DTE Energy Company 6400 N. Dixie Highway Newport, MI 48166



EPP

August 20, 2020 NRC-20-0056

U.S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, DC 20555-0001

Fermi 2 Power Plant NRC Docket No. 50-341 NRC License No. NPF-43

Subject: Submittal of the National Pollutant Discharge Elimination System (NPDES) Permit Application for Amendment

In accordance with the requirement of Section 3.2 of the Fermi 2 Facility Operating License NPF-43, Appendix B, "Environmental Protection Plan," enclosed is a copy of the Fermi 2 National Pollutant Discharge Elimination System (NPDES) permit number MI0037028 Application for Amendment that has been submitted to the Michigan Department of Environment, Great Lakes, and Energy on August 20, 2020.

No new commitments are being made in this submittal.

Should you have any questions or require additional information, please contact me at (734) 586-5076.

Sincerely,

M. Muele

Margaret M. Offerle Manager - Nuclear Licensing

Enclosures:

- Letter dated August 19, 2020 from DTE to Michigan Department of Environmental, Great Lakes and Energy (EGLE), Request to Reduce Monitoring Frequency for Total Copper and Total Phosphorus DTE Electric Company – Enrico Fermi 2 Power Plant (ENFPP) NPDES Permit No. MI0037028.
  - 2.) Michigan Department of Environmental, Great Lakes and Energy (EGLE), MIWATERS 8/20/2020 Submission HNY-PAKD-377S6, version 2

USNRC NRC-20-0056 Page 2

cc: NRC Project Manager NRC Resident Office Regional Administrator, Region III Michigan Department of Environment, Great Lakes, and Energy Enclosure 1 to NRC-20-0056

Fermi 2 NRC Docket No. 50-341 Operating License No. NPF-43

Letter dated August 19, 2020 from DTE to Michigan Department of Environmental, Great Lakes and Energy (EGLE), Request to Reduce Monitoring Frequency for Total Copper and Total Phosphorus DTE Electric Company – Enrico Fermi 2 Power Plant (ENFPP) NPDES Permit No. MI0037028

August 19, 2020



Mr. Ken Mroczkowski Water Resources Division Michigan Department of Environmental Quality Jackson District Office 301 E. Louis B. Glick Hwy Jackson, MI 49201

Re: Request to Reduce Monitoring Frequency for Total Copper and Total Phosphorus DTE Electric Company – Enrico Fermi 2 Power Plant (ENFPP) NPDES Permit No. MI0037028

Dear Mr. Mroczkowski:

In accordance with Part I.A.1.e and Part I.A.1.f of the DTE Electric Company – Enrico Fermi 2 Power Plant (ENFPP) National Pollution Discharge Elimination System (NPDES) Permit No. MI0037028 (Permit), ENFPP requests to reduce monitoring frequency for Total Copper and Total Phosphorus from monthly to quarterly.

#### Total Copper

As of November 2019, ENFPP has submitted 12 months of data, as required per the Permit. Attachment 1 summarizes 13 months of Total Copper measurements (November 2018-November 2019). Throughout this period, Total Copper loading and concentration has remained well below Permit limits. Attachment 2 provides summary statistics on 12 months of data (November 2018-October 2019). The maximum value for Total Copper loading during this time is 3.9 lbs/day, about 26% of the Permit limit of 15 lbs/day. Additionally, the maximum value for Total Copper concentration is 14.1 ug/L, about 35% of the Permit limit of 40  $\mu$ g/L. A monitoring reduction from monthly to quarterly is appropriate because it is unlikely that Total Copper limits will be surpassed, and quarterly measurements will accurately represent Total Copper loading and concentration.

#### Total Phosphorus

Attachment 1 summarizes 13 months of Total Phosphorus measurements (November 2018-November 2019). Throughout this period, Total Phosphorus loading and concentration has remained well below Permit limits. Attachment 2 provides summary statistics on 12 months of data (November 2018-October 2019). The maximum value for Total Phosphorus loading during this time is 34 lbs/day, about 9% of the Permit limit of 380 lbs/day. Additionally, the maximum value for Total Phosphorus concentration is 0.11 mg/L, about 11% of the Permit limit of 1.0 mg/L. ENFPP is currently using two phosphorus-containing water treatment additives discharged to Outfall 001B that reach Outfall 001A, Depositrol BL5400 and Flogard MS6222. These two additives are highly diluted at levels around 0.12 ppm in the final discharge to Outfall 001A. Based on the above information, it is unlikely that Total Phosphorus limits will be surpassed, and quarterly measurements should sufficiently represent Total Phosphorus loading and concentration.

Additionally, phosphorus-containing water treatment additives currently in use are used infrequently and at low concentrations. Thus, a monitoring reduction from monthly to quarterly is appropriate.

If you have any questions related to this report or desire additional information, please contact me at (248) 207-7768 or via e-mail at <u>marcela.orlandea@dteenergy.com</u>.

Sincerely, DTE Energy Corporate Services, LLC

Marcela P. Orlandea, PE, LEED AP Senior Environmental Engineer Environmental Management & Resources

Cc: Mr. K. Mroczkowski - EGLE, Jackson District

Enclosures

ATTACHMENT 1 Summary of Total Copper and Total Phosphorus Data November 2018 – November 2019

#### OpenCDM Measurements - Samplepoint, Analysis, Sampledate Detroit Edison From: 01-Nov-2018 00:00 To: 25-Nov-2019 23:59

Unit: 2 - Enrico Fermi 2

Sample Point:	DECANT -	CW DECANT LINE	CT-N71-L420
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#### TITLE - DESCRIPTOR

Chem Spec - CHS-AUX-02

ChemSpecGroup - Auxiliary

NPDES - NPDES and CWPH

SystemNumber - W2500(Circ Water Decant)

<u>Analysis</u>	SystemNumber - W250 Value/Meas. Unit	Date/Time_	Power	<u>OpMode</u>	<u>Analyst</u>
Cu total (Total Copper ppb)	4.4 ppb	29-Nov-2018 09:15:00	100.00	1	SBK
<b>Results Comment:</b>	24 hr composite				
Cu total (Total Copper ppb)	1.8 ppb	14-Dec-2018 09:30:00	0.00	4	KPB
Cu total (Total Copper ppb)	3.5 ppb	11-Jan-2019 09:00:00	100.00	1	SBK
	pace result 24 hr. comp				
Cu total (Total Copper ppb)	2.9 ppb	08-Feb-2019 09:30:00	100.00	1	TRI
Cu total (Total Copper ppb)	11.3 ppb	02-Mar-2019 14:15:00	100.00	1	SBK
Cu total (Total Copper ppb)	9.4 ppb	02-Apr-2019 09:20:00	100.00	1	TRI
Cu total (Total Copper ppb)	14.1 ppb	06-May-2019 09:10:00	100.00	1	SBK
Cu total (Total Copper ppb)	10.3 ppb	03-Jun-2019 10:00:00	100.00	1	TRI
Cu total (Total Copper ppb)	6.4 ppb	09-Jul-2019 10:00:00	100.00	1	TRI
Cu total (Total Copper ppb)	4.6 ppb	07-Aug-2019 10:45:00	100.00	1	SBK
Cu total (Total Copper ppb)	10.6 ppb	02-Sep-2019 08:00:00	100.00	1	SBK
Cu total (Total Copper ppb)	5.4 ppb	02-Oct-2019 09:20:00	100.00	1	SBK
Cu total (Total Copper ppb)	4.1 ppb	03-Nov-2019 09:30:00	100.00	1	SBK
Phosphorus (Total Phosphorus)	0.053 PPM	29-Nov-2018 09:15:00	100.00	1	SBK
<b>Results Comment:</b>	24 hr composite				
Phosphorus (Total Phosphorus)	< 0.050 PPM	14-Dec-2018 09:30:00	0.00	4	KPB
Phosphorus (Total Phosphorus)	< 0.050 PPM	11-Jan-2019 09:00:00	100.00	1	SBK
<b>Results Comment:</b>	pace result 24 hr. comp				
Phosphorus (Total Phosphorus)	< 0.050 PPM	08-Feb-2019 09:30:00	100.00	1	TRI
Phosphorus (Total Phosphorus)	< 0.050 PPM	02-Mar-2019 14:15:00	100.00	1	SBK
Phosphorus (Total Phosphorus)	0.061 PPM	02-Apr-2019 09:20:00	100.00	1	TRI
Phosphorus (Total Phosphorus)	0.11 PPM	06-May-2019 09:10:00	100.00	1	SBK
Phosphorus (Total Phosphorus)	< 0.050 PPM	03-Jun-2019 10:00:00	100.00	1	TRI
Phosphorus (Total Phosphorus)	0.052 PPM	09-Jul-2019 10:00:00	100.00	1	TRI
Phosphorus (Total Phosphorus)	< 0.50 PPM	07-Aug-2019 10:45:00	100.00	1	SBK
Phosphorus (Total Phosphorus)	0.08 PPM	02-Sep-2019 08:00:00	100.00	1	SBK
Phosphorus (Total Phosphorus)	0.093 PPM	02-Oct-2019 09:20:00	100.00	1	SBK
Phosphorus (Total Phosphorus)	< 0.05 PPM	03-Nov-2019 09:30:00	100.00	1	SBK
TOTAL NUMBER OF MEASURE	MENTS: 26				

END OF MEASUREMENTS REPORT

#### ATTACHMENT 2 Summary Statistics on 12 months of Total Copper and Total Phosphorus Data November 2018 – October 2019

Summary Statistics				
	Phosphorus Loading (lbs/day) Permit Limit 380 lbs/day	Phosphorus Concentration (mg/L) Permit Limit 1.0 mg/L	<b>Copper Loading (lbs/day)</b> Permit Limit 15 lbs/day	Copper Concentration (ug/L) Permit Limit 40 ug/L
Mean	13.15	0.06	1.51	7
Median Standard Deviation	9.82 10.23	0.05 0.02	1.49 1.08	5.7 3.92
Range Minimum	34	0.06	<u> </u>	12.3 1.8
Maximum Count	34	0.11	3.9 12	14.1 12

Enclosure 2 to NRC-20-0056

Fermi 2 NRC Docket No. 50-341 Operating License No. NPF-43

Michigan Department of Environmental, Great Lakes and Energy (EGLE), MIWATERS 8/20/2020 Submission HNY-PAKD-377S6, version 2

# NPDES Monitoring Frequency Reduction Requests

version 1.4

(Submission #: HNY-PAKD-377S6, version 2)

# **Details**

Submission IDHNY-PAKD-377S6Submission ReasonModificationStatusSubmitted

# **Form Input**

### **Permit ID**

Permit Number (Pre-populated) MI0037028

## **Applicant Information**

The Applicant should be the business seeking certification or certification renewal.

►► Do NOT type the name of the individual filling out this form. Please type the company/entity name and address only.

#### Permittee Information **Permittee/Company Name** Prefix NONE PROVIDED First Name Last Name NONE PROVIDED NONE PROVIDED Title NONE PROVIDED **Organization Name** DTE Electric Company Phone Type Extension Number Business 2482077769 Email marcela.orlandea@dteenergy.com Fax NONE PROVIDED Permittee/Company Mailing Address **One Energy Plaza** 415 GO, F-40 Detroit, MI 48226 US

## Contacts (1 of 4)

#### CONTACTS

Provide contact information for each person as required for each area; a person may be identified for more than one category.

♦To add additional contacts, please use the "Add New Section" button at the bottom of this page, or select "Duplicate Section" to copy the contact information and edit a portion of the contact fields.

♦If a single contact has multiple roles, please enter the information once, and assign multiple roles.

**Contact** Annual Permit Billing Contact Application Contact

#### **Required Contact Types:**

► At minimum, any changes to the following contact types must be provided: Annual Permit Billing Contact; Application Contact; Facility Contact; DMR Contact; and Certified Operator

# Section I shall be completed by all permit applicants. Instructions for completing Section I are on Page 2 of the Appendix.

Appendix to the Permit Application

Contact		
Prefix Mrs.		
First Name Marcela	<b>Last Name</b> Orlandea	
Title Senior Environment	al Engineer	
Organization Name	9	
Phone Type	Number	Extension
Business	2482077768	
Email marcela.orlandea@	dteenergy.com	
Fax NONE PROVIDED		
1 ENERGY PLZ		
GO 415, F-40		
Detroit, MI 48226		
US		

## Contacts (2 of 4)

#### CONTACTS

Provide contact information for each person as required for each area; a person may be identified for more than one category.

♦To add additional contacts, please use the "Add New Section" button at the bottom of this page, or select "Duplicate Section" to copy the contact information and edit a portion of the contact fields.

♦If a single contact has multiple roles, please enter the information once, and assign multiple roles.

Contact Facility Contact

#### **Required Contact Types:**

► At minimum, any changes to the following contact types must be provided: Annual Permit Billing Contact; Application Contact; Facility Contact; DMR Contact; and Certified Operator

Section I shall be completed by all permit applicants. Instructions for completing Section I are on Page 2 of the Appendix.

#### Appendix to the Permit Application

C	ontact		
	<b>Prefix</b> Mr.		
	<b>First Name</b> Mathew	<b>Last Name</b> Caragher	
	<b>Title</b> Executive Director -	Nuclear Produc	ction
	Organization Name DTE Energy - Ferm		
	Phone Type	Number	Extension
	Business	7345865325	
	Email mathew.caragher@	dteenergy.com	
	Fax NONE PROVIDED		
	6400 North Dixie Hi	ghway	
	Newport, MI 48166		
	US		

## Contacts (3 of 4)

#### CONTACTS

Provide contact information for each person as required for each area; a person may be identified for more than one category.

♦To add additional contacts, please use the "Add New Section" button at the bottom of this page, or select "Duplicate Section" to copy the contact information and edit a portion of the contact fields.

♦If a single contact has multiple roles, please enter the information once, and assign multiple roles.

#### Contact

DMR Contact

#### **Required Contact Types:**

► At minimum, any changes to the following contact types must be provided: Annual Permit Billing Contact; Application Contact; Facility Contact; DMR Contact; and Certified Operator

Section I shall be completed by all permit applicants. Instructions for completing Section I are on Page 2 of the Appendix.

Appendix to the Permit Application

#### Contact

Prefix Mr.		
<b>First Name</b> John	<b>Last Name</b> Sawnick	
<b>Title</b> Staff Environmental	Engineer	
Organization Name DTE Energy - Ferm		
Phone Type	Number	Extension
Business	313.657.8339	
Email john.sawnick@dtee	nergy.com	
<b>Fax</b> NONE PROVIDED		
6400 North Dixie Hi	ghway	
Newport, MI 48166		
US		

## Contacts (4 of 4)

#### CONTACTS

Provide contact information for each person as required for each area; a person may be identified for more than one category.

♦To add additional contacts, please use the "Add New Section" button at the bottom of this page, or select "Duplicate Section" to copy the contact information and edit a portion of the contact fields.

♦If a single contact has multiple roles, please enter the information once, and assign multiple roles.

#### Contact

**Certified Operator** 

#### **Required Contact Types:**

► At minimum, any changes to the following contact types must be provided: Annual Permit Billing Contact; Application Contact; Facility Contact; DMR Contact; and Certified Operator

Section I shall be completed by all permit applicants. Instructions for completing Section I are on Page 2 of the Appendix.

Appendix to the Permit Application

#### Contact

Prefix Mr.		
<b>First Name</b> John	<b>Last Name</b> Tansek	
Title Chemistry Engin	eering Technician	
<b>Organization N</b> DTE Energy - Fe	<b>ame</b> ermi 2 Power Plant	
Phone Type	Number	Extension
Business	734.586.5388	
Email john.tansek@dte	eenergy.com	
Fax NONE PROVIDI	ΞD	
6400 North Dixie	e Highway	
Newport, MI 481	66	
US		
<b>Certification Number(s)</b> W-6149		
Certification Class	sification(s)	

A-1d, A-1h, B-2a, B-2c,

## **Changes Requested**

The monitoring frequency reduction request is limited to what the effective permit allows. Please specify the permit condition that details which parameter(s) can have reduced monitoring (i.e. Part I.A.1.x.), the parameter(s) that is/are being requested for reduced monitoring (i.e. Total Suspended Solids), and the frequency that is being requested for the reduction (i.e. from daily to monthly), and an explanation of why reduced monitoring is warranted here or as an attachment. NONE PROVIDED

#### **Documents (As needed)**

Request for Reduction in Sampling 08.19.20.pdf - 08/19/2020 04:30 PM Comment NONE PROVIDED

# Attachments

Date	Attachment Name	Context	User
8/19/2020 4:30 PM	Request for Reduction in Sampling 08.19.20.pdf	Attachment	Marcela Orlandea

## **Status History**

	User	Processing Status
8/19/2020 11:44:03 AM	Marcela Orlandea	Draft
8/20/2020 5:12:13 AM	Mathew Caragher	Submitted

# **Revisions**

Revision	Revision Date	<b>Revision By</b>
Revision 1	4/1/2020 11:53 AM	Marcela Orlandea
Revision 2	8/19/2020 11:44 AM	Marcela Orlandea