


VERIFICATION

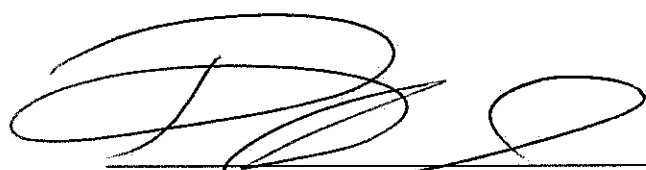
STATE OF OHIO)
) **SS:**
COUNTY OF HAMILTON)

The undersigned, Chad Donner, Principal Engineer, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing post hearing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.



Chad Donner Affiant

Subscribed and sworn to before me by Chad Donner on this 9th day of Jan, 2025.
2025.



NOTARY PUBLIC


My Commission Expires:

 **ROCCO O. D'ASCENZO**
ATTORNEY AT LAW
Notary Public, State of Ohio
My Commission Has No Expiration
Section 147.03 R.C.

VERIFICATION

STATE OF OHIO)
)
COUNTY OF HAMILTON) SS:

The undersigned, J. Michael Geers, Manager of the EHS Energy Transition Group, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing post hearing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.



J. Michael Geers Affiant

Subscribed and sworn to before me by J. Michael Geers on this 16th day of January, 2025.



NOTARY PUBLIC

My Commission Expires:



ROCCO O. D'ASCENZO
ATTORNEY AT LAW
Notary Public, State of Ohio
My Commission Has No Expiration
Section 147.03 R.C.

KyPSC Case No. 2024-00197
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Duke Energy Kentucky
Case No. 2024-00197
SIERRA First Set Post Hearing Data Requests
Date Received: December 20, 2024

SIERRA-PHDR-01-001 Confidential (as to Attachment Only)

REQUEST:

Produce Duke Energy Corporation's most recent forecast of natural gas prices.

RESPONSE:

Confidential Proprietary Trade Secret (As to Attachment only)

See Confidential SIERRA-PHDR-01-001 Attachment.

PERSON RESPONSIBLE: Matt Kalembe

**CONFIDENTIAL PROPRIETARY TRADE
SECRET**

**SIERRA-PHDR-01-001
CONFIDENTIAL ATTACHMENT**

FILED UNDER SEAL

Duke Energy Kentucky
Case No. 2024-00197
SIERRA First Set Post Hearing Data Requests
Date Received: December 20, 2024

SIERRA-PHDR-01-002

REQUEST:

Produce the Company's estimate of costs to bring the East Bend coal unit into compliance with EPA's Supplemental Effluent Limitations Guidelines and Standards for the Steam Electric Power Generating Point Source Category, 89 Fed. Reg. 40,198 (May 9, 2024), including, without limitation, consideration of the coal residual leachate requirements.

- a. Please break down all costs by component or treatment or process change, and include all component-specific estimates.
- b. Please confirm that under the Supplemental ELG Rule, ceasing coal combustion at East Bend by 2034 would avoid the requirement to achieve zero-discharge for leachate.
- c. Please provide the costs that would be avoided if Duke is not required to install zero-discharge technology for leachate discharges from East Bend.

RESPONSE:

- a. Current East Bend ELG compliance is estimated at \$7.5M at this time to reroute the landfill leachate back into the existing fixation process for station scrubber waste.
- b. Confirmed
- c. If Duke Energy Kentucky is not required to install a zero-discharge technology, leachate may be able to continue to operate as is and the cost in response (a.) could potentially be avoided. However, mercury and arsenic limits are outlined

in the ELG Supplemental for sites ceasing coal that may require additional treatment.

PERSON RESPONSIBLE: Chad Donner

Duke Energy Kentucky
Case No. 2024-00197
SIERRA First Set Post Hearing Data Requests
Date Received: December 20, 2024

SIERRA-PHDR-01-003

REQUEST:

Refer to the Company's response to Sierra Club Post-Hearing Information Request #2. State whether the Company could avoid or reduce compliance costs by taking advantage of the exemption for an electric generating unit ("EGU") that ceases burning coal by 2034. If some compliance costs could be avoided by ceasing coal burning and others could not, please break down the costs that could and could not be avoided.

RESPONSE:

Evaluations are ongoing as to whether additional treatment would be required and at this time Duke Energy Kentucky does not have costs developed for leachate management at East Bend.

PERSON RESPONSIBLE: Chad Donner

**Duke Energy Kentucky
Case No. 2024-00197
SIERRA First Set Post Hearing Data Requests
Date Received: December 20, 2024**

SIERRA-PHDR-01-004

REQUEST:

Confirm that, under the April 2024 ELG Update Final rule, a coal unit that ceases burning coal by 2034 does not need to achieve zero discharge of coal residual leachate requirement, but could instead use chemical participation as a compliance measure. If denied, please state the complete basis of your denial.

RESPONSE:

If treatment is required, chemical precipitation could be a potential compliance mechanism.

PERSON RESPONSIBLE: Chad Donner

Duke Energy Kentucky
Case No. 2024-00197
SIERRA First Set Post Hearing Data Requests
Date Received: December 20, 2024

SIERRA-PHDR-01-005

REQUEST:

Please refer to the hearing testimony of Mr. Michael Geers, and answer the following questions with respect to the East Bend coal unit:

- a. Please identify any exceedances of the currently-applicable MATS standards;
- b. Please provide the rolling 30-day filterable pm emissions both on an absolute basis (i.e., total pounds) and lbs/MMBtu basis, as well as the MMBtu heat input.
- c. Refer to the Company's response to Sierra Club Post-Hearing Information Request 5(b). Based on these reported emissions, please identify any set of emission that would have violated a 30-boiler-day rolling average of 0.010 pounds/MMBTU;
- d. Please state whether East Bend could comply with EPA's National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units Review of the Residual Risk and Technology Review, 89 Fed. Reg. 38,508 (May 7, 2024) ["MATS Update Rule"], without going through the FGD upgrade proposed in Commission Case No. 2024-00152, soon to be re-filed under a new case number.

- e. Please confirm that in the MATS Update Rule, EPA did not include East Bend among the power plants that the agency projected to have compliance costs or obligations.
- f. Please state whether the Company considered any other compliance pathways for the MATS Update Rule. For each alternative considered, including the FGD upgrade, please provide the:
 - i. Estimated capital costs;
 - ii. Estimated increase in O&M costs; and
 - iii. Estimated reductions in fPM emissions
- g. Please provide the comments of the Company on the MATS Update Rule.

RESPONSE:

- a.) To date, East Bend has not had an exceedance of the 30-day rolling average 0.03 lbs filterable particulate /mmBtu heat input standard as specified in the 2012 Mercury and Air Toxics Standard (MATS).
- b.) Objection, this request is overbroad and unduly burdensome insofar that this request does not specify a time period for which the data is requested. This request is further objectionable insofar as it is duplicative of other responses. A portion of the request is repetitive to request to KSES-DR-01-042 which sought “hourly filterable PM emissions from East Bend for the past three years.” This request is further objectionable in that it seeks information that is not collected in the format requested. Attachment KSES-01-042 contained this data for the 3rd quarter of 2021 through the 2nd quarter of 2024. The 30-day rolling averages of heat input and PM mass emissions are not parameters required by the recordkeeping and reporting requirements of the MATS rule and are not generated. Furthermore, under the

MATS rule, this data is not used for the calculation of 30-day rolling averages of PM emissions rates for each compliance day, rather hourly data is used. Further objection in that the data is currently collected using current rule the calibration and certification requirements. The 2024 update contains more restrictive certification requirements based on the new lower emission limit making compliance more challenging which impacts the comparability of the data to the new standard. Without waving these objections, Sierra-PHDR-01-005 Attachment 1 contains data for the period July 1, 2021, through June 30, 2024. Included are the hourly values for heat input (MMBTU) and filterable PM (LB/HR) as well as the calculated 30-day rolling average filterable PM emission rate (LB/MMBTU). Data was extracted from the CEMS DAS and is what was used for creating the quarterly EDRs and includes both operating and non-operating days.

- c.) See Sierra-PHDR-01-005 Attachment 1. The specific days during this three-year period where the 30-day rolling average filterable emission rate was above 0.01 lb/MMBtu have been color coded, and a simple frequency analysis has been performed using the appropriate Excel tool.
- d.) As shown in Sierra-PHDR-01-005 Attachment 1, each one-year period analyzed had many daily averages that were above the 0.01 LB/MMBTU emission rate limit contained in the 2024 rule. Achieving compliance would not be possible without upgrades to the FGD system.
- e.) Objection in that the request does not cite a specific data source (e.g., in either the proposal or final rule) and could be construed to mean “any costs” related to compliance, no matter how small. As a result, the request calls for speculation.

Without waving objections, the final updated MATS does not identify East Bend as requiring significant compliance costs for control system upgrades. However this result is not surprising because of the limitations in EPA's analysis. As discussed in the response to part g.), EPA evaluated only "best case" circumstances when evaluating compliance with a revised filterable PM standard as opposed to compliance with all representative operating conditions. East Bend as well as all other units must operate in continuous compliance with the MATS standards.

- f.) The Company did not consider other compliance pathways. Because the FGD modules are the last devices in the flue gas flow path prior to the stack, upgrading these modules is the only appropriate project. Upgrading the recirculation pups, piping, headers, nozzles, etc. would be required regardless of whether the unit converts from lime to limestone as its reagent. As one reason, East Bend controls sulfuric acid mist that is generated by the operation of the SCR by injecting a dry sorbent injection into the flue gas. Due to configuration of the unit, specifically the location of the hot side precipitator, the sulfuric acid mist created in the SCR must be mitigated downstream of the hot side ESP, and the particulates produced in that reaction must be removed in the FGD system. Wet FGD systems in general can be effective at removing particulates, however the additional particulate capture required by the more stringent fPM standard of the 2024 MATS revised rule is beyond the current capability of the current system, and an upgrade to the FGD system is required.
- g.) Duke Energy participated in the preparation and submission of three sets of comments on the MATS Update rule. In addition to its own comments, it contributed to and supported the submission of comments by the Utility

Information Exchange Kentucky (UIEK), and the Class of 85 Regulatory Response Group. A copy of each is presented as Attachments Sierra-PHDR-01-005 Attachment 2, Sierra-PHDR-01-005 Attachment 3, and Sierra-PHDR-01-005 Attachment 4. Refer to Section 2.c of the UIEK comments and Section 2 of the Class of 85 comments concerning EPA's development of the revised filterable PM standard.

PERSON RESPONSIBLE: Legal- As to objections
J. Michael Geers

East Bend Unit 2 Data - IRP Request Sierra-PHDR-01-005

Date/Hour	UNIT2 HEATIN (MMBTU) Value	UNIT2 PM#/HR (LB/HR) Value
07/01/2021 00	4402.1	37.423495
07/01/2021 01	3499.7	36.35635
07/01/2021 02	3652.2	36.303078
07/01/2021 03	3696.3	34.350507
07/01/2021 04	3684.8	34.667347
07/01/2021 05	3923.6	38.897909
07/01/2021 06	5325.9	63.986452
07/01/2021 07	6266.6	81.70719
07/01/2021 08	6632	79.398503
07/01/2021 09	6677.6	73.892162
07/01/2021 10	6695.1	69.216796
07/01/2021 11	6738.1	63.889498
07/01/2021 12	6741.3	61.530928
07/01/2021 13	6740.1	59.354484
07/01/2021 14	6739.2	57.330524
07/01/2021 15	6734.4	55.425351
07/01/2021 16	6726.3	56.02915
07/01/2021 17	6710.9	54.562988
07/01/2021 18	6709.9	51.730384
07/01/2021 19	6703.6	54.354478
07/01/2021 20	6730.1	53.376391
07/01/2021 21	6702.7	50.783848
07/01/2021 22	6712.2	50.632503
07/01/2021 23	6640.4	47.296024
07/02/2021 00	6664.6	48.797378
07/02/2021 01	6611.5	44.746668
07/02/2021 02	5628.4	35.815478
07/02/2021 03	4532.6	28.45073
07/02/2021 04	4372.2	34.076176
07/02/2021 05	3901.9	27.877375
07/02/2021 06	4513.6	39.580545
07/02/2021 07	5651.6	57.511891
07/02/2021 08	6580.3	65.085172
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07/02/2021 10	6715.4	55.090272
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07/03/2021 01	5568.7	32.010648
07/03/2021 02	4519.3	28.504874
07/03/2021 03	3760.2	25.992443
07/03/2021 04	3735.4	25.402088
07/03/2021 05	3736.5	26.667039
07/03/2021 06	3767.6	27.628308
07/03/2021 07	3756.5	28.758484
07/03/2021 08	3774.5	29.584829
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01/31/2022 09	6519.7	58.230401
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01/31/2022 11	6505.7	63.794842
01/31/2022 12	6522.2	64.185147
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01/31/2022 15	6516	66.782679
01/31/2022 16	6478.9	64.967248
01/31/2022 17	6529.1	66.688675
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01/31/2022 21	5618.5	43.632414
01/31/2022 22	2931.9	20.420315
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02/03/2022 10	240.3	13.54132
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04/14/2022 09	5032.9	47.856667
04/14/2022 10	4900.3	34.603476
04/14/2022 11	4901.3	36.152834
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04/14/2022 15	4939	34.85398
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04/14/2022 17	3749.6	30.125186
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06/24/2022 12	6573.7	49.801728
06/24/2022 13	6848.7	51.36043
06/24/2022 14	6839.4	56.644823
06/24/2022 15	6841.5	50.91871
06/24/2022 16	6834.7	56.451473
06/24/2022 17	6795	39.251302
06/24/2022 18	6858.9	37.274722
06/24/2022 19	6866.9	38.720101
06/24/2022 20	6838.6	38.715869
06/24/2022 21	6811.1	43.737953
06/24/2022 22	6715.7	45.335198
06/24/2022 23	5880.9	35.228674
06/25/2022 00	5731.2	35.824828
06/25/2022 01	5631.8	34.130871
06/25/2022 02	5633.3	41.579208
06/25/2022 03	5637.7	47.457216
06/25/2022 04	5642.6	38.862057
06/25/2022 05	5701.1	37.993955
06/25/2022 06	5761.1	41.384809
06/25/2022 07	5818.9	45.253611
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06/25/2022 10	5816.7	35.933246
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06/25/2022 12	5765.6	42.868085
06/25/2022 13	5647.2	42.030335
06/25/2022 14	5894.7	47.769939
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06/25/2022 16	6844.8	50.24395

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06/26/2022 02	5629.5	46.323082
06/26/2022 03	5652.2	48.994021
06/26/2022 04	5651.1	41.809491
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06/26/2022 06	5636.6	52.665725
06/26/2022 07	5648.5	46.572223
06/26/2022 08	5635.2	36.585488
06/26/2022 09	5674.4	45.307226
06/26/2022 10	5676.3	39.847969
06/26/2022 11	5688.1	39.027366
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06/26/2022 13	5709.5	40.943907
06/26/2022 14	5750	45.903531
06/26/2022 15	5816.4	55.317725
06/26/2022 16	6119.6	37.365759
06/26/2022 17	6085.8	41.958554
06/26/2022 18	5600.2	47.595428
06/26/2022 19	5630.4	53.332951
06/26/2022 20	5917.1	42.694124
06/26/2022 21	5597.1	54.065299
06/26/2022 22	5643.3	39.00624
06/26/2022 23	5584.9	41.889056
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06/27/2022 04	5580.5	52.07299
06/27/2022 05	5464.3	49.0996
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06/27/2022 07	5722.7	52.39962
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06/27/2022 13	5512.8	59.968434
06/27/2022 14	5591.3	62.111275
06/27/2022 15	5516.3	45.618381

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06/27/2022 19	5521.4	56.769083
06/27/2022 20	5484.2	50.496943
06/27/2022 21	5534.5	52.285942
06/27/2022 22	5591.9	53.944801
06/27/2022 23	5538	62.621884
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06/28/2022 02	5556.9	57.43554
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06/28/2022 05	5460.5	46.835583
06/28/2022 06	5536.5	50.447422
06/28/2022 07	5876.8	54.185049
06/28/2022 08	6706.2	34.971846
06/28/2022 09	6777.2	45.980163
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06/28/2022 11	6725.3	46.849104
06/28/2022 12	6755.2	36.571283
06/28/2022 13	6745.4	38.412453
06/28/2022 14	6710.7	37.461292
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06/28/2022 18	6702.1	56.683948
06/28/2022 19	6703.7	50.372746
06/28/2022 20	6442	36.617024
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06/29/2022 03	5495.7	45.17689
06/29/2022 04	5488.7	55.416581
06/29/2022 05	5363.6	51.308753
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06/29/2022 08	5490.9	36.935411
06/29/2022 09	5491.1	39.472303
06/29/2022 10	5508.6	38.347298
06/29/2022 11	5528.2	31.728706
06/29/2022 12	6229.3	37.003347
06/29/2022 13	6772.2	48.453787
06/29/2022 14	6763.6	46.112731

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06/29/2022 16	6739	51.773634
06/29/2022 17	6739.4	54.19892
06/29/2022 18	6729.9	50.570202
06/29/2022 19	6753.7	45.818116
06/29/2022 20	6752.9	58.252087
06/29/2022 21	6761.8	61.821906
06/29/2022 22	6599.6	52.18529
06/29/2022 23	5911.1	47.927736
06/30/2022 00	5518.4	42.707067
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06/30/2022 02	5522.5	52.485713
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06/30/2022 04	5510.9	42.58075
06/30/2022 05	5406.5	54.03868
06/30/2022 06	5459.4	41.76572
06/30/2022 07	5490.1	39.259925
06/30/2022 08	5540.9	39.39287
06/30/2022 09	5550.7	45.560118
06/30/2022 10	5536.7	38.542975
06/30/2022 11	5613.3	46.600944
06/30/2022 12	5527.7	41.57113
06/30/2022 13	5587.6	43.385966
06/30/2022 14	5774.2	41.144825
06/30/2022 15	6191.2	35.629986
06/30/2022 16	6728.6	43.923426
06/30/2022 17	6810.5	46.647552
06/30/2022 18	6739.2	43.318511
06/30/2022 19	6676.9	36.755176
06/30/2022 20	6623.1	35.059228
06/30/2022 21	6505.9	36.025553
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06/30/2022 23	5572.5	44.957415
07/01/2022 00	5599.2	38.759313
07/01/2022 01	5616	47.240938
07/01/2022 02	5624.8	41.75209
07/01/2022 03	5575.7	54.711671
07/01/2022 04	5607.4	46.004475
07/01/2022 05	5508.8	46.611958
07/01/2022 06	5576	46.180539
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07/01/2022 08	5757.4	40.677867
07/01/2022 09	5620	39.299611
07/01/2022 10	6111.4	42.758741
07/01/2022 11	6400.1	32.457457
07/01/2022 12	5979.9	32.463934
07/01/2022 13	6300.1	42.384656

07/01/2022 14	6658.4	43.526048
07/01/2022 15	6691.8	43.894636
07/01/2022 16	6658.8	51.606491
07/01/2022 17	6629.4	38.794335
07/01/2022 18	6613.2	37.882335
07/01/2022 19	6638.9	37.433449
07/01/2022 20	6539.1	34.520229
07/01/2022 21	6008.3	42.599812
07/01/2022 22	5590	40.113481
07/01/2022 23	5616.3	41.35394
	Avg: 5172.7	Avg: 47.622943

East Bend Unit 2 Data - IRP Request Sierra-PHDR-01-005		
Date/Hour	UNIT2 HEATIN (MMBTU) Value	UNIT2 PM#/HR (LB/HR) Value
07/01/2022 00	5599.2	38.759313
07/01/2022 01	5616	47.240938
07/01/2022 02	5624.8	41.75209
07/01/2022 03	5575.7	54.711671
07/01/2022 04	5607.4	46.004475
07/01/2022 05	5508.8	46.611958
07/01/2022 06	5576	46.180539
07/01/2022 07	5599	51.62321
07/01/2022 08	5757.4	40.677867
07/01/2022 09	5620	39.299611
07/01/2022 10	6111.4	42.758741
07/01/2022 11	6400.1	32.457457
07/01/2022 12	5979.9	32.463934
07/01/2022 13	6300.1	42.384656
07/01/2022 14	6658.4	43.526048
07/01/2022 15	6691.8	43.894636
07/01/2022 16	6658.8	51.606491
07/01/2022 17	6629.4	38.794335
07/01/2022 18	6613.2	37.882335
07/01/2022 19	6638.9	37.433449
07/01/2022 20	6539.1	34.520229
07/01/2022 21	6008.3	42.599812
07/01/2022 22	5590	40.113481
07/01/2022 23	5616.3	41.35394
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07/02/2022 01	5612.3	50.2898
07/02/2022 02	5613.8	61.021912
07/02/2022 03	5616.5	37.920811
07/02/2022 04	5604.9	47.915169
07/02/2022 05	5485.1	77.011334
07/02/2022 06	5557.3	50.426691
07/02/2022 07	5592.2	50.179482
07/02/2022 08	5616.9	34.594808
07/02/2022 09	5645	33.583454
07/02/2022 10	5626.4	37.374137
07/02/2022 11	5587.2	45.750583
07/02/2022 12	6187.2	43.487869
07/02/2022 13	6679.7	53.343941
07/02/2022 14	6661.7	40.704508
07/02/2022 15	6673.7	34.031499
07/02/2022 16	6641.9	36.256728

07/02/2022 17	6627.9	33.723618
07/02/2022 18	6446.2	30.988631
07/02/2022 19	5684.1	34.475422
07/02/2022 20	5684.1	48.784713
07/02/2022 21	5684.6	52.328565
07/02/2022 22	5686.8	57.208764
07/02/2022 23	5718.3	53.266934
07/03/2022 00	5647.3	53.810945
07/03/2022 01	5654.5	40.409874
07/03/2022 02	5702.7	42.052171
07/03/2022 03	5627.6	49.247537
07/03/2022 04	5677.9	41.383763
07/03/2022 05	5546.6	54.753767
07/03/2022 06	5628.1	49.599741
07/03/2022 07	5671.7	52.013947
07/03/2022 08	5744.2	43.269894
07/03/2022 09	5723.2	43.181529
07/03/2022 10	5682.9	41.975316
07/03/2022 11	5678.6	47.836508
07/03/2022 12	6315.1	38.505632
07/03/2022 13	6832.9	43.616882
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07/03/2022 15	6828.3	43.891258
07/03/2022 16	6813.6	38.719656
07/03/2022 17	6866.1	39.089121
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07/03/2022 19	6621.6	40.868877
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07/03/2022 21	5677.3	46.300448
07/03/2022 22	5725.6	51.028717
07/03/2022 23	5673.5	46.498029
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07/04/2022 01	5673.3	54.199567
07/04/2022 02	5727	55.236168
07/04/2022 03	5676.2	62.353599
07/04/2022 04	5723.2	49.120736
07/04/2022 05	5588.5	51.959638
07/04/2022 06	5660.4	58.686526
07/04/2022 07	5720.8	47.632975
07/04/2022 08	5721.6	43.867719
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07/04/2022 14	6816.1	61.096574
07/04/2022 15	6782.8	48.049144

07/04/2022 16	6783.8	58.919402
07/04/2022 17	6843.2	56.742682
07/04/2022 18	6782.8	53.404259
07/04/2022 19	6775.7	55.910531
07/04/2022 20	6740.5	62.441573
07/04/2022 21	6752.6	48.436053
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07/05/2022 02	5713	104.361454
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07/05/2022 05	5556.6	48.723392
07/05/2022 06	5640	40.357817
07/05/2022 07	5713.3	57.968006
07/05/2022 08	5669.3	46.235422
07/05/2022 09	5881.1	37.964987
07/05/2022 10	5623	39.977574
07/05/2022 11	5915.3	46.648176
07/05/2022 12	6363.6	36.90479
07/05/2022 13	6322.5	38.260924
07/05/2022 14	6226	49.022616
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07/05/2022 16	6642.3	46.032326
07/05/2022 17	6692.3	41.156392
07/05/2022 18	6710.8	45.74767
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07/06/2022 00	5688.2	67.154754
07/06/2022 01	5685.3	73.080478
07/06/2022 02	5700.2	80.3865
07/06/2022 03	5675.5	86.412893
07/06/2022 04	5728.8	77.635247
07/06/2022 05	5633.6	84.368045
07/06/2022 06	5664.3	64.321071
07/06/2022 07	5666.1	61.752979
07/06/2022 08	5751.6	68.253202
07/06/2022 09	5929	65.377301
07/06/2022 10	6516	56.608629
07/06/2022 11	6575.1	46.698318
07/06/2022 12	6533.7	42.771902
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07/07/2022 04	5737.3	42.641295
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07/08/2022 05	5662.1	54.791214
07/08/2022 06	5737.4	44.614009
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07/28/2022 19	6616.2	58.249242
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04/16/2023 13	4193.4	36.218483
04/16/2023 14	4165.5	35.634253

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04/16/2023 18	4378.6	36.249867
04/16/2023 19	4625.6	42.192099
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07/01/2023 00	4693	42.109027
07/01/2023 01	4152.3	21.583776
07/01/2023 02	4158.2	21.940671
07/01/2023 03	4185.4	22.083862
07/01/2023 04	4194.7	22.680867

07/01/2023 05	4082.1	24.071445
07/01/2023 06	4169.4	24.22265
07/01/2023 07	4137.8	23.886628
07/01/2023 08	4684	35.392611
07/01/2023 09	5292.4	45.399791
07/01/2023 10	5893.6	56.056523
07/01/2023 11	6318.5	62.702083
07/01/2023 12	6545.4	62.789986
07/01/2023 13	6717.1	61.488464
07/01/2023 14	6602.5	57.75413
07/01/2023 15	6690.2	54.982168
07/01/2023 16	6769.8	52.248206
07/01/2023 17	6781.5	54.978276
07/01/2023 18	6791.6	52.642815
07/01/2023 19	6793.4	54.545875
07/01/2023 20	5855.2	43.820807
07/01/2023 21	4992.9	39.949699
07/01/2023 22	5020.9	35.403018
07/01/2023 23	5045	34.880381
	Avg: 4444.3	Avg: 56.485355

East Bend Unit 2 Data - IRP Request Sierra-PHDR-01-005

Date/Hour	UNIT2 HEATIN (MMBTU) Value	UNIT2 PM#/HR (LB/HR) Value
07/01/2023 00	4693	42.109027
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07/01/2023 02	4158.2	21.940671
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07/01/2023 04	4194.7	22.680867
07/01/2023 05	4082.1	24.071445
07/01/2023 06	4169.4	24.22265
07/01/2023 07	4137.8	23.886628
07/01/2023 08	4684	35.392611
07/01/2023 09	5292.4	45.399791
07/01/2023 10	5893.6	56.056523
07/01/2023 11	6318.5	62.702083
07/01/2023 12	6545.4	62.789986
07/01/2023 13	6717.1	61.488464
07/01/2023 14	6602.5	57.75413
07/01/2023 15	6690.2	54.982168
07/01/2023 16	6769.8	52.248206
07/01/2023 17	6781.5	54.978276
07/01/2023 18	6791.6	52.642815
07/01/2023 19	6793.4	54.545875
07/01/2023 20	5855.2	43.820807
07/01/2023 21	4992.9	39.949699
07/01/2023 22	5020.9	35.403018
07/01/2023 23	5045	34.880381
07/02/2023 00	5051.9	35.93684
07/02/2023 01	5032	37.993235
07/02/2023 02	5039.7	38.114268
07/02/2023 03	5040.9	39.31863
07/02/2023 04	5046.9	39.932688
07/02/2023 05	4433.2	36.418919
07/02/2023 06	4322.1	34.885428
07/02/2023 07	4314.4	34.315825
07/02/2023 08	4360.7	36.199954
07/02/2023 09	4302.8	38.213835
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07/03/2023 02	4158.7	22.818338
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07/03/2023 05	4053.2	24.423265
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07/03/2023 13	5052	46.937457
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07/03/2023 19	6654.2	54.859324
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07/03/2023 21	6329.2	51.648924
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07/05/2023 04	4084.2	17.922917
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07/05/2023 09	5660.7	51.140844
07/05/2023 10	6395.6	66.82159
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07/16/2023 06	4142.4	26.672002
07/16/2023 07	4154	27.614806
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07/16/2023 14	4395.3	35.182093
07/16/2023 15	4725	38.878802
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07/17/2023 04	4127.5	20.4092
07/17/2023 05	4086.3	20.707113
07/17/2023 06	4128	20.890991
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05/24/2024 14	4549	28.635235
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06/11/2024 03	4226.6	27.127227
06/11/2024 04	4256.5	29.02667
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06/11/2024 08	4298.7	32.188666
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06/28/2024 08	4297.4	48.842945
06/28/2024 09	4056.8	46.115073
06/28/2024 10	4132.8	46.971694
06/28/2024 11	4295.6	49.383622
06/28/2024 12	4994.2	63.028368
06/28/2024 13	4887.8	62.385648
06/28/2024 14	6113.9	118.143667
06/28/2024 15	6402.3	91.801382
06/28/2024 16	6429.6	83.619994
06/28/2024 17	6465.5	73.384796
06/28/2024 18	6469.8	71.138527
06/28/2024 19	6448.3	62.516551
06/28/2024 20	6484	62.095831
06/28/2024 21	6148.6	51.428395
06/28/2024 22	5203.7	44.000412
06/28/2024 23	4250.9	44.294971
06/29/2024 00	4150.6	42.126552
06/29/2024 01	4138.1	39.199742
06/29/2024 02	4167.4	39.47711
06/29/2024 03	4160.3	37.720432
06/29/2024 04	4173.5	38.404779
06/29/2024 05	4174.1	36.716129
06/29/2024 06	4190.4	39.222456
06/29/2024 07	4727.6	42.724718
06/29/2024 08	4893.1	45.48331
06/29/2024 09	4690.5	44.205483
06/29/2024 10	5748.8	57.55172
06/29/2024 11	6053	63.601106
06/29/2024 12	6471.3	69.625134
06/29/2024 13	6372	60.1495
06/29/2024 14	6444	58.664686
06/29/2024 15	6421.2	53.902019
06/29/2024 16	6435.9	55.547931
06/29/2024 17	6462.1	37.437254

06/29/2024 18	6435.6	22.826794
06/29/2024 19	6434.4	21.300814
06/29/2024 20	6428.7	22.042195
06/29/2024 21	6427.7	21.278799
06/29/2024 22	5946	16.341187
06/29/2024 23	4726.3	13.874796
06/30/2024 00	4201.2	18.537948
06/30/2024 01	4277.9	29.172743
06/30/2024 02	4310.4	35.157814
06/30/2024 03	4159.7	45.595742
06/30/2024 04	4207.1	49.504266
06/30/2024 05	4167.8	51.325354
06/30/2024 06	4206.7	53.999862
06/30/2024 07	4658.1	60.837504
06/30/2024 08	4495.9	59.409168
06/30/2024 09	4150.8	61.051848
06/30/2024 10	4225.6	61.421131
06/30/2024 11	4236.8	61.584494
06/30/2024 12	4264.5	61.986725
06/30/2024 13	4128.6	66.245587
06/30/2024 14	4173.2	66.962189
06/30/2024 15	4196.5	60.998309
06/30/2024 16	4609.3	72.238982
06/30/2024 17	4216.1	62.012808
06/30/2024 18	4343.9	63.14125
06/30/2024 19	4289.7	62.352576
06/30/2024 20	4320.6	62.801482
06/30/2024 21	4140.6	60.902899
06/30/2024 22	4126.3	60.691488
06/30/2024 23	4071.1	55.092336
	Avg: 4546.3	Avg: 47.411785

East Bend Unit 2 Data - IRP
 Request Sierra-PHDR-01-005

Frequency Distribution Analysis

Date	UNIT2 PM#MM (LB/MMBTU) Value
07/01/2021	0.0116
07/02/2021	0.0114
07/03/2021	0.0113
07/04/2021	0.0111
07/05/2021	0.0109
07/06/2021	0.0107
07/07/2021	0.0104
07/08/2021	0.0102
07/09/2021	0.0099
07/10/2021	0.0099
07/11/2021	0.01
07/12/2021	0.0101
07/13/2021	0.0102
07/14/2021	0.0102
07/15/2021	0.0103
07/16/2021	0.0104
07/17/2021	0.0105
07/18/2021	0.0105
07/19/2021	0.0105
07/20/2021	0.0105
07/21/2021	0.0105
07/22/2021	0.0105
07/23/2021	0.0105
07/24/2021	0.0105
07/25/2021	0.0104
07/26/2021	0.0103
07/27/2021	0.0104
07/28/2021	0.0104
07/29/2021	0.0104
07/30/2021	0.0104
07/31/2021	0.0105
08/01/2021	0.0108
08/02/2021	0.011
08/03/2021	0.011
08/04/2021	0.011
08/05/2021	0.0111
08/06/2021	0.0111
08/07/2021	0.0111
08/08/2021	0.0111
08/09/2021	0.0111
08/10/2021	0.0112
08/11/2021	0.0111
08/12/2021	0.0108
08/13/2021	0.0107
08/14/2021	0.0105
08/15/2021	0.0103
08/16/2021	0.01
08/17/2021	0.0099
08/18/2021	0.0099
08/19/2021	0.0098
08/20/2021	0.0097
08/21/2021	0.0096
08/22/2021	0.0095
08/23/2021	0.0094
08/24/2021	0.0097
08/25/2021	0.0099
08/26/2021	0.0102
08/27/2021	0.0101
08/28/2021	0.0099
08/29/2021	0.0099
08/30/2021	0.0099
08/31/2021	0.0099
09/01/2021	0.0099
09/02/2021	0.0099
09/03/2021	0.0099
09/04/2021	0.0099
09/05/2021	0.0097
09/06/2021	0.0097
09/07/2021	0.0097
09/08/2021	0.0094
09/09/2021	0.0092
09/10/2021	0.0089
09/11/2021	0.0089
09/12/2021	0.0089
09/13/2021	0.0089
09/14/2021	0.0089
09/15/2021	0.0089
09/16/2021	0.0089
09/17/2021	0.0089
09/18/2021	0.0089
09/19/2021	0.0089
09/20/2021	0.0089
09/21/2021	0.0089
09/22/2021	0.0089
09/23/2021	0.0089
09/24/2021	0.0089
09/25/2021	0.0089
09/26/2021	0.0089
09/27/2021	0.0089

Date	UNIT2 PM#MM (LB/MMBTU) Value
07/01/2022	0.007
07/02/2022	0.007
07/03/2022	0.0071
07/04/2022	0.0072
07/05/2022	0.0073
07/06/2022	0.0074
07/07/2022	0.0074
07/08/2022	0.0075
07/09/2022	0.0076
07/10/2022	0.0081
07/11/2022	0.0085
07/12/2022	0.0087
07/13/2022	0.0089
07/14/2022	0.0092
07/15/2022	0.0093
07/16/2022	0.0094
07/17/2022	0.0095
07/18/2022	0.0097
07/19/2022	0.0097
07/20/2022	0.0096
07/21/2022	0.0095
07/22/2022	0.0094
07/23/2022	0.0094
07/24/2022	0.0093
07/25/2022	0.0093
07/26/2022	0.0093
07/27/2022	0.0092
07/28/2022	0.0092
07/29/2022	0.0092
07/30/2022	0.0092
07/31/2022	0.0092
08/01/2022	0.0095
08/02/2022	0.0097
08/03/2022	0.0097
08/04/2022	0.0096
08/05/2022	0.0096
08/06/2022	0.0097
08/07/2022	0.0098
08/08/2022	0.0101
08/09/2022	0.0102
08/10/2022	0.0103
08/11/2022	0.01
08/12/2022	0.01
08/13/2022	0.01
08/14/2022	0.01
08/15/2022	0.01
08/16/2022	0.01
08/17/2022	0.01
08/18/2022	0.01
08/19/2022	0.01
08/20/2022	0.01
08/21/2022	0.01
08/22/2022	0.01
08/23/2022	0.01
08/24/2022	0.01
08/25/2022	0.01
08/26/2022	0.01
08/27/2022	0.01
08/28/2022	0.01
08/29/2022	0.01
08/30/2022	0.01
08/31/2022	0.01
09/01/2022	0.01
09/02/2022	0.01
09/03/2022	0.01
09/04/2022	0.01
09/05/2022	0.01
09/06/2022	0.0097
09/07/2022	0.0097
09/08/2022	0.0095
09/09/2022	0.0092
09/10/2022	0.0091
09/11/2022	0.009
09/12/2022	0.0089
09/13/2022	0.0088
09/14/2022	0.0091
09/15/2022	0.0096
09/16/2022	0.0101
09/17/2022	0.0104
09/18/2022	0.0105
09/19/2022	0.0105
09/20/2022	0.0105
09/21/2022	0.0105
09/22/2022	0.0106
09/23/2022	0.0106
09/24/2022	0.0106
09/25/2022	0.0106
09/26/2022	0.0106
09/27/2022	0.0106

Date	UNIT2 PM#MM (LB/MMBTU) Value
07/01/2023	0.0086
07/02/2023	0.0086
07/03/2023	0.0086
07/04/2023	0.0085
07/05/2023	0.0085
07/06/2023	0.0084
07/07/2023	0.0084
07/08/2023	0.0084
07/09/2023	0.0082
07/10/2023	0.008
07/11/2023	0.008
07/12/2023	0.0081
07/13/2023	0.0081
07/14/2023	0.0078
07/15/2023	0.0077
07/16/2023	0.0077
07/17/2023	0.0076
07/18/2023	0.0075
07/19/2023	0.0075
07/20/2023	0.0074
07/21/2023	0.0073
07/22/2023	0.0072
07/23/2023	0.0071
07/24/2023	0.0072
07/25/2023	0.0073
07/26/2023	0.0075
07/27/2023	0.0076
07/28/2023	0.0078
07/29/2023	0.0079
07/30/2023	0.008
07/31/2023	0.008
08/01/2023	0.0081
08/02/2023	0.0081
08/03/2023	0.0083
08/04/2023	0.0084
08/05/2023	0.0085
08/06/2023	0.0086
08/07/2023	0.0087
08/08/2023	0.0087
08/09/2023	0.0087
08/10/2023	0.0087
08/11/2023	0.0086
08/12/2023	0.0086
08/13/2023	0.0086
08/14/2023	0.0085
08/15/2023	0.0085
08/16/2023	0.0085
08/17/2023	0.0085
08/18/2023	0.0085
08/19/2023	0.0085
08/20/2023	0.0087
08/21/2023	0.0088
08/22/2023	0.0088
08/23/2023	0.0088
08/24/2023	0.0087
08/25/2023	0.0085
08/26/2023	0.0083
08/27/2023	0.0083
08/28/2023	0.0083
08/29/2023	0.0083
08/30/2023	0.0082
08/31/2023	0.0081
09/01/2023	0.008
09/02/2023	0.0082
09/03/2023	0.0083
09/04/2023	0.0084
09/05/2023	0.0084
09/06/2023	0.0086
09/07/2023	0.0086
09/08/2023	0.0086
09/09/2023	0.0086
09/10/2023	0.0087
09/11/2023	0.0088
09/12/2023	0.0089
09/13/2023	0.0091
09/14/2023	0.0093
09/15/2023	0.0095
09/16/2023	0.0095
09/17/2023	0.0095
09/18/2023	0.0095
09/19/2023	0.0095
09/20/2023	0.0095
09/21/2023	0.0095
09/22/2023	0.0095
09/23/2023	0.0095
09/24/2023	0.0095
09/25/2023	0.0095
09/26/2023	0.0095
09/27/2023	0.0095

Top of bin (lb/mmBtu)	3Q2021-2Q2022	3Q2022-2Q2023	3Q2023-2Q2024
0	0	0	0
0.0010	0	0	0
0.0020	0	0	0
0.0030	0	0	0
0.0040	0	0	0
0.0050	13	0	0
0.0060	22	2	18
0.0070	20	7	88
0.0080	151	44	72
0.0090	43	74	75
0.0100	80	80	18
0.0110	36	14	5
0.0120	0	10	5
0.0130	0	11	5
0.0140	0	21	52
0.0150	0	29	10
0.0160	0	13	17
0.0170	0	50	0
0.0180	0	10	0
0.0190	0	0	0
0.0200	0	0	0
0.0210	0	0	0
0.0220	0	0	0
0.0230	0	0	0
0.0240	0	0	0
0.0250	0	0	0
0.0260	0	0	0
0.0270	0	0	0
0.0280	0	0	0
0.0290	0	0	0
0.0300	0	0	0
Total days	365	365	365
Days above 0.010 LB/MMBTU	36	158	94
	10%	43%	26%

09/28/2021	0.0089
09/29/2021	0.0089
09/30/2021	0.0089
10/01/2021	0.0089
10/02/2021	0.0089
10/03/2021	0.0089
10/04/2021	0.0089
10/05/2021	0.0089
10/06/2021	0.0089
10/07/2021	0.0089
10/08/2021	0.0089
10/09/2021	0.0089
10/10/2021	0.0089
10/11/2021	0.0089
10/12/2021	0.0089
10/13/2021	0.0089
10/14/2021	0.0089
10/15/2021	0.0089
10/16/2021	0.0089
10/17/2021	0.0089
10/18/2021	0.0089
10/19/2021	0.0089
10/20/2021	0.0089
10/21/2021	0.0089
10/22/2021	0.0089
10/23/2021	0.0089
10/24/2021	0.0089
10/25/2021	0.0089
10/26/2021	0.0089
10/27/2021	0.0089
10/28/2021	0.0089
10/29/2021	0.0089
10/30/2021	0.0089
10/31/2021	0.0089
11/01/2021	0.0089
11/02/2021	0.0089
11/03/2021	0.0089
11/04/2021	0.0089
11/05/2021	0.0089
11/06/2021	0.0089
11/07/2021	0.0089
11/08/2021	0.0089
11/09/2021	0.0089
11/10/2021	0.0089
11/11/2021	0.0089
11/12/2021	0.0089
11/13/2021	0.0089
11/14/2021	0.0089
11/15/2021	0.0089
11/16/2021	0.0089
11/17/2021	0.0089
11/18/2021	0.0089
11/19/2021	0.0089
11/20/2021	0.0089
11/21/2021	0.0089
11/22/2021	0.0089
11/23/2021	0.0089
11/24/2021	0.0089
11/25/2021	0.0089
11/26/2021	0.0089
11/27/2021	0.0089
11/28/2021	0.0089
11/29/2021	0.0089
11/30/2021	0.0089
12/01/2021	0.0089
12/02/2021	0.0089
12/03/2021	0.0089
12/04/2021	0.0089
12/05/2021	0.0089
12/06/2021	0.0089
12/07/2021	0.0089
12/08/2021	0.0089
12/09/2021	0.0089
12/10/2021	0.0089
12/11/2021	0.0089
12/12/2021	0.0089
12/13/2021	0.0089
12/14/2021	0.0089
12/15/2021	0.0089
12/16/2021	0.0089
12/17/2021	0.0089
12/18/2021	0.0089
12/19/2021	0.0089
12/20/2021	0.0089
12/21/2021	0.0089
12/22/2021	0.0089
12/23/2021	0.0089
12/24/2021	0.0089
12/25/2021	0.0089
12/26/2021	0.0088
12/27/2021	0.0088
12/28/2021	0.0086
12/29/2021	0.0087
12/30/2021	0.0087
12/31/2021	0.0087
01/01/2022	0.0086
01/02/2022	0.0086
01/03/2022	0.0087

09/28/2022	0.0106
09/29/2022	0.0106
09/30/2022	0.0106
10/01/2022	0.0106
10/02/2022	0.0106
10/03/2022	0.0106
10/04/2022	0.0106
10/05/2022	0.0106
10/06/2022	0.0106
10/07/2022	0.0106
10/08/2022	0.0106
10/09/2022	0.0106
10/10/2022	0.0106
10/11/2022	0.0106
10/12/2022	0.0106
10/13/2022	0.0106
10/14/2022	0.0106
10/15/2022	0.0106
10/16/2022	0.0106
10/17/2022	0.0106
10/18/2022	0.0106
10/19/2022	0.0106
10/20/2022	0.0106
10/21/2022	0.0106
10/22/2022	0.0106
10/23/2022	0.0106
10/24/2022	0.0106
10/25/2022	0.0106
10/26/2022	0.0106
10/27/2022	0.0106
10/28/2022	0.0106
10/29/2022	0.0106
10/30/2022	0.0106
10/31/2022	0.0106
11/01/2022	0.0106
11/02/2022	0.0106
11/03/2022	0.0107
11/04/2022	0.0109
11/05/2022	0.0107
11/06/2022	0.0108
11/07/2022	0.0111
11/08/2022	0.0113
11/09/2022	0.0114
11/10/2022	0.0114
11/11/2022	0.0114
11/12/2022	0.0114
11/13/2022	0.0115
11/14/2022	0.0116
11/15/2022	0.0116
11/16/2022	0.0116
11/17/2022	0.0116
11/18/2022	0.0119
11/19/2022	0.0123
11/20/2022	0.0127
11/21/2022	0.0131
11/22/2022	0.0134
11/23/2022	0.0136
11/24/2022	0.0136
11/25/2022	0.0136
11/26/2022	0.0134
11/27/2022	0.0136
11/28/2022	0.0139
11/29/2022	0.0142
11/30/2022	0.0145
12/01/2022	0.0149
12/02/2022	0.015
12/03/2022	0.0151
12/04/2022	0.015
12/05/2022	0.0152
12/06/2022	0.0152
12/07/2022	0.0153
12/08/2022	0.0154
12/09/2022	0.0155
12/10/2022	0.0155
12/11/2022	0.0155
12/12/2022	0.0155
12/13/2022	0.0155
12/14/2022	0.0155
12/15/2022	0.0155
12/16/2022	0.0155
12/17/2022	0.0154
12/18/2022	0.0155
12/19/2022	0.0153
12/20/2022	0.0151
12/21/2022	0.0149
12/22/2022	0.0147
12/23/2022	0.0147
12/24/2022	0.0148
12/25/2022	0.0148
12/26/2022	0.015
12/27/2022	0.0148
12/28/2022	0.0147
12/29/2022	0.0145
12/30/2022	0.0146
12/31/2022	0.0146
01/01/2023	0.0148
01/02/2023	0.015
01/03/2023	0.0151

09/28/2023	0.0095
09/29/2023	0.0095
09/30/2023	0.0095
10/01/2023	0.0095
10/02/2023	0.0095
10/03/2023	0.0095
10/04/2023	0.0095
10/05/2023	0.0095
10/06/2023	0.0095
10/07/2023	0.0095
10/08/2023	0.0095
10/09/2023	0.0095
10/10/2023	0.0095
10/11/2023	0.0095
10/12/2023	0.0095
10/13/2023	0.0095
10/14/2023	0.0095
10/15/2023	0.0095
10/16/2023	0.0095
10/17/2023	0.0095
10/18/2023	0.0095
10/19/2023	0.0095
10/20/2023	0.0095
10/21/2023	0.0095
10/22/2023	0.0095
10/23/2023	0.0095
10/24/2023	0.0095
10/25/2023	0.0095
10/26/2023	0.0095
10/27/2023	0.0095
10/28/2023	0.0095
10/29/2023	0.0095
10/30/2023	0.0095
10/31/2023	0.0095
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Avg: 0.0092

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Avg: 0.0123

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Avg: 0.0101



June 23, 2023

via www.regulations.gov
Docket ID No. EPA-HQ-OAR-2018-0794

U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20004

Subject: Duke Energy Comments on the Proposed Rule, “National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units Review of the Residual Risk and Technology Review” (88 Fed. Reg. 24,854)

I. Introduction

Duke Energy appreciates the opportunity to provide comments on the proposed rule, “*National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units Review of the Residual Risk and Technology Review*” (the “proposed rule”). Duke Energy also supports the comments filed by the Class of ’85 Regulatory Response Group and the Edison Electric Institute.

Duke Energy is one of the largest energy holding companies in the United States with a large, diversified portfolio of energy services. We provide electricity to 7.9 million retail customers in six states and natural gas to over 1.6 million customers in five states and operate a growing renewable energy portfolio. We operate 282,400 miles of distribution lines and a 31,300-mile transmission system.

Duke Energy is fundamentally changing the way we generate and deliver the electricity on which our customers depend. Duke Energy is on pace to achieve its goals of at least 50% carbon reduction by 2030 and net-zero carbon emissions from electricity generation by 2050. Today, we have more than 10 gigawatts of renewable energy contracted, owned, or operated. We plan to accelerate the transition to cleaner energy with a goal of 16,000 megawatts (MW) of renewables by 2025 and 47,000 MW by 2050, while continuing to operate our existing carbon-free technologies, including nuclear and hydroelectric stations. Grid and technology improvements play an ever-important role in our road to decarbonization. These efforts include increased energy storage, accelerated use of new technologies and perspective on grid investments needed to support coal retirements.

II. Duke Energy respectfully requests that EPA reevaluate some of the proposed revisions to the Mercury and Air Toxics Standard (MATS).

Since 2012, Duke Energy has worked diligently to ensure that our coal-fired generating facilities are well-positioned to comply with the emission limits outlined in the MATS regulation, and we support the determination that it is “appropriate and necessary” to regulate Hazardous Air Pollutant (HAP) emissions from Electric Generating Units (EGUs).

In light of EPA’s conclusion that the 2020 Residual Risk Review of the MATS regulation was based on sound scientific principles and did not identify any significant adverse risks, combined with an unprecedented rate of change to the electric grid, the proposed changes to the MATS emission limits are unfounded. As described in detail in Section III of this correspondence, Duke Energy has announced commitments to retire coal-fired generation in the coming years. The changes proposed by the EPA in this action will achieve small, incremental gains at significant cost to industry and ratepayers.

Specifically, Duke Energy requests that EPA reconsider the following revisions to the regulation:

- a. Tightening the filterable particulate matter surrogate standard for demonstrating compliance with the emission limits for non-mercury metal hazardous air pollutants*

Based on our review of information available in the docket, we believe that EPA’s analysis of unit performance and those units that are complying with a filterable particulate limit of 0.010 lb/MMBtu or 0.006 lb/MMBtu is based on a limited data set that is not representative of long-term operations. Additionally, the conclusions that are drawn from the data are generic in nature and do not take into account specific control configurations that can result in inherently higher particulate emissions (i.e., hot-side precipitators and/or the use of hydrated lime injection). The data set used by EPA includes periods when coal units are co-firing with natural gas, which will bias the data set artificially low. EPA must reconsider its analysis using a robust data set with a lens not to just a singular demonstration that an emission limit can be achieved, but to an analysis that considers a *continuous demonstration* with any proposed emission limit.

Duke Energy has conducted an initial review of unit performance and identified a suite of projects that would be required to ensure that each of the affected units could meet the proposed emission limits on a continuous basis. This review identified nearly \$190MM of projects on the electrostatic precipitators and flue gas desulfurization (FGD) units that would be required. In addition to the cost considerations associated with the projects, there are concerns about our ability to complete these projects in the current three-year compliance window because of ongoing supply chain issues that could limit the availability of parts (many of which require custom fabrication) and contract resources that are qualified to execute the work scope.

The reduction in the filterable particulate limit will also affect the Quality Assurance-Quality Control (QA-QC) criteria of the continuous emissions monitoring systems for filterable particulate (PM CEMS) required under Procedure 2. At the more stringent criteria of 0.010 lb/MMBtu or 0.006 lb/MMBtu, the likelihood of out-of-control periods increases exponentially.

The emission limit defines two bands (+/- 25% of the emission limit) around the PM CEMS correlation curve. Data collected during a relative response audit or response correlation audit must fall within these two bands when the collected data is plotted on a graph. Duke Energy has evaluated historical data at the new QA-QC criteria and have significant concerns regarding the instrument's ability to successfully pass the more stringent criteria (0.010 or 0.006 lb/MMBtu) on a continuous basis. When the PM CEMS fails to meet the QA-QC criteria, the collected data is considered out-of-control and is no longer considered valid. The current PM CEMS technology has difficulties monitoring at low emission levels. This can result in additional stack testing, monitor downtime and corrective actions to get the PM CEMS back in control. This monitor downtime is required to be reported as a deviation under the MATS regulation. Additionally, most states have minimum data availability requirements that can result in enforcement actions.

b. Requiring continuous emissions monitoring systems for demonstrating compliance with the filterable particulate matter standard

Duke Energy has successfully installed and operated PM CEMS for a number of years. The installation of a PM CEMS on a coal-fired generating unit is a defined, repeatable process. A coal-fired unit is typically designed with a fiberglass flue gas liner installed in a concrete stack, which provides an annulus space for installation of the PM CEMS analyzer that is protected from the weather. Particulate samples must be analyzed at the point of collection, as transport of the sample through an umbilical would yield inaccurate measurements. There are also a number of particulate control devices on coal-fired units that can be varied to achieve the needed dust concentrations to certify the PM CEMS instrument.

EPA is proposing to require Integrated Gasification Combined Cycle (IGCC) EGUs to install PM CEMS to demonstrate compliance with the existing particulate limit. At an IGCC facility, the stack configuration is more similar to a combustion turbine, where there is only elevated grating that is exposed to the elements available for the possible installation of a PM CEMS. Exposure to the elements, particularly in an area with large seasonal fluctuations, would negatively impact the operation and accuracy of the CEMS.

Additionally, there are no particulate control devices at an IGCC unit available for de-tuning, which is required to conduct Performance Specification - 11 to establish the correlation curve. While particulate spiking is an emerging technology, which we have tested unsuccessfully, it requires collecting particulate from the actual source and reinjecting the material into the flue gas stream. However, there are no points in the IGCC process where representative particulate could be collected. Without using site-specific particulate for spiking, the correlation developed for an optical PM CEMS instrument would not yield a valid correlation for the source.

Furthermore, an IGCC is not equipped with an induced draft fan, which would typically be used to ensure good dispersion of the particulate across the duct area. For these reasons, certification of the PM CEMS on an IGCC is technologically infeasible, and stack testing continues to be the most appropriate means to accurately measure particulate emissions from such units. Historic particulate emissions from Duke Energy's Edwardsport IGCC facility are consistently less than

10% of the emission limit, and the facility has demonstrated compliance as a low-emitting EGU (LEE) under the MATS regulation.

EPA is urged to retain the LEE status, quarterly stack testing and continuous parametric options for IGCC EGUs given the technological limitations for certifying a PM CEMS and the inherently low particulate emissions from the units.

III. As the industry retires coal units, EPA should align the various power sector regulations and establish compliance mechanisms that avoid requiring significant new capital investment in coal plants that will soon retire.

In 2022, Duke Energy announced our decision to retire remaining coal-fired generating units by 2035, pending regulatory approval and replacement generation. Retirement dates have been published in utility commission-approved plans, such as Integrated Resource Plans and in the company's Carolinas Carbon Plan. As a result, all of Duke Energy's units that are affected by this proposed rule are in a state of transition.

In recent years, Duke Energy's coal-fired generating fleet has installed a number of new control devices such as FGD, selective catalytic reduction, activated carbon injection, and hydrated lime injection to ensure that these facilities can meet stringent emission limits on a continuous basis. As an example, the MATS-controlled Roxboro Steam Electric Plant EGUs located in Semora, North Carolina, have experienced substantially reduced emissions (2005 baseline compared to 2022 emissions) as follows:

- a. Emissions of filterable particulate have decreased by nearly 94%.
- b. Emissions of hydrogen chloride and hydrogen fluoride (acid gases) are reduced by more than 99%.

Just at this one site, capital expenditures for the FGD were in excess of \$590MM to achieve the emission reductions described above. Based on the proposed rule, an additional \$40MM would be needed to ensure compliance with the reduced filterable particulate limit. Yet, the net environmental benefits would be minimal and likely measured in tens of tons, not the thousands that have already been realized. Reductions on a cost-per-ton-of-pollutant-removed basis are likely to exceed industry standard thresholds for cost effectiveness. Duke Energy projects that the capital expenditures associated with this proposed rule would exceed \$190 million for our coal-fired generating fleet.

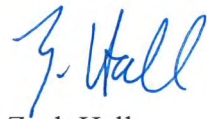
Therefore, Duke Energy encourages the agency to include compliance pathways, such as establishing subcategories, that would allow units that will soon retire to avoid significant new capital investment in the interim. Subcategories are a well-founded mechanism under environmental regulations, including the Clean Air Act (CAA) and the Clean Water Act, that provides flexibility for facilities that will soon cease coal operations. Providing these flexibilities for retiring units can save customers undue costs and allow capital to be devoted to projects replacing coal generation as opposed to upgrading existing coal units.

Those tradeoffs are further exacerbated by the anticipated costs of other EPA proposed rules regulating the power sector such as EPA’s proposed rule, “*Supplemental Effluent Limitations Guidelines (ELG) and Standards for the Steam Electric Power Generating Point Source Category*” (the “ELG proposed rule”)¹ and the proposed rules, “*New Source Performance Standards for Greenhouse Gas Emissions From New, Modified, and Reconstructed Fossil Fuel-Fired Electric Generating Units; Emission Guidelines for Greenhouse Gas Emissions From Existing Fossil Fuel-Fired Electric Generating Units*” (the “CAA 111 proposed rules”).² Both the ELG proposed rule and the CAA 111 proposed rules include this concept by proposing the establishment of subcategories where new requirements vary by the date a unit will cease coal combustion. EPA should consider establishing a similar mechanism in this proposed rule as the rationale for this approach is uniform across these rulemakings—to incentivize sooner coal retirements and to avoid significant new capital investment in coal units that will retire.

EPA has utilized categories of sources under CAA section 112, including in this rulemaking for lignite units; therefore, EPA should similarly establish a subcategory for near-term retiring units that aligns with the timelines in both the ELG and CAA section 111 proposed rules. EPA could set a different level of standards for those units that qualify for the subcategory, consistent with its statutory obligations. This approach would yield significant benefits to the industry, the environment and our customers by reducing emissions through shutdown commitments, while also balancing affordability and reliability considerations.

Duke Energy appreciates this opportunity to submit comments on the proposed rule and welcomes the opportunity to work with you on this important issue. Please direct any questions on these comments to Taylor Meredith (Taylor.Meredith@duke-energy.com, 704-582-3245).

Sincerely,



Zach Hall
Vice President, Environmental Health and Safety

¹ 88 Fed. Reg. 18,824.

² 88 Fed. Reg. 33240.

June 23, 2023

VIA Electronic Submittal to Regulations.gov

Environmental Protection Agency
EPA Docket Center
Washington, D.C.

Re: Utility Information Exchange of Kentucky (UIEK) Comments on
Proposed Rule, *National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired
Electric Utility Steam Generating Units Review of the Residual Risk and Technology Review*,
Docket ID No. EPA-HQ-OAR-2018-0794

Dear Sir or Madam:

The Utility Information Exchange of Kentucky (UIEK) is a voluntary organization consisting of representatives from the electric generating utilities in the Commonwealth of Kentucky. For more than 30 years, UIEK has provided input to regulatory authorities on key environmental regulatory issues affecting its member companies. This law firm currently serves as legal counsel to UIEK and submits these comments on UIEK's behalf.

Sincerely yours,



Robin B. Thomerson
Counsel for UIEK

cc: Philip Imber, UIEK Chair
R. Clay Larkin, Dentons

**Comments by the Utility Information Exchange of Kentucky
On the Proposed National Emission Standards for Hazardous Air Pollutants:
Coal- and Oil-Fired Electric Utility Steam Generating Units
Review of the Residual Risk and Technology Review
Docket ID No. EPA-HQ-OAR-2018-0794
June 23, 2023**

The Utility Information Exchange of Kentucky (UIEK) is a voluntary organization consisting of representatives from the electric generating utilities in the Commonwealth of Kentucky. For more than 30 years, UIEK has provided input to regulatory authorities on key environmental issues affecting its member companies: American Electric Power, Big Rivers, Duke Energy, East Kentucky Power Cooperative, Inc., Louisville Gas and Electric Company, Kentucky Utilities Company and Tennessee Valley Authority.

UIEK appreciates the opportunity to respond to the U.S. Environmental Protection Agency (EPA) Proposed Rule on the *National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units Review of the Residual Risk and Technology Review* 88 Fed. Reg. 24854 (April 24, 2023).

Comments

1. UIEK supports the Midwest Ozone Group (MOG) and the National Rural Electric Cooperative Association (NRECA).

UIEK supports comments provided by MOG and NRECA and incorporates those comments herein and requests EPA's full consideration of those comments.

2. The Proposed Rule presents technical challenges that EPA should consider and address:

2.a. EPA's proposal to require a minimum sampling collection time of three hours per run to collect a minimum of 4 dscm per run of filterable particulate matter (fPM) is unnecessary and will have unintended consequences.

In isokinetic sampling, each stack test run pulls a volume proportional to the stack flow. The time required to pull 4 dry standard cubic meters (dscm) of sample will vary, but most likely will require about 3 hours. UIEK opposes collection of a minimum fPM sample of 4 dscm per run requiring a 3-hour run time for sample collection. A larger sample size is not necessary and will result in unnecessarily increased emissions.

Under the current and proposed rule, utilities which use particulate matter (PM) continuous emission monitoring systems (CEMS) collect samples in accordance with Performance Specification (PS) 11 to establish a correlation curve. As explained below, mandating a sampling volume of 4 dscm for all sampling/test runs will result in increased emissions, particularly during extended periods of elevated particulate loading for correlation curve generating purposes.

UIEK members have extensive experience using PM CEMS for emission limit compliance purposes and extensive experience utilizing PS 11 testing to develop a site-specific correlation between required reference method testing and PM CEMS response data. Pursuant to PS 11 requirements, testing may be done at zero, and at three particulate loading levels to develop a correlation curve: an ambient loading of flue gas with controls in place, and two elevated loading levels (medium and high particulate loading levels, covering the correlation range of “normal operating conditions”). Zero and ambient loading samples contain less PM and will be closer to the minimum detection limit (MDL) of the instrument, such that a longer sampling period may be needed to gain a lower MDL. Therefore, zero and ambient loading sample collection may require additional sampling time to grab an adequate amount of sample but should remain under the determination of the experienced stack tester.

However, the medium and high particulate loading samples require the unit to be detuned to artificially create sufficient PM to meet testing requirements. For those particulate load samples, well above the MDL, sampling periods should not exceed the volume of a filter, to avoid having to interrupt the sample with filter change, rinse, and resealing the system, which introduce opportunity for leaks and errors, as well as further lengthen the test run duration. For example, in testing a unit for a 3-hour period at the high PM loading, the filter may need to be changed twice. The accuracy of weighing each filter is +/- 0.5 mg, which would be additive over the 3-hour run, representing ~2.5% of the total. This proposed change has not accounted for the high loading levels where EPA’s assessed increased accuracy is actually offset by introduced inaccuracy in implementation of the method.

Since PS 11 requires a minimum of 15 test runs for establishing the correlation curve, the 4 dscm sample size (essentially requiring a three-hour sampling time) requirement would result in 45+ hours of testing time (3 particulate loading levels, with three to five 3-hour runs each, plus additional time for replacing filters in the middle of a run during the medium and high particulate loading levels). At the medium and high particulate load levels, that will result in a minimum of 18+ hours of unnecessary increased emissions when only six hours (2 levels with three 1-hour runs each) of increased emissions are actually necessary to obtain an adequate amount of sample. Additionally, when a unit is detuned to obtain medium and high particulate loading levels, running the unit with higher particulate levels for longer periods of time will result in other operation issues (i.e., impacts of excessive PM to other emission control devices, impacts of excessive PM to beneficial reuse of by-products, etc).

EPA should not mandate the minimum sample volume of 4 dscm. Facilities and testers should retain flexibility to obtain the necessary sample in whatever run time is appropriate for accurate characterization of the particulate loading level being tested and to avoid unnecessary excess emissions caused by testing.

2.b. EPA's proposed reduction of the fPM limit from 0.030 lb/MMBtu to 0.010 lb/MMBtu does not consider the negative impact to QA/QC testing pursuant to 40 CFR 60 Appendix F, Procedure 2.

40 CFR 60 Appendix F, Procedure 2 establishes requirements for evaluating the effectiveness of quality control (QC) and quality assurance (QA) procedures and the quality of data produced by PM CEMS. These requirements are incorporated into Mercury and Air Toxics Standards (MATS) rule at Appendix C, Subpart 5. When utilizing PM CEMS, facilities are required to conduct a Relative Response Audit (RRA) annually to determine if the PM CEMS is operating within the range established by the certification testing. A Response Correlation Audit (RCA) is required every three years to confirm that the correlation curve, established during the certification testing pursuant to PS 11, remains correct. Both tests require results to be within $\pm 25\%$ of the limit and correlation curve established in certification testing. Failure to pass an RRA results in out of control data, until an RCA can be completed. Failure to pass an RCA requires re-establishment of the correlation curve meeting all the requirements of PS 11. This could result in an excessive amount of downtime.

Reduction of the fPM limit to 0.010 lb/MMBtu will narrow the margin around the correlation curve to such an extent that RRA testing is likely to fail regularly. The reduced margin will make it difficult, if not impossible to determine whether the PM CEMS are operating within the range established or whether there is influence from normal wear on the particulate control devices. The likelihood of RRA failure, whatever the source of the data non-alignment with the curve, and difficulty of rescheduling tests, especially for a week-long RCA test, will lead to annual RCA's.

Thus, by reducing the limit, EPA will in essence be eliminating the RRA limited testing procedures provided by Appendix F Procedure 2.

The ability to pass an RCA is limited for the same reason stated above. Additionally, the RCA is similar to the testing required to establish the initial correlation curve. If EPA finalizes the 3-hour run time requirement, EGUs will be required to emit elevated fPM emissions when testing at mid and high fPM load levels for well over 18 hours, annually. When the RCA results cannot be incorporated into a new annual curve with the PS-11 results, the facility is required to reestablish the correlation curve. The proposed rule greatly increases the possibility of having to reestablish the entire correlation curve annually.

EPA must take into account the additional testing costs involved as a result of lowering the limit. Current annual RRA tests are approximately \$10,000.00 per stack, for UIEK members. Current RCA tests are approximately \$25,000.00 each. Tripling the run lengths will approximately triple the test costs.

Use of PM CEMS as established by 40 CFR 60 Appendix F gave a stable system for utilizing a continuous monitoring system that was accurate and predictable in cost: limited RRA tests every year, RCA tests every three years and reestablishment of the correlation curve only when the underlying RRA/RCA process indicated a significant problem with the monitor or change in controls.

For the reasons identified above, Lowering the fPM limit to 0.010 lb/MMBtu has the unintended consequence of eliminating the established system of evaluating the PM CEMS, unnecessarily increasing testing costs.

2.c. Reduction of the fPM emission limit to 0.010 lb/MMBtu is not technically sustainable.

In the preamble for the proposed rule, EPA referenced an independent report finding that units were doing “just enough” to satisfy the MATS limits and that EGUs can achieve fPM emission rates “at or below 7.0E-03 lb/MMBtu.” 88 Fed. Reg at 24868. EPA explains its determination to propose a fPM limit of 0.010 lb/MMBtu and take comment on a fPM limit of 0.006 lb/MMBtu on the basis that

“...all coal-fired EGUs are reporting fPM emissions well below the current MATS limit of 3.0E-02 lb/MMBtu, and that 91 percent of EGUs are reporting fPM emissions at levels lower than a third of the current limit.... The EPA evaluated the fPM emission performance of EGUs and binned them by quartiles. The average fPM emission rate reported by the best performing 25 percent was 1.4E-03 lb/MMBtu. Of the best performing 50 percent of EGUs assessed, the average fPM emission rate was 2.4E-03 lb/MMBtu and the average fPM rate reported by the best 75 percent was 3.1E-03 lb/MMBtu. Of the best performing 95 percent, the average fPM emission rate was 4.2E-03 lb/MMBtu.”

Id. at 24868.

UIEK disagrees with EPA’s contentions.

Contrary to the comment that utilities are doing “just enough” to comply, utilities have spent millions of dollars upgrading their systems to meet the current MATS standards and have made great efforts to meet those standards since implementation. Utilities and ratepayers have heavily invested in the maximum achievable control technologies (MACT) identified by EPA in the 2012 MATS rule and upheld by EPA in the 2023 technology review (baghouses and electrostatic precipitators). These systems work well and consistently meet the current standard of 0.030 lb/MMBtu with operational flexibility for maintenance events. EPA now proposes to remove the operational flexibility and reduce the standard to a level of 0.010 lb/MMBtu.

Based on UIEK’s review, the data does not support EPA’s claim that 0.010 lb/MMBtu can be met consistently as an emissions standard. The data available to EPA includes MATS compliance data from both PM CEMS monitoring data as well as stack testing data from MATS compliant units from 2017 forward. EPA states that it “evaluated the fPM emission performance of EGUs and binned them by quartiles.” However, our review of the data found in the docket indicates that EPA reviewed selective data rather than all data to draw its conclusions. Specifically, EPA appears to have chosen the lowest quarters rather than an average or a 95% confidence interval in its assessment. Typically, only three to five quarters were chosen even though EPA has at least five years of data from utilities. Additionally, the chosen quarter in any year varied according to utility. Across UIEK utilities, the reason for choice of quarter is unclear, other than the chosen quarters

represented the lowest emission rates for the particular units. The reasoning for this method remains unclear and unexplained. In determining what emission rate units are possible to achieve, it is appropriate to consider the data from every quarter of every year. As EPA well knows, electric generation is weather specific and EPA's choice of data points for its assessment fails to account for important factual matters which can directly influence the emission rates observed, including the number of operating hours in the chosen quarter or whether the unit had a maintenance outage for bag replacement. Because of the lack of consistency in methodology, EPA's assessment and conclusions are unreliable.

Additionally, mixing stack testing data with PM CEMS data is inappropriate and further contributes to the unreliability of EPA's results. PM CEMS data is constant, monitoring emissions at all operational conditions and varying load levels. Stack testing, by contrast, measures emissions at a specific point in time under specific operational conditions. Because of these differences, it is inappropriate and incorrect to mingle the two. The data from each should be separately assessed.

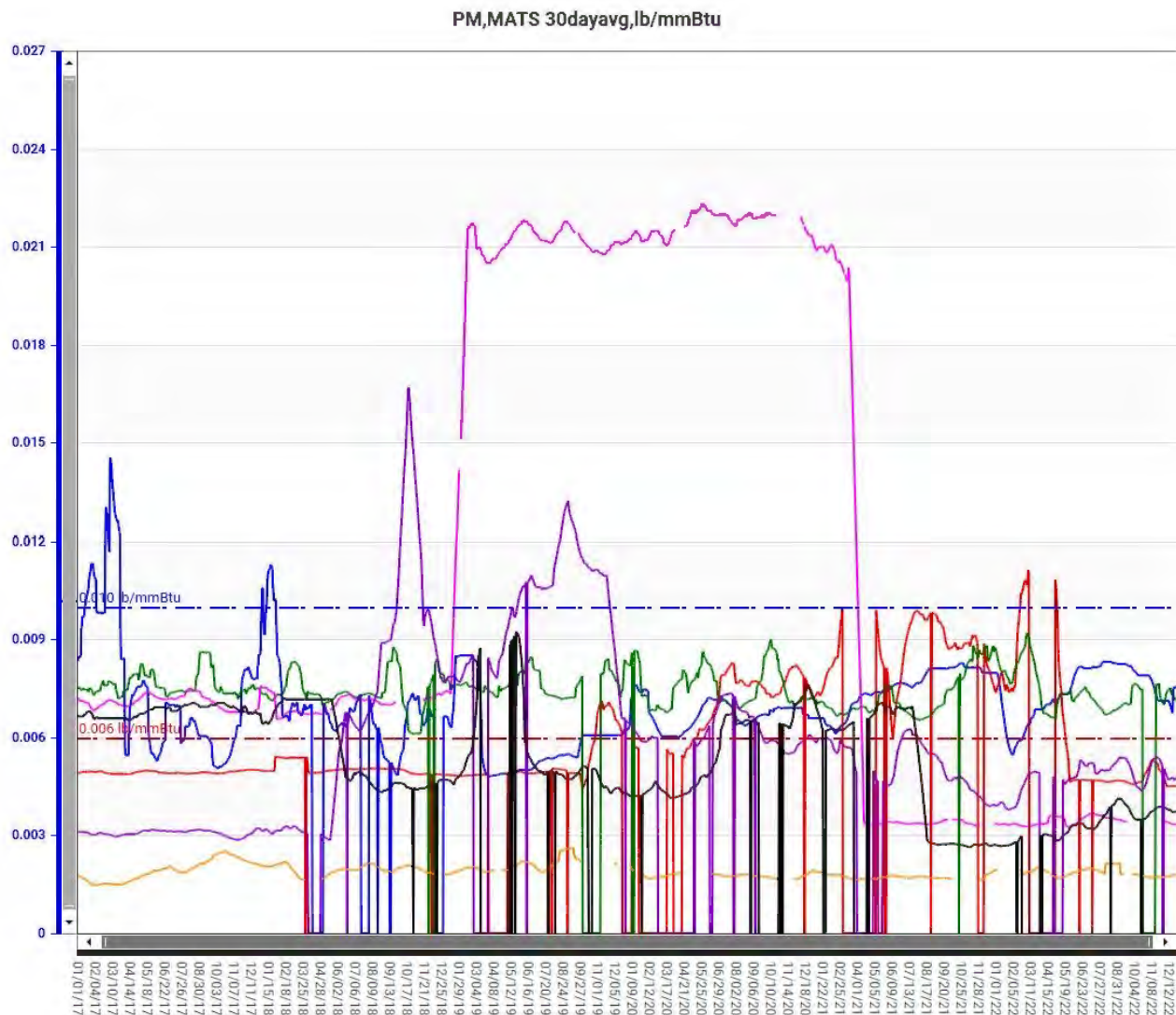
A review of all available PM CEMS data across the quarters from 2017 to 2021, rather than a select set of only the lowest quarters, shows that while EGUs can reach the proposed limit of 0.010 lb/MMBtu of fPM at certain times, that emission rate cannot be consistently achieved. For example, Louisville Gas & Electric/Kentucky Utilities (LG&E/KU) operates its units with baghouse and reagent systems, which is MACT for the MATS rule. As the below data illustrates, even with the MACT in place, not all LG&E/KU units have met 0.010 lb/MMBtu for fPM for all quarters from 2017 to 2021:

	GH1	gh23	gh4	MC12	MC3	MC4	TC1	TC2	BR3
2017Q1	0.00488	0.00724	0.003	0.00456	0.00151	0.00701	0.00833	0.00662	0.00839
2017q2	0.0049	0.00723	0.00312	0.00477	0.00201	0.00719	0.00879	0.00696	0.00705
2017Q3	0.0049	0.00723	0.00312	0.00536	0.0024	0.00709	0.00855	0.00702	0.00513
2017q4	0.00499	0.00746	0.0032	0.00461	0.00211	0.00727	0.00825	0.00674	0.00851
2018Q1	0.00538	0.00735	0.00311	0.00479	0.00168	0.00674	0.00832	0.0072	0.00699
2018q2	0.00503	0.00732	0.00662	0.00486	0.00197	0.00732	0.01168	0.0047	0.00688
2018Q3	0.00504	0.00856	0.01004	0.00478	0.00201	0.00711	0.01927	0.00464	0.00486
2018q4	0.00486	0.00792	0.00772	0.00499	0.00183	0.00738	0.00575	0.00472	0.00664
2019Q1	0.00489	0.00746	0.00844	0.00778	0.00191	0.02052	0.00221	0.00877	0.00579
2019q2	0.00489	0.00809	0.01074	0.00869	0.00209	0.02146	0.00284	0.00517	0.00508
2019Q3	0.00489	0.00776	0.01164	0.00873	0.00224	0.02129	0.00347	0.00503	0.00579
2019q4	0.00613	0.00827	0.00647	0.00846	0.0021	0.02112	0.00517	0.00434	0.00624
2020Q1	0.00489	0.00746	0.00844	0.01751	0.00184	0.02144	0.00593	0.00419	0.00603
2020q2	0.00716	0.00726	0.00691	0.0217	0.00182	0.02196	0.00428	0.00552	0.00715
2020Q3	0.00752	0.00851	0.00588	0.02161	0.00176	0.02191	0.0036	0.00648	0.0067
2020q4	0.0074	0.00721	0.00607	0.02164	0.00192	0.02136	0.00557	0.0075	0.0067
2021Q1	0.00997	0.00687	0.005	0.0233	0.00166	0.01292	0.00741	0.00651	0.00709
2021q2	0.00788	0.00688	0.00594	0.02169	0.00174	0.00339	0.00583	0.00692	0.00765
2021 Q3	0.00879	0.00746	0.00471	0.0216	0.00171	0.0035	0.00488	0.00277	0.00808
2021q4	0.0076	0.00871	0.00393	0.00529	0.00193	0.0034	0.0036	0.00273	0.00798
2022Q1	0.011	0.00761	0.00493	0.00672	0.00205	0.00337	0.00575	0.003	0.00819
2022q2	0.00469	0.00751	0.00515	0.00524	0.00198	0.00358	0.00472	0.00331	0.00812
2022q3	0.00457	0.00702	0.00504	0.00455	0.00185	0.00343	0.00382	0.00372	0.00819
2022q4	0.00451	0.0072	0.00478	0.00458	0.00182	0.00337	0.00223	0.00376	0.00754
Lowest Quarter	0.00451	0.00687	0.003	0.00455	0.00151	0.00337	0.00221	0.00273	0.00486
Average	0.006115	0.007566	0.006	0.01033	0.001914	0.011047	0.00626	0.005347	0.006949
stdev	0.001855	0.00052	0.002467	0.00737	0.000198	0.007768	0.003653	0.001694	0.001096
average +2SD	0.009824	0.008606	0.010933	0.02307	0.002311	0.026582	0.013567	0.008735	0.009141
All sources, all years				Notes:					
lowest low	0.00151			Baghouse change outs on MC12 and MC4 reduced the PM.					
Average	0.006836			PS-11 full correlation testing was done.					
SD	0.004659								
average +2SD	0.016156								

LG&E/KU and UIEK members have invested millions of dollars of resources to install equipment, which EPA recognizes is MACT for MATS compliance. Under real operating conditions, however, the data shows that the units cannot consistently meet the proposed 0.010 lb/MMBtu emission limit. Facilities that have upgraded their controls to MACT standards do not have the ability to implement additional technologies to support compliance to a lower standard.

2.d Reduction of the fPM emission limit to 0.006 lb/MMBtu is not technically feasible.

For the same reasons discussed above, EPA’s analysis that units can achieve an fPM emission rate of 0.006 lb/MMBtu is faulty, and this standard is neither technically feasible nor sustainable, even with all MACT installed for fPM. The trendlines in the chart below of actual unit particulate matter emission rates between 2017 and 2022 for LG&E/KU’s fleet illustrates that the proposed limit of 0.010lb/MMBtu cannot be consistently met, as discussed above. Inconsistent compliance is even more starkly apparent for an emission limit of 0.006 lb/MMBtu. The fact that these units can, at certain times under certain conditions, occasionally meet a lower standard, does not provide sufficient evidence that the emission standard should be lowered when the limit cannot be consistently met.



2.e Reduction of the fPM limit could result in violation of state operating permits during testing.

Title V permits for facilities that currently have certified PM CEMS include additional PM limits that are averaged on a much shorter time frame than MATS limits (24-hour averages or 3-hour averages). While conducting PS-11 or RCA testing, especially where a detune of PM control equipment is necessary, it is possible, or even likely, that units will exceed the Title V specified limits. Regulatory agencies do not permit exceedances of the permit limits during testing. EPA should not place sources and state agencies in the position of having to choose which standard to meet. While state agencies typically work with sources to maximize compliance, EPA should not place them in the untenable position of deciding when a permit exceedance is needed/required to complete testing for another regulatory requirement.

3. EPA should not impose the proposed requirements on EGUs that are facing retirement and should correlate the retirement dates with other impending EPA proposals.

UIEK requests that EPA provide in the rule a permanent cessation of coal subcategory for units that qualify and are intending to cease operation whether due to compliance with this rule or other rules. There is precedent for such a subcategory; EPA has proposed the same in its proposed Effluent Limitation Guidelines (ELG) rules. Units in this category should be allowed to continue to meet compliance with current rule requirements through the last full operating quarter prior to retirement. Units facing retirement should not be required to meet the new standards/requirements introduced in this proposed rule until the unit is retired or removed from the subcategory. This would prevent costly capital investments where the units are already scheduled to retire.

UIEK further requests that EPA coordinate the required retirement date for this rule with other rules so that all retirement dates are consistent. For instance, EPA has here suggested that the retirement date would be three-years from the final rule. If enacted as planned in 2024, three years would be 2027 whereas the retirement date for the ELG rule is 2028. For utilities to properly plan, all the retirement dates in the various EPA rules should align.

Placing a cessation of coal subcategory with properly aligned dates for other applicable rules in this rule would provide the necessary framework for enforcement of the retirement date specified in the rule. Should a unit not retire by the specified date, it could be required to immediately cease operation or meet the standards of the rule. Failure to comply would then be a violation of the rule subject to enforcement.

4. The proposed changes are neither necessary or appropriate given EPA's review and support for the 2020 risk and technical review.

In 2020, EPA determined that the residual risks of hazardous air pollutants (HAP) emissions from EGU sources were acceptable as the analysis showed that the actual and allowable inhalation cancer risks were below the presumptive limit of acceptability and thus no changes were necessary to the MATS rule. 88 Fed. Reg. at 24865. In EPA's 2023 review of the 2020 finding, EPA stated that it "did not receive any new information in response to the 2022 Proposal that would affect the

EPA's 2020 residual risk analysis or the decisions emanating from that analysis. In reviewing the 2020 residual risk analysis, the EPA has determined that the risk analysis was a rigorous and robust analytical review using approaches and methodologies that are consistent with those that have been utilized in residual risk analyses and reviews for other industrial sectors." Id. At 24866.

EPA further stated that "since MATS was promulgated in 2012, power sector emissions of mercury (Hg), acid gas HAP, and non-Hg metal HAP have decreased by about 86 percent, 96 percent, and 81 percent, respectively, as compared to 2010 emission levels." Id. At 24857. EPA further did not identify any new or different control technologies for control of these HAPs. Nonetheless, EPA determined that "developments in the costs and effectiveness of control technologies and the related fact that emissions performance still varies significantly, warrant revising certain MACT standards." Id. At 24866.

Section 112(d)(6) of the Clean Air Act requires EPA to "review, and revise as necessary (taking into account developments in practices, processes, and control technologies), emission standards promulgated under this section no less often than every 8 years." UIEK acknowledges that EPA is generally granted discretion in its review of "developments" in practices and processes and in its determination of whether change is necessary; however, UIEK disagrees that changes to the standards are necessary for the MATS rule where substantial progress has been made in pollution reduction through well performing controls installed under an original MACT standard where no technology change has occurred, where EPA's data review cannot be replicated and appears faulty, and where costs have not been properly considered.

EPA restated the language of Section 112(d)(6) providing itself a higher standard than the statute: "to fulfil Congress's direction to require the maximum degree of reduction of HAP while taking into account the statutory factors." 88 Fed Reg. at 24856. EPA has full discretion to leave the practical, enforceable, and feasible MATS standards as they are.

4.a The improved performance relied upon by EPA is not supported by data used by EPA.

As explained in Comments 2.c and 2.d above, EPA's review of data supplied by EGU's in support of its proposal to reduce the fPM standard from 0.030 lb/MMBtu to 0.010 lb/MMBtu does not support the proposal for various reasons. First, EPA's assertion that 91% of EGUs are meeting levels at or below 0.010 lb/MMBtu cannot be replicated. A review of the data available in the docket for the rule for UIEK members shows that rather than assessing an average or a 95% confidence interval in its assessment, EPA appears to have chosen selective lowest quarters from various EGU data. There is no consistency amongst years or quarters chosen. The methodology seems to support only a predetermined conclusion. Even well controlled units with MACT systems installed cannot meet the proposed standard at all times. EPA should reevaluate the data and assess it based on consistent quarters to assure that it is implementing a standard that is ***achievable*** on a consistent basis. As explained in the comments above, EPA has not adequately evaluated all available data and should do so before finalizing the rule.

4.b Improved performance relied upon by EPA does not adequately reflect the Maximum Achievable Control Technology (MACT).

EPA has failed to demonstrate that the control technology set as the MACT standard can achieve the level of emissions proposed in this regulation. While EPA upheld the 2020 technology review analysis, their decision to reduce the fPM standard does not correlate with the specific control technology. To support reduction of the emission limit, EPA's data parsed out facilities reported under the MATS regulation that utilize controls beyond MACT even though MACT is either a baghouse or electrostatic precipitator (ESP). Facilities utilizing multiple control technologies are included in the data analyzed by EPA that skews the data on what can be achieved by the designated technology-based standard. EPA has failed to specifically link the emissions control achieved by a specific technology to the proposed standard.

4.c EPA's cost analysis is not complete.

EPA has failed to take into consideration the additional costs described above in Comments 2.a and 2.b for increased testing due to the proposed change to increase sample size to 4 dscm and lowering the fPM limit. EPA has not considered the increased costs for sampling due to the changes (which UIEK estimates to be at least three times current costs). Likewise, EPA has not considered the costs to UIEK ratepayers of the significant downtime that will be experienced due to these changes. In addition, many facilities that actually can meet the proposed lower standards utilize multiple control technologies to achieve emission rates at the level proposed by EPA. Even if EPA had invalidated the technology review and required additional controls, which EPA did not do, EPA has failed to account for the installation of additional controls to maintain emissions below the proposed levels or the operation and maintenance costs for multiple control technologies for PM emission reductions.

5. Conclusion

UIEK appreciates the opportunity to provide comments on this proposal. We hope that EPA will seriously consider the feasibility of its proposal in light of the significant technical challenges presented here. Should additional information be required, we are happy to work with EPA to develop a rule that is achievable and supports consistent compliance.

**COMMENTS OF THE CLASS OF '85 REGULATORY RESPONSE GROUP ON
THE PROPOSAL ON NATIONAL EMISSION STANDARDS FOR
HAZARDOUS AIR POLLUTANTS: COAL- AND OIL-FIRED ELECTRIC UTILITY STEAM
GENERATING UNITS REVIEW OF THE RESIDUAL RISK AND TECHNOLOGY REVIEW**

Docket ID: EPA-HQ-OAR-2018-0794

I. INTRODUCTION

On April 24, 2023, EPA published in the *Federal Register*, at 88 Fed. Reg. 24,854, a proposal that would amend the National Emission Standards for Hazardous Air Pollutants (“NESHAP”) for coal- and oil-fired electric utility steam generating units (“EGUs”) — *i.e.*, the Mercury and Air Toxics Standards (“MATS”) (“Proposal” or “Proposed Rule”).

The Class of '85 (“Class of '85” or “Group”) respectfully submits these comments on the Proposed Rule.¹ The Group is a voluntary, ad hoc coalition of over 40 electric generating companies from across the country that has been actively involved in the development of regulations to implement the Clean Air Act (“CAA”) for more than 30 years, including EPA’s previous MATS rulemakings. Members of the Class of '85 own and operate EGUs subject to MATS in approximately 35 states.

The Proposal has wide-ranging implications for EGUs across the country, including those owned and/or operated by Group members. While the Class '85 supports EPA’s proposed determination that certain aspects of MATS should not be revised, the Group requests that the Agency reevaluate those aspects of the Proposal for which it is proposing revisions, including: (i) tightening the surrogate filterable particulate matter (“fPM”) standard for coal-fired EGUs to demonstrate compliance with the emission limits for non-mercury (“Hg”) metal hazardous air pollutants (“HAPs”); (ii) requiring use of continuous emissions monitoring systems (“CEMS”) for demonstrating compliance with the fPM standard; (iii) eliminating the total and individual non-Hg metal HAPs emission limits; (iv) eliminating the low emitting EGU (“LEE”) option for fPM and non-Hg metal HAPs; (v) tightening the Hg emission standard for lignite-fired EGUs; and (vi) eliminating the four-hour startup definition.

II. COMMENTS

EPA conducted the MATS Residual Risk and Technology Review (“RTR”) pursuant to President Biden’s Executive Order 13990.² The order required EPA to review certain actions undertaken by the prior administration, including the MATS RTR finalized in May 2020.³ The 2020 MATS RTR indicated that HAP emissions from the source category are acceptable and did not identify any cost-effective controls that would achieve further HAP emission reductions.⁴ While EPA acknowledges in the Proposal that the 2020 Residual Risk Review was sound and is

¹ See Attachment A for the list of Class of '85 Regulatory Response Group supporting these comments.

² 88 Fed. Reg. 24,854, 24,856 (Apr. 24, 2023).

³ See National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units-Reconsideration of Supplemental Finding and Residual Risk and Technology Review, 85 Fed. Reg. 31,286 (May 22, 2020).

⁴ See *id.*

not proposing to modify it, EPA is proposing to determine that the 2020 Technology Review was flawed because it “did not consider developments in the cost and effectiveness of . . . proven technologies, nor did EPA evaluate the current performance of emission reduction control equipment and strategies at existing MATS-affected EGUs.”⁵ Following the consideration of such factors, EPA is proposing that the updated technology review requires certain changes to MATS.⁶ These changes include lowering the fPM limit for coal-fired EGUs, requiring the use of a PM CEMS, eliminating the total non-Hg HAP metals standard and the individual non-Hg HAP metals standards, revising the Hg emission limit for lignite-fired EGUs, and eliminating the four-hour startup definition for MATS compliance purposes.⁷

The Class of '85 is concerned that some of these changes would result in prohibitively high costs for many EGUs (dependent on their specific circumstances) that far exceed their benefits and are not necessary, especially in light of the Agency’s finding that the current standards “provide[] an ample margin of safety to protect public health and prevent an adverse environmental effect.”⁸ Owners and/or operators of certain EGUs subject to MATS could be forced to choose between making massive additional capital investments to comply with the proposed amendments or shutting down prematurely, which could have lasting impacts on reliability in their service areas. The revisions also could have the effect of delaying the transition to clean electric generation at some EGUs by forcing companies to divert resources towards investments in control technology for coal-fired generation that would incentivize continued operation of such units to recoup their investment. Moreover, some of the proposed amendments, such as tightening the fPM standard, could jeopardize the ability of certain EGUs to operate with an appropriate margin for compliance due to technical constraints and site-specific considerations. For these reasons, the Group provides the following comments below.

A. The Group Supports EPA’s Proposed Determination that Certain Aspects of MATS Should Not Be Revised.

The Class of '85 agrees with the Agency’s finding that the 2020 Residual Risk Review — “indicat[ing] low residual risk from the coal- and oil-fired EGU source category” — was sound.⁹ Accordingly, the Group supports EPA’s proposed determination that it does not need to revise the acid gas standards for coal-fired EGUs, the standards for continental and non-continental liquid oil-fired EGUs, and the standards for existing integrated gasification combined cycle (“IGCC”) EGUs.¹⁰

Although EPA is not proposing revisions to the standards identified above, the Agency has specifically requested feedback on certain aspects of these standards.¹¹ The Group provides the

⁵ 88 Fed. Reg. at 24,865.

⁶ *See id.* at 24,856.

⁷ *See id.* at 24,857-58.

⁸ 85 Fed. Reg. at 31,314.

⁹ 88 Fed. Reg. at 24,866.

¹⁰ *See id.* at 24,882-85.

¹¹ *See id.* at 24,858.

following comments in response to EPA's requests for feedback on the standards for continental and non-continental liquid oil-fired EGUs.

1. Continental Liquid Oil-Fired EGUs

EPA is not proposing to revise the total HAP metals emission standard, individual HAP metals emission standards, or the HAP metal surrogate fPM emission standard for continental liquid oil-fired EGUs.¹² EPA also is not proposing to revise the limits for limited use liquid oil-fired EGUs but is requesting comments on: (i) whether the current definition of the limited-use liquid oil-fired subcategory remains appropriate; and (ii) the appropriateness of including new HAP standards for EGUs subject to the limited use liquid oil-fired subcategory, as well as the means of demonstrating compliance with the new HAP standards.¹³

The Group urges EPA to retain the current definition of the limited-use liquid oil-fired subcategory. EPA also should not impose new HAP standards on EGUs in this subcategory, given that there are already limits on the amount of fuel oil that can be burned. The Agency has not identified any justification for the costs required for implementation and compliance with new HAP standards.¹⁴ Any changes to the existing HAP standards for EGUs in this subcategory may lead to reliability issues, as these units are crucial to maintaining grid reliability during cold winter spells, other extreme weather events, or when natural gas is curtailed, as acknowledged by the Agency.¹⁵

2. Non-Continental Liquid Oil-Fired EGUs

EPA is not proposing to revise the standards for non-continental liquid oil-fired EGUs.¹⁶ However, EPA is requesting comments on issues that could lead to changes in the MATS requirements for such units: (i) any special considerations — including the availability of clean fuels, such as distillate fuel oil and natural gas — in non-continental areas; (ii) whether the fPM surrogate emission standard is appropriate for non-continental liquid oil-fired EGUs; (iii) the appropriateness of including new HAP standards for non-continental liquid oil-fired EGUs, as well as the means of demonstrating compliance with the new HAP standards; (iv) whether compliance with a HAP emission limit could be demonstrated by fuel sampling and analysis; and (v) the need for additional, cost-effective methods to minimize HAP emissions in non-continental states and territories.¹⁷

a) Special Considerations

EPA must account for the differences between non-continental and continental EGUs in considering whether non-continental liquid oil-fired EGUs should be subject to the same requirements as continental liquid oil-fired EGUs. For instance, liquid oil-fired EGUs in Hawaii

¹² See *id.* at 24,884.

¹³ See *id.*

¹⁴ See *id.*

¹⁵ See *id.*

¹⁶ See *id.*

¹⁷ See *id.*

and Puerto Rico are uniquely situated because they are geographically isolated, lack connections with continental sources of power, and must spend roughly 20 percent more than continental EGUs on testing services to import expertise and equipment. The electric generating systems in these areas further differ from electric generating systems in the contiguous 48 states due to: (i) limited fuel choices, as natural gas or liquefied natural gas may not be physically accessible or otherwise consistently acquired; (ii) increased need for local generation resources to maintain system reliability; (iii) limited economies of scale, where multiple smaller generation units are required as opposed to a few larger units to maintain reliability; (iv) limited flexibility for scheduling overhauls and other extended planned maintenance outages; and (v) different operational regimes compared to units in interconnected grids. EGUs in non-continental areas lack the compliance options and flexibility available to continental EGUs.

Some non-continental liquid oil-fired EGUs are located in areas with laws establishing aggressive Renewable Portfolio Standards (“RPS”). For instance, Hawaii’s RPS requires electric generating companies to sell increasing percentages of electricity generated from renewable sources, where the percentage must reach 40% by 2030, 70% by 2040, and 100% by 2045.¹⁸ Owners and/or operators of EGUs in these areas would thus need to outlay significant investments for both endeavors — complying with any changes to their MATS requirements while simultaneously meeting the RPS — and the costs required for both would ultimately need to be passed down to customers, further increasing electricity costs, which already are nearly three times higher than the average in the continental U.S.¹⁹

b) Filterable PM Surrogate Emission Standard

Filterable PM is, and continues to be, an appropriate surrogate for individual and total non-Hg HAP metals for oil-fired EGUs. When EPA established fPM as a surrogate for the non-Hg HAP metals, the Agency explained:

Except for Hg, the best PM controls provide the best controls of metal emissions. Emissions measurements of either filterable particulate, total particulate, individual metals, or total metals provide comparable indications that the best level of control is achieved. *We can find no significant difference in the emissions that would be achieved by using any one of these emissions measurements.*²⁰

¹⁸ See Hawaii Revised Statutes § 269-92(a).

¹⁹ See US Electricity Profile 2021, U.S. Energy Information Administration, released Nov. 10, 2022, <https://www.eia.gov/electricity/state/> (listing U.S. total average retail price of 11.10 cents/kWh and Hawaii average retail price of 30.31 cents/kWh).

²⁰ National Emission Standards for Hazardous Air Pollutants From Coal- and Oil-Fired Electric Utility Steam Generating Units and Standards of Performance for Fossil-Fuel-Fired Electric Utility, Industrial-Commercial-Institutional, and Small Industrial-Commercial-Institutional Steam Generating Units, 77 Fed. Reg. at 9304, 9402 (Feb. 16, 2012) (emphasis added). See also EPRI’s Comments for EPA’s Proposed Rule on National Emission Standards for Hazardous Air Pollutants from Coal and Oil-Fired Electric Utility Steam Generating Units and Standards of Performance for Fossil-Fuel-Fired Electric Utility, Industrial-Commercial-Institutional, and Small Industrial-Commercial-Industrial Steam Generating Units (76 Fed. Reg. 23,768 (Apr. 28, 2011)), Doc. ID. EPA-HQ-OAR-2009-0234-17621, at 2-38, submitted Aug. 4, 2011 (“The correlations of individual and total non-mercury metals with fPM for oil-fired EGUs are statistically significant to the 95% level, similar to the fPM standard for coal-fired EGUs”).

In the Proposal, EPA has not disavowed this determination.²¹ Thus, it is thus unclear why EPA is considering eliminating the fPM standard, and how requiring compliance with emission limits for individual HAP metals would address the Agency's concerns regarding risks associated with certain individual HAP metals.²²

For non-continental liquid oil-fired EGUs, the fPM standard is crucial to simplifying the monitoring requirements and, more importantly, reducing the costs associated with ongoing MATS compliance. The cost of performance testing to demonstrate compliance with the surrogate fPM standard is much lower than the cost of performance testing to demonstrate compliance with the numerous standards for individual non-Hg HAP metals, as well as for total non-Hg HAP metals. Requiring monitoring and testing for each individual non-mercury HAP metal would significantly increase compliance costs and, thereby, electricity rates. Accordingly, EPA should not eliminate or revise the fPM standard.

c) New HAP Standards

EPA should not impose new HAP standards for EGUs in non-continental areas because any additional standards would require large investments to achieve compliance, divert investments away from renewable energy development, or force premature retirement — of which the latter may jeopardize resilience and reliability in these areas.

EPA also should not require oil-fired EGUs in such areas to switch from residual oil to cleaner fuels. Any change to distillate fuel would be cost-prohibitive as natural gas may not be physically accessible or otherwise consistently acquired in non-continental areas. According to one Group member, a switch to distillate oil would increase fuel costs by at least seven percent, resulting in an approximate increase of \$61 million per year (without accounting for inflation or grid changes). Additionally, EPA should not require liquid oil-fired EGUs in non-continental areas to switch to cleaner fuels after a certain number of hours of operation. This would force EGUs to undertake significant modifications to plant infrastructure to support two different types of fuel oil. Modifications, such as building additional fuel oil storage tanks, may be difficult at facilities located in urban areas where there is insufficient land available for such an expansion on the site's footprint. Moreover, diverting large capital outlays to such modifications would not be fiscally sound, particularly in areas with aggressive RPS.

Lastly, EPA should not subject oil-fired EGUs in non-continental areas to an annual limit on residual firing. In some of these areas, most of the oil-fired EGUs largely combust residual fuel oil to generate electricity. Imposing an annual limit on residual firing could thus impact grid reliability. Companies need to have the flexibility to operate to meet demand and to provide backup to renewable sources.

²¹ See 88 Fed. Reg. 24,857 fn. 4.

²² 88 Fed. Reg. at 24,884.

d) *Compliance Via Fuel Sampling and Analysis*

EPA should not require compliance with a HAP metal emission limit via fuel sampling and analysis because these tests are expensive and challenging to perform — again, costs that would ultimately be borne by customers.

e) *Need for Additional, Cost-Effective Methods*

There is no need for additional, cost-effective methods to minimize HAP emissions in non-continental areas, especially as companies are transitioning to clean energy generation over the next few decades. Any changes to the existing MATS standards for non-continental liquid oil-fired EGUs would impose prohibitively high costs, solely for the purpose of achieving MATS compliance during the interim transition period to clean energy generation. By way of example, according to one Group member, installing Hg, hydrogen chloride (“HCl”), hydrogen fluoride (“HF”), and PM emission controls on its non-continental MATS-applicable fleet to comply with the *current* MATS for continental oil-fired EGUs is estimated to cost nearly \$1 billion.²³

Unlike many states in the continental U.S., there is excellent natural air quality in remote island locations due to geographical isolation, island configuration, and trade winds.²⁴ Any emissions reductions achieved by amending the existing MATS standards likely would have only a de minimis impact on air quality, and the cost of complying with any amendments would be vastly disproportionate to their benefits.

B. EPA Should Reevaluate its Proposal to Tighten the fPM Emission Standard for Coal-Fired EGUs.

Existing coal-fired EGUs currently can demonstrate compliance with the emission limits for non-Hg metal HAPs by meeting: (i) the individual emission limits for each of the 10 non-Hg metals; (ii) an emission standard for total non-Hg metals; or (iii) a surrogate fPM emission standard of 0.030 lb/MMBtu.²⁵ EPA is proposing to eliminate the non-Hg HAP metals standards, leaving only the surrogate fPM standard. Further, EPA is proposing to tighten the surrogate fPM standard to 0.010 lb/MMBtu, which is comparable to the MATS new source standard of 0.09 lb/MWh fPM (equivalent to a new coal-fired EGU with a heat rate of 9.0 MMBtu/MWh).²⁶ EPA also is soliciting

²³ The estimate is based on Hawaiian Electric Company’s \$696 million estimate in 2011 dollars for installing emission control equipment for Hg, HCl, HF, and PM to comply with the proposed numeric emission standards for liquid oil-fired EGUs in the original MATS rule. Given that Hawaiian Electric Company’s fleet has not changed, the 2011 estimate scaled to 2023 dollars would reach nearly \$1 billion. *See* Hawaiian Electric Company’s Comments for EPA’s Proposed Rule on National Emission Standards for Hazardous Air Pollutants from Coal and Oil-Fired Electric Utility Steam Generating Units and Standards of Performance for Fossil-Fuel-Fired Electric Utility, Industrial-Commercial-Institutional, and Small Industrial-Commercial-Industrial Steam Generating Units (76 Fed. Reg. 23,768 (Apr. 28, 2011)), Doc. ID. EPA-HQ-OAR-2009-0234-18477, at 13, (Aug. 3, 2011) (“Hawaiian Electric estimates that installation of emission control equipment for Hg, HCl, HF, and PM would cost at least \$696 million, based on preliminary quotes provided by engineering consultants and equipment vendors. To date, no control equipment vendor will provide performance guarantees so this cost estimate does not address the risk associated with failure to comply with the proposed HAP emission limits.”).

²⁴ *See id.* at 12.

²⁵ *See* Table 2, Emission Limits for New or Reconstructed EGUs, Subpart UUUUU, 40 C.F.R. Part 63.

²⁶ 88 Fed. Reg. at 24,856.

comment on whether to revise the fPM standard to an even more stringent level of 0.006 lbs/mmBtu.²⁷

1. EPA's evaluation of current fPM emission levels is flawed.

EPA's proposal to tighten the fPM standard is based on its review of "developments in the current emission levels of fPM from existing coal-fired EGUs, the costs of control technologies, and the effectiveness of those technologies, as well as the costs of meeting a standard that is more stringent than 3.0 E-02 lb/MMBtu and the other statutory factors."²⁸ According to EPA:

Currently, 96 percent of existing coal-fired capacity without known retirement plans before the proposed compliance period already have *demonstrated* an emission rate of 1.5E-02 lb/MMBtu or lower, 91 percent of existing coal-fired capacity have *demonstrated* an emission rate of 1.0E-02 lb/MMBtu or lower, and 72 percent of existing coal-fired capacity have *demonstrated* an emission rate of 6.0E-03 lb/MMBtu or lower."²⁹

The statistics above appear to be based on the evaluation summarized in the 2023 Technology Review for the Coal- and Oil-Fired EGU Source Category ("Technical Memo").³⁰ EPA should not rely on the 96 percent threshold as justification for setting the proposed fPM limit at 0.010 lb/MMBtu. EPA's reliance on that evaluation is problematic for several reasons, and the Group is concerned that EPA is overstating the universe of units that will be able to meet the proposed standard.³¹

First, the evaluation summarized in the Technical Memo excludes units that have shut down, will shut down, or will no longer burn coal/oil by December 31, 2028, or that reported data in lbs/MWh.³² By failing to include units that will shut down or no longer burn coal/oil by December 31, 2028, EPA is not appropriately accounting for units that are likely emitting fPM at levels closer to the current standard than the more stringent proposed fPM limit. EPA should have accounted for such units given that affected EGUs will have up to three years after the effective date of the final rule to demonstrate compliance with the revised limit, and some of the excluded units may not have retired or ceased burning coal or oil by the compliance deadline.³³

²⁷ *Id.* at 24,857.

²⁸ *Id.*

²⁹ *Id.* at 24,868 (emphases added).

³⁰ 2023 Technology Review for the Coal- and Oil-Fired EGU Source Category ("Technical Memo"), Doc. ID. EPA-HQ-OAR-2018-0794-5789, posted Apr. 24, 2023.

³¹ This is not just a concern for the electric generating industry. Miscommunication of this data to other stakeholders such as Regional Transmission ("RTOs"), North American Electric Reliability Corporation ("NERC"), Independent System Operator ("ISO") New England, Midcontinent ISO ("MISO"), and others could lead to issues with grid stability, which would impact not only Americans but also citizens in neighboring countries (*e.g.*, Canada) where electricity is supplied by these networks.

³² See Technical Memo at PDF p. 2.

³³ 88 Fed. Reg. at 24,868, fn. 20. EPA excluded units that have *announced* that they will shut down by the end of 2028 based on the National Electric Energy Data System ("NEEDS") database, but such retirement plans are not legally binding and thus such units should *not* be excluded from the Agency's evaluation.

If the final rule is issued before December 31, 2025, or if the announced retirements are delayed, these excluded units could become subject to a tighter standard that they would not be able to meet without large capital outlays to install PM control technology despite near-term projected fuel switches or retirement dates that would render such investments not cost-effective. Units that are retiring in the near-term and cannot meet the fPM limit without the installation of controls could be forced to shut down early, which could destabilize electric reliability in their service areas and could have long-lasting effects. Significant investment would be needed to restart certain generating facilities if it was later determined that the decision to shut down early was detrimental to reliable grid operations.

To avoid such outcomes, EPA should try to harmonize the Proposal with other state and federal rulemakings affecting EGUs. As discussed below, a compliance date based on three years after the final rule's effective date is inconsistent with other recent EPA rulemakings, which recognize that significant investments in emissions controls should not be required for EGUs that will retire in the near-term.

Second, the evaluation is based on selected quarterly data from 2017, 2019, and 2021.³⁴ The Agency fails to explain how and why it selected the specific quarterly data for those years for its evaluation when EPA has all quarterly testing and PM CEMS data for the entire fleet since EGUs began complying with MATS.³⁵ The Agency also fails to explain why it used a single quarter of data to present the unit's "baseline" and why "[t]he 99th percentile of the *lowest* quarter was chosen to describe the baseline fPM rate for each EGU."³⁶ This results in a questionable dataset comprised of an extremely small industry sample size and where each EGU is narrowed down to a single data point. EPA should use all data available from coal-fired EGUs — except as noted below with respect to units co-firing natural gas — to provide a full picture of achieved fPM emission rates. At the least, EPA should provide justification for its selection of the data, why reliance on the selected data is appropriate, and why certain quarterly data between 2017 through 2021 were excluded, so that interested stakeholders can verify the accuracy and representativeness of the underlying unit-specific data.³⁷

Group members have *attempted* to locate and review the unit-specific data that EPA analyzed (and made available in the docket), but members largely have not been able to mirror that data with their own.³⁸ Certain stack test reports could not be retrieved from EPA's WebFire

³⁴ Technical Memo at PDF p. 2. ("Quarterly data from 2017 (variable quarters) and 2019 (quarters three and occasionally four) were first reviewed because data for all affected EGUs subject to numeric emissions limits had been previously extracted from CEDRI. In addition, the EPA obtained first and third quarter data for calendar year 2021 for a subset of EGUs with larger fPM rates (generally greater than 1.0E-02 lb/MMBtu for either 2017 or 2019).")

³⁵ EPA's explanation that this information had previously been extracted from CEDRI is in fact no explanation at all. *See id.*

³⁶ Technical Memo at PDF p. 4. (emphasis added).

³⁷ There is confusion among Group members as to which units EPA included/excluded, and as to which quarterly data sets were included/excluded. EPA failed to explain its rationale for determining which units and data sets should be included or excluded. The lack of explanation, coupled with the large number of supporting documents in the docket, makes it extremely difficult for members to identify the unit-specific data compiled, analyzed, and ultimately relied upon by EPA and, more importantly, to meaningfully review EPA's evaluation.

³⁸ *Supra* fn. 37.

online database nor were they available in the docket. Among other issues, as summarized in Attachment B, Group members have determined that EPA:

- Included some units that will be converted to gas in 2025.
- Did not include data for all quarters but instead selected only quarters with the lowest emissions for some units and excluded other quarters with higher emissions (peaking for some units, ramping for others).
- Excluded some units with no current plans to retire or switch to natural gas.
- Included some units that have a federally enforceable requirement to cease coal combustion by December 31, 2028 (despite EPA stating that the evaluation excluded coal-fired EGUs that will retire by that date).
- Used the last day of a quarter in some cases and the *average* of 30-day averages for others.
- Included only certain test runs in conducting its distribution analysis.³⁹

As to the last point above, EPA should use a historical data pool that encompasses data from different times of year and operating conditions. EPA should include all affected units and all operating quarters in its analysis. Without a more comprehensive data pool, it is difficult to see how EPA could conduct a proper statistical analysis to justify the proposed fPM limit. The Group strongly recommends that EPA correct the deficiencies identified above, as well as make its statistical analysis or Python code used for the fPM evaluation available for public review, to ensure that the proposed fPM limit is not deemed arbitrary and capricious.

Third, the evaluation fails to properly address differences in typical unit operating variability by combining stack test data with PM CEMS data. Stack test data represent unit performance at a discrete point in time under full load conditions, whereas PM CEMS data provide a more comprehensive assessment of unit operating variability under all load and process conditions. These are two different data sets and should be treated independently. This is reflected in EPA's performance specification for PM CEMS, which only requires the readings to be within +/-25% of actual stack testing values two-thirds of the time (with the other one-third of the time not having any accuracy constraint) to be considered as valid readings.⁴⁰ EPA fails to explain how using such an error prone data set is justified for establishing an emissions standard. The evaluation fails to recognize that PM CEMS is not constrained to a linear correlation with direct emissions. In cases where non-linear correlations are used, an allowable +/-25% error from the correlated value could have a much larger deviation from the actual measured emissions compared

³⁹ For the same reasons articulated in fn. 37, there is confusion among Group members as to which test runs EPA included/excluded in its distribution analysis, and EPA's lack of rationale for how it determined which test runs to use.

⁴⁰ See Appendix F, 40 C.F.R. Part 60, Procedure 2.

to when a linear correlation is used.⁴¹ Any emissions analysis based upon PM CEMS readings must attempt to compare unit performance in the allowable error band.

Further, any unit using a PM CEMS to demonstrate compliance with the emissions limit also must conduct annual emissions measurements under steady-state conditions, which are utilized in either a Response Correlation Audit (“RCA”) or Relative Response Audit (“RRA”). The tested unit must show compliance in the short-term via stack testing measurement values and in the long-term via PM CEMS 30-day average values, and EPA needs to account for the fact that there often is an increase in the measured short-term emissions during stack testing. For these purposes, PM CEMS data and PM testing measurements should be treated separately and not merged as a data set. Failing to address these differences is especially problematic because EPA is proposing to require PM CEMS as the sole compliance demonstration method, as discussed in Section II.C below. EPA should thus revise its current “apples-to-oranges” comparison to establish consistently achievable baseline emissions for each unit by using all available data *and* by accounting for any bias related to operating variability.

Fourth, the evaluation fails to take into consideration different control configurations — specifically, the variation in PM removal efficiencies. Some PM control technologies, such as hot-side electrostatic precipitators (“ESPs”), inherently have higher PM emissions.⁴² Similarly, depending on the coal combusted, units that utilize hydrated lime as a control technology for minimizing HAPs, like mercury and sulfuric acid, inherently have higher PM emissions. Wet flue gas desulfurization (“WFGD”) also may result in higher PM emissions — in particular, higher variability in fPM emission rates — because WFGD can either add particulate from mist eliminators or remove additional particulate. EPA should factor in these specific control configurations. EPA also should analyze more comprehensive data sets across a longer time frame — rather than using a snapshot of EGUs “demonstrating” the proposed limit during selected quarters — prior to concluding that continuous compliance with the proposed limit is achievable.

Fifth, the evaluation fails to recognize that some units have converted to natural gas co-firing. Since these units continue to have the capability to combust coal, all of their emissions data is reported as subject to MATS. However, co-firing natural gas inherently results in significantly reduced fPM emissions, which could bias the data set low. EPA should exclude data from units that co-fire natural gas in evaluating what a revised fPM standard should be. Any proposed fPM limit that EPA establishes should be based on fPM from affected units that only combust coal.

2. Some coal-fired EGUs may not be able to achieve compliance with the proposed fPM emission standard on a continuous basis.

Although EPA claims that 91 percent of existing coal-fired EGUs have demonstrated that they can achieve an emission rate of 0.010 lb/MMBtu, it does not necessarily mean that those

⁴¹ See Appendix B, 40 C.F.R. Part 60, Performance Specification 11.

⁴² ESPs are capable of collection efficiencies greater than 99 percent. See EPA, Monitoring by Control Technique – Electrostatic Precipitators, accessed June 17, 2023, <https://www.epa.gov/air-emissions-monitoring-knowledge-base/monitoring-control-technique-electrostatic-precipitators>.

EGUs can *continuously achieve* that rate.⁴³ The same is true for the 72 percent of coal-fired EGUs that EPA claims have demonstrated an emission rate of 0.006 lb/MMBtu.⁴⁴

As explained above, the statistics that EPA has presented are based on its evaluation of “quarterly fPM compliance data for coal-fired EGUs from 2017 to 2021 for units in the contiguous United States based on data availability.”⁴⁵ It is important to note, however, that EPA’s explanation fails to accurately describe the data that EPA used. EPA only used data from specific quarters in 2017, 2019, and 2021.⁴⁶ Further, the evaluation fails to consider whether the units can achieve 0.010 lb/MMBtu fPM (or a lower emission rate) *for each quarter* during that time period. In attempting to verify the accuracy of the underlying source-specific fPM data,⁴⁷ Group members evaluated their unit-specific data across a wider time frame and found that while some of their units may have met the 0.010 lb/MMBtu or 0.006 lb/MMBtu fPM emission rates from time to time, their units do not consistently achieve those rates.

The evaluation also fails to consider whether the units can meet 0.010 lb/MMBtu or 0.006 lb/MMBtu fPM *continuously*, as will be required if EPA finalizes its proposed requirement that EGUs must use a PM CEMS to demonstrate compliance with the fPM standard.⁴⁸ As explained above, in contrast to the continuous measurements taken by PM CEMS, measurements taken via stack testing are conducted under prescribed “representative testing conditions.”⁴⁹ The majority of data in EPA’s evaluation are stack testing fPM data because the majority of EGUs are using stack testing for compliance. Such data do not provide information across a unit’s entire load range, including during startups, shutdowns, maintenance, and malfunction events — all of which would be captured by a PM CEMS. Exclusion of such data likely overstates the units that can demonstrate the more stringent limits on a continuous basis. Factors such as current cost-effective control technologies and EGUs’ operational limitations could hinder the ability of some coal-fired EGUs to continuously comply with the proposed fPM standard. Other factors include:

- Peak summer conditions. Although some units may be able to achieve a rate of 0.010 lb/MMBtu during shoulder months, they may not be able to continuously meet that limit during peak load conditions when they cannot do off-power rapping or maintenance and cleaning of ESPs to remove buildup on the ESPs’ wires and plates. During the summer, most units operate at base load and run at high capacity factors. It may be difficult to maintain optimal operation of control technologies during peak summer conditions. For example, ESPs must be taken off-line for cleaning and require roughly 24 to 48 hours for cooling before temperatures are low enough for maintenance

⁴³ 88 Fed. Reg. at 24,868.

⁴⁴ *Id.*

⁴⁵ Technical Memo at PDF p. 2.

⁴⁶ *Id.*

⁴⁷ *Supra* fn. 37.

⁴⁸ *See* 88 Fed. Reg. at 24,857.

⁴⁹ *See* EPA, Memorandum re Issuance of the Clean Air Act National Stack Testing Guidance, Apr. 27, 2009, at 14-17, https://www.epa.gov/sites/default/files/2013-09/documents/stacktesting_1.pdf (excluding start up, shutdown, malfunction, and other non-representative operating conditions).

- personnel to safely enter the ESP to perform repairs.⁵⁰ At a minimum, vacuuming may be required of the ESP inlet and outlet ducts, along with any hoppers that have high levels. Some ESPs may require sandblasting to remove problematic buildup on wires and panels. Unless there are additional outages scheduled for such maintenance, the units may be unable to maintain compliance with the proposed 0.010 lb/MMBtu limit.
- Coal characteristics. The availability of coal is limited to certain regions and, as a result, the characteristics of coal vary depending on location. Characteristics potentially impacting continuous compliance with the proposed fPM standard include:
 - Ash content. Ash content of the coal being fired may impact the ability of units to comply with the proposed limit, regardless of the effectiveness of the control technologies in place.⁵¹
 - Sulfur trioxide (“SO₃”)/Blue Plume. Some units may inject sodium or calcium-based products upstream of the PM collection equipment, which increases PM loading.
 - Using #2 fuel oil for startup and stabilization. Using #2 fuel oil for startup and stabilization also may impact the ability of units to comply with the proposed limit. Using any amount of fuel oil decreases the removal effectiveness of the ESPs for a short period of time until enough coal is introduced so that the amount of coal ash in the combustion process has scoured the coating of the collecting plates and wires.
 - Other operational factors. Other operational factors such as cleaning frequency, operational duration, and filter change out frequency may impact the performance of controls (*e.g.*, baghouses) and an EGU’s ability to comply with the proposed limit.⁵²
 - Transitioning to renewable generation. As renewable generation increases, fossil fuel-fired generating assets likely will be dispatched in a substantially different manner than before, which EPA should take into account in evaluating whether continuous compliance with the proposed limit is achievable. Capacity factors of coal-fired EGUs are now typically lower during the day when solar and wind are available, but the demand for coal-fired EGUs is greater at night when renewable generation is

⁵⁰ When ESP fields fail, it is generally due to grounding issues, which often require physical entry into the ESP to restore fields to service. Although actual repair time is roughly 12 hours, any EGU outage required for ESP repairs will take at least two to three days to complete.

⁵¹ See EPA AP-42, Fifth Edition, Vo. 1, Ch. 1.1, Table 1.1-6 “Cumulative Particle Size Distribution and Size-Specific Emission Factors for Dry Bottom Boilers Burning Pulverized Bituminous and Subbituminous Coal,” at 1.1-26, https://www.epa.gov/sites/default/files/2020-09/documents/1.1_bituminous_and_subbituminous_coal_combustion.pdf (reflecting direct and linear relationship between ash content and controlled fPM emission).

⁵² The quality of fabric filter material not only could impact baghouse performance but also cause other environmental concerns, which it is not clear that the Agency considered. While EPA pointed out that upgrading standard bags to fiberglass bags with polytetrafluoroethylene (“PTFE”) membrane coating could reduce fPM emissions by up to 50 percent, PTFE is a renowned PFAS material that could be banned in the near future. See Technical Memo at PDF p. 9.

unavailable.⁵³ As a result, traditional generation assets likely will have more startup and shutdown periods, more transient operation as load following units, and increased operation at minimum loads — all of which can produce higher PM emissions. This is because control devices perform at their optimum when operating at full-load, steady state conditions, and additional transient operation will negatively affect their removal rates. While PM emissions may be lower during low-load periods, there generally is particulate layout in the duct work during such periods and, as units ramp to higher loads, the particulate re-entrains, potentially leading to higher emissions. At low loads, WFGD mist eliminators operate at reduced efficiency and WFGD slurry carryover can increase PM emissions at reduced loads.

The Group is concerned that EPA is proposing to revise the fPM standard solely on the basis that many units have purportedly *demonstrated* that they can achieve the 0.010 lb/MMBtu emission rate under certain optimum operating conditions based on limited snapshots of monitoring data. But by doing so, EPA runs the risk of eliminating the necessary margin for compliance and thus significantly restricting a unit's operational flexibility. As one Group member pointed out, even with baghouses and reagent injection systems in place for all of its units, not all the units have *continuously* demonstrated the proposed 0.010 lb/MMBtu fPM limit, much less the more stringent 0.006 lb/MMBtu limit, based on historical data (from 2017 to 2021 and including all quarters).

Operational flexibility is critical for EGUs, which might be called on to operate by their balancing authority based on fluctuations in demand, unexpected downtime of other units in the region, extreme weather, and other scenarios that are outside of an individual EGU operator's control. EGUs might need to take derates for a significant period of time to comply with the proposed fPM limit. The Group strongly recommends that EPA consult with Regional Transmission Organizations ("RTOs"), Independent System Operators ("ISOs"), the North American Electric Reliability Corporation ("NERC"), and other similar authorities prior to finalizing a fPM limit that could restrict or eliminate the flexibilities of these units to operate while also maintaining compliance with the limit.

Lastly, in addition to the issues identified above, EPA's evaluation is replete with questionable assumptions and statements. For instance, in the technical reports developed by Sargent & Lundy ("S&L"), on which EPA relies for cost and emissions reductions assumptions, S&L acknowledges that "[b]ased on S&L's recent industry experience, the lowest filterable PM emission rates that an ESP supplier has been willing to guarantee is 0.030 lb/MMBtu for a new

⁵³ Load demands during the night have a different profile than load demands during the day, requiring large load generation at times or operation at turned-down rates well below the design control basis of coal-fired boilers. System dispatch becomes increasingly less reliable the more solar and wind contribute to load demands during the day because such generation sources are not dispatchable. For instance, during summer storms, which occur rapidly and take out solar and wind power generation, backup power must come from fuel-based generation sources that increasingly operate on a standby mode. However, fuel-based standby generation must remain online 24/7 to meet such system demands. Further, to minimize costs, coal-fired EGUs are turned down at night to loads at which they were not designed to operate, making the entire process operate differently than if operated under normal conditions, thus impacting emissions.

and/or completely rebuilt ESP.”⁵⁴ Yet, the study states that “it is clear that emission levels down to 0.010 lb/MMBtu and below are achievable in most ESP applications based on the reported emissions data” despite acknowledging that the authors are unable to tie a specific performance improvement to a specific set of ESP upgrades.⁵⁵ EPA should not rely on such unsupported statements to justify a fPM limit of 0.010 lb/MMBtu.

3. EPA should harmonize applicability of a revised fPM limit with other EPA rulemakings.

EPA is proposing a compliance date for the revised fPM limit of three years pursuant to CAA Section 112.⁵⁶ Should EPA finalize the 0.010 lb/MMBtu fPM emission limit, EPA should include options to offer flexibility to EGUs that also are subject to other regulatory drivers affecting their future operations.

First, EPA should consider establishing additional subcategories of coal-fired EGUs to address unique circumstances and to ensure consistency with other recent EPA rulemakings so that EPA is not establishing requirements that impose unnecessary or conflicting costs on the industry. Specifically, consistent with other rulemaking addressing EGUs, EPA should establish a subcategory for units facing near-term retirements, such as by the end of 2028 or end of 2031, or even later for units with unique circumstances. EPA should allow EGUs in the near-term retirement subcategory to continue to meet a fPM emission limit of 0.030 lb/MMBtu. This would be consistent with the end of 2031 deadline in the proposed Section 111(d) standards for imminent-term retirements.⁵⁷ Further, in the Clean Water Act Effluent Limitations Guidelines (“ELG”), EPA exempted EGUs that permanently cease burning coal by December 31, 2028, or, for “early adopters,” by December 31, 2032.⁵⁸ Additionally, a near-term retirement subcategory would be consistent with the compliance deadline for the secondary NO_x emission limit for coal-fired EGUs in EPA’s interstate transport federal implementation plan for units that do not have selective catalytic reduction technology (“SCR”).⁵⁹ For such units, the secondary NO_x limit does not

⁵⁴ Sargent & Lundy. PM Incremental Improvement Memo, Doc. ID. EPA-HQ-OAR-2018-0794-5836 at 2 (Mar. 2023). *See also* Technical Memo at PDF p. 8.

⁵⁵ PM Incremental Improvement Memo at 2.

⁵⁶ *See* 88 Fed. Reg. at 24,868 fn. 20.

⁵⁷ *See* New Source Performance Standards for Greenhouse Gas Emissions From New, Modified, and Reconstructed Fossil Fuel-Fired Electric Generating Units; Emission Guidelines for Greenhouse Gas Emissions From Existing Fossil Fuel-Fired Electric Generating Units; and Repeal of the Affordable Clean Energy Rule, 88 Fed. Reg. 33,240, 33,245 (May 23, 2023) (“For units with operating horizons that are imminent term, *i.e.*, those that (1) [h]ave elected to commit to permanently cease operations before January 1, 2032, and (2) elect to make that commitment federally enforceable and continuing by including it in the State plan, the EPA is proposing that the BSER [best system of emission reduction] is routine methods of operation and maintenance with an associated degree of emission limitation of no increase in emission rate (lb CO₂/MWh-gross basis).”).

⁵⁸ *See* Steam Electric Reconsideration Rule, 85 Fed. Reg. 64,650, 64,679 (Oct. 13, 2020); *see also* Proposed Revision of Steam Electric EGU ELGs, 88 Fed. Reg. 18,824, 18,857, 18,837 (Mar. 29, 2023) (proposing to maintain the 2028 cessation subcategory and establish an “early adopters” subcategory).

⁵⁹ *See* Federal “Good Neighbor Plan” for the 2015 Ozone National Ambient Air Quality Standards, 88 Fed. Reg. 36,654 (June 5, 2023).

become effective until the second control period after the unit installs SCR or the 2030 control period, whichever is later.⁶⁰

All these other proposed and final regulatory requirements allow companies adequate lead time to phase in retirements for their coal-fired EGUs. Creating a subcategory in the MATS rule for units facing near-term retirements that harmonizes the retirement dates with other rulemakings would greatly assist companies with moving forward on retirement plans without running the risk of being forced to retire early, which could create reliability concerns or, in the alternative, deliberating whether to install controls and continue operation longer than planned to recoup investments in the controls.

Second, pursuant to its authority under CAA Section 112, EPA should grant EGUs up to a one-year extension on a case-by-case basis if they are unable to comply with the revised fPM limit within three years after the effective date of the final rule.⁶¹ However, as explained above, the Group strongly urges EPA to harmonize the effective dates of other rulemakings to minimize impacts to grid reliability and cost increases to customers. For units that will continue to operate, significant planning, installation, and implementation of control technologies could be required. Units likely would need to consult with their respective ISOs, RTOs, or other system reliability authorities to ensure that the reliability effects of such outage periods can be coordinated and mitigated.

Furthermore, most units that currently use ESPs likely would need to complete extensive work on their existing controls to optimize their performance so that they can meet the proposed more stringent limits. There are a limited number of specialized vendors/companies with the expertise that could conduct such work, and there currently also is a shortage on the availability of parts. Many of the parts are no longer in production and would have to be custom manufactured, which would add to the timeframe needed for compliance. Even four years for installation of, for instance, baghouses along with new FGD towers, likely would be a huge challenge considering the current limited availability of competent engineering, procurement, and construction firms in the U.S., along with the ongoing supply chain issues for material.

C. EPA Should Retain the fPM Emission Monitoring Options.

EGUs that do not qualify for the LEE program currently demonstrate compliance with the fPM standard by conducting quarterly performance testing (*i.e.*, quarterly stack testing), using a PM continuous parameter monitoring system (“CPMS”), or using a PM CEMS.⁶² EPA is proposing to eliminate the quarterly stack testing and CPMS options for all coal-fired EGUs — specifically, requiring all coal-fired EGUs to use PM CEMS “[a]fter considering updated information on the costs for quarterly performance testing compared to the costs of PM CEMS and on the measurement capabilities of PM CEMS, as well as other benefits of using PM CEMS, which include increased transparency and accelerated identification of anomalous emissions.”⁶³ According to EPA, PM CEMS data “supply real-time, quality-assured feedback that can lead to

⁶⁰ See *e.g.*, *id.* at 36,664.

⁶¹ See 77 Fed. Reg. at 9407; 42 U.S.C. § 7412(i)(3)(B).

⁶² See 40 C.F.R. § 63.10011(b).

⁶³ See 88 Fed. Reg. at 24,857.

improved control device and power plant operation, which, in turn, can lead to fPM emission reductions.”⁶⁴

The Group disagrees with EPA’s conclusions and strongly believes that sound engineering approaches using control device operating parameters achieve the same ultimate objective of fPM emission reductions. It is unclear how adding another measurement system, particularly given the challenges with PM CEMS as described below, would be cost-effective. The Group urges EPA to retain the option for quarterly stack testing (without any changes to testing frequency) and the CPMS option for all coal-fired EGUs.

1. Challenges with PM CEMS

EPA should retain the quarterly stack testing and PM CPMS options — particularly if the Agency intends to finalize the proposed 0.010 lb/MMBtu fPM emission limit — to afford entities flexibility in demonstrating compliance with the more stringent limit. Currently, two-thirds of existing EGUs have chosen to demonstrate compliance via the quarterly stack testing approach, and EPA should continue to retain that option in light of the difficulties with using PM CEMS. EPA justifies the proposed requirement to use PM CEMS based on cost, but the Agency understates the costs of PM CEMS and significantly overstates stack testing costs.⁶⁵ The costs associated with installing, maintaining, and operating a PM CEMS may far outweigh the costs of demonstrating compliance through stack testing for some EGUs, as discussed below.

In addition, use of PM CEMS may not be appropriate for all coal-fired units. Some Group members have used PM CEMS for many years, or attempted to do so, and have encountered problems with operating their PM CEMS with regards to (i) meeting the Quality Assurance-Quality Control (“QA-QC”) criteria required under Procedure 2; and (ii) establishing the correlation curve using Performance Specification 11 (“PS-11”). For some Group members, stack design limits the siting choices for PM CEMS — for instance, when equipment cannot be attached to a brick chimney but must be mounted to a structural shell. The annulus space between the chimney and shell, if not usable, presents a very large obstacle when trying to install a PM CEMS.

First, when a PM CEMS fails to meet the QA-QC criteria required under Procedure 2, the collected data are considered out-of-control and are no longer considered valid.⁶⁶ Because the measured emissions values are dependent upon laboratory analysis, an owner/operator has no real time indication that its EGU might have failed the required QA-QC criteria until several weeks after the testing has been completed. This could result in hundreds of hours of monitor downtime being created retroactively after the QA-QC criteria failure has been identified. Monitor downtime is required to be reported as a deviation under the MATS rule, and most states have minimum data availability requirements that could result in enforcement actions. At the more stringent fPM standard of 0.010 lb/MMBtu (or 0.006 lb/MMBtu), the likelihood of out-of-control periods increases. This downtime is not reflective of poor maintenance or operation but rather the difficulties associated with the quality assurance procedure at such low emission levels. Thus, in conjunction with this rulemaking, EPA should include additional provisions in Appendix C of 40

⁶⁴ *Id.* at 24,872.

⁶⁵ *See id.* at 24,857.

⁶⁶ *See* Appendix F, 40 C.F.R. Part 60, Procedure 2.

C.F.R. Part 63, Subpart UUUUU to mitigate the effects of this downtime, such as provisional data periods following a failed RRA or RCA. Moreover, there currently is no calibration procedure available that can accurately verify continuous measurements of fPM at levels as low as 0.010 lb/MMBtu, much less 0.006 lb/MMBtu.⁶⁷

EPA attempts to address these issues by proposing to amend Table 2 of 40 C.F.R. Part 63 Subpart UUUUU to require sample volumes of at least 4 dscm per run, rather than at least 1 dscm per run.⁶⁸ While the additional sample volume will reduce measurement uncertainty, it does not address the operating variability that needs to occur during correlation testing to achieve the distinct PM test conditions required under PS-11 and Procedure 2. In addition, when developing the initial correlation curve or conducting ongoing RCAs, emissions controls are de-tuned to simulate upset conditions and to achieve dust loadings at mid- (25-75% of the maximum expected concentration) and high- (50-100% of the maximum expected concentrations) levels.⁶⁹ For units equipped with WFGD systems, expanding the test runs to collect 4 dscm of sample volume significantly increases the flyash carryover to the scrubber.⁷⁰ This off-spec material is then required to be landfilled instead of beneficially reused. Furthermore, it can take days to weeks for the scrubber chemistry to again reach optimal, steady-state conditions; and maintaining optimal scrubber chemistry is needed to ensure effective removal of Hg emissions. The increased particulate loading will physically impact the equipment and degrade the scrubber's performance, such as: scaling inside the scrubber vessel; plugging spray headers; causing buildup on mist eliminators; and eroding booster and induced draft ("ID") fan blades and absorber recirculating pumps.

Second, PM CEMS require the use of PS-11 to establish a correlation curve.⁷¹ For the PS-11 PM CEMS correlation test, a minimum of 15 sets of reference method testing must be conducted that are evenly spaced over three different levels of PM mass concentration by varying process operating conditions, by varying PM control device conditions, or by means of PM spiking.⁷² If it is not possible to obtain three distinct levels of PM concentration, zero point testing may be used to perform correlation testing over the maximum range of PM concentration that is practical for the PM CEMS.⁷³ Each run requires roughly three to four hours, and most sources conduct 18 to 20 test runs for a robust correlation.⁷⁴ Barring unpredictable circumstances, based

⁶⁷ See Nicklin, D. et. al., "Techniques to measure particulate matter emissions from stationary sources: A critical technology review using Multi Criteria Decision Analysis (MCDA)," *Journal of Environmental Management*, 296:18-20 (2021).

⁶⁸ See MATS RTR Rule Text Redline Strikeout document (final) ("Redline Final"), posted on Apr. 25, 2023, at PDF p. 86, 89, 91, 96, 98, Doc. ID. EPA-HQ-OAR-2018-0794-5831. See also 88 Fed. Reg. at 24,873-74.

⁶⁹ Trying to simulate different ranges of particulates created for test activities often has unintended consequences on an FGD's performance that can take days to normalize and clean up so that the equipment resumes performing as designed. Any additional ash carryover into the FGD increases the opportunity to blind the FGD such that the only recovery is to shut the unit down to add lime or to dump the ash into a storage tank because the material can no longer be stored in the onsite landfill as the chloride content of the sludge, at that point, has become too high. According to at least one member with closed-loop FGDs (without chloride or particulate blowdown capability), detuning did in fact cause the equipment to have long-term operational problems.

⁷⁰ Ash reinjection may be not feasible for some sources due to stratification issues or ash drop-out effects.

⁷¹ See Appendix B, 40 C.F.R. Part 60, Performance Specification 11.

⁷² See *id.*

⁷³ See *id.*

⁷⁴ See *id.*

on the proposed sampling time, PS-11 could require seven to ten days to complete. Additional time likely would be needed to maintain the distinct PM test conditions that are required. Sources also would require accurate, preliminary test results to evaluate each test condition and might even need to obtain final results before concluding the test program, which would further extend the length and cost of the tests. Procedure 2 correlation testing also would be required for existing PM CEMS to ensure the data would fall within +/- 25% of a 0.010 lb/MMBtu limit. The current PM CEMS technology has difficulties monitoring at low emission levels, which could result in the need to conduct annual PS-11 correlation testing to ensure data remained valid. These activities increase the cost of MATS compliance and overall EGU operation, as well as disrupt the normal operation of the EGU.

According to Group members, installation of a PM CEMS at a single unit — including site preparation and engineering activities, analyzer equipment and installation cost, and initial PS-11 correlation testing — is estimated to range from \$180,000 to over \$400,000 (depending on vendor and brand). Ongoing PM CEMS correlation testing with injection of media in the effluent to artificially raise emission levels costs at least \$250,000 per test evolution at one source, and testing is required by MATS once every three years. For some EGUs, annual costs associated with a PM CEMS are estimated to range from \$92,900 to over \$154,600, whereas annual costs associated with stack testing are estimated to range from \$24,000 to \$32,000. Thus, EPA may have significantly underestimated annual costs associated with a PM CEMS (from \$18,111 to \$95,397 depending on type) and overestimated annual costs associated with stack testing (\$85,127), particularly when specific control configurations are taken into account.⁷⁵

More importantly, EPA has failed to show how correlations can be developed on data sets where, following PS-11 requirements, the upper end of the emissions testing would be capped at 0.010 lb/MMBtu. Emissions levels are supposed to be evenly distributed between the low, mid, and high PM emission levels. Even when allowing for a low-emitting unit to use a zero point in the correlation, a correlation still needs data variation to be a valid regression model. By limiting the dataset — pursuant to the proposed 0.010 lb/MMBtu fPM limit — EPA needs to establish that the PS-11 correlation would still be valid at such low levels.

2. Challenges with PM CEMS for EGUs that Co-fire

EPA should consider that use of PM CEMS may not be appropriate for EGUs that co-fire coal with another fuel, such as biomass, and units that frequently co-fire fuel oil and coal during startup. PM CEMS costs for such units would be significantly higher because multiple PS-11 correlation curves could be required. Similarly, ongoing QA testing according to Procedure 2 would result in higher costs as additional testing might need to be conducted under different fuel conditions. Until EPA performs additional research to investigate if co-firing results in accurate CEMS measurements, EPA should not enforce the proposed 0.010 lb/MMBtu fPM limit on units during co-firing periods. These periods are likely to increase in frequency as renewables are further integrated into the grid, which would further complicate compliance with the proposed limit.

⁷⁵ 88 Fed. Reg. 24,872-73.

Should EPA finalize its proposal to eliminate the stack testing and CPMS options, the Group requests that EPA provide reasonable exemptions, including: (i) allowing coal-fired units that co-fire other fuels the option to continue to use the quarterly stack-testing and CPMS options; and (ii) exempting units from the requirement to use a PM CEMS if they have an fPM control technology and documented Compliance Assurance Monitoring in place. In addition, EPA should allow the option to demonstrate fPM emissions compliance during periods of PM CEMS monitor downtime via stack testing, similar to Part 75 requirements, to provide EGUs the opportunity to avoid reporting PM CEMS downtime as a deviation.

3. Challenges with PM CEMS for IGCC EGUs

EPA is proposing to retain the emission standards for IGCC EGUs, as “there are only two IGCC EGU facilities, and the EPA is unaware of any development in the HAP emission controls used at IGCC units.”⁷⁶ However, EPA, is proposing to require IGCC EGUs to install a PM CEMS to demonstrate compliance with the existing fPM limit.⁷⁷

The Group urges EPA to retain the 36-month PM stack testing established under the LEE program, quarterly stack testing and CPMS options for IGCC EGUs. IGCC units are not built to accommodate a CEMS, which requires considerable space to install on the stack. Most scrubbed stacks have an annulus space that offers some protection from ambient temperature swings and exposure to the elements. At an IGCC facility, the stack configuration is more akin to that of a combustion turbine, where there is only an elevated grating that is exposed to the elements available for the possible installation of a PM CEMS. Exposure to the elements, particularly in an area with large seasonal fluctuations, would impact the sensitivity and accuracy of the CEMS. The instrument also must be located near the sampling point as transport through an umbilical to the CEMS shelter would affect the resulting measurement.

Additionally, there are no PM control devices at an IGCC unit available for de-tuning, which is required for conducting PS-11 to establish the correlation curve. While particulate spiking is an emerging technology, it requires collecting PM from the actual source and reinjecting the material into the flue gas stream. However, there are no points in the IGCC process where PM could be collected. Without using site-specific PM for spiking, the correlation developed for an optical PM CEMS instrument would not yield a valid correlation for the source. Furthermore, an IGCC is not equipped with an ID fan, which would typically be used to ensure good dispersion of the PM across the duct area. Thus, certification of the PM CEMS on an IGCC is technologically infeasible, and stack testing continues to be the most appropriate means to accurately measure fPM emissions from such units.

D. EPA Should Retain the Total and Individual Non-Hg Metals Emission Limits.

EPA is proposing to remove the total and individual non-Hg metals emissions limits from MATS as “almost all regulated sources have chosen to demonstrate compliance with the non-Hg HAP metal standards by demonstrating compliance with the surrogate fPM standard and because

⁷⁶ *Id.* at 24,885.

⁷⁷ *Id.*

of the benefits of PM CEMS use for demonstrating compliance.”⁷⁸ The individual and total non-Hg HAP metal standards directly control the amount of HAPs emitted from EGUs — the purpose of MATS — and EPA’s proposed justification for eliminating the standards fails to address why such action is appropriate, particularly considering that there are still regulated sources using the direct individual and total non-Hg HAP metal standards to demonstrate compliance. Eliminating the standards would unfairly impose a costly burden on a very small number of sources merely for the arguable benefit of requiring them to use PM CEMS for compliance.

EPA should retain the individual and total non-Hg HAP metal standards, as they directly regulate the pollutants at issue under Section 112 of the CAA. Retaining the option for compliance with such standards provides compliance flexibility not only to those EGUs that currently comply with those standards, but also to EGUs that currently elect to comply with the fPM standard but that might find it more advantageous and cost-effective to comply with the total or individual non-Hg metals emission standards if EPA finalizes its proposal to tighten the fPM limit. There are unresolved challenges with using PM CEMS, as explained in Section II.C.1, making such monitoring highly impractical for some EGUs.

E. EPA should not eliminate the LEE option for fPM and non-mercury HAP metals.

For non-Hg metals, a unit currently meets the LEE requirements if its emissions are less than 50 percent of the standard.⁷⁹ EPA is proposing to remove the LEE option for fPM and non-mercury HAP metals because requiring PM CEMS would render the current stack testing compliance method for the LEE program “superfluous.”⁸⁰

If EPA establishes the final fPM standard at 0.010 lb/MMBtu, EPA should nonetheless retain the LEE option and allow LEE to continue demonstrating compliance through stack testing (without any changes to the current test frequency). Stack testing via the three-year cycle after meeting the LEE limit is much less costly than quarterly testing. Thus, units that currently rely on the LEE provisions would face an exponential increase in monitoring costs associated with installing, implementing, and using PM CEMS, including employing additional technicians to operate the equipment. The cost of requiring PM CEMS for LEE is excessive in light of their low fPM emissions, particularly given that EPA has not justified why the LEE option is an insufficient mechanism to maintain compliance with the fPM limit. Many of these costs ultimately would fall on the ratepayers and likely would increase electricity bills for consumers. Further, sources that have qualified for LEE status because of good performance should not be penalized by incurring additional costs, maintenance, and issues that PM CEMS technology would introduce.

If EPA finalizes its proposal to tighten the fPM standard to 0.010 lb/MMBtu, the Agency should not only retain the LEE provision but also should amend 40 C.F.R. § 63.10005(h)(i) to allow units to be considered LEE if they demonstrate that they can meet a standard of 0.006 lb/MMBtu or less, rather than less than 50 percent of the standard. LEE provides important

⁷⁸ *Id.* at 24,857.

⁷⁹ *See* 40 C.F.R. § 63.10005(h)(i).

⁸⁰ 88 Fed. Reg. at 24,857.

compliance flexibility. Under this amended LEE definition, 198 EGUs purportedly would qualify based on EPA’s fPM evaluation.⁸¹

F. EPA Should Reevaluate the Data for Lignite-Fired EGUs.

Lignite-fired EGUs currently must meet an Hg emission standard of 4.0 lb/TBtu or an alternative standard of 0.04 lb/GWh.⁸² EPA is proposing that lignite-fired EGUs meet the same Hg emission standard as EGUs firing other types of coal (*e.g.*, bituminous, subbituminous), which is 1.2 lb/TBtu or an alternative standard of 0.013 lb/GWh.⁸³ EPA’s proposal is based on its review of current Hg emission levels and controls for lignite-fired EGUs from information provided to the Agency routinely and via CAA Section 114 responses, as well as information from the U.S. Energy Information Administration.⁸⁴ According to EPA, its review of such information “showed developments that demonstrate that lignite-fired EGUs can achieve a Hg emission rate that is much lower than the current standard, and that there are cost-effective control technologies and methods of operation that are available to achieve a more stringent standard.”⁸⁵

The Group is concerned that EPA is proposing a substantial reduction in the Hg emission standard based on inaccurate data and a flawed evaluation of the Hg control capabilities of lignite-fired EGUs. First, EPA’s Section 114 request was very limited considering the amount of data available and, in many cases, EPA disregarded the very information that was submitted in the responses. Certain units burning large percentages of subbituminous coal have transitioned or are in the process of transitioning to the non-lignite subcategory, and such units should have been removed from EPA’s evaluation. Specifically, EPA’s evaluation — encompassing a review of 22 EGUs “that were designed to burn lignite utilized refined coal to some extent in 2021”⁸⁶ — contains major flaws, as summarized below:

- The majority of these EGUs do not primarily burn all lignite coal.⁸⁷
 - As denoted in Table 10 of the Technical Memo, the evaluation of 22 EGUs includes only four EGUs that burn 99.7 percent or more lignite coal, with the other 18 EGUs burning only 37.6 percent or less lignite coal.⁸⁸
 - EPA treats EGUs burning “refined coal” as burning “refined lignite.” EPA also treats EGUs burning subbituminous coal as burning lignite coal, including them in its evaluation of “lignite-fired EGUs.”⁸⁹ The Agency justifies that treatment by grouping subbituminous and lignite coals together to show how, compared to bituminous coal, they: (i) tend to have “lower halogen content;” (ii) tend to

⁸¹ See Technical Memo at PDF p. 2, 4. (EPA evaluated fPM rates from 275 EGUs and determined that 72 percent of the EGUs are attaining fPM emissions below 0.006 lb/MMBtu).

⁸² See Table 1, Emission Limits for New or Reconstructed EGUs, 40 C.F.R. Part 63, Subpart UUUUU.

⁸³ 88 Fed. Reg. at 24,857.

⁸⁴ *Id.*; see also Technical Memo at PDF p. 13-18.

⁸⁵ 88 Fed. Reg. at 24,857.

⁸⁶ Technical Memo at PDF p. 18.

⁸⁷ See *id.*

⁸⁸ See *id.*

⁸⁹ See *id.*

form elemental mercury that is “more challenging to control” and (iii) tend to produce ash that is “more alkaline due to the lower amounts of sulfur and halogen.”⁹⁰ But comparing subbituminous and lignite coals together against bituminous coal is not a proper comparison for determining whether subbituminous coals and lignite coals are similar to each other. Although both generally may share some advantages and disadvantages as compared to bituminous coals, subbituminous and lignite coals remain very different from each other on attributes that significantly affect mercury control.

- As a result of EPA’s treatment above, seven EGUs are considered “lignite-fired EGUs” even though they use zero percent lignite coal.⁹¹ This also includes at least one EGU that co-fires natural gas, which influences the Hg lb/TBtu values submitted.⁹²
- It is unclear whether the Hg emissions that the Agency reviewed for the 22 EGUs were from units operating at full or partial load.
- Rather than using actual sampled data of lignite Hg concentrations that had been provided in the Section 114 responses, EPA used Integrated Planning Model (“IPM”) data to assign inlet Hg concentrations to various lignite-fired EGUs.

As to the last point above, by using IPM data, EPA underestimated the Hg content of lignite coal. In some instances, the Hg concentration of the actual fuel burned is twice as much as the value that EPA assumed is the maximum concentration. The Group strongly requests that EPA reevaluate the inlet Hg content of lignite fuels using actual data provided in the Section 114 responses.

EPA also overlooked key factors associated with lignite fuel. In asserting that the proposed 1.2 lb/TBtu limit could be achieved with additional activated carbon injection, EPA failed to account for the impacts of the higher sulfur content of lignite coal as compared to subbituminous coal, and that such higher sulfur content leads to additional SO₃, which is known to negatively impact the effectiveness of activated carbon.⁹³

The Group requests that EPA reassess its evaluation to correct flaws in its analysis for the lignite-fired EGU subcategory, as the Agency’s proposal to tighten the Hg emissions standard for such units is unsupported by actual data.

⁹⁰ 88 Fed. Reg. 24,875.

⁹¹ See *id.* at 24,877 (listing Coal Creek 1, Coal Creek 2, Spiritwood 1, Limestone 1, Limestone 2, Red Hills Generating Facility 1, and Red Hills Generating Facility 2 as using 0.0% lignite coal).

⁹² See *id.* (including Spiritwood Station 1, which fires 35.6% natural gas and 64.4% “refined coal” and does not use lignite or subbituminous coal).

⁹³ See *e.g.*, Sjostrom, et. al. “Influence of SO₃ on mercury removal with activated carbon: Full-scale results,” *Fuel Processing Technology*, Vol. 90, Issue 11, 1419 (Aug. 19, 2009); SO₃’s impacts on plant O&M: Part I, POWER (Oct. 15, 2006), <https://www.powermag.com/so3s-impacts-on-plant-om-part-i/>.

G. EPA Should Retain the Four-Hour Option for Defining the Startup Period.

EGUs are currently allowed to choose between two definitions of “startup” for purposes of MATS compliance. Specifically, startup ends either (i) when any of the steam from a boiler is used to generate electricity for sale to the grid or for any other purpose; or (ii) four hours after the EGU generates electricity that is sold or used for any other purpose or four hours after the EGU makes thermal energy for industrial, commercial, or cooling purposes, whichever is earlier.⁹⁴ EPA is proposing to eliminate the latter definition as it is “currently being used by fewer than 10 EGUs.”⁹⁵

The Group urges EPA to continue to allow use of the four-hour startup definition. EPA’s determination that only eight EGUs are currently using that option is insufficient justification for eliminating the definition.⁹⁶ Given that the Proposal does not speak to any supposed flaws with the definition, EPA should explain why elimination of the four-hour definition from MATS is appropriate when there are units currently relying on it.

Should EPA finalize its proposal to remove the four-hour startup definition, EPA should consider providing reasonable exemptions for the EGUs that currently use that definition, thus gradually phasing out the definition without imposing any additional compliance burdens. EPA also should take into account that a few Group members are currently required to use the four-hour startup definition per federal consent decrees or state agreements.⁹⁷ At the very least, such a scenario provides clear justification for a limited exemption, as MATS compliance should not result in an EGU violating its consent decree.

H. The Group Requests that EPA Publish the Proposed Regulatory Text in the Federal Register.

EPA failed to publish the proposed regulatory text in the *Federal Register* notice for the Proposal. Nowhere in the *Federal Register* notice did EPA even mention the proposed regulatory text, much less note that it was available in the docket. Locating the proposed regulatory text was exceedingly difficult because (i) the docket contains nearly 570 documents (559 of which are in the Supporting and Related Materials category, as of June 23, 2023); (ii) the proposed regulatory text document is misleadingly titled, “MATS RTR Rule Text Redline Strikeout document,”⁹⁸ and thus would not appear among the search results if searching via keywords “regulatory text”; and (iii) even a search of “redline” pulls up 45 documents that must be reviewed to determine whether they contain the final version of the redlined regulatory text.

By posting the proposed regulatory text as a separate document, EPA runs the risk not only of interested stakeholders failing to find it in the docket but also of creating discrepancies between

⁹⁴ See 40 C.F.R. § 63.10042.

⁹⁵ 88 Fed. Reg. at 24,885.

⁹⁶ See *id.* (identifying 14 EGUs that chose to use the four-hour startup definition, six of which have retired).

⁹⁷ Table 9 of the Proposal states that Sherburne County Generating Plant Unit 3 (“Unit 3”) retires in 2024. Pursuant to an agreement with the state, Unit 3 will be retired no later than December 31, 2030. See *id.*

⁹⁸ See MATS RTR Rule Text Redline Strikeout document (“Redline”), posted on Apr. 24, 2023, Doc. ID. EPA-HQ-OAR-2018-0794-5780; Redline Final.

the description of the proposal in the *Federal Register* and the proposed regulatory text itself. For instance, as to the LEE option for fPM, total non-Hg metals, and individual HAP metals, the *Federal Register* notice indicates that the option will be removed “no later than 3 years after the promulgation date”; however, the proposed regulatory text (final version) indicates that the option will be available up to 3 years after the effective date of the final rule.⁹⁹ Such discrepancies prevent interested members of the public, potentially affected EGUs, and other stakeholders from receiving adequate notice of EPA’s proposed action and impair their ability to provide informed comments. EPA also runs the risk of running afoul of its statutory duty under the Administrative Procedure Act (“APA”) to provide the public with adequate notice, particularly if the description of the proposal in the *Federal Register* notice fails to accurately capture “either the terms or substance of the proposed rule or description of the subjects and issues involved.” To ensure that the public is afforded a meaningful opportunity to comment on proposed rules, the minimum 60-day comment period should not run until the public has received fair and adequate notice of the regulatory language, which is best accomplished by publishing the proposed regulatory text in the *Federal Register*.¹⁰⁰

The Group thus requests that EPA publish the proposed regulatory text with the Proposal in the *Federal Register*. Furthermore, the Group requests that, for future rulemakings, EPA return to its longstanding practice of including the proposed regulatory text in the *Federal Register* notice for a proposed rule.¹⁰¹ Such practice would provide clarity around the proposed regulatory action and ensure that all members of the public have adequate notice and an opportunity to comment on the proposed regulatory language.

III. CONCLUSION

The Class of ’85 Regulatory Response Group appreciates the opportunity to submit comments on the Proposal. The proposed revisions could result in disproportionate and unintentional consequences at various EGUs by eliminating compliance flexibility under both MATS and the other recent rulemakings affecting the electric generating industry. Therefore, the Group asks EPA to consider the recommendations above to ensure that the costs associated with complying with the various revisions in the Proposal are proportional relative to their benefits and that such costs neither jeopardize maintenance of grid reliability nor hinder the transition to clean energy. Furthermore, the Group asks EPA to reissue the Proposal (along with the proposed regulatory text) addressing the issues identified and discussed in the comments above to provide stakeholders a meaningful opportunity to review an updated and corrected analysis. Revising the

⁹⁹ See 88 Fed. Reg. at 24,887; Redline Final at PDF p. 100.

¹⁰⁰ 5 U.S.C. § 553(b). As reflected in the Group’s request for an extension of the comment period for the Proposal, it is the Group’s position that the deadline for submitting comments should not be triggered until EPA has included the proposed regulatory text in the *Federal Register* notice. See Class of ’85 Regulatory Response Group’s Request for Extension of the Comment Period on the National Emissions Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units Review of the Residual Risk and Technology Review, Doc. ID. EPA-HQ-OAR-2018-0794-5876, at 2-3, submitted May 24, 2023 (denied on June 14, 2023).

¹⁰¹ Although the Group appreciates the opportunity to review a redline/strikeout that identifies the rule revisions, it is an inadequate substitute for a *Federal Register* notice that includes the new regulatory language and not merely a description of it.

Proposal and reissuing it with the proposed regulatory text would ensure that the final rule is not arbitrary and capricious and is a logical outgrowth of the Proposal.

Dated: June 23, 2023

Respectfully submitted,

The Class of '85 Regulatory Response Group
contact@class-of-85.com

ATTACHMENT A

AES Corporation
Alliant Energy Corporation
Ameren
Arizona Public Service
Arizona Electric Power Cooperative, Inc.
Arkansas Electric Cooperative Corporation
Basin Electric Power Cooperative
City of Tallahassee
Cleco Corporation
Cogentrix Energy Power Management, LLC
Dairyland Power Cooperative
Dayton Power & Light Company
Dominion Energy
Duke Energy
Entergy Services, LLC
Evergy, Inc.
Florida Municipal Electric Association
Florida Power & Light Company
Gainesville Regional Utilities
Great River Energy
Hawaiian Electric Company, Inc.
Indianapolis Power & Light Company
JEA
Lakeland Electric
Louisville Gas & Electric/Kentucky Utilities
Luminant Generation Company LLC
Minnesota Power
NextEra Energy, Inc.
NRG Energy
Oak Grove Management Company, LLC
OGE Energy Corp.
Orlando Utilities Commission
Portland General Electric
PowerSouth Energy Cooperative
Public Service Company of New Mexico
Rainbow Energy Center, LLC
Salt River Project
Southern Company
Tampa Electric Company
Tucson Electric Power Company
Western Farmers Electric Cooperative
Xcel Energy Inc.

ATTACHMENT B

The table below identifies issues that Group members have noticed in their review of the unit-specific data that EPA used for its fPM evaluation.

Company	Issues Identified
Entergy	<ul style="list-style-type: none"> • No 2017 data were identified in the docket for any of Entergy’s five units. • Only Q3 2019 data were identified in the docket for each of Entergy’s five units. • Q1 2021 data were identified in the docket for one unit (White Bluff Unit 1). • Q3 2021 data were identified in the docket for two units (Independence Unit 1 and Nelson Unit 6). • Evaluation included data for White Bluff Units 1 and 2, but both units are subject to a federally enforceable requirement to cease coal combustion by no later than December 31, 2028.
LGE-KU	<ul style="list-style-type: none"> • Used only last 30-day rolling average of PM CEMS data for one quarter in two years (<i>e.g.</i>, the 30-day rolling averages for June 30, 2017 and September 30, 2019). In contrast, for data in 2021, the average of the 30-day rolling averages of PM CEMS data for only two of nine affected units (Mill Creek Unit 4 and Ghent Unit 4) for two quarters in 2021 were used in EPA’s analysis (<i>e.g.</i>, average of data from first quarter 2021 and average of data from third quarter 2021).
OGE	<ul style="list-style-type: none"> • Highest emitting unit (Muskogee Unit 6) was not included in the 2021 data set.

Duke Energy Kentucky
Case No. 2024-00197
SIERRA First Set Post Hearing Data Requests
Date Received: December 20, 2024

SIERRA-PHDR-01-006

REQUEST:

Would proceeding with Duke’s Limestone Conversion Project be economically rational if Duke were to convert East Bend to gas by 2030? Produce any modeling or other quantitative information that supports your answer.

RESPONSE:

The Company has not generated any modeling to assess whether the Limestone Conversion Project would be economical if the Company were to convert East Bend to gas by 2030. While the Company still believes that Natural Gas Conversion of East Bend is not in the best of customers, if the Company were to proceed with Natural Gas Conversion the Limestone Conversion Project could still be economical for a few reasons. First, the Company would still need to invest in a MATS project that would not be required if the Company moved forward with the Limestone Conversion Project. Second, the Company may still need to “must-run” East Bend during winter months while operating on 100% coal. In that case, the Company would be required to operate the unit using the more expensive Quicklime product. Finally, when the unit is not in “must-run” mode, East Bend would likely not dispatch into the market because of the expensive nature of Quicklime, thereby creating significant market exposure risk for the Company’s customers.

PERSON RESPONSIBLE: Matthew Kalemba

**Duke Energy Kentucky
Case No. 2024-00197
SIERRA First Set Post Hearing Data Requests
Date Received: December 20, 2024**

SIERRA-PHDR-01-007

REQUEST:

Please confirm that if East Bend were to convert to natural gas or to co-firing of natural gas and coal, the unit would be dispatchable.

RESPONSE:

Confirm.

PERSON RESPONSIBLE: John Swez

Duke Energy Kentucky
Case No. 2024-00197
SIERRA First Set Post Hearing Data Requests
Date Received: December 20, 2024

SIERRA-PHDR-01-008

REQUEST:

Confirm that Duke has not asked any discovery questions of Sierra Club in this proceeding.

RESPONSE:

Objection. This request seeks information that is publicly available and known to the Sierra Club. The Commission's procedural schedule as Ordered is available at:

https://psc.ky.gov/pscscf/2024%20Cases/2024-00197//20240716_PSC_ORDER.pdf

As such, this request is interpreted as intending to harass. Without waiving said objection, and to the extent discoverable, confirmed, the procedural schedule in this case did not provide the Company the opportunity to ask discovery. The Company did submit discovery requests to the Sierra Club in Case No. 2024-00152 regarding the Sierra Club's position on the Company's Application for a Certificate of Public Convenience and Necessity for a conversion to a limestone-based reagent system.

PERSON RESPONSIBLE: Legal