

First Notice

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192

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202

203 AUTHORITY: Implementing Sections 9.9 and 10 and authorized by Sections 27 and 28.5 of the
204 Environmental Protection Act [415 ILCS 5/9.9, 10, 27 and 28.5 (2004)].

205

206 SOURCE: Adopted as Chapter 2: Air Pollution, Rule 207: Nitrogen Oxides Emissions, R71-23,
207 4 PCB 191, April 13, 1972, filed and effective April 14, 1972; amended at 2 Ill. Reg. 17, p. 101,
208 effective April 13, 1978; codified at 7 Ill. Reg. 13609; amended in R01-9 at 25 Ill. Reg. 128,
209 effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, effective March 15, 2001;
210 amended in R01-16 and R01-17 at 25 Ill. Reg. 5914, effective April 17, 2001; amended in R07-
211 18 at 31 Ill. Reg. 14271, effective September 25, 2007; amended in R07-19 at 33 Ill. Reg. 11999,
212 effective August 6, 2009; amended in R08-19 at 33 Ill. Reg. 13345, effective August 31, 2009;
213 amended in R09-20 at 33 Ill. Reg. 15754, effective November 2, 2009; amended in R11-17 at 35
214 Ill. Reg. 7391, effective April 22, 2011; amended in R11-24 at 35 Ill. Reg. 14627, effective
215 August 22, 2011; amended in R11-08 at 35 Ill. Reg. 16600, effective September 27, 2011;

216 amended in R09-19 at 35 Ill. Reg. 18801, effective October 25, 2011; amended in R15-21 at 39
217 Ill. Reg. 16213, effective December 7, 2015; amended in R25-17 at 48 Ill. Reg. _____, effective
218 _____.

219
220 **SUBPART A: GENERAL PROVISIONS**

221
222 **Section 217.101 Measurement Methods**

223
224 Measurement of nitrogen oxides must be according to:

- 225
- 226 a) The phenol disulfonic acid procedures, 40 CFR 60, Appendix A-4, Method 7, as
227 incorporated by reference in Section 217.104;
- 228
- 229 b) Continuous emissions monitoring pursuant to 40 CFR 75, as incorporated by
230 reference in Section 217.104;
- 231
- 232 c) Determination of Nitrogen Oxides Emissions from Stationary Sources
233 (Instrumental Analyzer Procedure), 40 CFR 60, Appendix A-4, Method 7E, as
234 incorporated by reference in Section 217.104;
- 235
- 236 d) Monitoring with portable monitors pursuant to ASTM D6522-2000, as
237 incorporated by reference in Section 217.104; and
- 238
- 239 e) How do I conduct the initial and subsequent performance tests (for turbines),
240 regarding NO_x pursuant to 40 CFR 60.4400, as incorporated by reference in
241 Section 217.104.

242
243 (Source: Amended at 48 Ill. Reg. _____, effective _____)

244
245 **Section 217.102 Abbreviations and Units**

- 246 a) The following abbreviations are used in this Part:

247	ASTM	American Society for Testing and Materials
248	Btu	British thermal unit
	bhp	brake horsepower
	CEMS	continuous emissions monitoring system
	EGU	Electrical Generating Unit
	dscf	dry standard cubic feet
	g/bhp-hr	grams per brake horsepower-hour
	kg	kilogram
	kg/MW-hr	kilograms per megawatt-hour
	lb	pound

lbs/mmBtu	pounds per million Btu
Mg	megagram or metric ton
mm	million
mmBtu	million British thermal units
mmBtu/hr	million British thermal units per hour
MWe	megawatt of electricity
MW	megawatt; one million watts
MW-hr	megawatt-hour
NATS	NO _x Allowance Tracking System
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
O ₂	oxygen
psia	pounds per square inch absolute
peoc	potential electrical output capacity
PTE	potential to emit
ppm	parts per million
ppmv	parts per million by volume
<u>PEMS</u>	<u>predictive emission monitoring system</u>
T	English ton
TPY	tons per year

249
250
251

b) The following conversion factors have been used in this Part:

English	Metric
2.205 lb	1 kg
1 T	0.907 Mg
1 lb/T	0.500 kg/Mg

252
253
254

(Source: Amended at 48 Ill. Reg. _____, effective _____)

Section 217.104 Incorporations by Reference

255
256
257
258
259

The following materials are incorporated by reference. These incorporations do not include any later amendments or editions.

260
261
262
263
264
265
266
267

- a) ~~The phenol disulfonic acid procedures, as published in 40 CFR 60, Appendix A, Method 7 (2000);~~
- ab) 40 CFR 96, subparts B, D, G, and H (1999);
- be) 40 CFR 96.1 through 96.3, 96.5 through 96.7, 96.50 through 96.54, 96.55(a) & (b), 96.56 and 96.57 (1999);

- 268 [cd](#)) 40 CFR ~~60, 72, 75~~ & 76 (2006);
 269
 270 [de](#)) Alternative Control Techniques Document – NO_x Emissions from Cement
 271 Manufacturing, EPA-453/R94-004, U.S. Environmental Protection Agency-
 272 Office of Air Quality Planning and Standards, Research Triangle Park, N.C.
 273 27711, March 1994;
 274
 275 [ef](#)) Section 11.6, Portland Cement Manufacturing, AP-42 Compilation of Air
 276 Emission Factors, Volume 1: Stationary Point and Area Sources, U.S.
 277 Environmental Protection Agency-Office of Air Quality Planning and Standards,
 278 Research Triangle Park, N.C. 27711, revised January 1995;
 279
 280 [g](#)) ~~40 CFR 60.13 (2001);~~
 281
 282 [h](#)) ~~40 CFR 60, Appendix A, Methods 3A, 7, 7A, 7C, 7D, 7E, 19, and 20 (2000);~~
 283
 284 [fi](#)) ASTM D6522-~~2000~~, Standard Test Method for Determination of Nitrogen
 285 Oxides, Carbon Monoxide, and Oxygen Concentrations in Emissions from
 286 Natural Gas-Fired Reciprocating Engines, Combustion Turbines, Boilers, and
 287 Process Heaters Using Portable Analyzers (~~2020~~~~2000~~);
 288
 289 [j](#)) ~~Standards of Performance for Stationary Combustion Turbines, 40 CFR 60,~~
 290 ~~Subpart KKKK, 60.4400 (2006);~~
 291
 292 [gk](#)) Compilation of Air Pollutant Emission Factors: AP-42, Volume I: Stationary
 293 Point and Area Sources (~~2024~~~~2000~~), USEPA;
 294
 295 [l](#)) ~~40 CFR 60, Appendix A, Methods 1, 2, 3, and 4 (2008);~~
 296
 297 [hm](#)) Alternative Control Techniques Document – NO_x Emissions from
 298 Industrial/Commercial/Institutional (ICI) Boilers, EPA-453/R-94-022, U.S.
 299 Environmental Protection Agency, Office of Air and Radiation, Office of Air
 300 Quality Planning and Standards, Research Triangle Park, N.C. 27711, March
 301 1994;
 302
 303 [in](#)) Alternative Control Techniques Document – NO_x Emissions from Process
 304 Heaters (Revised), EPA-453/R-93-034, U.S. Environmental Protection Agency,
 305 Office of Air and Radiation, Office of Air Quality Planning and Standards,
 306 Research Triangle Park, N.C. 27711, September 1993;
 307
 308 [je](#)) Alternative Control Techniques Document – NO_x Emissions from Glass
 309 Manufacturing, EPA-453/R-94-037, U.S. Environmental Protection Agency,

310 Office of Air and Radiation, Office of Air Quality Planning and Standards,
311 Research Triangle Park, N.C. 27711, June 1994;

312
313 ~~k~~p) Alternative Control Techniques Document – NO_x Emissions from Iron and Steel
314 Mills, EPA-453/R-94-065, U.S. Environmental Protection Agency, Office of Air
315 and Radiation, Office of Air Quality Planning and Standards, Research Triangle
316 Park, N.C. 27711, September 1994;

317
318 ~~l~~q) 40 CFR 60 and 75 (~~2024~~2008); and

319
320 ~~m~~) 40 CFR 63.7540 (2024).

321
322 ~~r~~) ~~40 CFR 60, Appendix B, Performance Specification 16, 74 FR 12575 (March 25,~~
323 ~~2009)~~.

324
325 (Source: Amended at 48 Ill. Reg. _____, effective _____)

326
327 SUBPART D: NO_x GENERAL REQUIREMENTS

328
329 **Section 217.150 Applicability**

330
331 a) Applicability

332
333 1) Before May 1, 2025, the~~The~~ provisions of this Subpart and Subparts E, F,
334 G, H, I, and M of this Part apply to the following:

335
336 A) All sources that are located in either one of the following areas and
337 that emit or have the potential to emit NO_x in an amount equal to
338 or greater than 100 tons per year:

339
340 i) The area composed of the Chicago area counties of Cook,
341 DuPage, Kane, Lake, McHenry, and Will, the Townships
342 of Aux Sable and Goose Lake in Grundy County, and the
343 Township of Oswego in Kendall County; or

344
345 ii) The area composed of the Metro East area counties of
346 Jersey, Madison, Monroe, and St. Clair, and the Township
347 of Baldwin in Randolph County; and

348
349 B) Any industrial boiler, process heater, glass melting furnace, cement
350 kiln, lime kiln, iron and steel reheat, annealing, or galvanizing
351 furnace, aluminum reverberatory or crucible furnace, or fossil fuel-
352 fired stationary boiler at those~~such~~ sources described in subsection

353 (a)(1)(A) of this Section that emits NO_x in an amount equal to or
354 greater than 15 tons per year and equal to or greater than five tons
355 per ozone season.
356

357 2) On and after May 1, 2025, except as otherwise provided in Subpart E or
358 M, the provisions of this Subpart and Subparts E, F, G, H, I, and M of this
359 Part apply to the owner or operator of any industrial boiler, process heater,
360 glass melting furnace, cement kiln, lime kiln, iron and steel reheat,
361 annealing, or galvanizing furnace, aluminum reverberatory or crucible
362 furnace, or fossil fuel-fired stationary boiler that meets both of the
363 following criteria:
364

365 A) The emission unit is at a source that is located in one of the
366 following areas and that emits or has the potential to emit NO_x in
367 an amount equal to or greater than 50 tons per year.
368

369 i) The area composed of the Chicago area counties of Cook,
370 DuPage, Kane, Lake, McHenry, and Will, the Townships
371 of Aux Sable and Goose Lake in Grundy County, and the
372 Township of Oswego in Kendall County.
373

374 ii) The area composed of the Metro East area counties of
375 Madison, Monroe, and St. Clair.
376

377 B) The emission unit emits 15 tons or more of NO_x to the atmosphere
378 per calendar year.
379

380 32) For purposes of this Section, "potential to emit" means the quantity of
381 NO_x that potentially could be emitted by a stationary source before add-on
382 controls based on the design capacity or maximum production capacity of
383 the source and 8,760 hours per year or the quantity of NO_x that potentially
384 could be emitted by a stationary source as established in a federally
385 enforceable permit.
386

387 b) If a source ceases to fulfill the emissions criteria of subsection (a) of this Section,
388 the requirements of this Subpart and Subpart E, F, G, H, I, or M of this Part
389 continue to apply to any emission unit that was ever subject to the provisions of
390 any of those Subparts.
391

392 c) The provisions of this Subpart and Subparts E, F, G, H, I, and M do not apply to
393 afterburners, flares, and incinerators.
394

395 ~~d) Where a construction permit, for which the application was submitted to the~~
396 ~~Agency prior to the adoption of this Subpart, is issued that relies on decreases in~~
397 ~~emissions of NO_x from existing emission units for purposes of netting or emission~~
398 ~~offsets, such NO_x decreases remain creditable notwithstanding any requirements~~
399 ~~that may apply to the existing emission units pursuant to this Subpart and Subpart~~
400 ~~E, F, G, H, I, or M of this Part.~~

401
402 de) The owner or operator of an emission unit that is subject to this Subpart and
403 Subpart E, F, G, H, I, or M of this Part must operate such unit in a manner
404 consistent with good air pollution control practice to minimize NO_x emissions.
405

406 (Source: Amended at 48 Ill. Reg. _____, effective _____)
407

408 **Section 217.152 Compliance Date and 30-Day Rolling Average Basis**
409

410 a) On and after May 1, 2025, the owner or operator of an emission unit subject to the
411 requirements of this Subpart and Subpart E, F, G, H, I, or M must comply with
412 the requirements of the applicable Subparts. Compliance with emissions
413 limitations must be on a 30-day rolling average basis. A 30-day rolling average
414 consists of 30 operating days where an operating day is a calendar day in which
415 any affected emission unit combusts any fuel. Compliance with the 30-day
416 rolling average must be demonstrated 30 operating days after May 1, 2025.
417

418 1) A 30-day rolling average under Subparts E, F, I, and M is calculated using
419 the total mass of emissions from the period and the total heat input from
420 such period.
421

422 2) A 30-day rolling average under Subparts G and H is calculated using the
423 total mass of emissions from the period and the total amount of glass,
424 clinker, or lime produced in the period.
425

426 b) The owner or operator of an emission unit that is constructed or modified on or
427 after May 1, 2025, and that is subject to this Subpart and Subpart E, F, G, H, I, or
428 M must comply with the applicable Subparts within 180 days after initial startup
429 of the new or modified emission unit.
430

431 ~~a) Compliance with the requirements of Subparts E, F, G, H, I and M by an owner or~~
432 ~~operator of an emission unit that is subject to any of those Subparts is required~~
433 ~~beginning January 1, 2015.~~
434

435 cb) Notwithstanding subsection (a) of this Section, compliance with the requirements
436 of Subpart G of this Part by an owner or operator of an emission unit subject to
437 Subpart G of this Part ~~is~~shall be extended until December 31, 2014, if the unit is

438 required to meet emissions limitations for NO_x, as measured using a continuous
 439 emissions monitoring system, and included within a legally enforceable order on
 440 or before May 7, 2010, whereby the emissions limitations are less than 30 percent
 441 of the emissions limitations ~~set forth~~ under Section 217.204.

442
 443 de) Notwithstanding subsection (a) of this Section, the owner or operator of emission
 444 units subject to Subpart E or F of this Part and located at a petroleum refinery
 445 must comply with the requirements of this Subpart and Subpart E or F of this Part,
 446 as applicable, for those emission units beginning January 1, 2015, except that the
 447 owner or operator of emission units listed in Appendix H must comply with the
 448 requirements of this Subpart, including the option of demonstrating compliance
 449 with the applicable Subpart through an emissions averaging plan under Section
 450 217.158 and Subpart E or F of this Part, as applicable, for the listed emission units
 451 beginning on the dates set forth in Appendix H. With Agency approval, the
 452 owner or operator of emission units listed in Appendix H may elect to comply
 453 with the requirements of this Subpart and Subpart E or F of this Part, as
 454 applicable, by reducing the emissions of emission units other than those listed in
 455 Appendix H, ~~if provided that~~ the emissions limitations of ~~those such~~ other emission
 456 units are equal to or more stringent than the applicable emissions limitations set
 457 forth in Subpart E or F of this Part, as applicable, by the dates set forth in
 458 Appendix H.

459
 460 (Source: Amended at 48 Ill. Reg. _____, effective _____)

461
 462 **Section 217.154 Initial Performance Testing**

- 463
 464 a) Performance testing of NO_x emissions for emission units constructed on or before
 465 ~~July 1, 2014~~ May 1, 2025, and subject to emissions limitations under Subpart E, F,
 466 G, H, or I of this Part must be conducted in accordance with Section 217.157 of
 467 this Subpart. ~~Except as provided for under Section 217.157(a)(4) and (e)(1).~~ This
 468 subsection does not apply to owners and operators of emission units
 469 demonstrating compliance through a continuous emissions monitoring system
 470 (CEMS), predictive emission monitoring system (PEMS), or combustion tuning.
 471
 472 b) Performance testing of NO_x emissions for emission units for which construction
 473 or modification occurs after ~~July 1, 2014~~ May 1, 2025, and that are subject to
 474 emissions limitations under Subpart E, F, G, H, or I of this Part must be
 475 conducted within 60 days after achieving maximum operating rate but no later
 476 than 180 days after initial startup of the new or modified emission unit, in
 477 accordance with Section 217.157 of this Subpart. ~~This~~ ~~Except as provided for~~
 478 ~~under Section 217.157(a)(4) and (e)(1), this~~ subsection does not apply to owners
 479 and operators of emission units demonstrating compliance through a CEMS,

480 ~~PEMS, continuous emissions monitoring system, predictive emission monitoring~~
481 ~~system,~~ or combustion tuning.
482

- 483 c) Notification of the initial startup of an emission unit subject to subsection (b) of
484 this Section must be provided to the Agency no later than 30 days after initial
485 startup.
486
- 487 d) The owner or operator of an emission unit subject to subsection (a) or (b) of this
488 Section must notify the Agency of the scheduled date for the performance testing
489 in writing at least 30 days before ~~the such~~ date and five days before ~~the such~~ date.
490
- 491 e) If demonstrating compliance through an emissions averaging plan, at least 30
492 days before changing the method of compliance, the owner or operator of an
493 emission unit must submit a written notification to the Agency describing the new
494 method of compliance, the reason for the change in the method of compliance,
495 and the scheduled date for performance testing, if required. Upon changing the
496 method of compliance, the owner or operator of an emission unit must submit to
497 the Agency a revised compliance certification that meets the requirements of
498 Section 217.155.
499

500 (Source: Amended at 48 Ill. Reg. _____, effective _____)
501

502 **Section 217.155 Initial Compliance Certification**

503
504 a) Before May 1, 2025:
505

506 1a) By the applicable compliance date ~~set forth~~ under Section 217.152, an
507 owner or operator of an emission unit subject to Subpart E, F, G, H, or I of
508 this Part who is not demonstrating compliance through the use of a
509 ~~CEMS continuous emissions monitoring system~~ must certify to the Agency
510 that the emission unit will be in compliance with the applicable emissions
511 limitation of Subpart E, F, G, H, or I of this Part beginning on ~~the such~~
512 applicable compliance date. The performance testing certification must
513 include the results of the performance testing performed in accordance
514 with Section 217.154(a) and (b) and the calculations necessary to
515 demonstrate that the subject emission unit will be in initial compliance.
516

517 2b) By the applicable compliance date set forth under Section 217.152, an
518 owner or operator of an emission unit subject to Subpart E, F, G, H, I, or
519 M of this Part who is demonstrating compliance through the use of a
520 ~~CEMS continuous emissions monitoring system~~ must certify to the Agency
521 that the affected emission units will be in compliance with the applicable
522 emissions limitation of Subpart E, F, G, H, I, or M of this Part beginning

523 on ~~the~~such applicable compliance date. The compliance certification must
524 include a certification of the installation and operation of a
525 CEMS~~continuous emissions monitoring system~~ required under Section
526 217.157 and the monitoring data necessary to demonstrate that the subject
527 emission unit will be in initial compliance.
528

529 b) On and after May 1, 2025:
530

531 1) By the applicable compliance date set forth under Section 217.152, an
532 owner or operator of an emission unit subject to Subpart E, F, G, H, I, or
533 M of this Part must certify to the Agency that the emission unit will be in
534 compliance with the applicable emissions limitations of Subpart E, F, G,
535 H, I, or M.
536

537 A) For emission units demonstrating compliance through performance
538 testing, the certification must include the results of the
539 performance testing performed in accordance with Section 217.157
540 and the calculations necessary to demonstrate that the subject
541 emission unit will be in initial compliance with Subpart E, F, G, H,
542 I, or M as applicable, of this Part.
543

544 B) For emission units demonstrating compliance through the use of a
545 CEMS or PEMS, the certification must certify the installation and
546 operation of a CEMS or PEMS, as applicable, required under
547 Section 217.157.
548

549 2) For emission units constructed or modified on or after May 1, 2025, the
550 owner or operator must certify to the Agency that the emission unit will be
551 in compliance with the applicable emissions limitations of Subpart E, F,
552 G, H, I, or M within 180 days after initial startup of the new or modified
553 emission unit.
554

555 A) For emission units demonstrating compliance through performance
556 testing, the certification must include the results of the
557 performance testing performed in accordance with Section 217.154
558 and the calculations necessary to demonstrate that the subject
559 emission unit will be in initial compliance with Subpart E, F, G, H,
560 I, or M, as applicable, of this Part.
561

562 B) For emission units demonstrating compliance through the use of a
563 CEMS or PEMS, the certification must certify the installation and
564 operation of a CEMS or PEMS, as applicable, required under
565 Section 217.157 and the monitoring data necessary to demonstrate

566 that the subject emission unit will be in initial compliance with
567 Subpart E, F, G, H, I, or M, as applicable, of this Part.
568

569 (Source: Amended at 48 Ill. Reg. _____, effective _____)
570

571 **Section 217.156 Recordkeeping and Reporting**
572

- 573 a) The owner or operator of an emission unit subject to Subpart E, F, G, H, I, or M
574 of this Part must keep and maintain all records used to demonstrate initial
575 compliance and ongoing compliance with the requirements of those Subparts.
576
- 577 1) Except as otherwise provided under this Subpart or Subpart E, F, G, H, I,
578 or M of this Part, copies of ~~the~~such records must be submitted by the
579 owner or operator of the source to the Agency within 30 days after receipt
580 of a written request by the Agency.
581
- 582 2) ~~The~~Such records must be kept at the source and maintained for at least
583 five years and must be available for immediate inspection and copying by
584 the Agency.
585
- 586 b) The owner or operator of an emission unit subject to Subpart E, F, G, H, I, or M
587 of this Part must maintain records that demonstrate compliance with the
588 requirements of those Subparts, as applicable, that include the following:
589
- 590 1) Identification, type (e.g., gas-fired), and location of each unit.
591
- 592 2) Calendar date of the record.
593
- 594 3) Before May 1, 2025, monthly~~Monthly~~, seasonal, and annual operating
595 hours. On and after May 1, 2025, daily operating hours.
596
- 597 4) Before May 1, 2025, type~~Type~~ and quantity of each fuel used monthly,
598 seasonally, and annually. On and after May 1, 2025, type and quantity of
599 each fuel used daily.
600
- 601 5) On and after May 1, 2025, total mass emissions on a daily basis and on a
602 30-day rolling average basis.
603
- 604 ~~65)~~ Product and material throughput, as applicable.
605
- 606 ~~76)~~ Reports for all applicable emissions tests for NO_x conducted on the unit,
607 including results.
608

- 609 87) The date, time, and duration of any startup, shutdown, or malfunction in
610 the operation of any emission unit subject to Subpart E, F, G, H, I, or M of
611 this Part or any emissions monitoring equipment. The records must
612 include a description of the malfunction and corrective maintenance
613 activity.
614
- 615 98) A log of all maintenance and inspections related to the unit's air pollution
616 control equipment for NO_x that is performed on the unit.
617
- 618 109) A log for the NO_x monitoring device, if present, including periods when
619 not in service and maintenance and inspection activities that are performed
620 on the device.
621
- 622 1140) Identification of time periods for which operating conditions and pollutant
623 data were not obtained by the CEMS or PEMS~~continuous emissions~~
624 ~~monitoring system~~, including the reasons for not obtaining sufficient data
625 and a description of corrective actions taken.
626
- 627 1244) Before May 1, 2025, if~~if~~ complying with the emissions averaging plan
628 provisions of Section 217.158, copies of the calculations used to
629 demonstrate compliance with the ozone season and annual control period
630 limitations, noncompliance reports for the ozone season, and ozone and
631 annual control period compliance reports submitted to the Agency.
632
- 633 c) The owner or operator of an industrial boiler subject to Subpart E of this Part
634 must maintain records in order to demonstrate compliance with the combustion
635 tuning requirements under Section 217.166.
636
- 637 d) The owner or operator of a process heater subject to Subpart F of this Part must
638 maintain records in order to demonstrate compliance with the combustion tuning
639 requirements under Section 217.186.
640
- 641 e) The owner or operator of an emission unit subject to Subpart E, F, G, H, I, or M
642 of this Part must maintain records in order to demonstrate compliance with the
643 testing and monitoring requirements under Section 217.157.
644
- 645 f) The owner or operator of an emission unit subject to Subpart E, F, G, H, or I of
646 this Part must provide the following information with respect to performance
647 testing pursuant to Section 217.157:
648
- 649 1) Submit a testing protocol to the Agency at least 60 days prior to testing;
650

- 651 2) Notify the Agency at least 30 days in writing prior to conducting
 652 performance testing for NO_x emissions and five days prior to ~~the~~^{such}
 653 testing;
 654
- 655 3) Not later than 60 days after the completion of the test, submit the results of
 656 the test to the Agency; and
 657
- 658 4) If, after the 30-days' notice for an initially scheduled test is sent, there is a
 659 delay (e.g., due to operational problems) in conducting the test as
 660 scheduled, the owner or operator of the unit must notify the Agency as
 661 soon as practicable of the delay in the original test date, either by
 662 providing at least seven days' prior notice of the rescheduled date of the
 663 test or by arranging a new test date with the Agency by mutual agreement.
 664
- 665 g) ~~Before May 1, 2025, the~~^{The} owner or operator of an emission unit subject to
 666 Subpart E, F, G, H, I, or M of this Part must notify the Agency of any
 667 exceedances of an applicable emissions limitation of Subpart E, F, G, H, I, or M
 668 of this Part by sending the applicable report with an explanation of the causes of
 669 ~~the~~^{such} exceedances to the Agency within 30 days following the end of the
 670 applicable compliance period in which the emissions limitation was not met. On
 671 and after May 1, 2025, the owner or operator of an emission unit subject to
 672 Subpart E, F, G, H, I, or M of this Part must notify the Agency of any
 673 exceedances of an applicable emissions limitation of Subpart E, F, G, H, I, or M
 674 of this Part by sending the applicable report with an explanation of the causes of
 675 the exceedances to the Agency within 30 days following the end of the applicable
 676 30-day rolling average period in which the emissions limitation was not met.
 677
- 678 h) Within 30 days after the receipt of a written request by the Agency, the owner or
 679 operator of an emission unit that is exempt from the requirements of Subpart E, F,
 680 G, H, I, or M of this Part must submit records that document that the emission
 681 unit is exempt from those requirements to the Agency.
 682
- 683 i) Until May 1, 2025, if~~if~~ demonstrating compliance through an emissions averaging
 684 plan, by March 1 following the applicable calendar year, the owner or operator
 685 must submit to the Agency a report that demonstrates the following:
 686
- 687 1) For all units that are part of the emissions averaging plan, the total mass of
 688 allowable NO_x emissions for the ozone season and for the annual control
 689 period;
 690
- 691 2) The total mass of actual NO_x emissions for the ozone season and annual
 692 control period for each unit included in the averaging plan;
 693

- 694 3) The calculations that demonstrate that the total mass of actual NO_x
 695 emissions are less than the total mass of allowable NO_x emissions using
 696 equations in Section 217.158(f); and
 697
 698 4) The information required to determine the total mass of actual NO_x
 699 emissions.
 700

701 j) On and after May 1, 2025, if demonstrating compliance through an emissions
 702 averaging plan, by March 1 following the previous calendar year, the owner or
 703 operator must submit to the Agency a report that includes the following:
 704

- 705 1) For all units that are part of the emissions averaging plan, the total mass of
 706 allowable NO_x emissions on a 30-day rolling average basis.
 707
 708 2) The total mass of actual NO_x emissions on a 30-day rolling average basis
 709 for each unit included in the averaging plan.
 710
 711 3) The calculations that demonstrate that the total mass of actual NO_x
 712 emissions is less than the total mass of allowable NO_x emissions using
 713 equations in Section 217.158(g).
 714
 715 4) The daily information required to determine the total mass of actual NO_x
 716 emissions on a 30-day rolling average basis.
 717

718 kj) The owner or operator of an emission unit subject to the requirements of Section
 719 217.157 and demonstrating compliance through the use of a CEMS or
 720 ~~PEMS continuous emissions monitoring system~~ must submit to the Agency a
 721 report within 30 days after the end of each calendar quarter. This report must
 722 include the following:
 723

- 724 1) Information identifying and explaining the times and dates when the
 725 CEMS or PEMS ~~continuous emissions monitoring~~ for NO_x was not in
 726 operation, other than for purposes of calibrating or performing quality
 727 assurance or quality control activities for the monitoring equipment; and
 728
 729 2) An excess emissions and monitoring systems performance report in
 730 accordance with the requirements of 40 CFR 60.7(c) and (d) and 60.13, or
 731 40 CFR 75, or an alternate procedure approved by the Agency and
 732 USEPA.
 733

734 lk) Until May 1, 2025, the ~~The~~ owner or operator of an emission unit subject to
 735 Subpart M of this Part must comply with the compliance certification and
 736 recordkeeping and reporting requirements in accordance with 40 CFR 96, or an

737 alternate procedure approved by the Agency and USEPA. On and after May 1,
738 2025, the owner or operator of an emission unit subject to Subpart M of this Part
739 must comply with the compliance certification and recordkeeping and reporting
740 requirements in accordance with 40 CFR 75, or an alternate procedure approved
741 by the Agency and USEPA.

742
743 m) On and after May 1, 2025, the owner or operator of an emission unit subject to
744 Subpart E, F, G, H, I, or M of this Part must submit an annual compliance
745 certification report that demonstrates compliance with the applicable requirements
746 to the Agency for the preceding calendar year by May 1 of the following year.
747 The owner or operator may submit the annual compliance certification report to
748 the Agency along with the Annual Emissions Report required under 35 Ill. Adm.
749 Code 254 or the compliance certification required under 415 ILCS
750 5/39.5(7)(p)(v). The compliance report must include the following:

- 751 1) Identification, type (e.g., gas-fired), and location of the emission unit.
- 752 2) Methods used for determining compliance, including an emissions
753 averaging plan, if applicable, a description of test methods, monitoring,
754 recordkeeping, and reporting requirements.
- 755 3) A certification of compliance with the applicable emissions limitation or
756 identification of the periods of noncompliance with a quantification of the
757 excess emissions limitation and the excess emissions.
- 758 4) For each calendar month, the highest 30-day rolling average emission rate.
759 The emissions data must be reported in the measurement units of the
760 applicable emissions limitation.
- 761 5) The emission unit's daily and total operating hours, capacity utilization,
762 and the percent operation of any CEMS or PEMS during the hours the
763 emission unit was operating.
- 764 6) A certification of compliance with all applicable requirements except
765 those identified signed by a responsible official that contains the
766 following: "I certify, based on information and belief formed after
767 reasonable inquiry, the statements and information in the document are
768 true, accurate, and complete."

769
770 (Source: Amended at 48 Ill. Reg. _____, effective _____)

771
772
773
774
775
776
777
778 **Section 217.157 Testing and Monitoring**
779

- 780 a) Industrial Boilers and Process Heaters
 781
 782 1) The owner or operator of an industrial boiler subject to Subpart E of this
 783 Part with a rated heat input capacity greater than 250 mmBtu/hr must
 784 install, calibrate, maintain, and operate a ~~CEMS continuous emissions~~
 785 ~~monitoring system~~ on the emission unit for the measurement of NO_x
 786 emissions discharged into the atmosphere in accordance with 40 CFR 75,
 787 as incorporated by reference in Section 217.104. However, the owner or
 788 operator of an industrial boiler subject to Subpart E of this Part with a
 789 rated heat input capacity greater than 250 mmBtu/hr that combusts blast
 790 furnace gas with up to 10% natural gas on an annual basis and located at a
 791 source that manufactures iron and steel is not required to install, calibrate,
 792 maintain, and operate a ~~CEMS continuous emissions monitoring system~~ on
 793 that industrial boiler, provided the heat input from natural gas does not
 794 exceed 10% on an annual basis and the owner or operator complies with
 795 the performance test requirements under this Section and demonstrates,
 796 during each performance test, that NO_x emissions from the industrial
 797 boiler are less than 70% of the applicable emissions limitation under
 798 Section 217.164. ~~If~~~~in the event~~ the owner or operator is unable to meet
 799 the requirements of this exception, a ~~CEMS continuous emissions~~
 800 ~~monitoring system~~ is required within 12 months after that event, or by
 801 January 1, 2015, whichever is later.
 802
 803 2) The owner or operator of an industrial boiler subject to Subpart E of this
 804 Part with a rated heat input capacity greater than 100 mmBtu/hr but less
 805 than or equal to 250 mmBtu/hr must install, calibrate, maintain, and
 806 operate a ~~CEMS continuous emissions monitoring system~~ on ~~the~~~~such~~
 807 emission unit for the measurement of NO_x emissions discharged into the
 808 atmosphere in accordance with 40 CFR 60, subpart A and appendix B,
 809 Performance Specifications 2 and 3, and appendix F, Quality Assurance
 810 Procedures, as incorporated by reference in Section 217.104.
 811
 812 3) The owner or operator of a process heater subject to Subpart F of this Part
 813 with a rated heat input capacity greater than 100 mmBtu/hr must install,
 814 calibrate, maintain, and operate a ~~CEMS continuous emissions monitoring~~
 815 ~~system~~ on the emission unit for the measurement of NO_x emissions
 816 discharged into the atmosphere in accordance with 40 CFR 60, subpart A
 817 and appendix B, Performance Specifications 2 and 3, and appendix F,
 818 Quality Assurance Procedures, as incorporated by reference in Section
 819 217.104.
 820
 821 4) On and after May 1, 2025, the owner or operator of an industrial boiler
 822 subject to Subpart E of this Part, or a process heater subject to Subpart F

of this Part, with a rated heat input capacity greater than 50 mmBtu/hr but less than or equal to 100 mmBtu/hr must have an initial performance test conducted in accordance with subsection (a)(8)(A) of this Section and Section 217.154, and subsequent performance tests conducted in accordance with subsection (a)(8) of this Section.

54) If demonstrating compliance through an emissions averaging plan, the owner or operator of an industrial boiler subject to Subpart E of this Part, or a process heater subject to Subpart F of this Part, with a rated heat input capacity less than or equal to 100 mmBtu/hr and not demonstrating compliance through a ~~CEMS~~~~continuous emissions monitoring system~~ must have an initial performance test conducted in accordance with~~pursuant to~~ subsection (a)(~~84~~)(~~A~~B) of this Section and Section 217.154, and subsequent performance tests conducted in accordance with subsection (a)(8) of this Section.

~~A) An owner or operator of an industrial boiler or process heater must have subsequent performance tests conducted pursuant to subsection (a)(4)(B) of this Section at least once every five years. When, in the opinion of the Agency or USEPA, it is necessary to conduct testing to demonstrate compliance with Section 217.164 or 217.184, as applicable, the owner or operator of an industrial boiler or process heater must, at his or her own expense, have such test conducted in accordance with the applicable test methods and procedures specified in this Section within 90 days after receipt of a notice to test from the Agency or USEPA.~~

~~B) The owner or operator of an industrial boiler or process heater must have a performance test conducted using 40 CFR 60, subpart A and appendix A, Method 1, 2, 3, 4, 7E, or 19, as incorporated by reference in Section 217.104, or other alternative USEPA methods approved by the Agency. Each performance test must consist of three separate runs, each lasting a minimum of 60 minutes. NO_x emissions must be measured while the industrial boiler is operating at maximum operating capacity or while the process heater is operating at normal maximum load. If the industrial boiler or process heater has combusted more than one type of fuel in the prior year, a separate performance test is required for each fuel. If a combination of fuels is typically used, a performance test may be conducted, with Agency approval, on such combination of fuels typically used. Except as provided under subsection (e) of this Section, this subsection (a)(4)(B) does not apply if such owner or operator is demonstrating compliance with an emissions limitation~~

866 ~~through a continuous emissions monitoring system under~~
 867 ~~subsection (a)(1), (a)(2), (a)(3), or (a)(5) of this Section.~~

869 65) Instead of complying with the requirements of subsection (a) ~~(4) or (54)~~ of
 870 this Section, an owner or operator of an industrial boiler subject to Subpart
 871 E of this Part, or a process heater subject to Subpart F of this Part, with a
 872 rated heat input capacity less than or equal to 100 mmBtu/hr may install
 873 and operate a ~~CEMS continuous emissions monitoring system~~ on ~~the such~~
 874 emission unit in accordance with the applicable requirements of 40 CFR
 875 60, subpart A and appendix B, Performance Specifications 2 and 3, and
 876 appendix F, Quality Assurance Procedures, as incorporated by reference in
 877 Section 217.104. The ~~CEMS continuous emissions monitoring system~~
 878 must be used to demonstrate compliance with the applicable emissions
 879 limitation or emissions averaging plan on an ozone season and annual
 880 basis until May 1, 2025, and a 30-day rolling average on and after May 1,
 881 2025.

883 76) Notwithstanding subsection (a)(2) of this Section, the owner or operator of
 884 an auxiliary boiler subject to Subpart E of this Part with a rated heat input
 885 capacity less than or equal to 250 mmBtu/hr and a capacity factor of less
 886 than or equal to 20% is not required to install, calibrate, maintain, and
 887 operate a ~~CEMS continuous emissions monitoring system~~ on ~~the such~~
 888 boiler for the measurement of NO_x emissions discharged into the
 889 atmosphere, but must conduct initial and subsequent ~~comply with the~~
 890 performance tests in accordance with ~~test requirements under~~ subsection
 891 (a) ~~(84)~~ of this Section.

893 8) All performance tests required by this subsection (a) must be conducted at
 894 the owner or operator's sole expense and must meet the requirements in
 895 subsection (a)(8)(A). All performance tests required by subsection (a)
 896 subsequent to an initial performance test must also meet the requirements
 897 in subsection (a)(8)(B):

899 A) The performance test must be conducted using 40 CFR 60, subpart
 900 A and appendix A, Method 1, 2, 3, 4, 7E, or 19, in appendix A-1,
 901 A-2, A-3, A-4, or A-7, respectively, as incorporated by reference
 902 in Section 217.104, or other alternative USEPA methods approved
 903 by the Agency. Each performance test must consist of three
 904 separate runs, each lasting a minimum of 60 minutes. NO_x
 905 emissions must be measured while the industrial boiler or process
 906 heater is operating at maximum operating capacity or while it is
 907 operating at normal maximum load. If the industrial boiler or
 908 process heater has combusted more than one type of fuel in the

909 prior year, a separate performance test is required for each fuel. If
910 a combination of fuels is typically used, a performance test may be
911 conducted, with Agency approval, on the combination of fuels
912 typically used.

913
914 B) A performance test must be conducted at least once every five
915 years. When, in the opinion of the Agency or USEPA, it is
916 necessary to conduct testing to demonstrate compliance with
917 Section 217.164 or 217.184, as applicable, the owner or operator of
918 an industrial boiler or process heater must have the test conducted
919 in accordance with the applicable test methods and procedures
920 specified in this Section within 90 days after receipt of a notice to
921 test from the Agency or USEPA.

922
923 b) Glass Melting Furnaces; Cement Kilns; Lime Kilns; Iron and Steel Reheat,
924 Annealing, and Galvanizing Furnaces; and Aluminum Reverberatory and
925 Crucible Furnaces

926
927 1) An owner or operator of a glass melting furnace subject to Subpart G of
928 this Part, cement kiln or lime kiln subject to Subpart H of this Part, iron
929 and steel reheat, annealing, or galvanizing furnace subject to Subpart I of
930 this Part, or aluminum reverberatory or crucible furnace subject to Subpart
931 I of this Part that has the potential to emit NO_x in an amount equal to or
932 greater than one ton per day must install, calibrate, maintain, and operate a
933 ~~CEMS continuous emissions monitoring system~~ on ~~the~~ such emission unit
934 for the measurement of NO_x emissions discharged into the atmosphere in
935 accordance with 40 CFR 60, subpart A and appendix B, Performance
936 Specifications 2 and 3, and appendix F, Quality Assurance Procedures, as
937 incorporated by reference in Section 217.104.

938
939 2) An owner or operator of a glass melting furnace subject to Subpart G of
940 this Part, cement kiln or lime kiln subject to Subpart H of this Part, iron
941 and steel reheat, annealing, or galvanizing furnace subject to Subpart I of
942 this Part, or aluminum reverberatory or crucible furnace subject to Subpart
943 I of this Part that has the potential to emit NO_x in an amount less than one
944 ton per day must have an initial performance test conducted pursuant to
945 subsection (b)(4) of this Section and Section 217.154.

946
947 3) An owner or operator of a glass melting furnace subject to Subpart G of
948 this Part, cement kiln or lime kiln subject to Subpart H of this Part, iron
949 and steel reheat, annealing, or galvanizing furnace subject to Subpart I of
950 this Part, or aluminum reverberatory or crucible furnace subject to Subpart
951 I of this Part that has the potential to emit NO_x in an amount less than one

ton per day must have subsequent performance tests conducted pursuant to subsection (b)(4) of this Section as follows:

A) ~~All the~~ ~~For all glass melting furnaces subject to Subpart G of this Part, cement kilns or lime kilns subject to Subpart H of this Part, iron and steel reheat, annealing, or galvanizing furnace subject to Subpart I of this Part, or aluminum reverberatory or crucible furnaces subject to Subpart I of this Part, including all such units,~~ including those that are part of ~~included in~~ an emissions averaging plan, must conduct subsequent performance tests at least once every five years; and

B) When, in the opinion of the Agency or USEPA, it is necessary to conduct testing to demonstrate compliance with Section 217.204, 217.224, or 217.244 of this Part, as applicable, the owner or operator ~~of a glass melting furnace, cement kiln, lime kiln, iron and steel reheat, annealing, or galvanizing furnace, or aluminum reverberatory or crucible furnace~~ must, at his or her own expense, have ~~the~~ such test conducted in accordance with the applicable test methods and procedures specified in this Section within 90 days after receipt of a notice to test from the Agency or USEPA.

4) The owner or operator of a glass melting furnace, cement kiln, or lime kiln must have a performance test conducted using 40 CFR 60, subpart A and ~~appendix A,~~ Methods 1, 2, 3, 4, ~~or~~ and 7E in appendix A-1, A-2, A-3, or A-4, respectively, as incorporated by reference in Section 217.104 of this Part, or other alternative USEPA methods approved by the Agency. The owner or operator of an iron and steel reheat, annealing, or galvanizing furnace, or aluminum reverberatory or crucible furnace must have a performance test conducted using 40 CFR 60, subpart A and ~~appendix A,~~ Method 1, 2, 3, 4, 7E, or 19 in appendix A-1, A-2, A-3, A-4, or A-7, respectively, as incorporated by reference in Section 217.104 of this Part, or other alternative USEPA methods approved by the Agency. Each performance test must consist of three separate runs, each lasting a minimum of 60 minutes. NO_x emissions must be measured while the glass melting furnace, cement kiln, lime kiln, iron and steel reheat, annealing, or galvanizing furnace, or aluminum reverberatory or crucible furnace is operating at maximum ~~operating~~ capacity. If the glass melting furnace, cement kiln, lime kiln, iron and steel reheat, annealing, or galvanizing furnace, or aluminum reverberatory or crucible furnace has combusted more than one type of fuel in the prior year, a separate performance test is required for each fuel. Except as provided under subsection (e) of this Section, this subsection (b)(4) does not apply if

- 995 ~~the~~such owner or operator is demonstrating compliance with an emissions
 996 limitation through a CEMS~~continuous emissions monitoring system~~ under
 997 subsection (b)(1) or (b)(5) of this Section.
 998
- 999 5) Instead of complying with the requirements of subsections (b)(2), (b)(3),
 1000 and (b)(4) of this Section, an owner or operator of a glass melting furnace
 1001 subject to Subpart G of this Part, cement kiln or lime kiln subject to
 1002 Subpart H of this Part, iron and steel reheat, annealing, or galvanizing
 1003 furnace subject to Subpart I of this Part, or aluminum reverberatory or
 1004 crucible furnace subject to Subpart I of this Part that has the potential to
 1005 emit NO_x in an amount less than one ton per day may install and operate a
 1006 CEMS~~continuous emissions monitoring system~~ on ~~the~~such emission unit
 1007 in accordance with the applicable requirements of 40 CFR 60, subpart A
 1008 and appendix B, Performance Specifications 2 and 3, and appendix F,
 1009 Quality Assurance Procedures, as incorporated by reference in Section
 1010 217.104 of this Part. The CEMS~~continuous emissions monitoring system~~
 1011 must be used to demonstrate compliance with the applicable emissions
 1012 limitation or emissions averaging plan on an ozone season and annual
 1013 basis until May 1, 2025, and a 30-day rolling average on and after May 1,
 1014 2025.
 1015
- 1016 c) Fossil Fuel-Fired Stationary Boilers. Until May 1, 2025, the~~The~~ owner or
 1017 operator of a fossil fuel-fired stationary boiler subject to Subpart M of this Part
 1018 must install, calibrate, maintain, and operate a CEMS~~continuous emissions~~
 1019 ~~monitoring system~~ on ~~the~~such emission unit for the measurement of NO_x
 1020 emissions discharged into the atmosphere in accordance with 40 CFR 96, subpart
 1021 H. On and after May 1, 2025, the owner or operator of a fossil fuel-fired
 1022 stationary boiler subject to Subpart M of this Part must install, calibrate, maintain,
 1023 and operate a CEMS on the emission unit for the measurement of NO_x emissions
 1024 discharged into the atmosphere in accordance with 40 CFR 75.
 1025
- 1026 d) Common Stacks. If two or more emission units subject to Subpart E, F, G, H, I,
 1027 M, or Q of this Part are served by a common stack and the owner or operator of
 1028 ~~the~~such emission units is operating a CEMS~~continuous emissions monitoring~~
 1029 ~~system~~, the owner or operator may, with written approval from the Agency,
 1030 use~~utilize~~ a single CEMS~~continuous emissions monitoring system~~ for the
 1031 combination of emission units subject to Subpart E, F, G, H, I, M, or Q of this
 1032 Part that share the common stack, provided ~~the~~such emission units are subject to
 1033 an emissions averaging plan under this Part.
 1034
- 1035 e) Compliance with the ~~continuous emissions monitoring system (CEMS)~~
 1036 requirements by an owner or operator of an emission unit who is required to
 1037 install, calibrate, maintain, and operate a CEMS on the emission unit under

1038 subsection (a)(1), (a)(2), (a)(3), or (b)(1) of this Section, or who has elected to
 1039 comply with the CEMS requirements under subsection (a)(~~6~~5) or (b)(5) of this
 1040 Section, or who has elected to comply with the ~~predictive emission monitoring~~
 1041 ~~system (PEMS)~~ requirements under subsection (f) of this Section, is required by
 1042 the applicable compliance date under Section 217.152 of this Subpart.
 1043

- 1044 f) As an alternative to complying with the requirements of this Section, other than
 1045 the requirements under subsections (a)(1) and (c) of this Section, the owner or
 1046 operator of an emission unit who is not otherwise required by any other statute,
 1047 regulation, or enforceable order to install, calibrate, maintain, and operate a
 1048 CEMS on the emission unit may comply with the specifications and test
 1049 procedures for a ~~predictive emission monitoring system (PEMS)~~ on the emission
 1050 unit for the measurement of NO_x emissions discharged into the atmosphere in
 1051 accordance with the requirements of 40 CFR 60, subpart A and appendix B,
 1052 Performance Specification 16. The PEMS must be used to demonstrate
 1053 compliance with the applicable emissions limitation or emissions averaging plan
 1054 on an ozone season and annual basis until May 1, 2025, and a 30-day rolling
 1055 average on and after May 1, 2025.
 1056

1057 (Source: Amended at 48 Ill. Reg. _____, effective _____)
 1058

1059 **Section 217.158 Emissions Averaging Plans**
 1060

- 1061 a) Notwithstanding any other emissions averaging plan provisions under this Part, an
 1062 owner or operator of a source with certain emission units subject to Subpart E, F,
 1063 G, H, I, or M of this Part, or subject to Subpart Q of this Part that are located in
 1064 either one of the areas set forth under Section 217.150(a)(1)(A)(i) or (ii) or
 1065 Section 217.150(a)(2)(A)(i) or (ii), may demonstrate compliance with the
 1066 applicable Subpart through an emissions averaging plan. An emissions averaging
 1067 plan can only address emission units that are located at one source and each unit
 1068 may only be covered by one emissions averaging plan. ~~TheSuch~~ emission units at
 1069 the source are affected units and are subject to the requirements of this Section.
 1070

- 1071 1) The following units may be included in an emissions averaging plan:
 1072

1073 A) Units that commenced operation on or before January 1, 2002.
 1074

1075 B) Before My 1, 2025, units~~Units~~ that the owner or operator may
 1076 claim as exempt under~~pursuant to~~ Section 217.162, 217.182,
 1077 217.202, 217.222, 217.242, or 217.342 of this Part, as applicable,
 1078 but does not claim exempt. For as long as ~~theSuch~~ a unit is
 1079 included in an emissions averaging plan, it will be treated as an

1080 affected unit and subject to the applicable emissions limitations,
 1081 and testing, monitoring, recordkeeping and reporting requirements.
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1083 C) On and after May 1, 2025, units that are not otherwise subject to
 1084 Subpart E, F, G, H, I, or M, as applicable, under Section
 1085 217.150(a)(2)(B), but that the owner or operator chooses to include
 1086 in an emissions averaging plan. For as long as the a unit is
 1087 included in an emissions averaging plan, it will be treated as an
 1088 affected unit and subject to the applicable emissions limitations,
 1089 testing, monitoring, recordkeeping and reporting requirements.
 1090

1091 D~~E~~) Units that commence operation after January 1, 2002, if the unit
 1092 replaces a unit that commenced operation on or before January 1,
 1093 2002, or it replaces a unit that replaced a unit that commenced
 1094 operation on or before January 1, 2002. The new unit must be
 1095 used for the same purpose and have substantially equivalent or less
 1096 process capacity or be permitted for less NO_x emissions on an
 1097 annual basis than the actual NO_x emissions of the unit or units that
 1098 are replaced. Within 90 days after permanently shutting down a
 1099 unit that is replaced, the owner or operator of ~~the such~~ unit must
 1100 submit a written request to withdraw or amend the applicable
 1101 permit to reflect that the unit is no longer in service before the
 1102 replacement unit may be included in an emissions averaging plan.
 1103

1104 2) The following types of units may not be included in an emissions
 1105 averaging plan:
 1106

1107 A) Units that commence operation after January 1, 2002, except as
 1108 provided by subsection (a)(1)~~D~~~~E~~) of this Section.
 1109

1110 B) Before May 1, 2025, units~~Units~~ that the owner or operator is
 1111 claiming are exempt ~~under pursuant to~~ Section 217.162, 217.182,
 1112 217.202, 217.222, 217.242, or 217.342 of this Part, as applicable.
 1113

1114 C) Units that are required to meet emission limits or control
 1115 requirements for NO_x as provided for in an enforceable order,
 1116 unless the order allows for emissions averaging. In the case of
 1117 petroleum refineries, this subsection (a)(2)(C) does not prohibit
 1118 including industrial boilers or process heaters, or both, in an
 1119 emissions averaging plan when an enforceable order does not
 1120 prohibit the reductions made under the order from also being used
 1121 for compliance with any rules or regulations designed to address
 1122 regional haze or the non-attainment status of any area.

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- b) Before May 1, 2025, an~~An~~ owner or operator must submit an emissions averaging plan to the Agency by January 1, 2015. The plan must include, but is not limited to, the following:
 - 1) The list of affected units included in the plan by unit identification number; and
 - 2) A sample calculation demonstrating compliance using the methodology provided in subsection (~~g~~f) of this Section for the ozone season (May 1 through September 30) and calendar year (January 1 through December 31).

- c) On and after May 1, 2025, an owner or operator must submit an emissions averaging plan to the Agency at least 30 days before beginning the use of that plan to demonstrate compliance. The plan must include, but is not limited to, the following:
 - 1) The list of affected units included in the plan by unit identification number.
 - 2) The allowable emissions limitation for each unit, as provided in Sections 217.164, 217.184, 217.204, 217.224, 217.244, and 217.344 of this Part, as applicable.
 - 3) A sample calculation demonstrating compliance using the methodology provided in subsection (h) of this Section on a 30-day rolling average basis.
 - 4) The date the owner or operator will begin using the emissions averaging plan.

- ~~d~~e) An owner or operator may amend an emissions averaging plan only once per calendar year. ~~Such an amended plan must be submitted to the Agency by January 1 of the applicable calendar year. If an amended plan is not received by the Agency by January 1 of the applicable calendar year, the previous year's plan will be the applicable emissions averaging plan.~~

- ~~e~~d) Notwithstanding subsection (~~d~~e) of this Section:
 - 1) If a unit that is listed in an emissions averaging plan is taken out of service, the owner or operator must submit to the Agency, within 30 days after ~~the~~such occurrence, an updated emissions averaging plan; or

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- 2) Before May 1, 2025, if a unit that was exempt from the requirements of Subpart E, F, G, H, I, or M of this Part ~~underpursuant to~~ Section 217.162, 217.182, 217.202, 217.222, 217.242, or 217.342 of this Part, as applicable, no longer qualifies for an exemption, the owner or operator may amend its existing averaging plan to include ~~thesuch~~ unit within 30 days after the unit no longer qualifies for the exemption.
- 3) On and after May 1, 2025, if a unit that was not otherwise subject to Subpart E, F, G, H, I, or M, as applicable, under Section 217.150(a)(2)(B) becomes subject to Subpart E, F, G, H, I, or M, as applicable, the owner or operator may amend its existing averaging plan to include the unit within 30 days after the unit becomes subject to the applicable Subpart.

fe) An owner or operator must:

- 1) Until May 1, 2025, demonstrate~~Demonstrate~~ compliance for the ozone season (May 1 through September 30) and the calendar year (January 1 through December 31) by using the methodology and the units listed in the most recent emissions averaging plan submitted to the Agency ~~underpursuant to~~ subsection (b) of this Section, the monitoring data or test data determined ~~underpursuant to~~ Section 217.157, and the actual hours of operation for the applicable averaging plan period.~~;~~~~and~~
- 2) On and after May 1, 2025, demonstrate compliance on a 30-day rolling average basis by using the methodology and the units listed in the most recent emissions averaging plan submitted to the Agency under subsection (c) of this Section, the monitoring data or test data determined under Section 217.157, and the actual hours of operation for the applicable averaging plan period.
- 3) Until May 1, 2025, submit~~Submit~~ to the Agency, by March 1 following each calendar year, a compliance report containing the information required by Section 217.156(i). On and after May 1, 2025, submit to the Agency, by March 1 following each calendar year, a compliance report containing the information required by Section 217.156(j).

gf) Until May 1, 2025, the~~The~~ total mass of actual NO_x emissions from the units listed in the emissions averaging plan must be equal to or less than the total mass of allowable NO_x emissions for those units for both the ozone season and calendar year. The following equation must be used to determine compliance:

$$N_{act} \leq N_{all}$$

Where:

$$N_{act} = \sum_{i=1}^n \sum_{j=1}^k EM_{act(i,j)}$$

$$N_{all} = \sum_{i=1}^n \sum_{j=1}^k EM_{all(i,j)}$$

N_{act} = Total sum of the actual NO_x mass emissions from units included in the averaging plan for each fuel used (tons per ozone season and year).

N_{all} = Total sum of the allowable NO_x mass emissions from units included in the averaging plan for each fuel used (tons per ozone season and year).

$EM_{act(i)}$ = Total mass of actual NO_x emissions in tons for a unit as determined in subsection (f)(1) of this Section.

i = Subscript denoting an individual unit.

j = Subscript denoting the fuel type used.

k = Number of different fuel types.

n = Number of different units in the averaging plan.

$EM_{all(i)}$ = Total mass of allowable NO_x emissions in tons for a unit as determined in subsection (g)(2) of this Section.

For each unit in the averaging plan, and each fuel used by ~~the~~ ~~such~~ unit, determine actual and allowable NO_x emissions using the following equations:

1) Actual emissions must be determined as follows:

When emission limits are prescribed in lb/mmBtu,

$$EM_{act(i)} = EM_{act(i)} x^{H_i} / 2000$$

When emission limits are prescribed in lb/ton of processed product,

$$EM_{act(i)} = EM_{act(i)} x^{P_i} / 2000$$

1228 2) Allowable emissions must be determined as follows:

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1230 When emission limits are prescribed in lb/mmBtu,

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$$EM_{all(i)} = E_{all(i)} x^{H_i} / 2000$$

1233
1234 When emission limits are prescribed in lb/ton of processed product,

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1236
$$EM_{all(i)} = EM_{all(i)} x^{P_i} / 2000$$

1237
1238 Where:

$EM_{act(i)}$ = Total mass of actual NO_x emissions in tons for a unit.

$EM_{all(i)}$ = Total mass of allowable NO_x emissions in tons for a unit.

E_{act} = Actual NO_x emission rate (lbs/mmBtu or lbs/ton of product) as determined by a performance test, a CEMS ~~continuous emissions monitoring system~~, or an alternative method approved by the Agency.

E_{all} = Allowable NO_x emission rate (lbs/mmBtu or lbs/ton of product) as provided in Section 217.164, 217.184, 217.204, 217.224, 217.244, or 217.344, as applicable. For an affected industrial boiler subject to Subpart E of this Part, or process heater subject to Subpart F of this Part, with a rated heat input capacity less than or equal to 100 mmBtu/hr demonstrating compliance through an emissions averaging plan, the allowable NO_x emission rate is to be determined from a performance test after ~~the~~ boiler or heater has undergone combustion tuning. For all other units in an emissions averaging plan, an uncontrolled NO_x emission rate from USEPA's AP-42, as incorporated by reference in Section 217.104, or an uncontrolled NO_x emission rate as determined by an alternative method approved by the Agency, will be used.

H = Heat input (mmBtu/ozone season or mmBtu/year) calculated from fuel flow meter and the heating value of the fuel used.

P = weight in tons of processed product.

1242 h) On and after May 1, 2025, the total mass of actual NO_x emissions from the units
 1243 listed in the emissions averaging plan must be equal to or less than the total mass
 1244 of allowable NO_x emissions for those units on a 30-day rolling average basis. The
 1245 following equation must be used to determine compliance:

$$N_{act} \leq 0.9N_{all}$$

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 1247
 1248 Where:

$$N_{act} \equiv \sum_{i=1}^n \sum_{j=1}^k EM_{act(i,j)}$$

1249 Where N_{act} is the total sum of the actual NO_x mass
 1250 emissions from units included in the averaging plan for
each fuel used (tons per 30-day rolling average basis).

$$N_{all} \equiv \sum_{i=1}^n \sum_{j=1}^k EM_{all(i,j)}$$

Where N_{all} is the total sum of the allowable NO_x mass
emissions from units included in the averaging plan for
each fuel used (tons per 30-day rolling average basis).

$EM_{act(i)}$ \equiv Total mass of actual NO_x emissions in tons for a unit as
determined in subsection (h)(1) of this Section.

i \equiv Subscript denoting an individual unit.

j \equiv Subscript denoting the fuel type used.

k \equiv Number of different fuel types.

n \equiv Number of different units in the averaging plan.

$EM_{all(i)}$ \equiv Total mass of allowable NO_x emissions in tons for a unit
as determined in subsection (h)(2) of this Section.

1251
 1252 For each unit in the averaging plan, and each fuel used by the unit, determine
 1253 actual and allowable NO_x emissions using the following equations:

1254
 1255 1) Actual emissions must be determined as follows:

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 1257 When emissions limitations are prescribed in lb/mmBtu,

$$EM_{act(i)} = E_{act(i)} x^{P_i} / 2000$$

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 1261 When emissions limitations are prescribed in lb/ton of processed product,
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$$EM_{act(i)} = E_{act(i)} x^{P_i} / 2000$$

2) Allowable emissions must be determined as follows:

When emissions limitations are prescribed in lb/mmBtu,

$$EM_{all(i)} = E_{all(i)} x^{H_i} / 2000$$

When emissions limitations are prescribed in lb/ton of processed product,

$$EM_{all(i)} = E_{all(i)} x^{P_i} / 2000$$

Where:

$EM_{act(i)}$ \equiv Total mass of actual NO_x emissions in tons for a unit.

$EM_{all(i)}$ \equiv Total mass of allowable NO_x emissions in tons for a unit.

E_{act} \equiv Actual NO_x emission rate (lbs/mmBtu or lbs/ton of product) as determined by a performance test, a CEMS, a PEMS, or an alternative method approved by the Agency.

E_{all} \equiv Allowable NO_x emission rate (lbs/mmBtu or lbs/ton of product) as provided in Section 217.164, 217.184, 217.204, 217.224, 217.244, or 217.344, as applicable. For an affected industrial boiler subject to Subpart E of this Part, or process heater subject to Subpart F of this Part, with a rated heat input capacity less than or equal to 100 mmBtu/hr demonstrating compliance through an emissions averaging plan, the allowable NO_x emission rate is to be determined from a performance test after the boiler or heater has undergone combustion tuning. For all other units in an emissions averaging plan, an uncontrolled NO_x emission rate from USEPA's AP-42, as incorporated by reference in Section 217.104, or an uncontrolled NO_x emission rate as determined by an alternative method approved by the Agency, will be used.

H \equiv Heat input (mmBtu/30-day rolling average basis) calculated from fuel flow meter and the heating value of the fuel used.

P ≡ weight in tons of processed product.

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- i.g) An owner or operator of an emission unit subject to Subpart Q of this Part that is located in either one of the areas set forth under Section 217.150(a)(1)(A)(i) or (ii) or Section 217.150(a)(2)(A)(i) or (ii) that is complying through an emissions averaging plan under this Section must comply with the applicable provisions for determining actual and allowable emissions under Section 217.390, the testing and monitoring requirements under Section 217.394, and the recordkeeping and reporting requirements under Section 217.396.

- h) Until May 1, 2025, the~~The~~ owner or operator of an emission unit located at a petroleum refinery who is demonstrating compliance with an applicable Subpart through an emissions averaging plan under this Section may exclude from the calculation demonstrating compliance those time periods when an emission unit included in the emissions averaging plan is shut down for a maintenance turnaround, provided that ~~the~~such owner or operator notify the Agency in writing at least 30 days in advance of the shutdown of the emission unit for the maintenance turnaround and the shutdown of the emission unit does not exceed 45 days per ozone season or calendar year and NO_x pollution control equipment, if any, continues to operate on all other emission units operating during the maintenance turnaround.

- i) Until May 1, 2025, the~~The~~ owner or operator of an emission unit that combusts a combination of coke oven gas and other gaseous fuels and that is located at a source that manufactures iron and steel who is demonstrating compliance with an applicable Subpart through an emissions averaging plan under this Section may exclude from the calculation demonstrating compliance those time periods when the coke oven gas desulfurization unit included in the emissions averaging plan is shut down for maintenance, provided that ~~the~~such owner or operator notify the Agency in writing at least 30 days in advance of the shutdown of the coke oven gas desulfurization unit for maintenance and ~~the~~such shutdown does not exceed 35 days per ozone season or calendar year and NO_x pollution control equipment, if any, continues to operate on all other emission units operating during the maintenance period.

- j) Until May 1, 2025, the~~The~~ owner or operator of an emission unit located at a petroleum refinery who is demonstrating compliance with an applicable Subpart through an emissions averaging plan under this Section may exclude from the calculation demonstrating compliance those time periods when NO_x pollution control equipment that controls one or more emission units included in the emissions averaging plan is shut down for a maintenance turnaround, provided that:

- 1319 1) the owner or operator notify the Agency in writing, at least 30 days in
1320 advance of the shutdown, of the NO_x pollution control equipment for the
1321 maintenance turnaround;
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1323 2) the shutdown of the NO_x pollution control equipment does not exceed 45
1324 days per ozone season or calendar year; and
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1326 3) except for those emission units vented to the NO_x pollution control
1327 equipment undergoing the maintenance turnaround, NO_x pollution control
1328 equipment, if any, continues to operate on all other emission units
1329 operating during the maintenance turnaround.
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1331 (Source: Amended at 48 Ill. Reg. _____, effective _____)
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1333 SUBPART E: INDUSTRIAL BOILERS

1334 **Section 217.160 Applicability Exemptions**

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1337 ~~a) The provisions of Subpart D of this Part and this Subpart apply to all industrial~~
1338 ~~boilers located at sources subject to this Subpart pursuant to Section 217.150,~~
1339 ~~except as provided in subsections (b) and (c) of this Section.~~
1340
1341 ab) The provisions of this Subpart do not apply to boilers serving a generator that has
1342 a nameplate capacity greater than 25 MWe and produces electricity for sale, if
1343 ~~the~~such boilers meet the applicability criteria under Subpart M of this Part.
1344
1345 be) The provisions of this Subpart do not apply to fluidized catalytic cracking units,
1346 their regenerator and associated CO boiler or boilers and CO furnace or furnaces
1347 where present, if ~~the~~such units are located at a petroleum refinery and ~~the~~such
1348 units are required to meet emission limits or control requirements for NO_x as
1349 provided for in an enforceable order.
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1351 c) Before May 1, 2025, the provisions of this Subpart do not apply to an industrial
1352 boiler operating under a federally enforceable limit of NO_x emissions from the
1353 boiler to less than 15 tons per year and less than five tons per ozone season.
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1355 (Source: Amended at 48 Ill. Reg. _____, effective _____)
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1357 **Section 217.162 Exemptions (Repealed)**

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1359 ~~Notwithstanding Section 217.160 of this Subpart, the provisions of this Subpart do not apply to~~
1360 ~~an industrial boiler operating under a federally enforceable limit of NO_x emissions from such~~
1361 ~~boiler to less than 15 tons per year and less than five tons per ozone season.~~

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(Source: Repealed at 48 Ill. Reg. _____, effective _____)

Section 217.164 Emissions Limitations

- a) Except as provided for under Section 217.152, on and after January 1, 2015, no person shall cause or allow emissions of NO_x into the atmosphere from any industrial boiler to exceed the following limitations. Until May 1, 2025, compliance ~~Compliance~~ must be demonstrated with the applicable emissions limitation on an ozone season and annual basis. On and after May 1, 2025, compliance must be demonstrated with the applicable emissions limitation on a 30-day rolling average basis.

Fuel	Emission Unit Type and Rated Heat Input Capacity (mmBtu/hr)	NO _x Emissions Limitation (lb/mmBtu) or Requirement <u>Before May 1, 2025</u>
Natural Gas or Other Gaseous Fuels	Industrial boiler greater than 100	0.08
	Industrial boiler less than or equal to 100	Combustion tuning
Distillate Fuel Oil	Industrial boiler greater than 100	0.10
	Industrial boiler less than or equal to 100	Combustion tuning
Other Liquid Fuels	Industrial boiler greater than 100	0.15
	Industrial boiler less than or equal to 100	Combustion tuning
Solid Fuel	Industrial boiler greater than 100, circulating fluidized bed combustor	0.12
	Industrial boiler greater than 250	0.18

Industrial boiler greater than 100 but less than or equal to 250 0.25

Industrial boiler less than or equal to 100 Combustion tuning

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<u>Fuel</u>	<u>NO_x Emission Unit Type and Rated Heat Input Capacity (mmBtu/hr)</u>	<u>Limitation (lb/mmBtu) or Requirement On and after May 1, 2025</u>
<u>Natural Gas or Other Gaseous Fuels</u>	<u>Industrial boiler greater than 50</u>	<u>0.08</u>
	<u>Industrial boiler less than or equal to 50</u>	<u>Combustion tuning</u>
<u>Distillate Fuel Oil</u>	<u>Industrial boiler greater than 50</u>	<u>0.10</u>
	<u>Industrial boiler less than or equal to 50</u>	<u>Combustion tuning</u>
<u>Other Liquid Fuels</u>	<u>Industrial boiler greater than 50</u>	<u>0.15</u>
	<u>Industrial boiler less than or equal to 50</u>	<u>Combustion tuning</u>
<u>Solid Fuel</u>	<u>Industrial boiler greater than 50, circulating fluidized bed combustor</u>	<u>0.10</u>
	<u>Industrial boiler greater than 250</u>	<u>0.15</u>
	<u>Industrial boiler greater than 50 but less than or equal to 250</u>	<u>0.20</u>
	<u>Industrial boiler less than or equal to 50</u>	<u>Combustion tuning</u>

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- b) For an industrial boiler combusting a combination of natural gas, coke oven gas, and blast furnace gas, the NO_x emissions limitation ~~must~~shall be calculated using the following equation:

$$\text{NO}_x \text{ emissions limitation for period in lb/mmBtu} = \frac{(NO_{xNG} * Btu_{NG}) + (NO_{xCOG} * Btu_{COG}) + (NO_{xBFG} * Btu_{BFG})}{Btu_{NG} + Btu_{COG} + Btu_{BFG}}$$

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Where:

- NO_{xNG} = 0.084 lb/mmBtu for natural gas
- Btu_{NG} = the heat input of natural gas in Btu over that period
- NO_{xCOG} = 0.144 lb/mmBtu for coke oven gas
- Btu_{COG} = the heat input of coke oven gas in Btu over that period
- NO_{xBFG} = 0.0288 lb/mmBtu for blast furnace gas
- Btu_{BFG} = the heat input of blast furnace gas in Btu over that period

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(Source: Amended at 48 Ill. Reg. _____, effective _____)

Section 217.166 Methods and Procedures for Combustion Tuning

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- a) ~~Until May 1, 2025, the~~The owner or operator of an industrial boiler subject to the combustion tuning requirements of Section 217.164 must have combustion tuning performed on the boiler at least annually. The combustion tuning must be performed by an employee of the owner or operator or a contractor who has successfully completed a training course on the combustion tuning of boilers firing the fuel or fuels that are fired in the boiler. The owner or operator must maintain the following records that must be made available to the Agency upon request:

- 1a) The date the combustion tuning was performed;
- 2b) The name, title, and affiliation of the person who performed the combustion tuning;

- 1403 3e) Documentation demonstrating the provider of the combustion tuning
1404 training course, the dates the training course was taken, and proof of
1405 successful completion of the training course;
- 1406
- 1407 4d) Tune-up procedure followed and checklist of items (such as burners, flame
1408 conditions, air supply, scaling on heating surface, etc.) inspected prior to
1409 the actual tune-up; and
- 1410
- 1411 5e) Operating parameters recorded at the start and at conclusion of
1412 combustion tuning.
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- 1414 b) On and after May 1, 2025, the owner or operator of an industrial boiler subject to
1415 the combustion tuning requirements of Section 217.164 must have combustion
1416 tuning performed on the boiler at least annually. The combustion tuning must be
1417 performed in accordance with 40 CFR 63.7540(a)(10)(i) through (vi), as
1418 incorporated by reference in Section 217.104.
- 1419

1420 (Source: Amended at 48 Ill. Reg. _____, effective _____)

1421 SUBPART F: PROCESS HEATERS

1422 **Section 217.180 Applicability Exemptions**

1423

1424 Before May 1, 2025, the provisions of this Subpart do not apply to a process heater operating
1425 under a federally enforceable limit of NO_x emissions from the heater to less than 15 tons per year
1426 and less than five tons per ozone season. ~~The provisions of Subpart D of this Part and this Subpart~~
1427 ~~apply to all process heaters located at sources subject to this Subpart pursuant to Section~~
1428 ~~217.150.~~

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1431 (Source: Amended at 48 Ill. Reg. _____, effective _____)

1432 **Section 217.182 Exemptions (Repealed)**

1433

1434 Notwithstanding Section 217.180, the provisions of this Subpart do not apply to a process heater
1435 operating under a federally enforceable limit of NO_x emissions from such heater to less than 15
1436 tons per year and less than five tons per ozone season.

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1439 (Source: Repealed at 48 Ill. Reg. _____, effective _____)

1440 **Section 217.184 Emissions Limitations**

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1442 Except as provided for under Section 217.152, on or after January 1, 2015, no person shall cause
1443 or allow emissions of NO_x into the atmosphere from any process heater to exceed the following
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1446 limitations. Until May 1, 2025, compliance~~Compliance~~ must be demonstrated with the
 1447 applicable emissions limitation on an ozone season and annual basis. On and after May 1, 2025,
 1448 compliance must be demonstrated with the applicable emissions limitation on a 30-day rolling
 1449 average basis.
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<u>Fuel</u>	<u>Emission Unit Type and Rated Heat Input Capacity (mmBtu/hr)</u>	<u>NO_x Emissions Limitation (lb/mmBtu) or Requirement Before May 1, 2025</u>
Natural Gas or Other Gaseous Fuels	Process heater greater than 100	0.08
	Process heater less than or equal to 100	Combustion tuning
Residual Fuel Oil	Process heater greater than 100, natural draft	0.10
	Process heater greater than 100, mechanical draft	0.15
Other Liquid Fuels	Process heater less than or equal to 100	Combustion tuning
	Process heater greater than 100, natural draft	0.05
	Process heater greater than 100, mechanical draft	0.08
	Process heater less than or equal to 100	Combustion tuning

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<u>Fuel</u>	<u>Emission Unit Type and Rated Heat Input Capacity (mmBtu/hr)</u>	<u>NO_x Emissions Limitation (lb/mmBtu) or Requirement On and after May 1, 2025</u>
<u>Natural Gas or Other Gaseous Fuels</u>	<u>Process heater greater than 50</u>	<u>0.08</u>
	<u>Process heater less than or equal to 50</u>	<u>Combustion tuning</u>

<u>dual Fuel Oil</u>	<u>Process heater greater than 50, natural draft</u>	<u>0.10</u>
	<u>Process heater greater than 50, mechanical draft</u>	<u>0.15</u>
	<u>Process heater less than or equal to 50</u>	<u>Combustion tuning</u>
<u>er Liquid Fuels</u>	<u>Process heater greater than 50, natural draft</u>	<u>0.05</u>
	<u>Process heater greater than 50, mechanical draft</u>	<u>0.08</u>
	<u>Process heater less than or equal to 50</u>	<u>Combustion tuning</u>

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(Source: Amended at 48 Ill. Reg. _____, effective _____)

Section 217.186 Methods and Procedures for Combustion Tuning

- a) ~~Until May 1, 2025, the~~The owner or operator of a process heater subject to the combustion tuning requirements of Section 217.184 must have combustion tuning performed on the heater at least annually. The combustion tuning must be performed by an employee of the owner or operator or a contractor who has successfully completed a training course on the combustion tuning of heaters firing the fuel or fuels that are fired in the heater. The owner or operator must maintain the following records that must be made available to the Agency upon request:
 - 1a) The date the combustion tuning was performed;
 - 2b) The name, title, and affiliation of the person who performed the combustion tuning;
 - 3e) Documentation demonstrating the provider of the combustion tuning training course, the dates the training course was taken, and proof of successful completion of the training course;
 - 4d) Tune-up procedure followed and checklist of items (such as burners, flame conditions, air supply, scaling on heating surface, etc.) inspected prior to the actual tune-up; and

1479 5e) Operating parameters recorded at the start and at conclusion of
1480 combustion tuning.

1481
1482 b) On and after May 1, 2025, the owner or operator of a process heater subject to the
1483 combustion tuning requirements of Section 217.184 must have combustion tuning
1484 performed on the heater at least annually. The combustion tuning must be
1485 performed in accordance with 40 CFR 63.7540(a)(10)(i) through (vi), as
1486 incorporated by reference in Section 217.104.

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1488 (Source: Amended at 48 Ill. Reg. _____, effective _____)
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1490 SUBPART G: GLASS MELTING FURNACES

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1492 **Section 217.200 Applicability Exemptions**

1493
1494 Before May 1, 2025, the provisions of this Subpart do not apply to a glass melting furnace
1495 operating under a federally enforceable limit of NO_x emissions from the furnace to less than 15
1496 tons per year and less than five tons per ozone season.~~The provisions of Subpart D of this Part~~
1497 ~~and this Subpart apply to all glass melting furnaces located at sources subject to this Subpart~~
1498 ~~pursuant to Section 217.150.~~

1499
1500 (Source: Amended at 48 Ill. Reg. _____, effective _____)
1501

1502 **Section 217.202 Exemptions (Repealed)**

1503
1504 ~~Notwithstanding Section 217.200, the provisions of this Subpart do not apply to a glass melting~~
1505 ~~furnace operating under a federally enforceable limit of NO_x emissions from such furnace to less~~
1506 ~~than 15 tons per year and less than five tons per ozone season.~~

1507
1508 (Source: Repealed at 48 Ill. Reg. _____, effective _____)
1509

1510 **Section 217.204 Emissions Limitations**

1511
1512 a) On and after January 1, 2015, no person shall cause or allow emissions of NO_x
1513 into the atmosphere from any glass melting furnace to exceed the following
1514 limitations. Until May 1, 2025, compliance~~Compliance~~ must be demonstrated
1515 with the emissions limitation on an ozone season and annual basis. On and after
1516 May 1, 2025, compliance must be demonstrated with the applicable emissions
1517 limitation on a 30-day rolling average basis.

1518

Product	Emission Unit Type	NO _x Emissions Limitation (lb/ton glass produced)
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Before May 1, 2025

Container Glass	Glass melting furnace	5.0
Flat Glass	Glass melting furnace	7.9
Other Glass	Glass melting furnace	11.0

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<u>Product</u>	<u>Emission Unit Type</u>	<u>NO_x Emissions Limitation (lb/ton glass produced) On and after May 1, 2025</u>
<u>Container Glass</u>	<u>Glass melting furnace</u>	<u>4.0</u>
<u>Flat Glass</u>	<u>Glass melting furnace</u>	<u>7.0</u>
<u>Other Glass</u>	<u>Glass melting furnace</u>	<u>4.0</u>

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- b) Before May 1, 2025, the ~~The~~ emissions during glass melting furnace startup (not to exceed 70 days) or furnace idling (operation at less than 35% of furnace capacity) ~~will~~ shall be excluded from calculations for the purpose of demonstrating compliance with the seasonal and annual emissions limitations under this Section, provided that the owner or operator, at all times, including periods of startup and idling, to the extent practicable, maintain and operate any affected emission unit, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. The owner or operator of a glass melting furnace must maintain records that include the date, time, and duration of any startup or idling in the operation of the glass melting furnace.

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(Source: Amended at 48 Ill. Reg. _____, effective _____)

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SUBPART H: CEMENT AND LIME KILNS

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Section 217.220 Applicability Exemptions

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Before May 1, 2025, the provisions of this Subpart do not apply to a cement kiln or lime kiln operating under a federally enforceable limit of NO_x emissions from the kiln to less than 15 tons per year and less than five tons per ozone season.

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- a) ~~Notwithstanding Subpart T of this Part, the provisions of Subpart D of this Part and this Subpart apply to all cement kilns located at sources subject to this Subpart pursuant to Section 217.150.~~
- b) ~~The provisions of Subpart D of this Part and this Subpart apply to all lime kilns located at sources subject to this Subpart pursuant to Section 217.150.~~

(Source: Amended at 48 Ill. Reg. _____, effective _____)

Section 217.222 Exemptions (Repealed)

~~Notwithstanding Section 217.220, the provisions of this Subpart do not apply to a cement kiln or lime kiln operating under a federally enforceable limit of NO_x emissions from such kiln to less than 15 tons per year and less than five tons per ozone season.~~

(Source: Repealed at 48 Ill. Reg. _____, effective _____)

Section 217.224 Emissions Limitations

- a) On and after January 1, 2015, no person shall cause or allow emissions of NO_x into the atmosphere from any cement kiln to exceed the following limitations. Until May 1, 2025, compliance ~~Compliance~~ must be demonstrated with the applicable emissions limitation on an ozone season and annual basis. On and after May 1, 2025, compliance must be demonstrated with the applicable emissions limitation on a 30-day rolling average basis.

Emission Unit Type	NO _x Emissions Limitation (lb/ton clinker produced)
	<u>Before May 1, 2025</u>
Long dry kiln	5.1
Short dry kiln	5.1
Preheater kiln	3.8
Preheater/precalciner kiln	2.8

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Emission Unit Type	NO _x Emissions Limitation (lb/ton clinker produced)
	<u>On and after May 1, 2025</u>
<u>Long dry kiln</u>	<u>3.0</u>
<u>Short dry kiln</u>	<u>2.3</u>

Preheater kiln 3.8

Preheater/precalciner kiln 2.8

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- b) On and after January 1, 2015, no person shall cause or allow emissions of NO_x into the atmosphere from any lime kiln to exceed the following limitations. Until May 1, 2025, compliance ~~Compliance~~ must be demonstrated with the applicable emissions limitation on an ozone season and annual basis. On and after May 1, 2025, compliance must be demonstrated with the applicable emissions limitation on a 30-day rolling average basis.

Fuel	Emission Unit Type	NO _x Emissions Limitation (lb/ton lime produced)
Gas	Rotary kiln	2.2
Coal	Rotary kiln	2.5

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(Source: Amended at 48 Ill. Reg. _____, effective _____)

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SUBPART I: IRON AND STEEL AND ALUMINUM MANUFACTURING

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Section 217.240 Applicability Exemptions

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Before May 1, 2025, the provisions of this Subpart do not apply to an iron and steel reheat furnace, annealing furnace, or galvanizing furnace, or aluminum reverberatory furnace or crucible furnace operating under a federally enforceable limit of NO_x emissions from the furnace to less than 15 tons per year and less than five tons per ozone season.

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- ~~a) The provisions of Subpart D of this Part and this Subpart apply to all reheat furnaces, annealing furnaces, and galvanizing furnaces used in iron and steel making located at sources subject to this Subpart pursuant to Section 217.150.~~

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- ~~b) The provisions of Subpart D of this Part and this Subpart apply to all reverberatory furnaces and crucible furnaces used in aluminum melting located at sources subject to this Subpart pursuant to Section 217.150.~~

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(Source: Amended at 48 Ill. Reg. _____, effective _____)

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Section 217.242 Exemptions (Repealed)

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~~Notwithstanding Section 217.240, the provisions of this Subpart do not apply to an iron and steel reheat furnace, annealing furnace, or galvanizing furnace, or aluminum reverberatory furnace or~~

1604 ~~crucible furnace operating under a federally enforceable limit of NO_x emissions from such~~
 1605 ~~furnace to less than 15 tons per year and less than five tons per ozone season.~~

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 1607 (Source: Repealed at 48 Ill. Reg. _____, effective _____)
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1609 **Section 217.244 Emissions Limitations**

1610
 1611 a) On and after January 1, 2015, no person shall cause or allow emissions of NO_x
 1612 into the atmosphere from any reheat furnace, annealing furnace, or galvanizing
 1613 furnace used in iron and steel making to exceed the following limitations. Until
 1614 May 1, 2025, compliance~~Compliance~~ must be demonstrated with the applicable
 1615 emissions limitation on an ozone season and annual basis. On and after May 1,
 1616 2025, compliance must be demonstrated with the applicable emissions limitation
 1617 on a 30-day rolling average basis.
 1618

Emission Unit Type	<u>NO_x Emissions Limitation (lb/mmBtu) Before May 1, 2025</u>
Reheat furnace, regenerative	0.18
Reheat furnace, recuperative, combusting natural gas	0.09
Reheat furnace, recuperative, combusting a combination of natural gas and coke oven gas	0.142
Reheat furnace, cold-air	0.03
Annealing furnace, regenerative	0.38
Annealing furnace, recuperative	0.16
Annealing furnace, cold-air	0.07
Galvanizing furnace, regenerative	0.46
Galvanizing furnace, recuperative	0.16
Galvanizing furnace, cold air	0.06

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<u>Emission Unit Type</u>	<u>NO_x Emissions Limitation (lb/mmBtu) On and after May 1, 2025</u>
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<u>Reheat furnace, cold air</u>	<u>0.03</u>
<u>Reheat furnace, regenerative and recuperative</u>	<u>0.09</u>
<u>Annealing furnace, cold air</u>	<u>0.07</u>
<u>Annealing furnace, regenerative and recuperative</u>	<u>0.08</u>
<u>Galvanizing furnace, cold air</u>	<u>0.06</u>
<u>Galvanizing furnace, regenerative and recuperative</u>	<u>0.08</u>

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- b) On and after January 1, 2015, no person shall cause or allow emissions of NO_x into the atmosphere from any reverberatory furnace or crucible furnace used in aluminum melting to exceed the following limitations. Until May 1, 2025, compliance~~Compliance~~ must be demonstrated with the applicable emissions limitation on an ozone season and annual basis. On and after May 1, 2025, compliance must be demonstrated with the applicable emissions limitation on a 30-day rolling average basis.

<u>Emission Unit Type</u>	<u>NO_x Emissions Limitation (lb/mmBtu)</u>
Reverberatory furnace	0.08
Crucible furnace	0.16

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(Source: Amended at 48 Ill. Reg. _____, effective _____)

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SUBPART M: ELECTRICAL GENERATING UNITS

Section 217.340 Applicability and Exemptions

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- a) Notwithstanding Subpart V ~~or W~~ of this Part, the provisions of Subpart D of this Part and this Subpart apply to any fossil fuel-fired stationary boiler serving at any time a generator that has a nameplate capacity greater than 25 MWe and produces electricity for sale, excluding any units listed in Appendix D of this Part, located at sources subject to this Subpart under~~pursuant to~~ Section 217.150.
- b) Before May 1, 2025, the provisions of this Subpart do not apply to a fossil fuel-fired stationary boiler operating under a federally enforceable limit of NO_x emissions from the boiler to less than 15 tons per year and less than five tons per ozone season.

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 1647 (Source: Amended at 48 Ill. Reg. _____, effective _____)
 1648

1649 **Section 217.342 Exemptions (Repealed)**

- 1650
 1651 a) ~~Notwithstanding Section 217.340, the provisions of this Subpart do not apply to a~~
 1652 ~~fossil fuel fired stationary boiler operating under a federally enforceable limit of~~
 1653 ~~NO_x emissions from such boiler to less than 15 tons per year and less than five~~
 1654 ~~tons per ozone season.~~
 1655
 1656 b) ~~Notwithstanding Section 217.340, the provisions of this Subpart do not apply to a~~
 1657 ~~coal fired stationary boiler that commenced operation before January 1, 2008, that~~
 1658 ~~is complying with 35 Ill. Adm. Code 225.Subpart B through the multi-pollutant~~
 1659 ~~standard.~~
 1660
 1661 e) ~~Notwithstanding Section 217.340, the provisions of this Subpart do not apply to a~~
 1662 ~~fossil fuel fired stationary boiler that is subject to any of the requirements in the~~
 1663 ~~combined pollutant standard in 35 Ill. Adm. Code 225.Subpart B (Sections~~
 1664 ~~225.291 through 225.299), regardless of the type of fossil fuel combusted.~~
 1665

1666 (Source: Repealed at 48 Ill. Reg. _____, effective _____)
 1667

1668 **Section 217.344 Emissions Limitations**

1669
 1670 On and after January 1, 2015, no person shall cause or allow emissions of NO_x into the
 1671 atmosphere from any fossil fuel-fired stationary boiler to exceed the following limitations. Until
 1672 May 1, 2025, compliance~~Compliance~~ must be demonstrated with the applicable emissions
 1673 limitation on an ozone season and annual basis. On and after May 1, 2025, compliance must be
 1674 demonstrated with the applicable emissions limitation on a 30-day rolling average basis.
 1675

Fuel	Emission Unit Type	NO _x Emissions Limitation (lb/mmBtu)
Solid	Boiler	0.12
Natural gas	Boiler	0.06
Liquid	Boiler that commenced operation before January 1, 2008	0.10
	Boiler that commenced operation on or after January 1, 2008	0.08

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 1677 (Source: Amended at 48 Ill. Reg. _____, effective _____)

SUBPART Q: STATIONARY RECIPROCATING
INTERNAL COMBUSTION ENGINES AND TURBINES

Section 217.386 Applicability

- a) Before May 1, 2025, the~~The~~ provisions of this Subpart ~~shall~~ apply to all:
- 1) Stationary reciprocating internal combustion engines listed in Appendix G of this Part.
 - 2) Stationary reciprocating internal combustion engines and turbines located at a source that emits or has the potential to emit NO_x in an amount equal to or greater than 100 tons per year and is in either the area composed of the Chicago area counties of Cook, DuPage, Kane, Lake, McHenry, and Will, the Townships of Aux Sable and Goose Lake in Grundy County, and the Township of Oswego in Kendall County, or in the area composed of the Metro-East counties of Jersey, Madison, Monroe, and St. Clair, and the Township of Baldwin in Randolph County, where:
 - A) The engine at nameplate capacity is rated at equal to or greater than 500 bhp output; or
 - B) The turbine is rated at equal to or greater than 3.5 MW (4,694 bhp) output at 14.7 psia, 59°F and 60 percent relative humidity.
- b) On and after May 1, 2025, the provisions of this Subpart apply to all:
- 1) Stationary reciprocating internal combustion engines listed in Appendix G of this Part.
 - 2) Stationary reciprocating internal combustion engines and turbines located at a source that emits or has the potential to emit NO_x in an amount equal to or greater than 50 tons per year and is in either the area composed of the Chicago area counties of Cook, DuPage, Kane, Lake, McHenry, and Will, the Townships of Aux Sable and Goose Lake in Grundy County, and the Township of Oswego in Kendall County, or in the area composed of the Metro-East counties of Madison, Monroe, and St. Clair, where:
 - A) The engine at nameplate capacity is rated at equal to or greater than 500 bhp output; or

- 1720 B) The turbine is rated at equal to or greater than 3.5 MW (4,694 bhp)
1721 output at 14.7 psia, 59°F and 60 percent relative humidity.
1722
- 1723 cb) Notwithstanding ~~subsections~~subsection (a)(2) and (b)(2) of this Section, an
1724 affected unit is not subject to the requirements of this Subpart Q if the engine or
1725 turbine is ~~is-or has been:~~
- 1726
- 1727 1) Used as an emergency or standby unit as defined by 35 Ill. Adm. Code
1728 211.1920. However, the owner or operator of the unit must comply with
1729 the recordkeeping requirement under Section 217.396(a)(13);
- 1730
- 1731 2) Used for research or for the purposes of performance verification or
1732 testing;
- 1733
- 1734 3) Used to control emissions from landfills, where at least 50 percent of the
1735 heat input is gas collected from a landfill;
- 1736
- 1737 4) Used for agricultural purposes, including the raising of crops or livestock
1738 that are produced on site, but not for associated businesses like packing
1739 operations, sale of equipment or repair; or
- 1740
- 1741 5) An engine with nameplate capacity rated at less than 1,500 bhp (1,118
1742 kW) output, mounted on a chassis or skids, designed to be moveable, and
1743 moved to a different source at least once every 12 months.
- 1744
- 1745 de) If an exempt unit ceases to fulfill the criteria specified in subsection (cb) of this
1746 Section, the unit is subject to the control requirements of this Subpart Q, and the
1747 owner or operator must notify the Agency in writing within 30 days after
1748 becoming aware that the exemption no longer applies and comply with the control
1749 requirements of this Subpart Q.
- 1750
- 1751 ed) The requirements of this Subpart Q will continue to apply to any engine or turbine
1752 that has ever been subject to the requirements of Section 217.388, even if the
1753 affected unit or source ceases to fulfill the rating requirements of subsection (a) or
1754 (b) of this Section or becomes eligible for an exemption under pursuant to
1755 subsection (cb) of this Section.
- 1756
- 1757 ~~e) Where a construction permit, for which the application was submitted to the~~
1758 ~~Agency prior to the adoption of this Subpart, is issued that relies on decreases in~~
1759 ~~emissions of NO_x from existing emission units for purposes of netting or~~
1760 ~~emissions offsets, such NO_x decreases shall remain creditable notwithstanding~~
1761 ~~any requirements that may apply to the existing emissions units pursuant to this~~
1762 ~~Subpart.~~

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(Source: Amended at 48 Ill. Reg. _____, effective _____)

Section 217.388 Control and Maintenance Requirements

- a) On and after the applicable compliance date in Section 217.392, an owner or operator of an affected unit must inspect and maintain affected units as required by subsection (a)(4) of this Section and comply with one of the following: the applicable emissions concentration as set forth in subsection (a)(1) of this Section, the requirements for an emissions averaging plan as specified in subsection (a)(2) of this Section, or the requirements for operation as a low usage unit as specified in subsection (a)(3) of this Section.
 - 1) Limits the discharge from an affected unit into the atmosphere of any gases that contain NO_x to no more than:
 - A) 150 ppmv (corrected to 15 percent O₂ on a dry basis) for spark-ignited rich-burn engines;
 - B) 210 ppmv (corrected to 15 percent O₂ on a dry basis) for spark-ignited lean-burn engines, except for existing spark-ignited Worthington engines that are not listed in Appendix G;
 - C) 365 ppmv (corrected to 15 percent O₂ on a dry basis) for existing spark-ignited Worthington engines that are not listed in Appendix G;
 - D) Before May 1, 2025, 660 ppmv (corrected to 15 percent O₂ on a dry basis) for diesel engines;
On and after May 1, 2025, 210 ppmv (corrected to 15 percent O₂ on a dry basis) for diesel engines that are constructed on and after May 1, 2025;
 - E) Before May 1, 2025, 42 ppmv (corrected to 15 percent O₂ on a dry basis) for gaseous fuel-fired turbines;~~and~~
On and after May 1, 2025, 25 ppmv (corrected to 15 percent O₂ on a dry basis) for gaseous fuel-fired turbines;
 - F) Before May 1, 2025, 96 ppmv (corrected to 15 percent O₂ on a dry basis) for liquid fuel-fired turbines;~~and~~

On and after May 1, 2025, 65 ppmv (corrected to 15 percent O₂ on a dry basis) for liquid fuel-fired turbines.

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- 2) Complies with an emissions averaging plan as provided for in either subsection (a)(2)(A) or (a)(2)(B) of this Section:
 - A) For any affected unit identified by Section 217.386: The requirements of the applicable emissions averaging plan as set forth in Section 217.390; or
 - B) For units identified in Section 217.386(a)(2). The requirements of an emissions averaging plan adopted ~~underpursuant to~~ any other Subpart of this Part. For ~~the such~~ affected engines and turbines the applicable requirements of this Subpart apply, including, ~~but not limited to,~~ calculation of NO_x allowable and actual emissions rates, compliance dates, monitoring, testing, reporting, and recordkeeping.

- 3) Operates, for units not listed in Appendix G, the affected unit as a low usage unit ~~underpursuant to~~ subsection (a)(3)(A) or (a)(3)(B) of this Section. Low usage units that are not part of an emissions averaging plan are not subject to the requirements of this Subpart Q except for the requirements to inspect and maintain the unit ~~underpursuant to~~ subsection (a)(4) of this Section, test as required by Section 217.394(~~gf~~), and retain records ~~underpursuant to~~ Section 217.396(b) and (~~ed~~). Either the limitation in subsection (a)(3)(A) or (a)(3)(B) may be ~~used~~~~utilized~~ at a source, but not both:
 - A) Before May 1, 2025, the~~The~~ potential to emit (PTE) is no more than 100 TPY NO_x aggregated from all engines and turbines located at the source that are not otherwise exempt ~~underpursuant to~~ Section 217.386(~~cb~~), and not complying with the requirements of subsection (a)(1) or (a)(2) of this Section, and the NO_x PTE limit is contained in a federally enforceable permit; or
 - B) The aggregate bhp-hrs/MW-hrs from all affected units located at the source that are not exempt ~~underpursuant to~~ Section 217.386(~~cb~~), and not complying with the requirements of subsection (a)(1) or (a)(2) of this Section, are less than or equal to the bhp-hrs and MW-hrs operation limit listed in subsections (a)(3)(B)(i) and (a)(3)(B)(ii) of this Section. The operation limits of subsections (a)(3)(B)(i) and (a)(3)(B)(ii) of this Section must be contained in a federally enforceable permit, except for units that

- 1849 drive a natural gas compressor located at a natural gas compressor
1850 station or storage facility. The operation limits are:
1851
1852 i) 8 mm bhp-hrs or less on an annual basis for engines; and
1853
1854 ii) 20,000 MW-hrs or less on an annual basis for turbines.
1855
- 1856 4) Inspects and performs periodic maintenance on the affected unit, in
1857 accordance with a Maintenance Plan that documents:
1858
- 1859 A) For a unit not located at natural gas transmission compressor
1860 station or storage facility, either:
1861
- 1862 i) The manufacturer's recommended inspection and
1863 maintenance of the applicable air pollution control
1864 equipment, monitoring device, and affected unit; or
1865
- 1866 ii) If the original equipment manual is not available or
1867 substantial modifications have been made that require an
1868 alternative procedure for the applicable air pollution control
1869 device, monitoring device, or affected unit, the owner or
1870 operator must establish a plan for inspection and
1871 maintenance in accordance with what is customary for the
1872 type of air pollution control equipment, monitoring device,
1873 and affected unit.
1874
- 1875 B) For a unit located at a natural gas compressor station or storage
1876 facility, the operator's maintenance procedures for the applicable
1877 air pollution control device, monitoring device, and affected unit.
1878
- 1879 b) Owners and operators of affected units may change the method of compliance
1880 with this Subpart, as follows:
1881
- 1882 1) When changing the method of compliance from subsection (a)(3) of this
1883 Section to subsection (a)(1) or (a)(2) of this Section, the owner or operator
1884 must conduct testing and monitoring according to the requirements of
1885 Section 217.394(a) through (f), as applicable. Before May 1, 2025,
1886 for~~For~~ this purpose, references to the "applicable compliance date" in
1887 Section 217.394(a)(2) and (a)(3) means~~shall mean~~ the date by which
1888 compliance with subsection (a)(1) or (a)(2) of this Section is to begin.
1889

- 1890 2) An owner or operator of an affected unit that is changing the method of
 1891 compliance from subsection (a)(1) or (a)(2) of this Section to subsection
 1892 (a)(3) of this Section must:
 1893
 1894 A) Continue to operate the affected unit's control device, if that unit
 1895 relied upon a NO_x emissions control device for compliance with
 1896 the requirements of subsection (a)(1) or (a)(2) of this Section; and
 1897
 1898 B) Prior to changing the method of compliance to subsection (c) of
 1899 this Section, complete any outstanding initial performance testing,
 1900 subsequent performances testing or monitoring as required by
 1901 Section 217.394(a), (~~cb~~), (~~de~~), (~~ed~~) or (~~fe~~) for the affected unit. If
 1902 the deadline for ~~thesueh~~ testing or monitoring has not yet occurred
 1903 (e.g., the five-year testing or monitoring sequence has not yet
 1904 elapsed), the owner or operator must complete the test or
 1905 monitoring prior to changing the method of compliance to
 1906 subsection (a)(3) of this Section. After changing the method of
 1907 compliance to subsection (a)(3) of this Section, no additional
 1908 testing or monitoring will be required for the affected unit while it
 1909 is complying with subsection (a)(3) of this Section, except as
 1910 provided for in Section 217.394(~~gf~~).

1911 (Source: Amended at 48 Ill. Reg. _____, effective _____)
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1914 **Section 217.390 Emissions Averaging Plans**
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- 1916 a) An owner or operator of certain affected units may comply through an emissions
 1917 averaging plan.
 1918
 1919 1) A unit or units that commenced operation before January 1, 2002 may be
 1920 included in only one emissions averaging plan, as follows:
 1921
 1922 A) Units:
 1923
 1924 i) Located at a single source or at multiple sources in Illinois
 1925 to address compliance for units identified in Section
 1926 217.386(a)(1), so long as the units are owned by the same
 1927 company or parent company where the parent company has
 1928 working control through stock ownership of its subsidiary
 1929 corporations; or
 1930
 1931 ii) Before May 1, 2025, located~~Located~~ at a single source or at
 1932 multiple sources in either the Chicago area counties or

Metro-East area counties to address compliance for units identified in Section 217.386(a)(2), so long as the units are owned by the same company or parent company where the parent company has working control through stock ownership of its subsidiary corporations. On and after May 1, 2025, units located at a single source or at multiple sources all located in either the Chicago area counties or Metro-East area counties to address compliance for units identified in Section 217.386(b)(2), so long as the units are owned by the same company or parent company where the parent company has working control through stock ownership of its subsidiary corporations;

- B) Units that have a compliance date later than the control period for which the averaging plan is being used for compliance;
- C) Units that are not otherwise subject to this Subpart (so long as the units are owned by the same company or parent company where the parent company has working control through stock ownership of its subsidiary corporations) or that the owner or operator may claim as exempt ~~underpursuant to~~ Section 217.386(~~cb~~) but does not claim as exempt. For as long as ~~the~~~~such~~ unit is included in an emissions averaging plan, it will be treated as an affected unit and subject to the applicable emission concentration, limits, testing, monitoring, recordkeeping and reporting requirements; and
- D) Units that comply with the requirements for low usage units set forth in Section 217.388(a)(3), so long as the unit or units operate NO_x emissions control technology. For as long as ~~the~~~~such~~ unit is included in an emissions averaging plan, it will be subject to the applicable emission concentration limits in subsection (~~ig~~)(7) of this Section, the applicable testing and monitoring requirements for affected units in Section 217.394(a) through (~~fe~~), and the applicable recordkeeping and reporting requirements for affected and low usage units in Section 217.396(a) through (~~ed~~).

2) The following types of units may not be included in an emissions averaging plan:

- A) Units that commence operation after January 1, 2002, unless the unit or units replace a unit or units described in subsection (a)(1) of this Section that commenced operation on or before January 1, 2002, or the unit or units replace a unit or units described in

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1976 subsection (a)(1) of this Section that replaced a unit or units
1977 described in subsection (a)(1) of this Section that commenced
1978 operation on or before January 1, 2002. The new unit must be
1979 used for the same purpose and have substantially equivalent or less
1980 process capacity or be permitted for less NO_x emissions on annual
1981 basis than the actual NO_x emissions of the unit or units that are
1982 replaced. The owner or operator of a unit that is shut down and
1983 replaced must comply with the provisions of Section 217.396(c)(3)
1984 before the replacement unit may be included in an emissions
1985 averaging plan.

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1987 B) Units that the owner or operator is claiming are exempt
1988 ~~under pursuant to~~ Section 217.386(c**b**).

1989
1990 b) ~~Before May 1, 2025, an~~ owner or operator must submit an emissions averaging
1991 plan to the Agency by the applicable compliance date set forth in Section
1992 217.392, or by May 1 of the year in which the owner or operator is using a new
1993 emissions averaging plan to comply.

1994
1995 1) The plan must include, but is not limited to:

1996
1997 A) The list of affected units included in the plan by unit identification
1998 number and permit number.

1999
2000 B) A sample calculation demonstrating compliance using the
2001 methodology provided in subsection (~~h~~**f**) of this Section for both
2002 the ozone season and calendar year.

2003
2004 2) The plan will be effective as follows:

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2006 A) An initial plan for units required to comply by January 1, 2008 is
2007 effective January 1, 2008;

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2009 B) An initial plan for units required to comply by May 1, 2010 is
2010 effective May 1, 2010 for those units;

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2012 C) A new plan submitted ~~under pursuant to~~ subsection (b) of this
2013 Section but not submitted by January 1, 2008 or May 1, 2010 is
2014 effective retroactively to January 1 of the applicable year;

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2016 D) An amended plan submitted ~~under pursuant to~~ subsection (~~d~~**e**) of
2017 this Section is effective retroactively to January 1 of the applicable
2018 year; or

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E) An amended plan submitted ~~underpursuant to~~ subsection (ed) of this Section is effective on the date it is received by the Agency.

c) On and after May 1, 2025, an owner or operator must submit an emissions averaging plan to the Agency at least 30 days before beginning the use of that plan to demonstrate compliance. The plan must include, but is not limited to the following:

- 1) The list of affected units included in the plan by unit identification number and permit number.
- 2) The applicable NO_x emissions concentration under Section 217.388(a)(1) for each affected unit.
- 3) A sample calculation demonstrating compliance using the methodology provided in subsection (j) of this Section on a 30-day rolling average basis.
- 4) The date the owner or operator will begin using the emissions averaging plan.

~~de) An owner or operator may amend an emissions averaging plan only once per calendar year. An amended plan must include the information from subsection (b)(1) and may change, but is not limited to changing, the group of affected units or reflecting changes in the operation of the affected units. An amended plan must be submitted to the Agency by May 1 of the applicable calendar year and is effective as set forth in subsection (b)(2) of this Section. If an amended plan is not received by the Agency by May 1 of the applicable calendar year, the previous year's plan will be the applicable emissions averaging plan.~~

~~ed) Despite~~Notwithstanding subsection (de) of this Section, an owner or operator, and the buyer or seller, if applicable:

- 1) Must submit an updated emissions averaging plan or plans to the Agency within 60 days if a unit that is listed in an emissions averaging plan is sold or taken out of service.
- 2) May amend its emissions averaging plan to include another unit within 30 days after discovering that the unit no longer qualifies as an exempt unit ~~underpursuant to~~ Section 217.386(c) or as a low usage unit ~~underpursuant to~~ Section 217.388(a)(3).

2062 3) May submit an updated emissions averaging plan or plans to the Agency
2063 within 60 days after purchasing a new unit to include the new unit.

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2065 fe) Until May 1, 2025, an~~An~~ owner or operator must:

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2067 1) Demonstrate compliance for both the ozone season (May 1 through
2068 September 30) and the calendar year (January 1 through December 31) by
2069 using the methodology and the units listed in the most recent emissions
2070 averaging plan submitted to the Agency underpursuant to subsection (b),
2071 (~~d~~e), or (~~e~~d) of this Section; the higher of the monitoring or test data
2072 determined underpursuant to Section 217.394; and the actual hours of
2073 operation for the applicable control period;

2074
2075 2) Notify the Agency by October 31 following the ozone season, if
2076 compliance cannot be demonstrated for that ozone season; and

2077
2078 3) Submit to the Agency by January 31 following each calendar year, a
2079 compliance report containing the information required by Section
2080 217.396(c)(4).

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2082 g) On and after May 1, 2025, an owner or operator must:

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2084 1) Demonstrate compliance on a 30-day rolling average basis by using the
2085 methodology and the units listed in the most recent emissions averaging
2086 plan submitted to the Agency under subsection (c), (d), or (e) of this
2087 Section; the higher of the monitoring or test data determined under Section
2088 217.394; and the actual hours of operation for the applicable averaging
2089 plan period.

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2091 2) Submit to the Agency by January 31 following each calendar year, a
2092 compliance report containing the information required by Section
2093 217.396(c)(5).

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2095 hf) Until May 1, 2025, the~~The~~ total mass of actual NO_x emissions from the units
2096 listed in the emissions averaging plan must be equal to or less than the total mass
2097 of allowable NO_x emissions for those units for both the ozone season and calendar
2098 year. The following equation must be used to determine compliance:

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$$N_{act} \leq N_{all}$$

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2102 Where:

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$$N_{act} \rightarrow = \sum_{i=1}^n EM_{act(i)}$$

$$N_{all} \rightarrow = \sum_{i=1}^n EM_{all(i)}$$

N_{act} = Total sum of the actual NO_x mass emissions from units included in the averaging plan for each fuel used (lbs per ozone season and calendar year).

N_{all} = Total sum of the allowable NO_x mass emissions from units included in the averaging plan for each fuel used (lbs per ozone season and calendar year).

$EM_{all(i)}$ = Total mass of allowable NO_x emissions in lbs for a unit as determined in subsection (g)(2) or (h)(2) of this Section.

$EM_{act(i)}$ = Total mass of actual NO_x emissions in lbs for a unit as determined in subsection (g)(1) or (h)(1) of this Section.

i = Subscript denoting an individual unit and fuel used.

n = Number of different units in the averaging plan.

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ig) ~~For~~ Until May 1, 2025, for each unit in the averaging plan, and each fuel used by a unit, determine actual and allowable NO_x emissions using the following equations, except as provided for in subsection (~~h~~) of this Section:

1) Actual emissions must be determined as follows:

$$EM_{act(i)} = E_{act(i)} \times H_i$$

$$E_{act(i)} = \frac{\sum_{j=1}^m C_{d(act(j))} \times F_d \times \left(\frac{20.9}{20.9 - \%O_{2d(j)}} \right)}{m}$$

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2) Allowable emissions must be determined as follows:

$$EM_{all(i)} = E_{all(i)} \times H_i$$

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$$E_{all(i)} = \frac{\sum_{j=1}^m C_{d(all(j))} \times F_d \times \left(\frac{20.9}{20.9 - \%O_{2d(j)}} \right)}{m}$$

Where:

- EM_{act(i)} = Total mass of actual NO_x emissions in lbs for a unit, except as provided for in subsections (i)(3) and (i)(5) of this Section.
- EM_{all(i)} = Total mass of allowable NO_x emissions in lbs for a unit, except as provided for in subsection (i)(3) of this Section.
- E_{act} = Actual NO_x emission rate (lbs/mmBtu) calculated according to the above equation.
- E_{all} = Allowable NO_x emission rate (lbs/mmBtu) calculated according to the above equation, as applicable.
- H = Heat input (mmBtu/ozone season or mmBtu/year) calculated from fuel flow meter and the heating value of the fuel used.
- C_{d(act)} = Actual concentration of NO_x in lb/dscf (ppmv x 1.194 x 10⁻⁷) on a dry basis for the fuel used. Actual concentration is determined on each of the most recent test runs or monitoring passes performed ~~under~~ pursuant to Section 217.394, whichever is higher.
- C_{d(all)} = Allowable concentration of NO_x in lb/dscf (allowable emission limit in ppmv specified in Section 217.388(a)(1), except as provided for in subsection (i)(4), (i)(5), (i)(6), or (i)(7) of this Section, if applicable, multiplied by 1.194 x 10⁻⁷) on a dry basis for the fuel used.
- F_d = The ratio of the gas volume of the products of combustion to the heat content of the fuel (dscf/mmBtu) as given in the table of F Factors included in 40 CFR 60, appendix A, Method 19 or as determined using 40 CFR 60, appendix A, Method 19.
- %O_{2d} = Concentration of oxygen in effluent gas stream measured on a dry basis during each of the applicable tests or monitoring runs used for determining emissions, as represented by a whole number percent, e.g., for 18.7%O_{2d}, 18.7 would be used.
- i = Subscript denoting an individual unit and the fuel used.
- j = Subscript denoting each test run or monitoring pass for an affected unit for a given fuel.

m = The number of test runs or monitoring passes for an affected unit using a given fuel.

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- 3) For a replacement unit that is electric-powered, the allowable NO_x emissions from the affected unit that was replaced should be used in the averaging calculations and the actual NO_x emissions for the electric-powered replacement unit ($EM_{act\ elec(i)}$) are zero. Allowable NO_x emissions for the electric-powered replacement are calculated using the actual total bhp-hrs generated by the electric-powered replacement unit on an ozone season and on an annual basis multiplied by the allowable NO_x emission rate in lb/bhp-hr of the replaced unit. The allowable mass of NO_x emissions from an electric-powered replacement unit ($EM_{all\ elec(i)}$) must be determined by multiplying the nameplate capacity of the unit by the hours operated during the ozone season or annually and the allowable NO_x emission rate of the replaced unit ($E_{all\ rep}$) in lb/mmBtu converted to lb/bhp-hr. For this calculation the following equation should be used:

$$EM_{all\ elec(i)} = bhp \times OP \times F \times E_{all\ rep(i)}$$

Where:

- $EM_{all\ elec(i)}$ = Mass of allowable NO_x emissions from the electric-powered replacement unit in pounds per ozone season or calendar year.
- bhp = Nameplate capacity of the electric-powered replacement unit in brake horsepower.
- OP = Operating hours during the ozone season or calendar year.
- F = Conversion factor of 0.0077 mmBtu/bhp-hr.
- $E_{all\ rep(i)}$ = Allowable NO_x emission rate (lbs/mmBtu) of the replaced unit.
- i = Subscript denoting an individual electric unit and the fuel used.

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- 4) For a replacement unit that is not electric, the allowable NO_x emissions rate used in the above equations set forth in subsection (i)(2) of this Section must be the higher of the actual NO_x emissions as determined by testing or monitoring data or the applicable uncontrolled NO_x emissions factor from Compilation of Air Pollutant Emission Factors: AP-42, Volume I: Stationary Point and Area Sources, as incorporated by reference in Section 217.104 for the unit that was replaced.

2155 5) For a unit that is replaced with purchased power, the allowable NO_x
 2156 emissions rate used in the equations set forth in subsection (i)(2) of this
 2157 Section must be the emissions concentration set forth in Section
 2158 217.388(a)(1) or subsection (i)(6) of this Section, when applicable, for
 2159 the type of unit that was replaced. For owners or operators replacing units
 2160 with purchased power, the annual hours of operations that must be used
 2161 are the calendar year hours of operation for the unit that was shut down,
 2162 averaged over the three-year period prior to the shutdown. The actual
 2163 NO_x emissions for the units replaced by purchased power (EM_{(i)act}) are
 2164 zero. These units may be included in any emissions averaging plan for no
 2165 more than five years beginning with the calendar year that the replaced
 2166 unit is shut down.

2168 6) For units that have a later compliance date, allowable emissions rate used
 2169 in the equations set forth in subsection (i)(2) of this Section must be:
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 2171 A) Prior to the applicable compliance date ~~underpursuant to~~ Section
 2172 217.392, the higher of the actual NO_x emissions as determined by
 2173 testing or monitoring data or the applicable uncontrolled NO_x
 2174 emissions factor from Compilation of Air Pollutant Emission
 2175 Factors: AP-42, Volume I: Stationary Point and Areas Sources, as
 2176 incorporated by reference in Section 217.104; or

2177
 2178 B) On and after the unit's applicable compliance date ~~underpursuant to~~
 2179 Section 217.392, the applicable emissions concentration for that
 2180 type of unit ~~underpursuant to~~ Section 217.388(a)(1).

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 2182 7) For a low usage unit complying with the requirements of Section
 2183 217.388(a)(3) and used in an emissions averaging plan, the allowable NO_x
 2184 emissions rate used in the above equations set forth in subsection (i)(2) of
 2185 this Section must be the higher of the actual NO_x emissions as determined
 2186 by testing or monitoring data or the applicable uncontrolled NO_x
 2187 emissions factor from Compilation of Air Pollutant Emission Factors: AP-
 2188 42, Volume I: Stationary Point and Area Sources, as incorporated by
 2189 reference in Section 217.104.

2190
 2191 j) On and after May 1, 2025, the total mass of actual NO_x emissions from the units
 2192 listed in the emissions averaging plan must be equal to or less than the total mass
 2193 of allowable NO_x emissions for those units on a 30-day rolling average basis. The
 2194 following equation must be used to determine compliance:

$$N_{act} \leq 0.9N_{all}$$

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2198 Where:

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$$N_{act} \rightarrow = \sum_{i=1}^n EM_{act(i)}$$

$$N_{all} \rightarrow = \sum_{i=1}^n EM_{all(i)}$$

N_{act} \equiv Total sum of the actual NO_x mass emissions from units included in the averaging plan for each fuel used (lbs per 30-day rolling average basis).

N_{all} \equiv Total sum of the allowable NO_x mass emissions from units included in the averaging plan for each fuel used (lbs per 30-day rolling average basis).

$EM_{all(i)}$ \equiv Total mass of allowable NO_x emissions in lbs for a unit as determined in subsection (k)(2) or (l)(2) of this Section.

$EM_{act(i)}$ \equiv Total mass of actual NO_x emissions in lbs for a unit as determined in subsection (k)(1) or (l)(1) of this Section.

i \equiv Subscript denoting an individual unit and fuel used.

n \equiv Number of different units in the averaging plan.

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k) On and after May 1, 2025, for each unit in the averaging plan, and each fuel used by a unit, determine actual and allowable NO_x emissions using the following equations, except as provided for in subsection (l) of this Section:

1) Actual emissions must be determined as follows:

$$EM_{act(i)} = E_{act(i)} \times H_i$$

$$E_{act(i)} = \frac{\sum_{j=1}^m C_{d(act(j))} \times F_d \times \left(\frac{20.9}{20.9 - \%O_{2d(j)}} \right)}{m}$$

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2) Allowable emissions must be determined as follows:

$$EM_{all(i)} = E_{all(i)} \times H_i$$

$$E_{all(i)} = \frac{\sum_{j=1}^m C_{d(all(j))} \times F_d \times \left(\frac{20.9}{20.9 - \%O_{2d(j)}} \right)}{m}$$

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Where:

- EM_{act(i)} ≡ Total mass of actual NO_x emissions in lbs for a unit, except as provided for in subsections (k)(3) and (k)(5) of this Section.
- EM_{all(i)} ≡ Total mass of allowable NO_x emissions in lbs for a unit, except as provided for in subsection (k)(3) of this Section.
- E_{act} ≡ Actual NO_x emission rate (lbs/mmBtu) calculated according to the above equation.
- E_{all} ≡ Allowable NO_x emission rate (lbs/mmBtu) calculated according to the above equation, as applicable.
- H ≡ Heat input (mmBtu/30-day rolling average basis) calculated from fuel flow meter and the heating value of the fuel used.
- C_{d(act)} ≡ Actual concentration of NO_x in lb/dscf (ppmv x 1.194 x 10⁻⁷) on a dry basis for the fuel used. Actual concentration is determined on each of the most recent test runs or monitoring passes performed under Section 217.394, whichever is higher.
- C_{d(all)} ≡ Allowable concentration of NO_x in lb/dscf (allowable emission limit in ppmv specified in Section 217.388(a)(1), except as provided for in subsection (k)(4), (k)(5), (k)(6), or (k)(7) of this Section, if applicable, multiplied by 1.194 x 10⁻⁷) on a dry basis for the fuel used.
- F_d ≡ The ratio of the gas volume of the products of combustion to the heat content of the fuel (dscf/mmBtu) as given in the table of F Factors included in 40 CFR 60, appendix A-7, Method 19 or as determined using 40 CFR 60, appendix A-7, Method 19.
- %O_{2d} ≡ Concentration of oxygen in effluent gas stream measured on a dry basis during each of the applicable tests or monitoring runs used for determining emissions, as represented by a whole number percent, e.g., for 18.7%O_{2d}, 18.7 would be used.
- i ≡ Subscript denoting an individual unit and the fuel used.
- j ≡ Subscript denoting each test run or monitoring pass for an affected unit for a given fuel.

m ≡ The number of test runs or monitoring passes for an affected unit using a given fuel.

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3) For a replacement unit that is electric-powered, the allowable NO_x emissions from the affected unit that was replaced should be used in the averaging calculations and the actual NO_x emissions for the electric-powered replacement unit (EM_{act elec(i)}) are zero. Allowable NO_x emissions for the electric-powered replacement are calculated using the actual total bhp-hrs generated by the electric-powered replacement unit during a 30-day rolling average period multiplied by the allowable NO_x emission rate in lb/bhp-hr of the replaced unit. The allowable mass of NO_x emissions from an electric-powered replacement unit (EM_{all elec(i)}) must be determined by multiplying the nameplate capacity of the unit by the hours operated during a 30-day rolling average period and the allowable NO_x emission rate of the replaced unit (E_{all rep}) in lb/mmBtu converted to lb/bhp-hr. For this calculation the following equation should be used:

$$EM_{all\ elec(i)} = bhp \times OP \times F \times E_{all\ rep(i)}$$

Where:

EM_{all elec(i)} ≡ Mass of allowable NO_x emissions from the electric-powered replacement unit in pounds per 30-day rolling average period.

bhp ≡ Nameplate capacity of the electric-powered replacement unit in brake horsepower.

OP ≡ Operating hours during the 30-day rolling average period.

F ≡ Conversion factor of 0.0077 mmBtu/bhp-hr.

E_{all rep(i)} ≡ Allowable NO_x emission rate (lbs/mmBtu) of the replaced unit.

i ≡ Subscript denoting an individual electric unit and the fuel used.

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4) For a replacement unit that is not electric, the allowable NO_x emissions rate used in the above equations set forth in subsection (k)(2) of this Section must be the higher of the actual NO_x emissions as determined by testing or monitoring data or the applicable uncontrolled NO_x emissions factor from Compilation of Air Pollutant Emission Factors: AP-42, Volume I: Stationary Point and Area Sources, as incorporated by reference in Section 217.104, for the unit that was replaced.

- 2251 5) For a unit that is replaced with purchased power, the allowable NO_x
 2252 emissions rate used in the equations set forth in subsection (k)(2) of this
 2253 Section must be the emissions concentration set forth in Section
 2254 217.388(a)(1) or subsection (k)(6) of this Section, when applicable, for the
 2255 type of unit that was replaced. For owners or operators replacing units
 2256 with purchased power, the annual hours of operations that must be used
 2257 are the calendar year hours of operation for the unit that was shut down,
 2258 averaged over the three-year period prior to the shutdown. The actual
 2259 NO_x emissions for the units replaced by purchased power (EM_{(i)act}) are
 2260 zero. These units may be included in any emissions averaging plan for no
 2261 more than five years beginning with the calendar year that the replaced
 2262 unit is shut down.
- 2263
- 2264 6) For units that have a later compliance date, allowable emissions rate used
 2265 in the equations set forth in subsection (k)(2) of this Section must be:
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- 2267 A) Prior to the applicable compliance date under Section 217.392, the
 2268 higher of the actual NO_x emissions as determined by testing or
 2269 monitoring data or the applicable uncontrolled NO_x emissions
 2270 factor from Compilation of Air Pollutant Emission Factors: AP-
 2271 42, Volume I: Stationary Point and Areas Sources, as incorporated
 2272 by reference in Section 217.104; or
- 2273
- 2274 B) On and after the unit's applicable compliance date under Section
 2275 217.392, the applicable emissions concentration for that type of
 2276 unit under Section 217.388(a)(1).
- 2277
- 2278 7) For a low usage unit complying with the requirements of Section
 2279 217.388(a)(3) and used in an emissions averaging plan, the allowable NO_x
 2280 emissions rate used in the above equations set forth in subsection (k)(2) of
 2281 this Section must be the higher of the actual NO_x emissions as determined
 2282 by testing or monitoring data or the applicable uncontrolled NO_x
 2283 emissions factor from Compilation of Air Pollutant Emission Factors: AP-
 2284 42, Volume I: Stationary Point and Area Sources, as incorporated by
 2285 reference in Section 217.104.
- 2286
- 2287 Until May 1, 2025, for~~For~~ units that use CEMS, the data must show that the total
 2288 mass of actual NO_x emissions determined~~under~~pursuant to subsection ~~(h)~~(h)(1) of
 2289 this Section is less than or equal to the allowable NO_x emissions calculated in
 2290 accordance with the equations in subsections ~~(h)~~(h)f) and ~~(h)~~(h)(2) of this Section for
 2291 both the ozone season and calendar year. The equations in subsection (g) of this
 2292 Section will not apply. On and after May 1, 2025, for units that use CEMS, the
 2293 data must show that the total mass of actual NO_x emissions determined under

2294 subsection (l)(1) of this Section is less than or equal to the total mass of allowable
 2295 NO_x emissions calculated in accordance with the equations in subsections (j) and
 2296 (l)(2) of this Section for each 30-day rolling average period. The equations in
 2297 subsection (k) of this Section will not apply.

- 2298
- 2299 1) The total mass of actual NO_x emissions in lbs for a unit (EM_{act}) must be
 2300 the sum of the total mass of actual NO_x emissions from each affected unit
 2301 using CEMS data collected in accordance with 40 CFR 60 or 75, or
 2302 alternate methodology that has been approved by the Agency or USEPA
 2303 and included in a federally enforceable permit.
- 2304
- 2305 2) The allowable NO_x emissions must be determined as follows:
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$$EM_{all(i)} = \sum_{j=1}^m (Cd_j \times flow_j \times 1.194 \times 10^{-7})$$

2308 Where:

- 2309
- 2310
- EM_{all(i)} = Total mass of allowable NO_x emissions in lbs for a unit.
 - flow_{ji} = Stack flow (dscf/hr) for a given stack.
 - Cd_j = Allowable concentration of NO_x (ppmv) specified in Section 217.388(a)(1) for a given stack (1.194 x 10⁻⁷ converts to lb/dscf).
 - j = subscript denoting each hour operation of a given unit.
 - m = Total number of hours of operation of a unit.
 - i = Subscript denoting an individual unit and the fuel used.

2311 (Source: Amended at 48 Ill. Reg. _____, effective _____)

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2314 **Section 217.392 Compliance and 30-Day Rolling Average Basis**

- 2315
- 2316 a) On and after January 1, 2008, an owner or operator of an affected engine listed in
 2317 Appendix G may not operate the affected engine unless the requirements of this
 2318 Subpart Q are met.
- 2319
- 2320 b) On and after May 1, 2010, an owner or operator of a unit identified by Section
 2321 217.386(a)(2), and that is not listed in Appendix G, may not operate the affected
 2322 unit unless the requirements of this Subpart Q are met or the affected unit is
 2323 exempt ~~underpursuant to~~ Section 217.386(~~c~~**b**).
- 2324
- 2325 c) On and after May 1, 2025, an owner or operator of a stationary internal
 2326 combustion engine or turbine subject to this Subpart Q must not operate the

2327 affected engine or turbine unless the requirements of this Subpart Q are met.
 2328 Compliance must be demonstrated with the applicable emissions concentration or
 2329 emissions averaging plan on a 30-day rolling average basis. A 30-day rolling
 2330 average consists of 30 operating days where an operating day is a calendar day in
 2331 which any subject emission unit combusts any fuel. Compliance with the 30-day
 2332 rolling average for units that have conducted an initial performance test under
 2333 Section 217.394(a) or installed and operated a CEMS under Section 217.394(f)
 2334 must be demonstrated 30 operating days after May 1, 2025. A 30-day rolling
 2335 average is calculated using the total mass of emissions from the period and the
 2336 total volume of products of combustion in the period.

2337
 2338 de) Before May 1, 2025, owners ~~Owners~~ and operators of an affected unit may use
 2339 NO_x allowances to meet the compliance requirements in Section 217.388 as
 2340 specified in this subsection (de). A NO_x allowance is defined as an allowance
 2341 used to meet the requirements of a NO_x trading program in which the State of
 2342 Illinois participates where one allowance is equal to one ton of NO_x emissions.

- 2343
 2344 1) NO_x allowances may be used only under the following circumstances:
 2345
 2346 A) An anomalous or unforeseen operating scenario inconsistent with
 2347 historical operations for a particular ozone season or calendar year
 2348 that causes an exceedance of an emissions or operating hour
 2349 limitation;
 2350
 2351 B) To achieve compliance for no more than two events in any rolling
 2352 five-year period;
 2353
 2354 C) If the anomalous or unforeseen operating scenario occurs during an
 2355 ozone season, it counts as a single event for purposes of the
 2356 calendar year even if there is an exceedance of both an ozone
 2357 season emission limitation and an annual emissions limitation as a
 2358 result of ~~the~~ such operating scenario; and
 2359
 2360 D) For a unit that is not listed in Appendix G.
 2361
 2362 2) The owner or operator of the affected unit must surrender to the Agency a
 2363 NO_x allowance for each ton or portion of a ton of NO_x by which actual
 2364 emissions exceed allowed emissions, as follows:
 2365
 2366 A) Where a low usage limitation under Section 217.388(a)(3)(B) has
 2367 been exceeded, the owner or operator of the affected unit must
 2368 calculate the NO_x emissions resulting from the number of hours
 2369 that exceeded the operating hour low usage limit and surrender to

- 2370 the Agency one NO_x allowance for each ton or portion of a ton of
2371 NO_x that was calculated.
2372
2373 B) For noncompliance with a limitation in an emissions averaging
2374 plan that includes low usage units, the owner or operator of the
2375 affected low usage unit must calculate the NO_x emissions using the
2376 applicable allowable emissions concentration from Section
2377 217.388(a)(1).
2378
2379 C) For noncompliance with a seasonal limit in Section 217.388(a)(2),
2380 only a NO_x ozone season allowance must be used.
2381
2382 D) For noncompliance with the emissions concentration limits in
2383 Section 217.388(a)(1), low usage limitations in Section
2384 217.388(a)(3) or an annual limitation in an emissions averaging
2385 plan in Section 217.388(a)(2), only a NO_x annual allowance may
2386 be used.
2387
2388 E) ~~Despite~~Notwithstanding the provisions of subsections ~~(de)~~(2)(C)
2389 and ~~(de)~~(2)(D) of this Section, if a NO_x annual trading program
2390 does not exist, a NO_x ozone season allowance may be used for
2391 noncompliance with the emissions concentration limits in Section
2392 217.388(a)(1), low usage limitations in Section 217.388(a)(3) or an
2393 annual limitation in an emissions averaging plan in Section
2394 217.388(a)(2).
2395
2396 3) The owner or operator must submit a report documenting the
2397 circumstances that required the use of NO_x allowances and identify what
2398 actions will be taken in subsequent years to address these circumstances
2399 and must transfer the NO_x allowances to the Agency's federal NO_x
2400 retirement account. The report and the transfer of allowances must be
2401 submitted by October 31 for exceedances during the ozone season and
2402 March 1 for exceedances of the emissions concentration limits, the annual
2403 emissions averaging plan limits, or low usage limitations. The report must
2404 contain the NATS serial numbers of the NO_x allowances.
2405

2406 (Source: Amended at 48 Ill. Reg. _____, effective _____)
2407

2408 **Section 217.394 Testing and Monitoring**

- 2409
2410 a) Before May 1, 2025, an~~An~~ owner or operator must conduct an initial performance
2411 test under~~pursuant to~~ subsection ~~(de)~~(1) or ~~(de)~~(2) of this Section as follows:
2412

- 2413 1) By January 1, 2008, for affected engines listed in Appendix G.
2414 Performance tests must be conducted on units listed in Appendix G, even
2415 if the unit is included in an emissions averaging plan ~~underpursuant to~~
2416 Section 217.388(a)(2).
2417
- 2418 2) By the applicable compliance date set forth in Section 217.392, or within
2419 the first 876 hours of operation per calendar year, whichever is later:
2420
- 2421 A) For affected units not listed in Appendix G that operate more than
2422 876 hours per calendar year; and
2423
- 2424 B) For units that are not affected units that are included in an
2425 emissions averaging plan and operate more than 876 hours per
2426 calendar year.
2427
- 2428 3) Once within the five-year period after the applicable compliance date as
2429 set forth in Section 217.392 or once within the five-year period following
2430 the date the unit commenced operation:
2431
- 2432 A) For affected units that operate fewer than 876 hours per calendar
2433 year; and
2434
- 2435 B) For units that are not affected units that are included in an
2436 emissions averaging plan and that operate fewer than 876 hours per
2437 calendar year.
2438
- 2439 b) On and after May 1, 2025, an owner or operator of a reciprocating internal
2440 combustion engine or turbine, including those that are part of an emissions
2441 averaging plan, must either conduct performance testing or install and operate a
2442 CEMS in compliance with the requirements in this Section, as applicable, unless
2443 the engine or turbine operates as a low usage unit under Section 217.388(a)(3)(B).
2444 An owner or operator must conduct an initial performance test under subsection
2445 (d)(1) or (d)(2) of this Section. Performance testing of NOx emissions for engines
2446 and turbines for which construction or modification occurs after May 1, 2025,
2447 must be conducted within 60 days after achieving maximum operating rate but no
2448 later than 180 days after initial startup of the new or modified engine or turbine, in
2449 accordance with this Section.
2450
- 2451 cb) An owner or operator of an engine or turbine must conduct subsequent
2452 performance tests ~~underpursuant to~~ subsection (cb)(1), (cb)(2), and (cb)(3) of this
2453 Section as follows:
2454

- 2455 1) ~~Affected~~~~For affected~~ engines listed in Appendix G and all units included
 2456 in an emissions averaging plan must conduct a performance test at the
 2457 owner or operator's own expense; once every five years. Testing must be
 2458 performed in the calendar year by May 1 or within 60 days after starting
 2459 operation, whichever is later;
 2460
 2461 2) If the monitored data shows that the unit is not in compliance with the
 2462 applicable emissions concentration or emissions averaging plan, the owner
 2463 or operator must report the deviation to the Agency in writing within 30
 2464 days and conduct a performance test ~~under~~~~pursuant to~~ subsection (d) of
 2465 this Section within 90 days of the determination of noncompliance; and
 2466
 2467 3) When, in the opinion of the Agency or USEPA, it is necessary to conduct
 2468 testing to demonstrate compliance with Section 217.388, the owner or
 2469 operator of a unit must, at his or her own expense, conduct the test in
 2470 accordance with the applicable test methods and procedures specified in
 2471 this Section within 90 days after receipt of a notice to test from the
 2472 Agency or USEPA.
 2473

2474 ~~d~~e) Testing Procedures:

- 2475
 2476 1) For an engine: The owner or operator must conduct a performance test
 2477 using Method 7 or 7E of 40 CFR 60, appendix A-4, as incorporated by
 2478 reference in Section 217.104. Each compliance test must consist of three
 2479 separate runs, each lasting a minimum of 60 minutes. NO_x emissions must
 2480 be measured while the affected unit is operating at peak load. If the unit
 2481 combusts more than one type of fuel (gaseous or liquid), including backup
 2482 fuels, a separate performance test is required for each fuel.
 2483
 2484 2) For a turbine: The owner or operator must conduct a performance test
 2485 using the applicable procedures and methods in 40 CFR 60.4400, as
 2486 incorporated by reference in Section 217.104.
 2487

2488 ~~d~~e) Monitoring: Except for those years in which a performance test is conducted
 2489 ~~under~~~~pursuant to~~ subsection (a) ~~or~~ (b) or (c) of this Section, the owner or
 2490 operator of an affected unit or a unit included in an emissions averaging plan must
 2491 monitor NO_x concentrations annually, once between January 1 and May 1 or
 2492 within the first 876 hours of operation per calendar year, whichever is later. If
 2493 annual operation is less than 876 hours per calendar year, each affected unit must
 2494 be monitored at least once every five years. Monitoring must be performed as
 2495 follows:
 2496

- 2497 1) A portable NO_x monitor utilizing method ASTM D6522-~~2000~~, as
 2498 incorporated by reference in Section 217.104, or a method approved by
 2499 the Agency must be used. If the engine or turbine combusts both liquid
 2500 and gaseous fuels as primary or backup fuels, separate monitoring is
 2501 required for each fuel.
 2502
- 2503 2) NO_x and O₂ concentrations measurements must be taken three times for a
 2504 duration of at least 20 minutes. Monitoring must be done at highest
 2505 achievable load. The concentrations from the three monitoring runs must
 2506 be averaged to determine whether the affected unit is in compliance with
 2507 the applicable emissions concentration or emissions averaging plan, as
 2508 specified in Section 217.388.
 2509

2510 ~~f~~e) Instead of complying with the requirements of subsections (a), (b), (c), ~~and~~ (d)
 2511 and (e) of this Section, an owner or operator may install and operate a CEMS on
 2512 an affected unit that meets the applicable requirements of 40 CFR 60, subpart A
 2513 and appendix B, or 40 CFR 75, incorporated by reference in Section 217.104, and
 2514 complies with the quality assurance procedures specified in 40 CFR 60, appendix
 2515 F or 40 CFR 75, as incorporated by reference in Section 217.104, or an alternate
 2516 procedure as approved by the Agency or USEPA in a federally enforceable
 2517 permit. Until May 1, 2025, the~~The~~ CEMS must be used to demonstrate
 2518 compliance with the applicable emissions concentration or emissions averaging
 2519 plan only on an ozone season and annual basis. On and after May 1, 2025, the
 2520 CEMS must be used to demonstrate compliance with the applicable emissions
 2521 concentration or emissions averaging plan only on a 30-day rolling average basis.
 2522

2523 ~~g~~f) The testing and monitoring requirements of this Section do not apply to affected
 2524 units in compliance with the requirements of the low usage limitations
 2525 ~~under~~pursuant to Section 217.388(a)(3)~~-or low usage units using NO_x allowances~~
 2526 ~~to comply with the requirements of this Subpart pursuant to Section 217.392(e),~~
 2527 unless ~~thesuch~~ units are included in an emissions averaging plan.
 2528 ~~Despite~~Notwithstanding the above circumstances, when, in the opinion of the
 2529 Agency or USEPA, it is necessary to conduct testing to demonstrate compliance
 2530 with Section 217.388, the owner or operator of a unit must, at his or her own
 2531 expense, conduct the test in accordance with the applicable test methods and
 2532 procedures specified in this Section within 90 days after receipt of a notice to test
 2533 from the Agency or USEPA.
 2534

2535 (Source: Amended at 48 Ill. Reg. _____, effective _____)
 2536

2537 **Section 217.396 Recordkeeping and Reporting**
 2538

- 2539 a) Recordkeeping. The owner or operator of any unit included in an emissions
 2540 averaging plan (e.g., affected units, nonsubject units, units that could be exempt
 2541 ~~underpursuant to~~ Section 217.386(c**b**), and low usage units) or an affected unit
 2542 that is not exempt ~~underpursuant to~~ Section 217.386(c**b**) and is not subject to the
 2543 low usage exemption of Section 217.388(a)(3) must maintain records that
 2544 demonstrate compliance with the requirements of this Subpart Q, which include,
 2545 but are not limited to:
- 2546 1) Identification, type (e.g., lean-burn, gas-fired), and location of each unit.
 - 2547 2) Calendar date of the record.
 - 2548 3) ~~Before May 1, 2025, the~~The number of hours the unit operated on a
 2549 monthly basis and during each ozone season. On and after May 1, 2025,
 2550 daily operating hours.
 - 2551 4) Type and quantity of the fuel used on a daily basis.
 - 2552 5) On and after May 1, 2025, total mass emissions on a daily basis and on a
 2553 30-day rolling average basis.
 - 2554 ~~65)~~ The results of all monitoring performed on the unit and reported
 2555 deviations.
 - 2556 ~~76)~~ The results of all tests performed on the unit.
 - 2557 ~~87)~~ The plan for performing inspection and maintenance of the units, air
 2558 pollution control equipment, and the applicable monitoring device
 2559 ~~underpursuant to~~ Section 217.388(a)(4).
 - 2560 ~~98)~~ A log of inspections and maintenance performed on the unit's air
 2561 emissions, monitoring device, and air pollution control device. These
 2562 records must include, at a minimum, date, load levels and any manual
 2563 adjustments, along with the reason for the adjustment (e.g., air to fuel
 2564 ratio, timing or other settings).
 - 2565 ~~109)~~ Before May 1, 2025, if complying with the emissions averaging plan
 2566 provisions of Sections 217.388(a)(2) and 217.390, copies of the
 2567 calculations used to demonstrate compliance with the ozone season and
 2568 annual control period limits, noncompliance reports for the ozone season,
 2569 and ozone and annual control period compliance reports submitted to the
 2570 Agency.
 - 2571
 - 2572
 - 2573
 - 2574
 - 2575
 - 2576
 - 2577
 - 2578
 - 2579
 - 2580
 - 2581

- 2582 1140) Identification of time periods for which operating conditions and pollutant
 2583 data were not obtained by either the CEMS or alternate monitoring
 2584 procedures, including the reasons for not obtaining sufficient data and a
 2585 description of corrective actions taken.
 2586
- 2587 1244) Any NO_x allowance reconciliation reports submitted ~~underpursuant to~~
 2588 Section 217.392(~~d~~e)(3).
 2589
- 2590 13) If the engine or turbine is used as an emergency or standby unit, records
 2591 documenting the annual hours of operation of these units in non-emergency
 2592 situations.
 2593
- 2594 b) The owner or operator of an affected unit or unit included in an emissions
 2595 averaging plan must maintain the records required by subsection (a) or (~~e~~d) of this
 2596 Section, as applicable, for a period of five years at the source at which the unit is
 2597 located. The records must be made available to the Agency and USEPA upon
 2598 request.
 2599
- 2600 c) Reporting Requirements
 2601
- 2602 1) The owner or operator must notify the Agency in writing 30 days and five
 2603 days prior to testing, ~~underpursuant to~~ Section 217.394(a) and (~~c~~b) and:
 2604
- 2605 A) If, after the 30-days notice for an initially scheduled test is sent,
 2606 there is a delay (e.g., due to operational problems) in conducting
 2607 the performance test as scheduled, the owner or operator of the unit
 2608 must notify the Agency as soon as possible of the delay in the
 2609 original test date, either by providing at least seven days prior
 2610 notice of the rescheduled date of the performance test or by
 2611 arranging a new test date with the Agency by mutual agreement;
 2612
- 2613 B) Provide a testing protocol to the Agency 60 days prior to testing;
 2614 and
 2615
- 2616 C) Not later than 30 days after the completion of the test, submit the
 2617 results of the test to the Agency.
 2618
- 2619 2) ~~UnderPursuant to~~ the requirements for monitoring in Section 217.394(~~e~~d),
 2620 the owner or operator of the unit must report to the Agency any monitored
 2621 exceedances of the applicable NO_x concentration from Section
 2622 217.388(a)(1) or (a)(2) within 30 days after performing the monitoring.
 2623

- 2624 3) Within 90 days after permanently shutting down an affected unit or a unit
2625 included in an emissions averaging plan, the owner or operator of the unit
2626 must withdraw or amend the applicable permit to reflect that the unit is no
2627 longer in service.
2628
- 2629 4) Until May 1, 2025, if demonstrating compliance through an emissions
2630 averaging plan:
- 2631 A) By October 31 following the applicable ozone season, the owner or
2632 operator must notify the Agency if he or she cannot demonstrate
2633 compliance for that ozone season; and
2634
- 2635 B) By January 31 following the applicable calendar year, the owner or
2636 operator must submit to the Agency a report that demonstrates the
2637 following:
- 2638 i) For all units that are part of the emissions averaging plan,
2639 the total mass of allowable NO_x emissions for the ozone
2640 season and for the annual control period;
2641
- 2642 ii) The total mass of actual NO_x emissions for the ozone
2643 season and annual control period for each unit included in
2644 the averaging plan;
2645
- 2646 iii) The calculations that demonstrate that the total mass of
2647 actual NO_x emissions are less than the total mass of
2648 allowable NO_x emissions using equations in Sections
2649 217.390(hf) and (ig); and
2650
- 2651 iv) The information required to determine the total mass of
2652 actual NO_x emissions and the calculations performed in
2653 subsection (c)(4)(B)(iii) of this Section.
2654
- 2655 5) On and after May 1, 2025, if demonstrating compliance through an
2656 emissions averaging plan, by January 31 following the previous calendar
2657 year, the owner or operator must submit to the Agency a report that
2658 includes the following:
2659
- 2660 A) For all units that are part of the emissions averaging plan, the total
2661 mass of allowable NO_x emissions on a 30-day rolling average
2662 basis.
2663
2664
2665

- 2666 B) The total mass of actual NO_x emissions on a 30-day rolling
2667 average basis for each unit included in the averaging plan.
2668
- 2669 C) The calculations that demonstrate that the total mass of actual NO_x
2670 emissions is less than the total mass of allowable NO_x emissions
2671 using equations in Sections 217.390(j) and (k).
2672
- 2673 D) The daily information required to determine the total mass of
2674 actual NO_x emissions on a 30-day rolling average basis.
2675
- 2676 65) If operating a CEMS, the owner or operator must submit an excess
2677 emissions and monitoring systems performance report in accordance with
2678 the requirements of 40 CFR 60.7(c) and 60.13 or 40 CFR 75, incorporated
2679 by reference in Section 217.104, or an alternate procedure approved by the
2680 Agency or USEPA and included in a federally enforceable permit.
2681
- 2682 76) If using NO_x allowances to comply with the requirements of Section
2683 217.388, reconciliation reports as required by Section 217.392(~~d~~e)(3).
2684
- 2685 d) On and after May 1, 2025, the owner or operator of an emission unit subject to
2686 Subpart Q must submit an annual compliance certification report that
2687 demonstrates compliance with the applicable requirements to the Agency for the
2688 preceding calendar year by May 1 of the following year. The owner or operator
2689 may submit the annual compliance certification report to the Agency along with
2690 the Annual Emissions Report required under 35 Ill. Adm. Code 254 or the
2691 compliance certification required under 415 ILCS 5/39.5(7)(p)(v). The
2692 compliance report must include the following:
2693
- 2694 1) Identification, type (e.g., lean-burn, gas-fired), and location of the
2695 emission unit.
2696
- 2697 2) Methods used for determining compliance, including an emissions
2698 averaging plan, if applicable, a description of test methods, monitoring,
2699 recordkeeping, and reporting requirements.
2700
- 2701 3) A certification of compliance with the applicable emissions concentration
2702 or identification of the periods of noncompliance with a quantification of
2703 the excess emissions concentration and the excess emissions.
2704
- 2705 4) For each calendar month, the highest 30-day rolling average emission rate.
2706 The emissions data must be reported in the measurement units of the
2707 applicable emissions concentration.
2708

2709 5) The emission unit's daily and total operating hours, capacity utilization,
2710 and the percent operation of any CEMS during the hours the emission unit
2711 was operating.

2712
2713 6) A certification of compliance with all applicable requirements except
2714 those identified signed by a responsible official that contains the
2715 following: "I certify, based on information and belief formed after
2716 reasonable inquiry, the statements and information in the document are
2717 true, accurate, and complete."

2718
2719 ed) The owner or operator of an affected unit that is complying with the low usage
2720 provisions of Section 217.388(a)(3) must:

2721
2722 1) Before May 1, 2025, for~~For~~ each unit complying with Section
2723 217.388(a)(3)(A), maintain a record of the NO_x emissions for each
2724 calendar year;

2725
2726 2) For each unit complying with Section 217.388(a)(3)(B), maintain a record
2727 of bhp or MW-hours operated each calendar year; and

2728
2729 3) Before May 1, 2025, for~~For~~ each unit utilizing NO_x allowances for
2730 compliance under~~pursuant to~~ Section 217.392(de)(3), maintain and submit
2731 any NO_x allowance reconciliation reports.

2732
2733 fe) Instead of complying with the requirements of subsection (a) of this Section,
2734 subsection (b) of this Section, subsections (c)(1) through (c)(54) of this Section,
2735 and subsection (ed) of this Section, an owner or operator of an affected unit
2736 complying with the requirements of Section 217.388(a)(1) and operating a CEMS
2737 on that unit may meet the applicable testing, monitoring, reporting and
2738 recordkeeping requirements for that CEMS of 40 CFR 75, as incorporated by
2739 reference in Section 217.1047.

2740
2741 (Source: Amended at 48 Ill. Reg. _____, effective _____)