

**STATE OF NEW MEXICO
ENVIRONMENTAL IMPROVEMENT BOARD**

IN THE MATTER OF PROPOSED NEW REGULATION,
20.2.101 NMAC – *Carbon Dioxide Emission Standards for*
Coal Fired Electric Generating Facilities

No. EIB 22-28 (R)

**NEW MEXICO ENVIRONMENT DEPARTMENT'S
NOTICE OF INTENT TO PRESENT REBUTTAL TECHNICAL TESTIMONY**

Pursuant to 20.1.1.302 NMAC and the *Amended Order of Hearing Determination, Hearing Officer Appointment, and Scheduling Pre-Filed Technical Testimony* issued by the Environmental Improvement Board on August 18, 2022, the New Mexico Environment Department (“Department” or “NMED”) submits this Notice of Intent to Present Rebuttal Technical Testimony for the hearing in this matter currently scheduled to begin on October 26, 2022.

1. Entity for whom the witnesses will testify

The witnesses will testify for the Air Quality Bureau of the Environmental Protection Division of the Department.

2. Identity of witnesses

The Department will call the following witnesses as a panel to present rebuttal and surrebuttal technical testimony at the hearing. Their combined rebuttal testimony is attached as NMED Exhibit 28.

Elizabeth Bisbey-Kuehn is the Bureau Chief of the Department’s Air Quality Bureau. Her resume is attached as NMED Exhibit 6.

Robert Spillers is an Environmental Scientist and Specialist-Advanced within the Department’s Air Quality Bureau. His resume is attached as NMED Exhibit 14.

Michael G. Baca is the Staff Manager for the Control Strategies Section within the Department's Air Quality Bureau. His resume is attached as NMED Exhibit 2.

3. Estimated duration of direct oral testimony of witnesses

Pursuant to the *Procedural Order* issued by the Hearing Officer on October 5, 2022, each witness will be limited to no more than 30 minutes to summarize their direct and rebuttal testimony at the hearing.

4. List of exhibits to be offered by the Department at the hearing

An updated list of exhibits that the Department intends to offer into evidence in this matter is attached to this Notice. The Department reserves the right to call any additional witnesses to provide surrebuttal testimony, and introduce and move for admission of any other exhibit in support of surrebuttal testimony, at the hearing in this matter.

Respectfully submitted,

**NEW MEXICO ENVIRONMENT DEPARTMENT
OFFICE OF GENERAL COUNSEL**

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NMED Rebuttal Exhibit List – EIB 22-28 (R)

| | |
|--------------------|--|
| NMED Exhibit 1 | Written Direct Testimony of Liz Bisbey-Kuehn |
| NMED Exhibit 2 | Resume of Liz Bisbey-Kuehn |
| NMED Exhibit 3 | Written Direct Testimony of Michael Baca |
| NMED Exhibit 4 | Resume of Michael Baca |
| NMED Exhibit 5 | Listserv Announcement for proposed Part 101 informal public comment period |
| NMED Exhibit 6 | Informal public comment draft of proposed Part 101 |
| NMED Exhibit 7 | Department PowerPoint Presentation at June 23, 2022 Public Meeting |
| NMED Exhibit 8 | Stakeholder Comments Submitted through the Department's Comment Portal |
| NMED Exhibit 9 | Proposed Part 20.2.101 NMAC – 09-14-2022 DRAFT |
| NMED Exhibit 10a-j | Public Notice of Proposed Rulemaking |
| NMED Exhibit 11 | Part 101 Flyer and Factsheet |
| NMED Exhibit 12a-e | Distribution of Part 101 Flyer and Factsheet to Stakeholders |
| NMED Exhibit 13 | Listserv Announcement for Public Stakeholder Engagement Event |
| NMED Exhibit 14 | Social Media Posts for Public Stakeholder Engagement Event |
| NMED Exhibit 15a-b | Public Stakeholder Engagement Sign-In Sheet and Virtual Registration List |
| NMED Exhibit 16 | Department Part 101 PowerPoint Presentation – September 1, 2022 Public Meeting |
| NMED Exhibit 17 | Written Direct Testimony of Robert Spillers |
| NMED Exhibit 18 | Resume of Robert Spillers |
| NMED Exhibit 19 | 40 CFR Part 72.2 – Acid Rain Program General Provisions |

| | |
|-----------------|---|
| NMED Exhibit 20 | 40 CFR Part 60 Subpart TTTT - Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units |
| NMED Exhibit 21 | Federal Register Notice - <i>Standards of Performance for Greenhouse Gas Emissions from New Stationary Sources: Electric Utility Generating Units – Proposed Rule</i> , 79 Fed. Reg. 1430 (January 8, 2014) |
| NMED Exhibit 22 | Federal Register Notice - <i>Carbon Pollution Standards for Modified and Reconstructed Stationary Sources: Electric Utility Generating Units</i> , 79 Fed. Reg. 34960 (June 18, 2014) |
| NMED Exhibit 23 | Federal Register Notice - <i>Standards of Performance for Greenhouse Gas Emissions from New Stationary Sources: Electric Utility Generating Units – Final Rule</i> at 80 Fed. Reg. 64510 (October 23, 2015) |
| NMED Exhibit 24 | 40 CFR Part 75 - Continuous Emission Monitoring |
| NMED Exhibit 25 | 40 CFR Part 98 - Greenhouse Gas Reporting |
| NMED Exhibit 26 | Part 101 – Subpart TTTT Cross Reference |
| NMED Exhibit 27 | Continuous Emissions Monitoring System Illustration |
| NMED Exhibit 28 | Rebuttal Testimony of Liz Bisbey-Kuehn, Robert Spillers, and Michael Baca |
| NMED Exhibit 29 | Proposed Part 20.2.101 NMAC – 10-12-2022 DRAFT |

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing *New Mexico Environment Department's Notice of Intent to Present Rebuttal Technical Testimony* was served via electronic mail to the following parties of record on October 12, 2022:

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**STATE OF NEW MEXICO
ENVIRONMENTAL IMPROVEMENT BOARD**

IN THE MATTER OF PROPOSED NEW REGULATION,
20.2.101 NMAC – *Carbon Dioxide Emission Standards for*
Coal-Fired Electric Generating Facilities

No. EIB 22-28 (R)

**REBUTTAL TESTIMONY OF
LIZ BISBEY-KUEHN, ROBERT SPILLERS, AND MICHAEL BACA**

1 This rebuttal testimony responds to the technical testimony and proposed revisions
2 submitted by Clean Air Advocates (“CAA”). In this rebuttal testimony, we will address
3 recommended language revisions proposed in the direct testimony of Bruce Buckheit (“Buckheit
4 Direct”) submitted on behalf of CAA. The Department’s recommended revisions to proposed
5 20.2.101 NMAC (“Part 101”) are discussed in detail below for each applicable section. All
6 revisions to Part 101 proposed by the Department as part of this rebuttal testimony are included
7 in NMED Exhibit 29 – Proposed Part 20.2.101 NMAC (October 12, 2022) – Redline.

8 As explained in the direct testimony of Robert Spillers (NMED Exhibit 17), the
9 Department developed the compliance monitoring, recordkeeping, and reporting provisions of
10 proposed Part 101 based on federal air quality regulations promulgated by the U.S.
11 Environmental Protection Agency (“EPA”) establishing carbon dioxide
12 (“CO₂”) emission standards at coal-fired power plants. The federal regulations include
13 continuous emission monitoring (“CEMS”) requirements found at 40 CFR Part 75 - *Continuous*
14 *Emission Monitoring* (“Part 75”) (NMED Exhibit 24); greenhouse gas reporting requirements
15 found at 40 CFR Part 98 - *Greenhouse Gas Reporting* (NMED Exhibit 25); and regulatory
16 language for electric generating units found at 40 CFR Part 60, Subpart TTTT – *Standards of*

1 *Performance for Greenhouse Gas Emissions for Electric Generating Units* (“Subpart TTTT”)
2 (NMED Exhibit 20).

3 The Department agrees with certain revisions proposed by CAA, and these revisions are
4 included in NMED Exhibit 29. The Department disagrees with certain revisions proposed by
5 CAA, as discussed in each applicable Section below. Lastly, the Department does not take a
6 position on CAA’s remaining proposed revisions, and notes as much in each applicable Section.
7 These remaining proposals, while not necessarily problematic from a technical or regulatory
8 perspective, go beyond the current federal regulatory framework and requirements for CO₂
9 emission standards at coal-fired power plants upon which the Department’s proposals are based.
10 As such, the Department believes it is the Board, as the policy-making body, that should make
11 the decision after hearing and considering the testimony and evidence presented by the experts
12 for the other parties.

13 During the stakeholder engagement process, the Department encouraged the other parties
14 in this rulemaking to discuss CAA’s proposals and endeavor to come to agreement where
15 possible. The Department intends to support any joint proposal offered by the other parties that
16 addresses and resolves whether the remaining revisions proposed by CAA should be
17 incorporated into Part 101.

18 **CAA’S PROPOSED REVISIONS TO PART 101**

19 **20.2.101.7 - Definitions**

20 Subsection D. “Electric generating facility” (“EGF”)

21 CAA proposes to revise the definition of EGF to expand the type of equipment listed to
22 include air pollution control devices and equipment used to separate, compress, and transport

CO₂ or other pollutants to an offsite location. The Department agrees with this proposal and recommends that the Board adopt the CAA's proposed definition.

Subsection E. – Definition of “Megawatt-Hour (MWh)”

CAA proposes to revise the definition of “Megawatt-Hour (MWh)” to strike the term “total gross energy output (P_{gross})” and insert the term “net generation.” This revision is part of CAA's broader request to base the emission standard on net generation rather than gross energy output, as proposed by the Department. The Department takes no position on this requested revision and recommends that the Board decide whether or not to revise this definition based on the testimony of the other parties.

On page 22 of Mr. Buckheit's testimony, he states that “[t]he statute does not require the rule to use gross energy output, and it is not appropriate to do so.” Mr. Buckheit is correct that the authorizing provision of the Air Quality Control Act at Section 74-2-5(B)(1)(b) does not specify any definition of Megawatt-Hour; in fact, the statute does not provide any guidance with respect to the use of gross energy output versus net generation.

The Department notes that the use of the term “net generation” in CAA's proposed definition does not align with Subpart TTTT, EPA's corresponding regulation for electric generating facilities, which relies upon total gross energy output for compliance determinations. During EPA's multi-year regulatory development process for Subpart TTTT, EPA conducted extensive stakeholder engagement which included requesting and responding to comments on applicable sections of the proposed regulation. EPA sought comments from stakeholders on the use of net output-based standards during the rulemaking on Subpart TTTT, and ultimately decided to base the emission standard on a gross energy output, as shown in NMED Exhibit 21,

p. 1447. EPA discusses their rationale for deciding to use gross energy output vs. net energy output in NMED Exhibit 23, p. 64535-36.

Subsection F. – Definition of “Operating Month”

CAA proposes to strike the term “operating month” and replace it with the term “operating day” to support CAA’s proposed new definition of rolling average and revisions to the emission standard itself, as discussed below. This proposed revision is part of CAA’s broader request to revise the emission standard to be based upon a 365-operating day rolling average basis instead of a 12-operating month rolling average basis, as proposed by the Department. The Department does not take a position on this requested revision and recommends that the Board decide whether to revise this definition based on the testimony of the other parties.

Subsection I. – Definition of “Rolling Average”

CAA proposes to add a new term “rolling average,” and a new definition of that term. This proposed term is part of CAA’s broader request to revise the emission standard to be based upon a 365-operating day rolling average basis instead of a 12-operating month rolling average basis, as proposed by the Department. The Department does not take a position on the requested new definition and recommends that the Board decide whether to adopt this definition based on the testimony of the other parties.

Mr. Buckheit explains his rationale for the new proposed definition as follows:

“Rolling average” means the weighted average of all data, meeting quality assurance and quality control requirements normalized pursuant to this Part, collected during the applicable averaging period. A 365-operating-day rolling average is calculated by adding the hourly mass emissions over the previous 365 operating days and dividing that sum by the hourly generation (MWh-net) during the same period. A 30-operating-day rolling average is calculated by adding the hourly mass emissions over the previous 30 operating days and dividing that sum by the hourly generation (MWh-net) during the same period.

1 Mr. Buckheit points out that the statute only specifies an emission standard, and does not provide
2 an averaging time required for the emission calculation. Mr. Buckheit goes on to state there is no
3 need for a short-term emission limit, as there is no demonstrated need for short term limits for
4 greenhouse gases (GHG). On page 17 of his testimony, Mr. Buckheit raises the concern that a
5 longer averaging period could allow an owner or operator to violate the emission standard
6 without having to perform a corrective action. In order to address this concern, Mr. Buckheit
7 proposes that the standard have a shorter averaging period, such that an owner or operator could
8 be made aware of violations and take corrective action addressing the violation in a more timely
9 manner.

10 The Department notes that this proposal is inconsistent with EPA's averaging period for
11 the CO₂ emission standard for coal-fired power plants subject to the requirements of Subpart
12 TTTT. During EPA's multi-year rulemaking process for Subpart TTTT, EPA requested
13 comments on the appropriateness of a 12-operating month rolling average for the emission
14 standard. *See* NMED Exhibit 21, p.1482. In the Federal Register notice for the proposed rule,
15 EPA included the following statement regarding the rationale for using this averaging period:

16 This 12-operating month period is important due to the inherent variability in
17 power plant GHG emissions rates. Establishing a shorter averaging period would
18 necessitate establishing a standard to account for the conditions that result in the
19 lowest efficiency and therefore the highest GHG emissions rate. EGU efficiency
20 has a significant impact on the source's GHG emission rate.

21
22 *See* NMED Exhibit 22, p. 34985. In the final regulation, EPA detailed the rationale for using a
23 12-operating month rolling average period, stating:

24 Commenters supported the use of a 12-operating-month rolling average for the
25 compliance period for the final standards. In response, this final rule specifies that
26 compliance with the 1,400 lb CO₂/MWh-g emission limit is determined on a 12-
27 operating-month rolling average basis, updated after each new operating month.
28 For each 12- operating-month compliance period, quality-assured data from the

certified Part 75 monitoring systems is used together with the gross output over that period of time to calculate the average CO₂ mass emissions rate.

See NMED Exhibit 23, p. 64625.

20.2.101.112 – Emission Standard

Emission Standard

CAA proposes to insert an additional zero at the end of the proposed CO₂ emission standard, effectively changing the emission standard from “1,100 pounds CO₂” to “1,100.0 pounds CO₂.”

The Department does not agree with this proposal, as it does not believe it is within the Board’s discretion to modify the statutory language of the emission standard established in Section 74-2-5(B)(1)(b). In addition, the Board’s air quality regulations at Part 20.2.1 NMAC already include provisions for significant figures for emission limits. Lastly, EPA notes that “[n]umerical values of 1,000 or greater have a minimum of 3 significant figures and numerical values of less than 1,000 have a minimum of 2 significant figures.” *See* NMED Exhibit 23, Subpart TTTT at p. 64658, Note - Table 1. Therefore, the current proposed emission standard aligns with the statutory language, the Board’s regulations, and EPA’s emission standard for similar sources, and should not be revised.

Emission Standard Averaging Period

CAA proposes to strike the term “12-month” and add the terms “365-” and “day” to Section 112. This requested revision is part of CAA’s broader proposal to revise the averaging period of the emission standard from a 12-operating month rolling average basis, to a 365-operating day rolling average basis. The Department does not take a position on this requested revision and recommends that the Board decide whether to revise this language based on the testimony of the other parties. As noted above, during EPA’s multi-year rulemaking process for

Subpart TTTT, EPA requested comments on the appropriateness of a 12-operating month rolling average for the emission standard. EPA ultimately retained the 12-operating month rolling average in the final regulation. *See* NMED Exhibit 21, p.1482.

New Calculation Requirement for Emission Standard

CAA proposes to insert a new requirement for owners and operators to quantify any CO₂ emissions exiting the facility via pipeline or other conveyance system to a CO₂ injection or sequestration facility, in order to determine compliance with the emission standard.

CAA proposes the following language as the second-to-last sentence in Section 20.2.101.112:

This calculation shall include all CO₂ entering the emission stack monitoring point, minus any CO₂ entering a permitted pipeline or other conveyance to a permitted CO₂ injection and sequestration facility. The emission stack monitoring point shall be located upstream of any CO₂ capture equipment at the site.

CAA is proposing that owners or operators determine compliance with the emission standard by (1) determining the CO₂ emissions entering the emission stack monitoring point, which is located upstream of any CO₂ capture equipment at the site, and (2) subtracting the quantity of CO₂ emissions entering the pipeline, injection, or sequestration facility. The proposed language identifies the points at a facility where CO₂ should be measured and provides a basis for accounting for fugitive emissions within the facility. This measurement configuration would allow for the calculation of the actual CO₂ emissions leaving the facility. The Department does not take a position on this requested revision and recommends that the Board decide whether to revise the standard based on the testimony of the other parties.

CAA proposes to insert the term “net” in the last sentence of Section 112. This proposal is part of CAA’s broader request to base the emission standard on net generation rather than gross energy output, as proposed by the Department. The Department does not take a position on this requested revision and recommends that the Board decide whether to add this term based on

1 the testimony of the other parties. The Department notes that the addition of this term does not
2 align with Subpart TTTT.

3 CAA proposes to strike the phrase “regardless of whether or how the electricity is used.”
4 This proposed deletion is part of CAA’s broader request to base the emission standard on net
5 generation rather than gross energy output. The Department does not take a position on this
6 requested revision and recommends that the Board decide whether to strike this language based
7 on the testimony of the other parties. The Department notes that the striking of this language
8 does not align with Subpart TTTT.

9 **20.2.101.113 MONITORING REQUIREMENTS**

10 Subsection A

11 CAA proposes to insert the statement “of this Section” in the first sentence of Subsection
12 A. The Department agrees with the additional proposed language and recommends that the
13 Board adopt the requested language.

14 CAA proposes to insert “upon written approval by the Department” in the second
15 sentence of Subsection A. The Department does not agree with this proposal, which would
16 require the Department review and approve an owner or operator’s monitoring plan in writing.

17 The Department’s proposed language in Subsection 20.2.101.113.A requires monitoring
18 plans to be prepared according to the requirements of Part 75 (EPA’s Continuous Emission
19 Monitoring regulations). Part 75 was developed by EPA to establish requirements for monitoring
20 and recordkeeping of air pollutants emitted from power plants in support of EPA’s Acid Rain
21 Program (“ARP”). The Part 75 regulations consist of eight subparts based on the purpose and
22 applicability of the regulations, requirements relevant to each pollutant, missing data procedures,
23 certification and recertification requirements, and recordkeeping and reporting policies. Part 75

also includes ten appendices that contain requirements for continuous emissions monitoring systems (“CEMS”) and data calculation guidelines based on pollutant and fuel type.

Part 75 establishes extensive requirements for compliance with the ARP, including continuous monitoring and reporting of sulfur dioxide (“SO₂”), CO₂, and nitrogen oxides (“NO_x”) emissions. Most owners and operators comply with this requirement through the use of CEMS which monitor the amount of pollution emitted from a smokestack (pollutant concentration) and the volume of exhaust gases (stack gas volumetric flow rate). Part 75 also specifies quality assurance and quality control tests to ensure the CEMS is operating properly.

The requirements under Part 75 already provide sufficient regulatory oversight of the monitoring, recordkeeping, and proper operation of CEMS. Additional review and approval of the monitoring plan would unnecessarily burden the Department’s limited staffing resources without corresponding environmental or regulatory benefits.

Subsection B – Paragraph (1)

CAA proposes to strike the final three sentences of Paragraph (1) of Subsection B of Section 113. Those sentences provide as follows:

As an alternative to direct measurement of the CO₂ concentration, provided that the affected EGU does not employ carbon separation (e.g., carbon capture and storage), owners or operators may use data from a certified oxygen (O₂) monitor to calculate the hourly average CO₂ concentration in accordance with 40 CFR Part 75.10(a)(3)(iii). If the CO₂ concentration is measured on a dry basis, owners or operators shall also install, certify, operate, maintain, and calibrate a continuous moisture monitoring system, in accordance with 40 CFR Part 75.11(b). Alternatively, owners or operators may either use an appropriate fuel-specific default moisture value from 40 CFR Part 75.11(b) or submit a petition to the Department for a site-specific default moisture value.

The Department proposed this rule language based on similar rule language in Subpart TTTT.

See NMED Exhibit 20. This rule language allows owners and operators to use an alternative

means to directly measure CO₂ concentrations at facilities that do not use carbon capture and sequestration.

The Department does not take a position on this requested revision and recommends that the Board decide whether to strike this language based on the testimony of the other parties. The Department notes that removing this language is inconsistent with Subpart TTTT, which provides this alternative regulatory requirement for sources not employing CCS.

Subsection B – Paragraph (2)

CAA proposes to add the following language to the first sentence of Subsection 20.2.101.113.B(2) requiring owners and operators to install a CEMS to monitor and record the CO₂ emissions leaving the facility:

Owners or operators shall install, certify, operate, maintain, and calibrate a CEMS to directly measure and record the hourly average CO₂ mass leaving the facility in a permitted pipeline or other conveyance to a permitted CO₂ injection facility.

This proposed language is part of CAA’s broader request to determine compliance with the emission standard by quantifying and subtracting the quantity of CO₂ emissions leaving the facility, as previously discussed.

The Department does not take a position on this requested revision and recommends that the Board decide whether to adopt this language based on the testimony of the other parties.

Subsection B – Paragraph (3)

CAA proposes to replace the term “unadjusted” with “adjusted” in the first sentence of Paragraph (3); strike the term “not” in the second sentence of Paragraph (3); and insert the statement “that fully reflect the documented bias in the CEM” in the second sentence of Paragraph (3).

Subpart TTTT specifically directs owners or operators *not* to apply bias adjustment factors in the identical requirement in the federal regulation. Bias is the systematic or persistent distortion of a measurement process which causes error in one direction. Bias is determined by estimating the positive and negative deviation from the true value as a percentage of the true value. As stated previously, the Department relied upon the requirements of Subpart TTTT to develop the monitoring requirements proposed in Part 101, and EPA does not require the use of bias for calculations used in determining compliance with Subpart TTTT. *See* NMED Exhibit 23, p. 64,624. As EPA explained when it proposed Subpart TTTT:

[Subpart TTTT] requires only those operating hours in which valid data are collected and recorded for all of the parameters in the CO₂ mass emission rate equation to be used for calculating compliance with applicable emission limits. Additionally, for EGUs using CO₂ CEMS, only unadjusted stack gas flow rate values should be used in the emissions calculations. In this rule, part 75 bias adjustment factors (BAFs) should not be applied to the flow rate data. These restrictions on the use of part 75 data for part 60 compliance are consistent with previous NSPS regulations and revisions.

As noted above, EPA directs owners or operators not to use bias adjustment factors for valid data and use only unadjusted stack flow rates.

The Department does not take a position on these requested revisions and recommends that the Board decide whether to revise the rule language based on the testimony of the other parties. The Department notes that CAA's proposed language does not align with the requirements established in Subpart TTTT.

Subsection B – Paragraph (4)

CAA proposes several significant revisions to Subsection 20.2.101.113.B(4), including the following: (1) requiring owners and operators to solicit the advice of staff from the National Institute of Standards and Technology ("NIST") regarding the most appropriate technologies for reference method testing to set up the flow monitor and perform ongoing RATA tests; (2) requiring submittal of all corresponding communication to the Department; (3) requiring owners

1 and operators to request approval from the Department of an alternative procedure or technology
2 if an owner or operator declines to follow the NIST staff recommendations; and (4) requiring
3 owners or operators to use a NIST traceable calibration of the pitot tube or pitot tube assembly.

4 The Department disagrees with these proposals.

5 CAA proposes to revise Subsection 20.2.101.113.B(4) as follows:

6 Owners or operators shall ~~solicit the advice of appropriate staff at the National Institute~~
7 ~~for Standards and Technology (NIST) as to the most accurate commercially available~~
8 ~~techniques and technologies for reference method testing~~ ~~select and appropriate reference~~
9 ~~method~~ to set up the flow monitor and perform the ongoing Relative Accuracy Test Audit
10 (RATA), in accordance with 40 CFR Part 75 and shall provide a copy of all
11 communications with NIST staff relating to stack flow monitoring to the Department. If
12 an owner or operator declines to follow the NIST staff recommendations, the owner or
13 operator shall request Department approval of alternate procedures and technologies. If
14 owners or operators use a Type-S pitot tube or a pitot tube assembly for the flow RATA,
15 owners or operators shall ~~calibrate~~ ~~arrange for NIST traceable calibration of~~ the pitot tube
16 or pitot tube assembly. Owners or operators may not use the 0.84 default Type-S pitot
17 tube coefficient specified in Method 2.

18
19 NIST is a physical sciences laboratory and non-regulatory agency of the U.S. Department
20 of Commerce. Its mission is to promote American innovation and industrial competitiveness, not
21 develop environmental regulatory requirements. EPA is the federal regulatory agency that
22 establishes requirements for the development and use of federal reference methods to determine
23 compliance with federal air quality standards. EPA has a formal process for developing, revising,
24 and updating new and existing federal reference methods and provides a process for regulated
25 owners or operators to propose an alternative testing method. The Department, along with all
26 other state air regulatory agencies, relies on EPA's technical and regulatory expertise in
27 reviewing and approving appropriate reference and testing methods for compliance with federal
28 air quality emission standards and permit requirements.

29 The requirement to consult NIST staff and arrange for NIST traceable calibration is
30 beyond the scope of this rulemaking, and the Department does not support prescriptive language

1 directing owners or operators to solicit outside advice regarding techniques or technologies for
2 CEMS or other measurement and data collection systems. The Department based the monitoring
3 requirements of Part 101 on identical federal requirements found in Part 75 for the Relative
4 Accuracy Test Audit. EPA worked extensively to develop these requirements that are currently
5 required for CEMS in the ARP. These are standardized published referenced methods that are
6 used throughout the country. While the use of an alternative method may provide more accurate
7 information, alternative methods that have not gone through EPA's rigorous formal review,
8 public comment, and approval process could lead to inconsistencies and unintended negative
9 consequences in the rule. For consistency and integrity of the Department's air program, it is
10 important for the Department to rely on the EPA-approved Reference Methods used throughout
11 their federal air quality regulations.

12 Subsection C

13 CAA proposes to strike the last four sentences of Subsection C, which read as follows:

14 For an affected EGU equipped with an integrated carbon capture system that
15 supplies steam to the carbon capture system, owners or operators shall install,
16 calibrate, maintain, and operate meters to continuously record the total useful
17 thermal output. The record of the thermal output shall be made on an hourly basis.
18 For process steam applications, owners or operators shall install, calibrate,
19 maintain, and operate meters to continuously record the steam flow rate,
20 temperature, and pressure. The records of each parameter shall be made on an
21 hourly basis.

22 The Department does not take a position on the proposal to remove this language and
23 recommends that the Board decide whether to adopt this revision based on the testimony of the
24 other parties. The Department notes that the language is based upon regulatory language in
25 Subpart TTTT.

26 Subsection E

CAA proposes to strike the term “gross energy output” and insert the term “net generation”; strike the terms “(electric, thermal and/or mechanical, as applicable)”; and strike the term “loads” and insert the term “net generation.” The proposed revisions are part of CAA’s broader request to base the emission standard on net generation rather than gross energy output, as proposed by the Department. The Department does not take a position on these requested revisions and recommends that the Board decide whether to revise the language based on the testimony of the other parties. The Department notes that the proposed revisions do not align with Subpart TTTT, as previously discussed.

Subsection G

CAA proposes to delete the entirety of Subsection 20.2.101.113.G and replace the language with a new requirement. Specifically, CAA proposes to strike the following language:

Operating hours in which CO₂ mass emission rates are calculated using maximum potential values are not “valid operating hours” (as defined in 40 CFR Part 60.5540(a)(1)) and shall not be used in the compliance determinations under 40 CFR Part 60.5540.

CAA proposes a new Subsection G requiring owners or operators to develop a Compliance Assurance Monitoring (“CAM”) plan, as follows:

The monitoring plan shall contain compliance assurance monitoring (CAM) provisions sufficient to ensure that the EGF does not violate the emission standard. At a minimum, the CAM plan shall require that the owner or operator of an affected EGF (1) provide notice to the Department if the owner or operator obtains credible information that indicates that the EGF may violate the emission standard in section 20.2.101.112 or if any 30-operating-day rolling average emission rate of CO₂ exceeds 1,100.0 lbs/MWh-net and (2) submit to the Department a corrective action plan if the 30-operating-day rolling average emission rate of CO₂ exceeds 1,100.0 lbs/MWh-net for two consecutive 30-operating-day periods. The owner or operator must submit the corrective action plan to the Department within 30 days of the affected EGF having two consecutive 30- operating-day periods in which the CO₂ emission rate exceeds 1,100.0 lbs/MWh-net. The owner or operator shall cease operation of the EGF on the next calendar day after the affected EGF has two consecutive 30-operating-day periods in which the CO₂ emission rate exceeds 1,100.0 lbs/MWh-net, and

1 shall not resume operations of the EGF until the public has had an opportunity to
2 comment on the proposed corrective action plan, the Department has approved the
3 corrective action plan, and the operator has implemented the corrective action
4 plan.

5
6 CAM is a federal air quality regulation codified at 40 C.F.R. Part 64 consisting of
7 specific regulatory requirements intended to provide a reasonable assurance of compliance with
8 applicable requirements under the Clean Air Act for large emission sources that rely on pollution
9 control devices to achieve compliance with an emission standard. Monitoring is conducted to
10 determine that pollution control devices, once installed or otherwise employed, are properly
11 operated and maintained so that they continue to achieve a level of control that complies with
12 applicable emission requirements. CAM establishes monitoring for the purpose of: (1)
13 documenting continued operation of the control devices within ranges of specified indicators of
14 performance (such as emissions, control device parameters, and process parameters) that are
15 designed to provide a reasonable assurance of compliance with applicable requirements; (2)
16 indicating any excursions from these ranges; and (3) responding to the data so that the cause or
17 causes of the excursions are corrected.

18 The CAM rule itself provides that a CEMS satisfies the requirements under 40 C.F.R.
19 Part 64. Specifically, Section 64.3(d)(1) states as follows:

20 If a continuous emission monitoring system (CEMS), continuous opacity
21 monitoring system (COMS) or predictive emission monitoring system (PEMS) is
22 required pursuant to other authority under the Act or state or local law, the owner
23 or operator shall use such system to satisfy the requirements of this part 40 CFR
24 64.

25 CAA also proposes additional requirements in Subsection G directing owners or
26 operators to notify the Department if they obtain credible information that indicates they *may*
27 violate the standard, or if they did violate the standard; a requirement to submit a corrective
28 action plan within 30 days if an EGF has two consecutive exceedances of the standard; and

1 requirements for owners or operators that record an exceedance of the 1,100 lb/Mw-h standard.
2 For the first exceedance, the owners or operators must provide notification to the Department
3 and the public. A second exceedance would require the facility to cease operations on the next
4 calendar day after the exceedance and not resume operations until a corrective action plan is put
5 out for public comment, approved by the Department, and implemented by the owner or
6 operator.

7 The requirement for the owner or operator to cease operations after two exceedances is
8 highly prescriptive and is not appropriate language for a rule. Much of what CAA contemplates
9 is already required under state regulation, with the exception of a mandatory shutdown.
10 Specifically, Part 20.2.7 NMAC – *Excess Emissions* (“Part 7”) would require an owner or
11 operator that exceeded the emission standard in Part 101 to submit a detailed report of the excess
12 emission within twenty-four (24) hours of its occurrence and a final, more comprehensive report
13 within ten (10) days of the event. Part 7 requires owners and operators conduct a thorough
14 evaluation of the cause of the excess emission, and identify the cause and nature of the excess
15 emission; the steps taken to limit the duration and magnitude of the excess emission; the
16 corrective action(s) taken to eliminate the cause of the excess emission; a schedule for
17 implementation of those actions; the corrective action(s) taken to prevent a recurrence of the
18 excess emission; and whether the owner or operator attributes the excess emission to
19 malfunction, startup or shutdown.

20 The requirement that the owner or operator shut down the facility until the public has had
21 an opportunity to comment on the proposed corrective action plan, the Department has approved
22 the corrective action plan, and the owner or operator has implemented the corrective action plan
23 is problematic. CAA does not propose how the corrective action plan would be made available to

1 the public, the timeline for comments, or how comments from the public would be incorporated
2 into the plan. CAA does not propose any timeline for the Department's review of the plan, or any
3 timelines under which the owner or operator must comply with its provisions. Thus, as written,
4 given the uncertainty of the above proposed requirements, the Department does not agree to the
5 proposed language.

6 The Department is authorized to enforce the provisions of the AQCA and the Board's
7 regulations issuing Administrative Compliance Orders or commencing civil actions in district
8 court against owners and operators that violate air quality regulations or permits. Taking action
9 through the NMED Air Quality Bureau's air enforcement program is the appropriate regulatory
10 mechanism to address actual violations of the emission standard in Part 101.

11 **20.2.101.114 – Recordkeeping Requirements**

12 Subsection B

13 CAA proposes to strike the term "monthly" and insert the term "daily"; strike the term
14 "month" and insert the term "day"; and strike the term "12 month" from the language in
15 Subsection B. These proposed revisions are part of CAA's broader proposal to modify the
16 averaging period of the emission standard from a 12-operating month rolling average to a 365-
17 operating day rolling average. The Department does not take a position on the requested
18 revisions and recommends that the Board decide whether to revise the language based on the
19 testimony of the other parties. As noted above, during EPA's multi-year rulemaking process for
20 Subpart TTTT, EPA requested comments on the appropriateness of a 12-operating month rolling
21 average for the emission standard. EPA ultimately retained the 12-operating month rolling
22 average in the final regulation. *See* NMED Exhibit 21, p. 1,482.

1 Subsection F

2 CAA proposes to increase the number of years that owners or operators are required to
3 retain records from three to ten years in Paragraph 2 of Subsection F, and from two to five years
4 for onsite records retention in Paragraph 3 of Subsection F. The Department agrees with these
5 proposed revisions to the recordkeeping requirements and recommends that the Board adopt the
6 proposed revisions.

7 CAA proposes to insert an additional recordkeeping requirement (4) in Subsection F, as
8 follows: "Owners or operators shall maintain records necessary to document the mass of CO₂
9 sent offsite for sequestration and the location of the sequestration site." This proposed language
10 requires owners or operators to record the calculation of the actual CO₂ emissions leaving the
11 facility and the location of the sequestration site. The Department does not take a position on this
12 requested revision and recommends that the Board decide whether to add this recordkeeping
13 requirement based on the testimony of the other parties.

14 **20.2.101.115 – Reporting Requirements**

15 Subsection A – Paragraph (1)

16 CAA proposes to strike the second sentence of Paragraph (1), which reads:

17 After owners or operators have accumulated the first 12 operating months for the
18 affected EGF, owners or operators shall submit a report for the calendar quarter
19 that includes the twelfth operating months no later than 30 days after the end of
20 that quarter.

21
22 CAA proposes to replace that sentence with the following:

23 The first quarterly report must be submitted to the Department on April 30, 2023.

24 The Department agrees in part with the requested revision. The Department has revised
25 Subsection 20.2.101.115.A(1) to require owners or operators to submit a quarterly report during
26 the first twelve months of operation, in addition to the requirement to submit a report for the

calendar quarter that includes the first twelve months of operation. This revision is reflected in NMED Exhibit 29.

Subparagraph (a) of Paragraph (2) of Subsection A

CAA proposes the following revisions to Subparagraph 20.2.101.115(A)(2)(a):

Except as provided in this Part, Owners or operators shall calculate each average CO2 mass emission rate for the compliance period according to the procedures in 40 CFR Part 60.5540.

The Department agrees to this proposed revision and recommends that the Board adopt it.

Subparagraph (e) of Paragraph (2) of Subsection A.

CAA proposes to strike Subparagraph 20.2.101.115(A)(2)(e) in its entirety. The proposed deletion is part of CAA's broader request to base the emission standard on net generation rather than gross energy output, as proposed by the Department. The Department does not take a position on this requested revision and recommends that the Board decide whether to strike this language based on the testimony of the other parties. The Department notes that the deletion of this language is inconsistent with Subpart TTTT, as previously discussed.

TITLE 20 ENVIRONMENTAL PROTECTION
CHAPTER 2 AIR QUALITY (STATEWIDE)
PART 101 CARBON DIOXIDE EMISSION STANDARDS FOR COAL-FIRED ELECTRIC GENERATING FACILITIES

20.2.101.1 ISSUING AGENCY: Environmental Improvement Board.
[20.2.101.1 NMAC – N, XX/XX/2022]

20.2.101.2 SCOPE: All geographic areas within the jurisdiction of the Environmental Improvement Board.
[20.2.101.2 NMAC – N, XX/XX/2022]

20.2.101.3 STATUTORY AUTHORITY: Environmental Improvement Act, Section 74-1-1 to 74-1-16 NMSA 1978, including specifically Paragraph (4) of Subsection A of Section 74-1-8 NMSA 1978, and Air Quality Control Act, Sections 74-2-1 to 74-2-22 NMSA 1978, including specifically Subparagraph (b) of Paragraph 1 of Subsection B of Section 74-2-5 NMSA 1978.
[20.2.101.3 NMAC - N, XX/XX/2022]

20.2.101.4 DURATION: Permanent.
[20.2.101.4 NMAC - N, XX/XX/2022]

20.2.101.5 EFFECTIVE DATE: January 1, 2023, except where a later date is specified in another section.
[20.2.101.5 NMAC - N, XX/XX/2022]

20.2.101.6 OBJECTIVE: The objective of this Part is to establish a carbon dioxide (CO₂) emission standard for coal-fired electric generating facilities with an original installed capacity exceeding three hundred megawatts.
[20.2.101.6 NMAC - N, XX/XX/2022]

20.2.101.7 DEFINITIONS: In addition to the terms defined in 20.2.2 NMAC (Definitions), as used in this Part:

A. “Affected Electric Generating Facility or Affected EGF” means a new or existing electric generating facility with an original installed capacity exceeding 300 megawatts and that uses coal as a fuel source.

B. “Continuous emission monitoring system or CEMS” means the equipment used to sample, analyze, measure, and provide, by means of readings recorded at least once every 15 minutes (using an automated data acquisition and handling system), a permanent record of CO₂ emissions or stack gas volumetric flow rate.

C. “Department” means the New Mexico environment department.

D. “Electric generating facility (EGF)” means a facility that generates electricity and includes [all appurtenances and pollution control devices, and including, but not limited to all processes and equipment used to separate, compress, and transport CO₂ or other pollutants to offsite locations. A facility may include](#) one or more electric generating units (EGU) at the same location.

E. “Megawatt-hour (MWh)” means the total gross energy output (P_{gross}) from the affected EGU as determined by 40 CFR Part 60.5540.

F. “Operating month” means a calendar month during which any fuel is combusted in the affected EGU at any time.

G. “Operator” means the person or persons responsible for the overall operation of an affected EGF.

H. “Owner” means the person or persons who own all or part of an affected EGF.

20.2.101.8 SEVERABILITY: If any provision of this Part, or the application of this provision to any person or circumstance is held invalid, the remainder of this Part, or the application of this provision to any person or circumstance other than those as to which it is held invalid, shall not be affected thereby.
[20.2.101.8 NMAC - N, XX/XX/2022]

20.2.101.9 CONSTRUCTION: This Part shall be liberally construed to carry out its purpose.
[20.2.101.9 NMAC - N, XX/XX/2022]

20.2.101.10 SAVINGS CLAUSE: Repeal or supersession of prior versions of this Part shall not affect administrative or judicial action initiated under those prior versions.

[20.2.101.10 NMAC - N, XX/XX/2022]

20.2.101.11 COMPLIANCE WITH OTHER REGULATIONS: Compliance with this Part does not relieve a person from the responsibility to comply with other applicable federal, state, or local laws, rules, or regulations, including more stringent controls.

[20.2.101.11 NMAC - N, XX/XX/2022]

20.2.101.12 DOCUMENTS: Documents incorporated and cited in this Part may be viewed at the New Mexico environment department air quality bureau.

[20.2.101.12 NMAC - N, XX/XX/2022]

[The Air Quality Bureau is located at 525 Camino de los Marquez, Suite 1, Santa Fe, New Mexico 87505.]

20.2.101.13-20.2.101.110 [RESERVED]

20.2.101.111 APPLICABILITY: This Part shall apply to new and existing affected electric generating facilities.

[20.2.101.111 NMAC - N, XX/XX/2022]

20.2.101.112 EMISSION STANDARD: After January 1, 2023, the owner or operator of an affected EGF shall limit CO₂ emissions from the EGF to no more than 1,100 pounds per megawatt-hour on a 12-operating-month rolling average basis. The calculation shall be performed within fifteen days of the end of each calendar month. The calculation of pounds of CO₂ emitted must include all CO₂ emitted during the compliance period, including but not limited to emissions during startup, shutdown, maintenance, and malfunction. The calculation of megawatt-hours generated during the compliance period must include all megawatt-hours generated by the affected EGF, regardless of whether or how the electricity is used.

[20.2.101.112 NMAC - N, XX/XX/2022]

20.2.101.113 MONITORING REQUIREMENTS:

A. Owners or operators of an affected EGF shall prepare a monitoring plan to quantify the hourly CO₂ mass emission rate in tons per hour (tph) in accordance with the applicable provisions of [this Section and](#) 40 CFR Part 75.53(g). The monitoring plan shall be submitted to the Department and in place prior to reporting emission data and the results of the monitoring system certification test under this Subsection. The monitoring plan shall be updated as appropriate.

B. Owners or operators shall determine the hourly CO₂ mass emissions in pounds or tons from each affected electric generating unit (EGU) according to paragraphs (B)(1) through (5) of this Subsection.

(1) Owners or operators shall install, certify, operate, maintain, and calibrate a CO₂ continuous emission monitoring system (CEMS) to directly measure and record the hourly average CO₂ concentration in the affected EGU exhaust gas emitted to the atmosphere, and a flow monitoring system to measure hourly average stack gas flow rates, in accordance with 40 CFR Part 75.10(a)(3)(i). As an alternative to direct measurement of the CO₂ concentration, provided that the affected EGU does not employ carbon separation (e.g., carbon capture and storage), owners or operators may use data from a certified oxygen (O₂) monitor to calculate the hourly average CO₂ concentration in accordance with 40 CFR Part 75.10(a)(3)(iii). If the CO₂ concentration is measured on a dry basis, owners or operators shall also install, certify, operate, maintain, and calibrate a continuous moisture monitoring system, in accordance with 40 CFR Part 75.11(b). Alternatively, owners or operators may either use an appropriate fuel-specific default moisture value from 40 CFR Part 75.11(b) or submit a petition to the Department for a site-specific default moisture value.

(2) For each CEMS used to comply with this Part, owners or operators shall meet the applicable certification and quality assurance procedures in 40 CFR Part 75.20 and Appendices A and B of 40 CFR Part 75.

(3) Owners or operators shall use only unadjusted exhaust gas volumetric flow rates to determine the hourly CO₂ mass emission rate from each affected EGU. Owners or operators shall not apply the bias adjustment factors described in Section 7.6.5 of Appendix A to 40 CFR Part 75 to the exhaust gas flow rate data.

(4) Owners or operators shall select an appropriate reference method to set up the flow monitor and perform the ongoing Relative Accuracy Test Audit (RATA), in accordance with 40 CFR Part 75. If owners or operators use a Type-S pitot tube or a pitot tube assembly for the flow RATA, owners or operators shall calibrate the pitot tube or pitot tube assembly. Owners or operators may not use the 0.84 default Type-S pitot tube coefficient specified in Method 2.

(5) Owners or operators shall calculate the hourly CO₂ mass emissions (in tons) as described in Subparagraphs (a) through (c) of Paragraph 5 of this Section. Owners and operators shall only perform this calculation for valid operating hours, as defined in 40 CFR Part 60.5540(a)(1).

(a) Begin with the hourly CO₂ mass emission rate (tons/hour), obtained either from Equation F-11 of Appendix F of 40 CFR Part 75 (if the CO₂ concentration is measured on a wet basis), or by following the procedure in section 4.2 of Appendix F of 40 CFR Part 75 (if the CO₂ concentration is measured on a dry basis).

(b) Next, multiply each hourly CO₂ mass emission rate by the EGU or stack operating time in hours (as defined in 40 CFR Part 72.2), to calculate the tons of CO₂.

(c) The hourly CO₂ emission rate and the EGU (or stack) operating hours used to calculate the CO₂ emission rate shall be recorded under Section 114 and shall be reported as required under Section 115 of this Part.

C. Owners or operators shall install, calibrate, maintain, and operate a sufficient number of watt meters to continuously measure and record the hourly gross electric output from each affected EGU. These measurements shall be performed using 0.2 class electricity metering instrumentation and calibration procedures as specified under ANSI Standards No. C12.20 (see 40 CFR Part 60.17). For an affected EGU equipped with an integrated carbon capture system that supplies steam to the carbon capture system, owners or operators shall install, calibrate, maintain, and operate meters to continuously record the total useful thermal output. The record of the thermal output shall be made on an hourly basis. For process steam applications, owners or operators shall install, calibrate, maintain, and operate meters to continuously record the steam flow rate, temperature, and pressure. The records of each parameter shall be made on an hourly basis.

D. Consistent with 40 CFR Part 60.5520, if two or more affected EGUs serve a common electric generator, the owners or operators shall apportion the combined hourly gross energy output to the individual affected EGU according to the fraction of the total steam load contributed by each EGU. Alternatively, if the EGUs are identical, owners or operators may apportion the combined hourly gross electrical load to the individual EGUs according to the fraction of the total heat input contributed by each EGU.

E. In accordance with 40 CFR Part 60.13(g) and 40 CFR Part 60.5520, if an owner or operator of two or more affected EGUs that utilize the CEMS provisions in Paragraph B of this Section share a common exhaust stack, the owners or operators may monitor the hourly CO₂ mass emissions at the common stack, in lieu of monitoring each EGU separately. If an owner or operator chooses this option, the hourly gross energy output (electric, thermal, and/or mechanical, as applicable) shall be the sum of the hourly loads for each individual affected EGU, and the owner or operator shall express the operating time as “stack operating hours” (as defined in 40 CFR Part 72.2). If an owner or operator demonstrates compliance with the emission standard of this Part at the common exhaust stack, each affected EGU utilizing the stack shall be determined to be in compliance.

F. In accordance with 40 CFR Part 60.13(g) and 40 CFR Part 60.5520, if an owner or operator of an affected EGU utilizing the CEMS provisions in Paragraph B of this Section has exhaust gas that is emitted to the atmosphere through multiple stacks (or if the exhaust gases are routed to a common stack through multiple ducts and owners or operators elect to monitor the ducts), the owner or operator shall monitor the hourly CO₂ mass emissions and the “stack operating time” (as defined in 40 CFR Part 72.2) at each stack or duct separately. Owners or operators shall determine compliance with the emission standard of this Part by summing the CO₂ mass emissions measured at the individual stacks or ducts, and dividing by the total gross output for the affected EGU.

G. Operating hours in which CO₂ mass emission rates are calculated using maximum potential values are not “valid operating hours” (as defined in 40 CFR Part 60.5540(a)(1)) and shall not be used in the compliance determinations under 40 CFR Part 60.5540.

[20.2.101.113 NMAC - N, XX/XX/2022]

20.2.101.114 RECORDKEEPING REQUIREMENTS:

A. Owners or operators shall maintain records of the information used to demonstrate compliance with this Part as specified in 40 CFR Parts 60.7(b) and 40 CFR Part 60.7(f) and shall comply with the applicable recordkeeping requirements of subpart F of 40 CFR Part 75. Owners or operators not subject to the requirements of 40 CFR Part 75 shall, at minimum, keep the records required under 40 CFR Part 60.5560(b)(2).

B. Owners or operators shall keep records of the calculations performed to determine the hourly and monthly total CO₂ mass emissions in tons for:

- (1) Each operating month for each affected EGU; and
- (2) Each monthly rolling 12-month period.

C. Consistent with 40 CFR Part 60.5520, owners or operators shall keep records of the applicable

data recorded and the calculations performed and used to determine the gross energy output for each operating month for each affected EGU.

D. Owners or operators shall keep records of the calculations performed to determine any site-specific carbon-based F-factors used in the emissions calculations (if applicable).

E. Owners or operators shall maintain records of the information used to demonstrate compliance with this Subsection as specified in 40 CFR Part 60.5560.

F. Owners or operators shall comply with the following requirements for record retention:

(1) Records shall be in a form suitable and readily available for review;

(2) Owners or operators shall maintain each record for 103 years after the date of conclusion of each compliance period; and

(3) Owners or operators shall maintain a record onsite for at least 52 years after the date of each measurement, maintenance, corrective action, report, or record, according to 40 CFR Part 60.7. Records that are accessible from a central location by a computer or other means that instantly provide access at the site meet this requirement. Owners or operators may maintain the records offsite for the remaining year(s) as required by this subpart.

[20.2.101.114 NMAC - N, XX/XX/2022]

20.2.101.115 REPORTING REQUIREMENTS:

A. Owners or operators shall comply with the following reporting requirements:

(1) Owners or operators shall submit electronic quarterly reports. For the first twelve months, owners or operators shall submit an electronic quarterly report no later than 30 days after the end of each quarter.

After owners or operators have accumulated the first 12-operating months for the affected EGF, owners or operators shall submit a report for the calendar quarter that includes the twelfth operating month no later than 30 days after the end of that quarter. Thereafter, owners or operators shall submit a report for each subsequent calendar quarter, no later than 30 days after the end of the quarter.

(2) Owners or operators shall include the following information in each quarterly report:

(a) Each rolling average CO₂ mass emission rate for which the last (twelfth) operating month in a 12-operating-month compliance period falls within the calendar quarter. Except as provided in this Part. Owners or operators shall calculate each average CO₂ mass emission rate for the compliance period according to the procedures in 40 CFR Part 60.5540. Owners or operators shall report the dates (month and year) of the first and twelfth operating months in each compliance period for which owners or operators performed a CO₂ mass emission rate calculation. Owners or operators shall identify compliance periods that ended in each quarterly report;

(b) If one or more compliance periods end in the quarter, owners or operators shall identify each operating month in the calendar quarter where owners or operators of an affected EGF violated the emission standard of this Part;

(c) If one or more compliance periods end in the quarter and there are no violations for an affected EGF, the owners or operators shall include an affirmative compliance statement in the quarterly report;

(d) The percentage of valid operating hours in each 12-operating-month compliance period (i.e., the total number of valid operating hours (as defined in 40 CFR Part 60.5540(a)(1)) in that period divided by the total number of operating hours in that period, and multiplied by 100 percent); and

(e) An indication whether or not the hourly gross energy output (Pgross) values used in the compliance determinations are based solely upon gross electrical load, in accordance with 40 CFR Part 60.5520.

(3) In the final quarterly report for each calendar year, owners or operators shall include the potential electric output of the affected EGU and the gross energy output over the four quarters of the calendar year, in accordance with 40 CFR Part 60.5520.

B. Owners or operators shall meet all applicable reporting requirements under subpart G of 40 CFR Part 75 with reporting beginning January 1, 2023, or the date on which the EGF becomes an affected facility under this Part.

C. If any required monitoring system has not been provisionally certified by the applicable date on which emissions data reporting is required to begin under paragraph 40 CFR Part 60.55(c)(3), the maximum (or in some cases, minimum) potential value for the parameter measured by the monitoring system shall be reported until the required certification testing is successfully completed, in accordance with 40 CFR Part 75.4(j), 40 CFR Part 75.37(b), or section 2.4 of Appendix D of 40 CFR Part 75 (as applicable).

[20.2.101.115 NMAC - N, XX/XX/2022]

DRAFT