progress of Commission approved Pipeline Replacement Program (MRP, EIRP, ETC).
    a. Projected Timeline for Completion
    b. Projected Cost Test Year
    c. Cost to date
    d. Estimated Total Project Cost
    e. Most Recent Report on Program Filed at Commission.

5. Provide Storage Utilization Statistics for Last 5 years.

6. Provide Percentage of Remedial Digs requiring capital replacement.
    a. Include justification of remedial work that is greater than 50 feet including, but not limited to, an explanation of why it was necessary to replace 50 feet in each instance.

7. Provide Maximum System Throughput for the last 5 years.

8. Customer Attachment Program (CAP)
    a. Customers added in new projects (pre-construction).
    b. Number of CAP customers added to existing projects.
    c. CAP contribution from all currently open projects and projected test year projection.
    d. Example of CAP customer surcharge calculation for one project in projected test year.
    e. Annual comparison of projected CAP project costs to actual constructed costs for the previous 5 years, current saturation rate of project.

Electric Distribution O&M Spending

1. Provide the actual, year-end amounts for all items on the C5 for the two most recently completed calendar years (in calendar year format).

2. Provide explanation of estimated AMI system benefits realized in the last 5 years by program. (Electric) (i.e. meter reading reduction, theft instances detected, remote disconnects, etc.)

3. Provide list of all distribution inspection programs (pole, transformer, etc.) their cycle lengths and annual costs for the most recent cycle.

4. Vegetation Management. For the last five years and projected through the test year, provide:
    a. The O&M spending for vegetation management
    b. The miles trimmed per year
    c. The average cadence of tree trimming (the average time one area will get trimmed again)
    d. Number of customer outages and outage minutes due to vegetation for same 5 year period.
    e. Vegetation management cycle completion %
    f. Number of trees outside right of way (ROW) (5 years)
    g. Cost of Outside the ROW removal (5 years)
    h. Areas of service territory trimmed indicated on a map by year

5. Service Restoration (Electric)
    a. Provide 5 year Historic capital and O&M Expenditures.
    b. List all events that interrupted more than 5% of customers in the years spanning from the historic test year to the projected test year (identify which were MED and Catastrophic Storms).
    c. Cost per event
        i. Capital Replacements (number of and unit cost)
        ii. Labor Hours (Regular/Overtime)
    d. Number of customers with outage minutes
    e. SAIDI (event)
    f. SAIFI (event)
    g. Total Restoration time (0 outages)
    h. Total Customer Outage Credit Payments by Category and Rate Class

As an alternative to the providing historic spending with explanation of changes in each category, the Staff believes a streamlined approach would be to provide *projections* of test year expenses in terms of FERC USoA distribution plant accounts. These are perscriptive in nature and therefore will not change based on the Utility structure and nomenclature, etc. This would eliminate to the need to understand what constitutes each proprietary program "bucket" and instead focus on the assets that are being placed into service instead of the program names. Staff could then use publically sourced data to compare historic spending to projected future spending.

Distribution Plant Investments	Historic Test Year ($)	Last Rate Case Approved ($)	Last Rate Case Actual ($)	Variation (%)	Location of Testimony Regarding Significant Variation	Current Case Projection ($)
360- Land and Land Rights						
361- Structures and Improvements						
362 – Station Equipment						
363- Storage Battery Equipment						
364- Poles, Towers, Fixtures						
365- Overhead Conductors and Devices						
366- Underground Conduit						
367- Underground Conductor and Devices						
368- Line Transformers						
369- Services						
370- Meters						
371- Install On Customer Premises						
372- Leased Property on Customer Premises						
373- Street Lighting and Signal Systems						
374- Asset Retirement Costs for Distribution Plant						

A third option would be to continue with the current presentation with proprietary buckets and tie those buckets to the FERC accounts in a workpaper or other supplemental information provided to Staff. Either of these presentations would provide a much granular level of information about what investments are planned to be made in the proprietary program buckets and help Staff faster process program focuses and trending for a nearly infinite historic period as FERC Form 1 data can be easily pulled for comparison when USoA accounts are used. Staff already has resources that could pull this data and we could minimize the burden on the Company's by moving to this type of presentation.

Distribution Capital- Reliability Program Workpaper	Historic Test Year ($)	Last Rate Case Approved ($)	Last Rate Case Actual ($)	Variation (%)	Location of Testimony Regarding Significant Variation	Current Case Projection ($)
360- Land and Land Rights						
361- Structures and Improvements						
362 – Station Equipment						
363- Storage Battery Equipment						
364- Poles, Towers, Fixtures						
365- Overhead Conductors and Devices						
366- Underground Conduit						
367- Underground Conductor and Devices						
TOTAL						

Distribution Capital Programs-	Historic Test Year ($)	Last Rate Case Approved ($)	Last Rate Case Actual ($)	Variation (%)	Location of Testimony Regarding Significant Variation (<10%)	Current Case Projection ($)
Reliability						
Asset Relocation						
Modernization						
TOTAL						

Distribution Plan to Rate Case Crosswalk

1. Provide program/project information in the template below.

			Proposed Capital Spend Amount ($) from Distribution plan			Actual/Requested Capital in Instant Rate Case ($)		
Line No.	Example Program or project name	Program or Project Name in Instant Case	Proposed amount for Historic Test Year ($)	Proposed amount for Bridge Period ($)	Proposed amount for Projected Test Year	Actual Historic Test Year	Requested Bridge Period	Requested Projected Test Year
1	*Pole and Pole Top Maintenance and Modernization Program*							
2	*SCADA Pole Top Device Replacement program*							
3	*Pigeon Area Improvement*							
4	CODI Program							
5	Alfred Expansion							
6	New Corktown Substation							
7	ETC ETC							

Financial Metrics

Provide the following:

1. Current and historical credit ratings, along with associated outlooks, for the previous five years as published by Standard and Poor's (S&P), Moody's Investors Service (Moody's) and Fitch Ratings. The credit ratings shall include (i) senior unsecured debt, (ii) senior secured debt, and (iii) commercial paper ratings. The utility shall also provide the same information for its parent company, when applicable.

2. Recent utility corporate bond issuances. The utility shall provide a summary of the financial details of other utility company corporate bond issuances for a period of three months prior to, and three months subsequent to, each of the applicant utility's long-term debt offerings issued during the twenty-four months prior to the date of the application. This summary shall include the (i) issue date, (ii) issuing company, (iii) type of offering - either secured or unsecured, (iv) amount of offering, (v) coupon rate, (vi) maturity date, (vii) structure of offering, (viii) S&P and Moody's rating, and (ix) issue spread.

3. Historical and projected financial metrics. The utility shall provide financial metrics for the fully projected test year. The utility shall also provide the year-end financial metrics for each of the previous five years from the date of the application. The financial metrics shall be reported on both a financial basis and a ratemaking basis.[1] The financial metrics for the projected test year are to be reported assuming (i) full rate relief as requested, and (ii) zero rate relief. At a minimum, these metrics shall include:

    A. EBIT Interest Coverage

    B. EBITDA Interest Coverage

    C. FFO Interest Coverage

    D. Overall Fixed Charge Coverage,[2] defined as:

        Numerator: Net Income plus Gross Interest

        Denominator: Gross Interest plus Preferred Dividends

    E. Cash Flow Coverage of the Dividend, defined as:

        Numerator: Net Income for Common plus depreciation plus amortization plus deferred taxes plus deferred investment tax credits

        Denominator: Common Dividends

    F. Common Dividend Payout Ratio, defined as:

        Numerator: Common Dividends

        Denominator: Net Income for Common

    G. Permanent Capitalization Balances and Percentages

H. Return on Common Equity (ROE). For each measure of ROE provided, the utility shall also provide the corresponding authorized ROE for the same time period.

The utility shall adopt the calculation methodology as published by S&P at the time of the application for the EBIT Interest Coverage, EBITDA Interest Coverage, and FFO Interest Coverage. In the event that S&P no longer publishes such data, the utility shall adopt the calculation methodology as published by Moody's or Fitch Ratings.

Historical Financial Metrics are to be filed as Exhibit A-1, Schedule A2.

Projected Financial Metrics are to be filed as Exhibit A-11, Schedule A2.

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[1] The Commission recognizes that certain financial metrics may not be available on a ratemaking basis for previous years when such ratemaking data was not required. At a minimum, the utilities must provide ratemaking financial metrics beginning with the year-end 2008 and each year thereafter. The utilities shall provide ratemaking financial metrics prior to the year-end 2008 when available.

[2] For the Overall Fixed Charge Coverage, "Gross Interest" shall be defined as gross interest expense per the income statement.

STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

INSERT CASE CAPTION

PROTECTIVE ORDER

This Protective Order governs the use and disposition of Protected Material that any Party discloses to another Party during the course of this proceeding. This Protective Order protects non-public, confidential information and materials so designated by the Disclosing Party as Protected Material, as defined herein. Accordingly, it is ordered:

I. "Protected Material" and Other Definitions

A. "Protected Material" consists of trade secrets or confidential, proprietary, or commercially sensitive information provided in Disclosing Party's application, exhibits, discovery or audit responses, any witness' related exhibits and testimony, motions, objections, briefing, responses to an order issued by the presiding hearing officer or the Michigan Public Service Commission ("MPSC" or the "Commission), and any arguments of counsel describing or relying upon the Protected Material. Subject to challenge under Paragraph IV.A, Protected Material shall also consist of non-public confidential information and materials including, but not limited to, the following information disclosed during the course of this case if it is marked as required by this Protective Order:

1. To the extent permitted, information obtained under license from a third-party licensor, to which the Disclosing Party or witnesses engaged by the Disclosing Party is a licensee, that is subject to any confidentiality or non-transferability clause. This information includes reports; analyses; models

(including related inputs and outputs); trade secrets; and confidential, proprietary, or commercially sensitive information that the Disclosing Party or one of its witnesses receives as a licensee and is authorized by the third-party licensor to disclose consistent with the terms and conditions of this Protective Order.

2. Information that is protected as confidential in another jurisdiction that the Applicant provides utility service, and the source of the other jurisdiction's protective designation is made known to the Receiving Party.

B. The information subject to this Protective Order does not include:

1. Information that is or has become available to the public through no fault of the Receiving Party or Reviewing Representative and no breach of this Protective Order, or information that is otherwise lawfully known by the Receiving Party without any obligation to hold it in confidence;

2. Information received from a third party free to disclose the information without restriction;

3. Information that is approved for release by written authorization of the Disclosing Party, but only to the extent of the authorization;

4. Information that is required by law or regulation to be disclosed, but only to the extent of the required disclosure; or Information that is disclosed in response to a valid, non-appealable order of a court of competent jurisdiction or governmental body, but only to the extent the order requires.

C. "Applicant" refers to the filing party in this proceeding.

D. "Disclosing Party" means a Party producing Protected Material in this proceeding.

E. "Party" refers to the Applicant, MPSC Staff ("Staff"), Michigan Attorney General, or any other person, company, organization, or association that is granted intervention in this case under the Commission's Rules of Practice and Procedure, Mich Admin Code, R 792.10401 et al.

F. "Receiving Party" means any Party to this proceeding who requests or receives access to Protected Material. A Receiving Party is responsible for assuring that persons, representatives, or agents under its control or supervision comply with this Protective Order.

G. "Reviewing Representative" means a representative of the Receiving Party who is:

1. An attorney who has entered an appearance in this proceeding for a Receiving Party;

2. An attorney, paralegal, or other employee associated, for the purpose of this case, with an attorney described in Paragraph I.G.1;

3. An expert or employee of an expert retained by a Receiving Party to advise, prepare for, or testify in this proceeding; or an employee or other representative of a Receiving Party with significant responsibility in this case.

H. "Nondisclosure Certificate" refers to Attachment 1 to this Protective Order.

Except as otherwise provided herein, the Reviewing Party and Reviewing Representatives will be required to sign Nondisclosure Certificates. However, Nondisclosure Certificates will not be required from administrative law judges, members of the Commission and its support staff, Staff (excluding consultants, third-party experts, agents or other similar persons), and Staff counsel, for whom by virtue of their employment are presumed to be bound by the terms of this Protective Order.

II. Access to and Use of Protected Material

A. This Protective Order governs the use of all provided Protected Material. This Protective Order protects: (i) the Protected Material; (ii) any copy or reproduction of the Protected Material made by any person; and (iii) any memorandum, handwritten notes, or any other form of information that copies, contains, or discloses Protected Material. All Protected Material in the possession of a Receiving Party and a Reviewing Representative shall be maintained in a secure place. Access to Protected Material shall be limited to the Receiving

Party and the Reviewing Representative, after each has executed the Nondisclosure Agreement and provided a copy of the Nondisclosure Agreement to the Disclosing Party, subject to the limited exception in Paragraph I.H.

B. Protected Material must be used and disclosed by the Receiving Party solely in accordance with the terms and conditions of this Protective Order. A Receiving Party and Reviewing Representative may analyze the Protected Material; make or respond to discovery; present evidence; prepare testimony, argument, briefs, or other filings; prepare for cross-examination; consider strategy; and evaluate settlement. A Reviewing Representative shall not release or disclose the content of Protected Material to any other person or use the information for any other purpose.

C. The Disclosing Party may request the Receiving Party withhold certain information from a Reviewing Representative and retains the right to object to any designated Reviewing Representative if the Disclosing Party has reason to believe that there is an unacceptable risk of misuse of confidential information. If a Disclosing Party objects to a Reviewing Representative, then the Disclosing Party shall submit the dispute to the presiding hearing officer simultaneously upon objection. If the Disclosing Party notifies a Receiving Party of an objection to a Reviewing Representative, then the Protected Material shall not be provided to that Reviewing Representative until the objection is resolved by agreement or by the presiding hearing officer.

D. If a Receiving Party seeks access to Critical Energy Infrastructure Information ("CEII") as defined in 16 U.S.C § 824o-1(a)(3) and FERC rules, specifically 18 CFR § 388.113(c), the Receiving Party and Reviewing Representative shall also sign the CEII Nondisclosure Certificate (Attachment 2 to this Protective Order) and provide a copy of the executed CEII Nondisclosure Certificates to the Disclosing Party.

E. The obligations under this Protective Order do not expire by entry of a final order in this case and are enforceable by the MPSC or a court of competent jurisdiction. To the extent Protected Material is not returned to a Disclosing Party, it remains subject to this Protective Order. Members of the Commission, Commission staff assigned to assist the Commission with its deliberations, and the presiding hearing officer shall have access to all Protected Material that is submitted to the Commission under seal.

F. A Party retains the right to seek further restrictions on the dissemination of Protected Material to persons who have or may subsequently seek to intervene in this MPSC proceeding.

G. Nothing in this Protective Order precludes a Party from asserting a timely evidentiary objection to the proposed admission of Protected Material into the evidentiary record for this case.

III. Procedures

A. The Disclosing Party shall identify what portion(s) of any document designated confidential it considers confidential. This can be done through highlights or other clear identifier. The Disclosing Party must mark any information that it considers confidential as "CONFIDENTIAL: SUBJECT TO THE PROTECTIVE ORDER ISSUED IN CASE NO. U-XXXXX." Software executable files containing Protected Material may not be capable of being marked with the foregoing required protective language. The inability to mark software executable files containing Protected Material with such protective language shall not diminish the requirements of this Protective Order. It shall be sufficient if the medium used to deliver software executable files containing Protected Material is marked with the required protective language. However, any output from the software executable files containing Protected Material that is generated only as a reproducible document, whether electronic or non-electronic, that is capable of being marked with the required protective language, shall be marked by the party who generated the output with such protective language and subject to the requirements of this Protective Order. If the Receiving Party or a Reviewing Representative makes copies of any Protected Material, they shall conspicuously mark the copies as Protected Material. Notes of Protected Material shall also be conspicuously marked as Protected Material by the person making the notes.

B. If a Receiving Party wants to quote, refer to, or otherwise use Protected Material in pleadings, pre-filed testimony, exhibits, cross-examination, briefs, oral argument, comments, or in some other form in this proceeding (including administrative or judicial appeals), the Receiving Party shall do so consistent with procedures that will maintain the confidentiality of the Protected Material. For purposes of this Protective Order, the following procedures apply:

1. Written submissions using Protected Material shall be filed in a sealed record to be maintained by the MPSC's Docket Section, or by a court of competent jurisdiction, in envelopes clearly marked on the outside, "CONFIDENTIAL – SUBJECT TO THE PROTECTIVE ORDER ISSUED IN CASE NO. U-XXXXX." Simultaneously, identical documents and materials, with the Protected Material redacted, shall be filed and disclosed the same way that evidence or briefs are usually filed;

2. Oral testimony, examination of witnesses, or argument about Protected Material shall be conducted on a separate record to be maintained by the MPSC's Docket Section or by a court of competent jurisdiction. These separate record proceedings shall be closed to all persons except those furnishing the Protected Material and persons otherwise subject to this Protective Order. The Receiving Party presenting the Protected Material during the course of the proceeding shall give the presiding officer or court sufficient notice to allow the presiding officer or court an opportunity to take measures to protect the confidentiality of the Protected Material; and

3. Copies of the documents filed with the MPSC which contain Protected Material, including the portions of the exhibits, transcripts, or briefs that refer

to Protected Material, shall be marked or identified as, "CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER IN CASE NO. U-XXXXX" and shall be maintained in a separate portion of the record under seal, segregated in the files of the Commission, and withheld from inspection by any person not bound by the terms of this Order.

C. The Protected Material subject to this Order shall be shielded from disclosure to the extent permitted by law. If any person files a request under the Freedom of Information Act ("FOIA") with the MPSC or the Michigan Attorney General seeking access to documents subject to this Protective Order, the MPSC's Executive Secretary, Staff, or the Attorney General shall promptly notify the Disclosing Party, and the Disclosing Party may take whatever legal actions it deems appropriate to protect the Protected Material from disclosure. In light of Section 5 of the Freedom of Information Act, MCL 15.235, the notice must be given at least five (5) business days before the MPSC, Staff, and/or the Michigan Attorney General grant the request in full or in part.

IV. Termination of Protected Status

A. A Receiving Party reserves the right to challenge by motion whether a document or information is Protected Material and whether this information can be withheld under this Protective Order. The Receiving Party challenging the protected status of the document must explicitly state its reason for challenging the confidential designation. In response to a motion, the Commission or the presiding hearing officer in this case may revoke a document's protected status after notice and hearing. If the presiding hearing officer revokes a document's protected status, then the document loses its protected status after 14 days unless a Party files an application for leave to appeal the ruling and a request for a stay to the Commission pursuant to R 792.10433. If the application for leave is timely, the document's protected status will continue during the Commission appeal process. Any Party opposing the application for leave to appeal and the stay shall file an answer with the Commission no more than 14 days after the filing and service of the appeal. Continued protected status post order, will be determined by the Commission in its order addressing the application for leave and the request for stay. Nothing in this paragraph shall prohibit the Disclosing Party from seeking a stay on appeal of the Commission's decision regarding the revocation of any document's protected status.

B. The Disclosing Party bears the burden of proving that the document should continue to be protected from disclosure.

V. Retention of Documents

Protected Material remains the property of the Disclosing Party and, except as required by applicable law and State retention schedules, only remains available to the Receiving Party until the time expires for petitions for rehearing of a final MPSC order, until the MPSC has ruled on all petitions for rehearing in this case (if any), or until judicial review is completed and the time to take further appeal has expired. If the Disclosing Party seeks to have the Receiving Party return all Protected Material in the Receiving Party's possession or in the possession of its Reviewing Representatives, or certify in writing that all Protected Material has been destroyed, it is the responsibility of the Disclosing Party to contact the Receiving Party and make its request no earlier than the expiration of time for filing petitions for rehearing of a final MPSC order, until the MPSC has ruled on all petitions for rehearing in this case (if any), or until judicial review is completed and the time to take further appeal has expired. Further, for a Receiving Party that is associated with the State, the request must be consistent with the expiration of the State retention requirement.

Notwithstanding the foregoing, counsel for the Receiving Party may maintain a single confidential file of Protected Material subject to all other provisions in this Order. Should counsel seek to refer to the Protected Material in another Commission proceeding, the Disclosing Party must be the Applicant in said proceeding and counsel must ensure there is a protective order in said proceeding which protects the Protected Material from public disclosure.

VI. Limitations and Disclosures

This Protective Order does not apply to a particular document, or portion of a document, described in Paragraph II.A if a Receiving Party can demonstrate that it has been previously disclosed by the Disclosing Party on a non-confidential basis or meets the criteria set forth in Paragraphs I.B.1 through I.B.4. A Receiving Party intending to disclose information taken directly from materials identified as Protected Material must-before actually disclosing the information-do one of the following: (i) contact the Disclosing Party's counsel of record and obtain written permission to disclose the information, or (ii) challenge the confidential nature of the Protected Material and obtain a ruling under Paragraph IV that the information is not confidential and may be disclosed in or on the public record.

VII. Remedies

If a Receiving Party violates this Protective Order by improperly disclosing or using Protected Material, the Receiving Party shall take all necessary steps to remedy the improper disclosure or use. This includes promptly notifying all Parties and the presiding hearing officer in writing. The written notice must identify the person known or reasonably suspected to have obtained the Protected Material. A Party or person that violates this Protective Order remains subject to this paragraph regardless of whether the Disclosing Party could have discovered the violation earlier than it was discovered. This paragraph applies to both inadvertent and intentional violations. Nothing in this Protective Order limits the Disclosing Party's rights and remedies, at law or in equity, against a Party or person using Protected Material in a manner not authorized by this Protective Order, including the right to obtain injunctive relief in a court of competent jurisdiction to prevent violations of this Protective Order.

VIII. Modification

Formal Addendums to this agreement may be established by an ALJ upon motion by any party and after notice and hearing.

MICHIGAN ADMINISTRATIVE HEARING SYSTEM
For the Michigan Public Service Commission

____
Administrative Law Judge

STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

INSERT CASE CAPTION

Attachment 1

NONDISCLOSURE CERTIFICATE

By signing this Nondisclosure Certificate, I acknowledge that access to Protected Material is provided to me under the terms and restrictions of the Protective Order issue in Case No. U-_____, that I have read the Protective Order, and that I agree to be bound by the terms of the Protective Order.

Reviewing Representative:

Date:__________ ________________________________

Receiving Party:

____

STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

INSERT CASE CAPTION

Attachment 2

NONDISCLOSURE CERTIFICATE

FOR CRITICAL ELECTRIC INFRASTRUCTURE INFORMATION

I hereby agree and certify my understanding that access to Critical Electric Infrastructure Information ("CEII") as defined at 16 USC Section 824o-1(a)(3) and 18 CFR Section 388.113(c) is provided to me pursuant to the terms and restriction of this CEII Nondisclosure Certificate and the Protective Order issued in Case No. U-_______, that I have been given a copy of and have read the Protective Order, and I agree to be bound by the terms of this CEII Nondisclosure Certificate and the Protective Order. I further agree that:

1. I will use CEII only for the purpose for which it was requested;

2. I will only discuss CEII with a Party and/or Reviewing Representative;

3. I will keep CEII in a secure place in a manner that prevents unauthorized access;

4. I will destroy CEII or return it to the disclosing party upon request;

5. I understand that CEII is not subject to release under the Freedom of Information Act;

6. I understand that I am obligated to protect CEII even after a designation as CEII has lapsed until a determination by the administrative law judge that the information should no longer be designated as CEII; and

7. I will report all unauthorized disclosures of CEII to the Disclosing Party.

Reviewing Representative:

Date:___________ __________________________________

Title:______________________________

Receiving Party:_______________________

Printed Name:_______________________

Information Technology (IT) Related

1. Provide the information shown in the template below.

2. File an Excel exhibit AND searchable PDF with Company application

3. Green: Optional fields

IT Filing Requirements

	Project Details													
	Spend Year	Business Case /Project Name	IT Portfoli o/Program	Witne ss (if multiple)	Investm ent/Business Category	Project Synopsis	Equipment involved and refresh live (if applicable)	Value/Benefit	Alternatives Considered including cloud services	Shared Asset or Electric Only (if applicable)	Cost Estimate Level (if applicable)	Project Start Date	Project End Date	Expected Total Project Cost (Capital + investment O&M)
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														

	Capital Expenditures						O&M Expenditures						Capital Expenditures in Last Rate Case U-XXXXX			
	Total Projected IT Cost	Projected Labor Cost	Projected Non-Labor Cost			Projected Overhead & Other Costs	Projected Total IT O&M Cost	Projected O&M Labor Costs	Projected O&M Non-Labor Costs			Projected Overhead & Other Costs	Total Amount Requested in Last Rate Case	Amount Approved in Commission Order	Actual Spend to Date Since Inception	Reason for Spend in Excess of Prior if over 20%
			Contractor	Materials	Software				Contractor	Materials	Software					
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																

Capital Project Information

1. Identify and list all projects with internal approval by area
2. Identify and list all projects without internal approval by area
3. Identify and list all projects with a completed business case by area
4. Identify and list all projects without a completed business case by area
5. For all “other” cost categories included in the projected costs, provide an accompanying definition of all included costs and sub-amounts. If these “other” costs vary by project, provide the definition for each project for all projected costs that are presented.

6. Provide confidence level of the cost projections and confidence categories, if applicable
    a. Add this to all exhibits with cost projections

7. Provide the last five years of actual and projected spend for all areas and sub-areas with projected spending in the case

Storm, Outage & Reliability Information

1. Provide the projected and actual emergent capital spend in storm and non-storm for the last 10 years by year.

2. Provide the total spent on strategic capital investments per year for the last 10 years.

3. Provide the following reliability data for the last five years and projected through the test year:
    a. SAIFI with and without MED
    b. CAIDI with and without MED
    c. MAIFI with and without MED
    d. Data for the above metrics for peer utilities in the Midwest
    e. Circuit Reliability Rankings worst 10 (SAIFI and SAIDI)
        i. Work plans to address reliability on these circuits.
        ii. Projected capital and O&M costs

4. Provide the following outage information for the last five years:
    a. Total number of customer outages by year and cause category
    b. Minimum and maximum outages experienced on Company circuits,
    c. Locations of the minimum and maximum outage on circuits noted on the service territory map with indication of the system type (4.8kV, 13.2kV, etc.).
    d. Number of customer reported outages by year and by method of report, like website platform, phone call, etc.

5. Provide the following storm data for the last five years.
    a. Provide a breakdown of capitalized replacement of assets during storms (i.e. Demand Failures/ Cap Restoration)
        i. Number of each type of asset replaced. (Transformers, meters, etc.)
        ii. Average Cost of Storm Replacement ($/meter, etc.)
    b. Total costs for capital and O&M for storm restoration by year with subtotals for:
        i. costs associated with utility crews from out of state
        ii. costs and revenues of Consumers storm restoration crews going out of state
    c. Number of storms with total outages by year, with some storm characteristics including but not limited to:
        i. wind speed,
        ii. temperature max and min,
        iii. number of customer outages,
        iv. number of customer reported outages
            a. number reported via phone
            b. number reported via web
        v. Map of impacted service territory areas with associated system type (4.8kV, 13.2kV, etc.)
        vi. Map showing the location of each wire down
        vii. Number of wire downs by cause code

General: After Initial Filing Date, at Prehearing or Mid-Audit:

6. Provide the actual spend of all projected amounts from the filing date to present.

7. Identify all projects that have initiated as of now.
    a. For projects that have not yet started, please identify the Company's certainty that it will occur during the identified year with a brief explanation.
    b. For projects that the Company is certain will occur, please provide an estimated confidence range (in percentages) that the Company has regarding the occurrence of the project in the identified year. Please provide the information in an Excel spreadsheet with projects listed by sub-program and information identified by year.

IRP Related

1. Provide project/resource information in the template below.

Integrated Resource Plan Filing Requirements

(MPSC Case No. U-XXXXX, Company Name)

	New Resource Information	Pre-approved Capital Spend Amount ($)				Actual/Requested Capital in Instant Rate Case ($)			
Line No.	Name Project/Resource Type/MW size	Amount pre-approved for Historic Test Year ($)	Amount pre-approved for Bridge Period ($)	Amount pre-approved for Projected Test Year	Case No(s). Pre-approval was granted.	Actual Historic Test Year	Requested Bridge Period	Requested Projected Test Year	Exhibit #
1	**Generation**								
2	*Coal Units*								
3	*Unit 1*								
4	*Unit 2*								
5	*NG Units*								
6	*Unit 1*								
7	*Unit 2*								
8	*Wind*								
9	*Unit 1*								
11	*Unit 2*								
12	*Solar*								
13	*Unit 1*								
14	*Unit 2*								
15	*Nuclear*								
16	*Unit 1*								
17	*Biomass*								
18	Unit 1								
19	*Rice*								
20	*Unit 1*								
21	*Other*								
22	**DR**								
23	*Program 1*								
24	*Program 2*								
25	*Program 3*								
26	**CVR**								
27	*Program name*								
28	**Storage**								
29	Unit 1								
30	Unit 2								
31	**Other Regulatory Pre-approvals**								
32									
33									