From: megan.berge@bakerbotts.com

Sent: Thursday, December 22, 2016 4:15 PM

To: Mccarthy, Gina

Cc: A-AND-R-DOCKET; Leslie.Couvillion@BakerBotts.com

Subject: EPA-HQ-OAR-2015-0500; Petition for Reconsideration of the Cross-State Air Pollution

Update Rule

Attachments: OK Cogen CSAPR Update Petition for Reconsideration.PDF

Administrator McCarthy,

Attached please find a petition by Oklahoma Cogeneration, LLC for reconsideration of the final rule entitled "Cross-State Air Pollution Rule Update for the 2008 Ozone NAAQS," Docket No. EPA-HQ-OAR-2015-0500, 81 Fed. Reg. 74,504 (Oct. 26, 2016). A hard copy of the petition with enclosures was transmitted to EPA, today, by Federal Express.

Best, Megan Berge

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December 22, 2016

VIA ELECTRONIC SUBMISSION AND HAND DELIVERY

Office of the Administrator (Mail Code 1101A) US Environmental Protection Agency 1200 Pennsylvania Avenue NW, Room WJCN 3000 Washington DC 20460

RE: Request for Reconsideration of EPA's "Cross-State Air Pollution Rule Update for the 2008 Ozone NAAQS" (EPA Docket No. EPA-HQ-OAR-2015-0500)

Dear Administrator:

Pursuant to Section 307(d)(7)(B) of the Clean Air Act, Oklahoma Cogeneration, LLC ("OK Cogen") respectfully petitions the U.S. Environmental Protection Agency ("EPA" or "Agency") for reconsideration of the final rule entitled "Cross-State Air Pollution Rule Update for the 2008 Ozone NAAQS," 81 Fed. Reg. 74,504 (Oct. 26, 2016) ("CSAPR Update Rule" or "Final Rule"). Specifically, OK Cogen requests that EPA recalculate unit-level allocations of seasonal nitrous oxide ("NOx") allowances for 2017 and beyond for OK Cogen's Oklahoma Cogeneration LLC Unit CC01 (Boiler ID CC01; ORIS ID 50558; CAMD Unit ID 90991) using data-substitution called for by the Final Rule. EPA's current calculations rely on a single (highly unrepresentative) year of data for Unit CC01, resulting in a significant allowance shortfall. This outcome contradicts EPA's own stated methodology and policy goals.

OK Cogen is a small (two full-time employees, with 18 operational personnel) electric service company located in Oklahoma City, Oklahoma. The company is committed to environmental compliance and efficient NOx emissions controls. OK Cogen operates a single, independent 120 MW (nominal) natural gas-fired combined-cycle and topping-cycle cogeneration power plant ("Unit CC01"). The facility consists of a natural gas-fired combustion turbine ("gas turbine"), a supplementary fired Heat Recovery Steam Generator that can receive additional energy from a natural gas-fired duct burner ("duct burner"), and a single automated extraction condensing steam turbine generator ("steam turbine"). As a direct means of controlling NOx

¹ Formerly known as the PowerSmith Cogeneration Project.

² The unit's normal load (from gas and steam turbine electricity production) is 107 MW. The duct burner is used to make maximum load, and is used infrequently (only when called upon for dispatch by the Southwest Power Pool). In 2016, the duct burner was called upon twice, for a total of 15 hours of run time.

Facility ID 50558, Unit CC01

emissions, this system injects steam into the gas turbine combustion chamber. The combined exhaust gases exit through a common main stack. The electricity is sold under a long term Power Purchase Agreement to a local electric utility company that serves customers in Oklahoma and Western Arkansas. Unit CC01 has been in operation since 1989. It was the first natural gas-fired combined-cycle cogeneration plant built and operated in Oklahoma.

BACKGROUND

CSAPR addresses the "good neighbor" provision of the Clean Air Act, which prohibits sources within each state "from emitting any air pollutant in an amount which will . . . contribute significantly" to any other state's nonattainment, or interference with maintenance of, any National Ambient Air Quality Standard ("NAAQS"). 42 U.S.C. § 7410(a)(2)(D)(i)(I). EPA defines "significant contribution" by reference to (1) a state's "linkage" to downwind receptors (i.e., emissions of approximately 1 percent of compliant ambient levels) and (2) the ability of the state to achieve emission reductions at the relevant cost threshold. CSAPR achieves emissions reductions through annual and ozone season emissions trading programs.

EPA finalized CSAPR in 2011 to address three NAAQS, including the 1997 ozone NAAQS. 76 Fed. Reg. 48,208 (Aug. 8, 2011) ("Original CSAPR Rule" or "CSAPR"). In December 2011, EPA finalized a supplemental CSAPR rule that added several states, including Oklahoma, to the ozone season NOx program. 76 Fed. Reg. 80,760 (Dec. 27, 2011) ("Supplemental CSAPR Rule"). Various groups challenged CSAPR, resulting in a stay of the rule. See EME Homer City Generation, L.P. v. EPA, No. 11-1302 (D.C. Cir. Dec. 30, 2011). CSAPR and Supplemental CSAPR Rule requirements and deadlines were effectively tolled pending resolution of the litigation. See 79 Fed. Reg. 71,663 (Dec. 3, 2014). In April 2014, the U.S. Supreme Court generally upheld the rule. See EPA v. EME Homer City Generation LP, 134 S. Ct. 1584 (2014). The stay was lifted in October 2014. See EME Homer City, No. 11-1302 (Oct. 23, 2014). Phase 1 of the CSAPR ozone season program began in May 2015.

EPA published the CSAPR Update Rule in October 2016 to address good neighbor provisions with respect to the 2008 ozone NAAQS. The Agency had published a proposed rule about 10 months earlier. *See* 80 Fed. Reg. 75,706 (Dec. 3, 2015) ("Proposed CSAPR Update Rule" or "Proposed Rule"). In the Final Rule, EPA found that 22 eastern states, including Oklahoma, had failed to submit a state implementation plan to meet their good neighbor obligations. For these 22 states, EPA issued federal implementation plans that generally update existing CSAPR NOx ozone season emission budgets, and that implement these budgets through modifications to the existing CSAPR NOx ozone season allowance trading program. The Final Rule addresses only emission reductions from electric generating units ("EGUs"). Implementation will start in the 2017 ozone season (May - September 2017).

EPA made several significant changes between the Proposed and Final CSAPR Update Rules. Most notably for OK Cogen:

³ EPA uses the Integrated Planning Model v.5.15 ("IPM") to predict how many emissions reductions are available at the relevant cost thresholds. IPM is a dynamic, linear programming model used to project power sector behavior under current and future conditions. IPM's primary objective is to provide estimates of least-cost capacity expansions, electricity dispatch, and emission control strategies while meeting energy demand and environmental, transmission, dispatch, and reliability constraints. *See* https://www.icf.com/solutions-and-apps/ipm.

(1) In calculating allocations for Oklahoma units in the Final Rule, EPA did not use data-substitution. Both the Proposed and Final Rules call for EPA to use up to *five* years of historic heat input data and up to *eight* years of historic NOx emissions data. To accomplish this, both rules also call for EPA to use a data-substitution method (so that if data is not available from EPA's preferred data source for a given year, EPA can pull equivalent data from an alternative source). EPA followed this method in the Proposed Rule. But in the Final Rule, EPA switched to using a *single year of historic baseline data without any data-substitution* for Unit CCO1. See EPA, Final Rule, Unit-Level Allocations and Underlying Data for the CSAPR Update for the 2008 Ozone NAAQS ("Final Allocation Spreadsheet TSD"). Unit CCO1's allowance allocation dropped more than 70 percent from the Proposed Rule to the Final Rule, from 40 allowances to 12 allowances.

(2) In calculating Oklahoma's budget in the Final Rule, EPA used a revised formula with new inputs. Both the Proposed and Final Rules call for EPA to set state budgets as the minimum of either (1) historic emissions⁷ or (2) IPM-predicted 2017 emissions. In the Final Rule, EPA introduced new variables to the formula for calculating IPM-predicted 2017 emissions, including (1) a NOx emission rate "delta" (equal to the difference between an IPM 2017 Base Case and IPM 2017 Policy Case emission rate); and (2) an "adjusted" historic emission rate, based on a newly-developed adjusted historic dataset. With these new variables, EPA added several steps to the calculation and increased its complexity. See 81 Fed. Reg. at 74,547-48. Due in large part to these changes, Oklahoma's budget dropped about 28 percent from the Proposed Rule to the Final Rule, from 16,215 tons to 11,641 tons, more than any other state. Oklahoma's reduced state budget contributed to Unit CC01's reduced allowance allocation.

⁴ To calculate allocations, EPA first "uses the average of the three highest years of heat input data out of a consecutive five-year period to establish the heat input baseline for each unit," and calculates initial heat input-based allowance allocations based on each unit's percentage share of the state's total ozone season heat input. 81 Fed. Reg. at 74,564. Next, EPA "constrains the unit-level allocations so as not to exceed the maximum historical baseline emissions, calculated as the highest year of emissions out of a consecutive eight-year period." *Id.* This methodology "bases a unit's allocation on the unit's historical heat input but limits any unit's allocation to its historical maximum emissions." EPA, *Allowance Allocation Final Rule TSD* at 6 (Aug. 2016) ("Allocation TSD"), available at https://www3.epa.gov/airmarkets/CSAPRU/CSAPR%20Allowance%20Allocations%20Final%20Rule%20TSD.PDF.

⁵ The two data sources EPA says it will look to are: (1) EPA's Clean Air Markets Division ("CAMD"), for years for which it is available; and (2) the U.S. Energy Information Administration ("EIA"), for years for which CAMD data is unavailable.

⁶ With some caveats: EPA did not include 2014 EIA data because it was unavailable at the time the Proposed Rule was published. Thus, for units without 2014 CAMD data, EPA did not "backfill" or substitute any EIA data. Additionally, EPA did not include data for years for which a unit was not yet operating (e.g., if a unit that began operating in 2012, EPA used available 2012-2014 heat input and NOx emissions data). See EPA, Proposed Rule, Unit Level Allocations and Underlying Data for the CSAPR for the 2008 Ozone NAAQS ("Proposed Allocation Spreadsheet TSD"). Excel file available at https://www.epa.gov/airmarkets/proposed-cross-state-air-pollution-update-rule. Further, as discussed below, EPA inappropriately relied on annual, not monthly, EIA data and made arbitrary downward adjustments to reported EIA data for cogeneration and combined-cycle units. EPA should use monthly, reported (i.e., unadjusted) EIA data in the revised Final Rule allocations.

⁷ Based on a baseline year of 2014 in the Proposed Rule and 2015 in the Final Rule.

⁸ Under the Proposed Rule formula, Oklahoma's IPM-predicted 2017 emissions were *higher* than historic emissions. Thus, Oklahoma's budget was set equal to historic (2014) emissions. Under the revised Final Rule formula, Oklahoma's IPM-predicted 2017 emissions were *lower* than historic (2015) emissions. Thus, Oklahoma's budget was set equal to these lower IPM-predicted emissions. This change was not driven solely by the switch from a 2014 to 2015 historic baseline. The primary driver appears to be the new IPM-derived emission rate "delta." Oklahoma's IPM 2017 Base Case emission rate is unrealistically and arbitrarily high—

REQUEST FOR RECONSIDERATION

I. Requested Technical Correction

A. EPA Should Correct Errors In OK Cogen's Allowance Allocations

EPA's unit-level allowance allocation calculations in the Final Rule are arbitrary and capricious as applied to OK Cogen's Unit CC01. EPA's failure to perform EIA data-substitution—and use of a single historic baseline year for some units—goes against the Final Rule's own prescribed methodology. It also puts units on unequal footing: some units, like Unit CC01, received allocations based on one year of operation, while other units received allocations based on multiple years of operation. This effectively penalizes units, like Unit CC01, that were not required to report to CAMD in prior years. OK Cogen is especially disadvantaged because Unit CC01's single year of available CAMD data (2015) is highly unrepresentative of the unit's historic operations.

EPA must recalculate OK Cogen's allocations for Unit CC01 to avoid this unfair and arbitrary outcome. Specifically, EPA must use (1) five years of reported heat input data (2011-2015) and eight years of reported NOx emissions data (2008-2015); and (2) EIA data-substitution, where CAMD data is unavailable. Therefore, OK Cogen's allocations for Unit CC01 should be based on 2011-2014 EIA and 2015 CAMD heat input data and 2008-2014 EIA and 2015 CAMD NOx emissions data. EPA should use monthly (not annual), reported (not adjusted) data. Corrected calculations, summarized in Table 1, show that OK Cogen likely is entitled to 62 total allowances compared to 12 allowances under the current calculation: *an increase of 50 allowances*, *or more than 500%*. See Appendix A (CD-Rom Enclosure) for detailed calculations. ¹⁰

Table 1. Comparing OK Cogen's Unit CC01's Average Heat Input, NOx Emissions Maximum Historic Baseline, and Final Allowance Allocations Under the Final Rule and a Corrected Rule.

	Final Rule (No EIA Data)	Corrected Rule (Monthly Reported EIA Data)	Difference
3-Year Average Heat Input	284,731 MMBtu (based on 2015)	1,478,244 MMBtu (based on 2011-2013)	1,193,513 MMBtu
NOx Emissions Maximum Historic Baseline	43 tons (based on 2015)	163 tons (based 2011)	120 tons
Final Allocation	12 tons	62 tons	50 tons

significantly higher than Oklahoma's historic actual or adjusted 2015 emission rates. As a result, Oklahoma's NOx emission rate "delta" also is arbitrarily high. This means the Final Rule formula over-estimates how many emissions reductions are available in the state. This error carries through the entire calculation, resulting in final IPM-predicted 2017 emissions that are unrealistically low. These arbitrarily low model-predicted rates became the basis for Oklahoma's final budget. Compare EPA, Proposed Rule, Appendix E- Detailed Budget Calculations, Excel file available at https://www.epa.gov/airmarkets/proposed-cross-state-air-pollution-update-rule-ozone-transport-policy-analysis-tsd with EPA, Final Rule, Appendix E: Budget Calculations, Excel file available at https://www.epa.gov/airmarkets/final-cross-state-air-pollution-rule-update.

The corrected calculations are based on EIA heat input data from the 923 Report Form and as published on the EIA website at http://www.eia.gov/electricity/data/browser/#/plant/50558/?freq=M&pin=. See Appendix B (CD-Rom Enclosure).

¹⁰ At minimum, technical corrections using annual, adjusted EIA data (i.e., the EIA data EPA used in the Proposed Rule) likely still would raise OK Cogen's allocation.

B. The Requested Corrections Are Supported By The Final Rule

1. The Final Rule Calls for Multiple Historic Baseline Years

OK Cogen's request to EPA is straightforward: simply do what you said you would do (but did not actually do). The Final Rule calls for using a five-year (2011-2015) historic baseline period for heat input data, and an eight-year (2008-2015) historic baseline period for NOx emissions data. *See* Allocation TSD at 6-7. EPA's rationale for using multiple historic baseline years is sound: it helps ensure that outlier data from a single unrepresentative year (e.g., where heat input or NOx emissions levels were significantly lower than usual) does not skew the calculations. As EPA recognizes, the power sector is susceptible to a range of variables affecting fuel use and emissions, including equipment failures, changing market forces, and weather patterns. *See* 81 Fed. Reg. at 74,566. One year of historic data cannot capture the inherent variability in a unit's operations from year to year, or ozone season to ozone season.

Nonetheless, EPA set Unit CC01's allocations based *solely on 2015* operations. 2015 was a highly unrepresentative year for the unit because of unexpected mechanical equipment failures.¹² *The unit was out-of-service for repairs during most of the 2015 ozone season (from May 5 to July 31, 2015)*. As a result, fuel usage/heat input and NOx emissions for the 2015 ozone season were uncharacteristically low.¹³ Indeed, the unit typically dispatches *more* during the ozone season than other times of the year. For the 2016 ozone season, Unit CC01's dispatch rate was higher, much closer to historic levels. OK Cogen believes this trend of higher dispatch will continue. Market forces are likely to drive more and more dispatch of natural gas-fired units as the coal-fired units prevalent in the region phase out of service.

EPA's reliance on solely 2015 CAMD data to establish the Unit CC01's allocations is arbitrary and capricious. It results in the exact outcome EPA tried to avoid through a multi-year allocation methodology, unfairly penalizing Unit CC01.

2. The Final Rule Calls for Data Substitution

Again, the requested corrections simply ask EPA to do what the Agency said it would do. EPA's prescribed methodology calls for using historic data from *up to two* different sources: (1) CAMD, if available for a given year; and (2) EIA, if CAMD data is unavailable for a given year. *See* Allocation TSD at 6-7. Indeed, for many units EPA *must* look to a historic data source other than CAMD to be able to use the multi-year baseline periods called for in the Final Rule. Prior to Phase I of the CSAPR program in 2015, many units, like Unit CC01, had no obligation to report data to CAMD under any EPA program. Unit CC01 has only a single year

¹¹ See Allocation TSD at 7. EPA chose a multi-year heat input baseline because "[s]electing the three highest, non-zero ozone season heat input values within the five-year baseline reduces the likelihood that any particular single year's operations (which might be negatively affected by outages or other unusual events) determine a unit's allocation." *Id.* EPA chose a multi-year NOx emissions baseline "in order to capture the unit-level emissions before and after the promulgation of the original CSAPR. *Id.*

¹² While OK Cogen has an aggressive preventative maintenance program, unexpected equipment maintenance is a part of all power plant's operations.

¹³ In 2014, Unit CC01 also experienced multiple ozone season outages due to mechanical equipment failures. The unit did not experience similar ozone season outages in 2011-2013.

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of reported CAMD data (2015), but has multiple years of EIA data (to before 2008, the earliest relevant baseline year under the Final Rule). Under such circumstances, EPA's methodology calls for the Agency to use a combination of 2015 CAMD data and 2008-2014 EIA data. It is arbitrary and capricious for EPA not to apply this methodology to Unit CC01.

EPA also states it will look to publicly available, *reported* EIA data.¹⁴ EPA does not state, in either the Final Rule or the Allocation TSD, that it will adjust EIA data from what is reported directly on the EIA forms.¹⁵ EPA therefore should use *monthly (not annual)*, *reported (not adjusted for combined-cycle or cogeneration units)* EIA data whenever EIA data is called for in allocation calculations. Monthly data is better than annual data with a crude 5/12 multiplier because monthly data more accurately reflects actual ozone season operations.¹⁶ Reported heat input data is better than downward-adjusted heat input data for cogeneration and combined-cycle units because reported data more accurately reflects these units' actual fuel use, as well as their highly efficient processes.¹⁷ Using monthly, reported EIA data also is consistent with EPA's treatment of CAMD data, which EPA did not adjust when incorporating it into the Final Rule's current allocation calculations. Treating EIA and CAMD data differently would be arbitrary and capricious.

C. EPA Should Issue the Technical Corrections Through a Direct Final Rule

EPA should issue the requested corrections through a direct final rule as an alternative to full noticeand-comment rulemaking. ¹⁸ Direct final rules rely on the Administrative Procedure Act's "good cause"

¹⁴ Specifically, EPA "used historical heat input and emissions data [EIA] forms, 860, 906, 920, and 923. These data are publicly available at http://www.eia.doe.gov/cneaf/electricity/page/data.html." Allocation TSD at 6.

¹⁵ In the Proposed Rule, EPA appears to have altered OK Cogen's reported EIA data for Unit CC01 in two ways: (1) instead of looking at *monthly* data for ozone season months, EPA took *annual* data and multiplied it by 5/12 to estimate ozone season operations (because the ozone season comprises 5 months out of the year); and (2) instead of using total reported heat input values, EPA applied a downward "proportional nameplate capacity adjustment" to account for the fact that Unit CC01 is a combined-cyclele unit with both a gas turbine and a steam turbine that produce electricity (basically, EPA multiplied the gas turbine's share of total nameplate capacity (~59 percent) by total heat input, thereby "discounting" the total heat input by about 41 percent). Email correspondence with EPA (Nov. 7, 2016) and EPA contractors (Nov. 21, 2016). Both of these data manipulations are inappropriate. EPA did not apply either of these changes to OK Cogen's EIA ozone season data in the Original CSAPR or Supplemental CSAPR Rules. Instead, EPA historically has used reported, monthly EIA data—as it should again here.

¹⁶ The 5/12 ozone season multiplier incorrectly assumes that Unit CC01 operates more or less the same during all 12 months of the year. In fact, Unit CC01 operates *significantly more* during the ozone season because it is a highly-efficient natural gas-fired unit that is called on during peak periods of electricity demand, which often coincide with ozone season summer months. Further, monthly EIA data for May-September for 2008-2014 is available for Unit CC01. There is no good reason not to use it.

¹⁷ The "proportional nameplate capacity adjustment" for cogeneration and combined cycle units misunderstands how these units operate and punishes these units for being efficient. At a typical combined-cycle plant like Unit CC01, waste heat (exhaust) from the gas turbine produces steam that powers a steam turbine to generate extra electricity. *All* fuel consumed in combined-cycle units is therefore used in electricity generation: fuel is combusted in the gas turbine to either produce power or produce steam, which produces power. The adjustment ignores this fact and underestimates how much of the unit's heat input goes toward electricity production. Therefore, the adjustment punishes units for employing a more efficient process that reuses gas turbine exhaust to produce steam and more electricity, rather than just venting it off.

¹⁸A direct final rule is "a rule that is issued in final form, without prior notice and comment, that becomes effective on a particular date unless adverse comment is submitted within a specified period of time." EPA Office of General Counsel, *Direct Final Rulemaking Guidance for EPA Rule Writers*, Attachment 1, § 2 (1998). Available at

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exemption from notice-and-comment rulemaking,¹⁹ while giving the Agency "the benefit of any public input that may unexpectedly surface." Direct Final Rulemaking Guidance at § 2 (citation omitted). EPA uses direct final rules for "noncontroversial rules where [the Agency does not] expect adverse comment," including routine or minor actions. *Id.* at §§ 4, 6. EPA previously has issued direct final rules under the CSAPR program. *See, e.g., Revisions to Federal Implementation Plans To Reduce Interstate Transport of Fine Particulate Matter and Ozone*, 77 Fed. Reg. 10,342 (Feb. 21, 2012). Here, the corrections to EPA's allocation calculations for Unit CCO1 are a non-controversial, minor action unlikely to attract adverse comment because they (1) would affect only a subset of units within a single state; and (2) are necessary to correct clear technical errors in EPA's application of the Final Rule's allocation methodology.

Further, time is of the essence. A direct final rule generally is a more efficient procedural mechanism than notice-and-comment rulemaking. The 2017 ozone season begins in just over five months. OK Cogen needs to get the correct amount of allowances on the books for Unit CC01 as soon as possible in order to plan, and carry out, its compliance strategy for the 2017 ozone season.

II. Reconsideration is Required by the Clean Air Act

A. Legal Standard

The Clean Air Act requires that EPA grant reconsideration of a final rule when a petitioner raising an objection can show that: (1) it was impracticable to raise the relevant objections during the comment period or the grounds for such objection arose after the period for public comment; and (2) the objection is of central relevance to the outcome of the rule. 42 U.S.C. § 7607(d)(7)(B). In such a situation, reconsideration is mandatory: EPA "shall convene a proceeding for reconsideration of the rule and provide the same procedural rights as would have been afforded had the information been available at the time the rule was proposed." Id. (emphasis added).

The notice-and-comment requirements of the Clean Air Act and the Administrative Procedure Act further require that EPA's "proposed rule and its final rule . . . differ only insofar as the latter is a 'logical outgrowth' of the former." *Envtl. Integrity Project v. EPA*, 425 F.3d 992, 996 (D.C. Cir. 2005). A "final rule is a 'logical outgrowth' of a proposed rule only if interested parties should have anticipated that the change was possible, and thus reasonably should have filed their comments on the subject during the notice-and-comment period." *Id.* at 998. The "test is whether a new round of notice and comment would provide the first opportunity for interested parties to offer comments that could persuade the agency to modify its rule." *Id.* at 996.

https://yosemite.epa.gov/oaqps/rdms.nsf/591caf4ab155e210852566de00539f57/c92ad1453ad5de6885256728006a0f30!OpenDoc ument ("Direct Final Rulemaking Guidance"). In conjunction with a direct final rule, EPA's typical practice is to simultaneously publish a separate, parallel proposed rule. If EPA receives significant adverse comments on the direct final rule, the Agency will withdraw the direct final rule and address the public comments in a subsequent final rule based on the parallel proposed rule. *Id.* at § 4.

¹⁹ 5 U.S.C. § 553(b)(3)(B) (Section 553's notice-and-comment requirement does not apply "when the agency for good cause finds . . . that notice and public procedure thereon are impracticable, unnecessary, or contrary to the public interest.").

B. Failure to Comply with Notice and Comment Requirements

The grounds for OK Cogen's objection arose after the public comment period. Before the Final Rule was issued, OK Cogen could not have expected or anticipated that EPA would set Unit CC01's allocations based on a *single* historic baseline year and *only CAMD* data. Both the Proposed and Final Rules call for EPA to set unit allocations using multiple historic baseline years²⁰ and EIA data-substitution. EPA did this in the Proposed Rule, but not in the Final Rule. What EPA did in the Final Rule looks like a clear technical error. It would be impracticable, if not impossible, for OK Cogen to have anticipated and submitted comment on an error that EPA *had not yet committed* during the public comment period, but committed for the first time in the Final Rule.

OK Cogen therefore had no meaningful opportunity to comment on the final allocations. EPA did not provide notice of or seek comment on the possibility of switching from *multiple* to *single* historic baseline years, or from using *both CAMD and EIA data* to *only CAMD* data. Had EPA done so, OK Cogen would have submitted comments that these changes would arbitrarily and unfairly penalize Unit CC01. As it stands, OK Cogen was caught by surprise by the new unit-level allocation data inputs. EPA may not "use the rulemaking process to pull a surprise switcheroo on regulated entities." *Envtl. Integrity Project*, 425 F.3d at 998.

In yet another "surprise switcheroo," OK Cogen was stunned by the cut in Oklahoma's budget from the Proposed to the Final Rule—the biggest reduction of any state. This reduction resulted largely from the significant revisions EPA made to its formula for calculating model-predicted statewide emissions. Because state budgets dictate the size of the available allowance "pool" for units within the state, the drop in Oklahoma's budget contributed to the drop in OK Cogen's allocations under the Final Rule. Had EPA provided notice of its plan to drastically reduce Oklahoma's budget, OK Cogen would have submitted comments explaining how the revised formula significantly overestimates the amount of emissions reductions achievable in the state and results in an overly stringent budget.

OK Cogen's objection also is of central relevance to the outcome of the rule. EPA's data errors have left OK Cogen with a major, unexpected allowance shortfall for the 2017 ozone season. Correcting these errors is critical to OK Cogen's ability to plan for and achieve compliance with the CSAPR Update Rule, especially given the extremely near-term compliance timeframe for the 2017 ozone season. Correcting these errors also would provide a fairer and more representative distribution of allowances within Oklahoma, allowing for more efficient compliance on a state-wide level. Compliance feasibility and efficiency are central to the outcome of the CSAPR Update Rule.

CONCLUSION

In summary, OK Cogen requests that EPA reconsider the CSAPR Update Rule. As described above, EPA must recalculate the allowance allocations for OK Cogen's Unit CC01 using a corrected methodology that is based on multiple historic baseline years (not just one year) and data-substitution using a combination of

²⁰ The only difference between the Proposed and Final Rule methodologies was a one-year shift in the relevant baseline periods. Because 2015 data was not yet available, the Proposed Rule calculated allowance allocations based on a 2010-2014 heat input baseline period and a 2007-2014 NOx emissions baseline period. The Final Rule uses a 2011-2015 heat input baseline period and a 2008-2015 NOx emissions baseline period. *See* Allocation TSD at 6.

Oklahoma Cogeneration, LLC

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CAMD and EIA data (not just CAMD data). EPA should use monthly, reported (unadjusted) data for these calculations. EPA should issue these technical corrections through a direct final rule because they are noncontroversial and are needed on an extremely short time frame.

Sincerely,

ames R. Beers

LLC Managing Member

Enclosures (CD-Rom):

Appendix A: Revised 2017 CSAPR Update Allowance Allocation Calculations for Oklahoma

Cogeneration LLC

Published EIA Data for Oklahoma Cogeneration LLC 2008-2014 Appendix B:

CC: **David Risley** Clean Air Markets Division (Mail Code 6204M) **US Environmental Protection Agency**

1200 Pennsylvania Avenue NW, Room WJCE 7355G

Washington, DC 20460

Associate General Counsel Air and Radiation Law Office (Mail Code 2344A) **US Environmental Protection Agency** 1200 Pennsylvania Avenue NW, Room WJCN 7340 Washington, DC 20460

Megan H. Berge **Baker Botts LLP** 1299 Pennsylvania Ave., NW Washington, DC 20004 202-639-1308

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Appendices

Along with an electronic submission of this petition, OK Cogen is supplying EPA with a CD-Rom containing the two Appendices (Appendix A and B). The Appendices are Excel datasheets and workbooks demonstrating the calculations described in this petition. The CD-Rom contains both a "locked" (i.e., password-protected, read-only) version and an "unlocked" courtesy working copy of each file. Appendix A-1 is a modification of EPA's Final Rule Allocation Spreadsheet TSD. Detailed revised calculations for the reapportionment analysis are contained in Columns AB-AI.

						Sten 1			Steps 2 & 3	Sten 4	Sten 5	Ste	en 6				Ste	en 7				Sten 8	Steps 9 & 10	Data Flags			Reannortionment Ana	vsis - Revised Calculatio	ns
						Step 1			Average of 3	State Level	Step 3	310	Initial Heat	2008	2009	2010	2011	2012	2013	2014	2015	этер о	3teps 5 & 10	Data Hags		If AB = (+), then	Reapportionment Anal	ysis - Neviseu Calculatio	113
				2011 Ozone	2012 Ozon	e 2013 Ozone	2014 Ozone 2	2015 Ozone	Highest Non-Zero Ozone Season	Summation of Unit Level Three Year	Unit 's Percentage Share	Ozone Season NO _x 2017 State	Input Based 2017 Ozone	Season	Ozone Season	Season	Ozone Season	Season	Ozone Season	Ozone Season	Ozone Season		Final Transport Rule		Calculate X - O to determine if	include the heat input for each	For reaportionment if (
		ODIE	CAMD	Season	Season	Season	Season	Season	Heat Inputs from	Average Ozone	of State's Ozone	Budget for	Season NO _X	NO _X	NO _X		NO _x			NO _X			Unit Level NO _X Ozon		reaportionment is	source to	heat rate for past 5 years emission rate fo		Calculated % Diff of
Plant Name		ORIS ID Boiler	· ID Unit ID	Heat Input (mmBtu)	Heat Input (mmBtu)	Heat Input (mmBtu)	Heat Input (mmBtu) (Heat Input (mmBtu)	2011 to 2015 (mmBtu)	Season Heat Input (mmBtu)	Input	Existing Units (tons)	Allocation (tons)	(tons)	(tons)	(tons)	tons)		(tons)	(tons)	(tons)	Baseline (tons)	Season Allocation 2017 (tons)	Substitutio n	applied.	determine reapportionment			Revised for OK Calc All.
									•	Sum column K															If (-), then O > X	If (+), Heat Input	Fraction of		Cogen
Calculation									values in columns F -	values to get State level totals	Column K divided by column L		Column M x column N									Highest value of columns P - W	(Lesser of columns X and 6 + reapportionment if O < 2		and no reapportionment	(MMBtu)	Total Heat Min of X,C Input	Reaportionment	
AES Shady Point		10671 1A	9096	-				3,069,468	3,069,468	341,045,302	0.009000	11,408		3							198		98 12	28	91	3,069,468	0.01288 10	25.10	127.78 0.17
AES Shady Point AES Shady Point		10671 1B 10671 2A	9096	_	+	+		3,098,716 2,995,953	3,098,716 2,995,953		0.009086	11,408 11,408	104	<u> </u>							203 206	2		25	10	3,098,716 2,995,953	0.01300 10 0.01257 10	25.34	129.00 0.77 124.72 0.23
AES Shady Point Anadarko	Oklahoma Oklahoma		9096-		8 150.0	86 12,801	1 2.216	2,963,255 2,208	2,963,255 98,785	341,045,302	0.008689	11,408 11,408	99	10	^	0	17	20	1		205	2	05 12	24	100	2,963,255	0.01243 9	24.23	123.36 0.52
Anadarko	Oklahoma	3006 7	832	6 4,54	2 7,8	15 1,238	74,648	179,235	87,233		0.000256	11,408		2	2	1	0	0	0) 3	3 6		6	4	1	87,233	0.00041	0.81	3.63 9.21
Anadarko Anadarko	Oklahoma Oklahoma		9042					287,814 339,270	133,050 226,861		0.000390 0.000665	11,408 11,408	4	2	2	7	2	0	0 1	1 12	11 12		11	9		7 133,050 1 226,861	0.00056	1.09	5.54 7.69 9.44 -4.93
Anadarko Anadarko	Oklahoma	3006 10	9043	0 31,74		05 23,001	1 277,067	360,321	227,864 215,494	341,045,302	0.000668	11,408 11,408	{		0	7	1	2	1	1 11	1 13		13 1	0		227,864	0.00096	1.86	9.49 5.14 8.97 0.32
Anadarko Plant	Oklahoma	3006 11 3006 4	9096	6	4 43,7	71 20,674	4 246,624	736,757	736,757	341,045,302	0.000632	11,408		5	U	6		2		1 10	9		9	9	-1	215,494	0.00090	1.76	8.97 0.32
Anadarko Plant Anadarko Plant	Oklahoma Oklahoma	3006 5 3006 6	9096		+		1	1,118,066 1,335,829	1,118,066 1,335,829		0.003278 0.003917	11,408 11,408	37 45								14		14 1 17 1	7	-2	7	1	7	
Chouteau Power Plant Chouteau Power Plant	Oklahoma Oklahoma	7757 1	315	5 1,690,02		34 1,704,144	1,177,991 1,508,912	2,299,246	2,233,075 2,203,365	341,045,302	0.006548	11,408 11,408	75	30 26	25	29 36	17	30	17 21	7 11	1 20		30	60	-4-	1	3	0	
Chouteau Power Plant	Oklahoma	7757 3	9061	7 1,751,20	3 2,880,6	24 2,323,423	1,766,885	2,293,282	2,499,110	341,045,302	0.006461	11,408	84	26	25	36	7	9	8	3 6	6 7		9	9	-37	1	3	9	
Chouteau Power Plant Comanche (8059)	Oklahoma Oklahoma		9061			66 2,627,158 44 2,331,456	3 1,939,519 830,554		2,715,394 2,571,322		0.007962	11,408 11,408	91	613		467	9 552	10 875	8 552	2 23	7 8	8		18	-8: 78!	2 571 322	0.01079 8	21.03	107.04 0.89
Comanche (8059)		8059 7252	345	3 2,036,00	4 1,118,6	59 2,376,484	827,743	402,644	1,843,715	341,045,302	0.005406	11,408	62	652	964	701	509	304				9	64	7	90:	1,843,715	0.00773 6	15.08	76.75 0.32
Grand River Dam Authority Grand River Dam Authority	Oklahoma Oklahoma	165 1 165 2	9	5 18,403,55 6 18,269,01	5 16,338,24		1 14,282,766	12,995,997 11,908,354	15,028,233 16,755,188	341,045,302 341,045,302	0.044065	11,408 11,408	560	2,746 3,075	2,631 3,380	2,653 3,235	3,393 3,112	2,734 3,154	962 1,339	992	1,046	3,3 3,3			2,89	15,028,233	0.06305 50 0.07029 56	3 122.91 137.03	625.61 0.54 697.50 0.50
Green Country Energy, LLC Green Country Energy, LLC	Oklahoma Oklahoma	55146 CTGEI 55146 CTGEI				57 3,244,307 29 3,454,453		4,268,154 4.060,370	4,251,264 4,196,661		0.012465 0.012305	11,408 11,408	142	54	54 63	57 47	43 56	62 66	39 44	9 52 1 4	2 54 5 54			66	-81		6		
Green Country Energy, LLC	Oklahoma	55146 CTGEI	N3 400	8 2,040,43	3 4,687,3	92 3,855,251	1 3,421,369		4,367,122	341,045,302	2 0.012805	11,408	146	47		49	29	60	43		5 54		60	60	-81		6		00.00
Horseshoe Lake Horseshoe Lake	Oklahoma Oklahoma	2951 7	200		0 3,830,7	68 2,988,490	2,132,490	335,162	2,379,519 3,824,373	341,045,302	0.006977	11,408		327 3 201	316	397 301			36 227		3 26	3	65 16	60	23	2,379,519 3,824,373	0.00998 8 0.01604 12	19.46 3 31.28	99.06 0.94 159.20 0.50
Horseshoe Lake Horseshoe Lake	Oklahoma Oklahoma		200			51 3,154,859 21 53,165		909,174 346,428	4,472,888 281,003	341,045,302 341,045,302	0.013115	11,408 11,408	150	94	163	427	270 8	498	300	159	129	4		2	34	4,472,888	0.01876 15 0.00118	36.58	186.20 0.43 11.70 2.52
Horseshoe Lake	Oklahoma	2951 10	199	9 168,48	5 91,2	73 50,907	7 319,982	334,326	274,264	341,045,302	0.000804	11,408		2	3	10	7	4	2	2 14	1 17		17 1	1		274,264	0.00115	2.24	11.42 -3.79
McClain Energy Facility		55457 CT1	480		5,209,3	53 3,965,515	3,648,240	12,161,799 5,410,267	14,977,960 5,128,014	341,045,302	0.043918	11,408 11,408	172	1,438 58	74	1,264 69	1,289 71	1,124 81	1,472 59	1,465	3 78	1,4		31	-91	14,977,960	0.06284 50	1 122.50 1	623.52 0.56
McClain Energy Facility Mooreland	Oklahoma Oklahoma	55457 CT2 3008 1	480		5 4,911,11 267,9	99 4,389,374 27 22,551		5,193,702 26,841	5,153,545 105,773		0.015111	11,408 11,408	172	61		72 11	74	76 49	67	7 56	5 74 1 7		79 7 49	9	-9: 41	105 773	0.00044	0.87	4.40 -10.08
Mooreland	Oklahoma	3008 2	203	0 1,404,73	0 1,292,6	73 1,178,776	1,110,082	1,746,617	1,481,340	341,045,302	0.004344	11,408	50	90	128	104		106	77	7 110	173	1	73 6	52	12	1,481,340	0.00621 5	12.11	61.67 0.54
Mooreland Muskogee	Oklahoma Oklahoma		203	1 1,600,84	6 1,080,0	48 653,393	482,996	421,943	1,111,429	341,045,302 341,045,302	0.003259	11,408 11,408		49 175		138	113	71	41	35	5 28	1		17	10:	1,111,429	0.00466 3 0.00000	7 9.09 0 0.00	46.27 1.56 0.00
Muskogee Muskogee	Oklahoma Oklahoma					30 11,346,599	9 14,015,059 9 17,495,094	407,653 13,286,089	14,458,319 14,868,967	341,045,302	0.042394	11,408 11,408	484	2,117 2,728		2,460 2,429	2,216 2,212	1,991 1,881	1,898 2,115	3 2,191 5 1,290	1 39	2,4 2,7			1,97	7 14,458,319 14,868,967	0.06066 48 0.06238 49	1 118.25	601.89 0.51 618.98 0.49
Muskogee	Oklahoma	2952 6	200	7 15,873,98	1 15,669,3	98 13,181,624	7,224,451	11,503,682	14,908,334		0.043398	11,408	499	3,057	2,404	2,509	2,691	2,375	1,839			3,0	57 62	24	2,551	14,908,334	0.06254 49	121.93	620.62 0.54
Mustang Mustang	Oklahoma Oklahoma		200		5 202,3 1 268,9			67,379 39,379	232,093 290,511		0.000681 0.000852	11,408 11,408	10	3	15 11	49 38	27 24	15 16	9	3 13	1 8			2	4:	232,093	0.00097 0.00122 1	1.90	9.66 3.38 12.09 -0.78
Mustang Mustang	Oklahoma Oklahoma			0 2,562,02		39 686,475 22 2,999,937		268,649 769,131	1,683,648 3,568,992		0.004937	11,408 11,408		215 619		185 397		271 618	71 496	1 44	4 38 3 138	3		0	26:	1,683,648	0.00706 5 0.01497 11	13.77	70.09 -0.13 148.57 0.29
Mustang	Oklahoma	2953 5A-1	9097	9	0 3,343,12	22,355,531	617,300	5,762	5,762	341,045,302	0.000017	11,408	(019	451	397	810	010	450	130	2	۰	2	0	09.	2 5,762	0.00002	0.05	0.24
Mustang Mustang	Oklahoma	2953 5A-2 2953 5B-1	9098					5,762 5,126	5,762 5,126	341,045,302 341,045,302	0.000017 0.000015	11,408 11,408	(2		2	0		5,762 5,126	0.00002 0.00002	0.05	0.24 0.21
Mustang Northeastern	Oklahoma Oklahoma		9098		7 6 957 2	95 4 455 656	3 1 010 287	2,932 344,725	2,932 6.430,276		0.000009	11,408 11,408	211	1 459	906	1.772	1 946	1 717	908	3 103	1 3/	1.9	1 26	0	1 72	2,932	0.00001 0.02698 21	0.02	0.12 267.69 0.49
Northeastern	Oklahoma	2963 3313	201	9 15,036,13	8 14,605,9	62 16,401,728	3 17,836,754	14,654,299	16,424,873	341,045,302	0.048160	11,408	549	2,390	3,026	2,780	2,939	1,107	1,606	1,403		3,0	26 68	37	2,47	16,424,873	0.06891 54	134.33	683.75 0.47
Northeastern Northeastern	Oklahoma Oklahoma	2963 3301A	201	6 4,537,70	0 4,891,9	98 3,802,709		2,544,135	15,697,688 4,410,802		0.046028	11,408 11,408	148	2,991	2,933 61	2,492 75	3,244 88	1,098 88	1,575 69	1,083	867			88	2,719	15,697,688	0.06585 52	5 128.38 3	653.48 0.54
Northeastern Oklahoma Cogeneration LLC	Oklahoma	2963 3301B	9099	7 4,718,49 1 1,959,37	4,522,6 1 456.5	03 4,368,881 1,018,766	3,096,951	3,079,965	4,536,661 1,478,244	341,045,302 341,045,302	0.013302	11,408 11,408	152	85	61 105	72 145	73 163	73 130	75 96	5 53	56	1	85 8	2	-6°	1 478 244	0.00620 4	12.09	61 54 -412 82
Oneta Energy Center		55225 CTG-1						4,562,330	3,916,120	341,045,302	0.011483	11,408	131	38	46	63	56	65	59	60	82		82 8	12	-4!		8	2	
Oneta Energy Center Oneta Energy Center	Oklahoma	55225 CTG-2 55225 CTG-3	418	9 3,419,84	3,334,0	69 2,525,902	2 2,677,617	4,372,871	3,690,704 3,778,035	341,045,302	0.010822	11,408 11,408	128	33		64 53	57 57	62	51 49	1 00	5 74		74 7	4	-4-	2	7	1	
Oneta Energy Center Ponca	Oklahoma Oklahoma	55225 CTG-4	419				2,764,798	4,807,111 6,702	3,726,509 9,676		0.010927	11,408 11,408	125	34	62 0	67	56 2	63	60	57	7 83		83 8	0	-4:	9 676	0.00004	0.08	0.40
Ponca	Oklahoma	762 3	56	6 378,06	8 423,1	77,717	7 200,395	171,101	333,857	341,045,302	0.000979	11,408		17	6	12	15	17	3	3 8	3 7		17 1	4		333,857		2.73	13.90 0.73
Ponca Redbud Power Plant	Oklahoma Oklahoma		8933 481	4 83,01 7 4,862,93					108,853 6,319,946	,	0.000319 0.018531	11,408 11,408	211	25	28	27	29	34	25	5 24	4 39		39 3	9	-17	108,853	0.00046	0.89	4.53 9.37
Redbud Power Plant Redbud Power Plant	Oklahoma Oklahoma	55463 CT-02 55463 CT-03		8 4,555,70 9 5,047,45				6,808,480 6,672,154	6,020,665 6,227,871	341,045,302 341,045,302	0.017654	11,408 11,408	201	22	32 26	23 25	29 29	32 34	27 32	7 32	2 37		37 3 40 4	10	-164 -169	1	3	7	
Redbud Power Plant Riverside (4940)	Oklahoma	55463 CT-04 4940 1501	482	0 5,029,51	0 4,582,7	08 4,493,608	3,991,752	6,803,225 188,599	5,471,814 4,488,724		0.016044	11,408 11,408	183	22		29 493	32 782	27	31 424	1 24	4 37	-		37 18	-14	7 4.488.724	0.01883 15	7 36.71	106.06
Riverside (4940)	Oklahoma	4940 1502	266	1 6,307,01	0 6,684,5	20 4,904,690	264,626	313,353	5,965,407	341,045,302	0.013162	11,408	200	705		493 775		907	424 574		1 34	9		50	76:	5,965,407	0.01883 15 0.02503 20	36.71 48.79	186.86 0.61 248.33 0.67
Riverside (4940) Riverside (4940)	Oklahoma	4940 1503 4940 1504	187	2 308.81	2 232.8	30 42.737	7 27.573	120.584	229,810 220,742		0.000674 0.000647	11,408 11,408	8	38	1	3	22 87	20 11	9	9 3	3 7 2 8		38 1 87	9	3: 7:	229,810	0.00096 0.00093	1.88 7 1.81	9.57 4.33 9.19 -2.10
Seminole (2956) Seminole (2956)	Oklahoma	2956 1 2956 2 2956 3	201	2 7,276,46	6 7,231,0	98 5,441,626	581,067	1,965,855	6,649,730 6,796,071	341,045,302	0.019498	11,408 11,408	222	533		512 507	766 945	755 724	445 477		1 187 4 325		66 27 45 28	8	54	6,649,730 6,796,071	0.02790 22 0.02851 22	2 54.38 7 55.58	276.82 0.42 282.91 0.38
Seminole (2956)	Oklahoma	2956 3	201	4 7,877,91	7 7,889,24	47 5,828,963	3 2,068,523	4,443,605	7,198,709	341,045,302	0.021108	11,408	24	659	339	518	606	641	616	166	361	6	59 30	11	41	7,198,709	0.03020 24	1 58.87	282.91 0.38 299.68 0.44
Sooner Sooner	Oklahoma	6095 1 6095 2	277	4 16,114,96	4 13,070,5	91 14,196,639		14,480,181	14,997,025 14,930,595	341,045,302	2 0.043974 2 0.043779	11,408 11,408		2,612	2,226 2,120	2,407 2,190	2,580	2,196 1,922			9 960 1 1,009		69 62	27	2,110	14,997,025	0.06292 50 0.06264 49	2 122.65 9 122.11	624.31 0.43 621.55 0.55
Southwestern Southwestern		2964 8002 2964 8003							409,704 3,610,098		0.001201	11,408 11,408		7 1,318	27 1,000	62 1,154		8 1,185	27 356		6 49 5 296			7	100	2 409,704 3 3,610,098	0.00172 1 0.01515 12	3.35	17.06 -0.33 150.28 0.47
Southwestern	Oklahoma	2964 8004	187	3 375,99	1 351,9	13 89,721	1 71,824	93,537	273,813	341,045,302	0.000803	11,408	9	4	2	1,154	23	1,103	5	5 3	3 8		23 1	1	1,19	273,813	0.00115	25.52	11.40 -3.62
Southwestern Southwestern	Oklahoma Oklahoma	2964 8005 2964 801N	187-	3 353,02	0 367,2	36 72,400 56 93,574			260,471 271,283		0.000764 0.000795	11,408 11,408		4		3 29	21 47	16 46	12	2 2	7		- '	1	31	2 260,471 3 271,283	0.00109 0.00114	2.13	10.84 1.43 11.29 -2.67
Southwestern Spring Creek Power Plant	Oklahoma	2964 801S 55651 CT-01	202	4 352,92 5 353,53				43,929 44,311	291,096 269,066		0.000854	11,408 11,408	10	4	10	23	42	53	11	1 2	2 5		53 1	2	4	291,096	0.00122 1	2.38	12.12 -0.98
Spring Creek Power Plant	Oklahoma	55651 CT-02	503	6 358,19	8 360,1	08 37,537	7 9,957	43,954	254,086	341,045,302	0.000745	11,408	8	3	14	3	4	4	0) (0 0		• • •	1		254,086	0.00107	3 2.08	10.58 3.84
Spring Creek Power Plant Spring Creek Power Plant	Oklahoma	55651 CT-03 55651 CT-04	503	8 342,94	4 296,2	34 33,309	6,033		226,367 224,162		0.000664 0.000657	11,408 11,408		3	13 16	3	3	3	0	0 (3		13 16	9			0.00095 0.00094	1.85 7 1.83	9.42 -4.70 9.33 -3.69
Tenaska Kiamichi Generating Stat Tenaska Kiamichi Generating Stat	tion Oklahoma	55501 CTGD	B1 489	9 4,106,35	4 5,714,9	39 3,424,276	3,900,949		4,574,081	341,045,302	0.013412	11,408 11,408	153	83	77	72 76	74	92 100	66 59	6 71	1 62		92 9	12	-6:		9	2	
Tenaska Kiamichi Generating Stat	tion Oklahoma	55501 CTGD	B3 490	1 4,111,00	0 5,782,8	73 3,842,723	3,474,059	3,370,669	4,578,865	341,045,302	0.013534	11,408	153	80		76	75	84	71	1 62	2 62		84 8	14	-69	9	8	1	
Tenaska Kiamichi Generating Stat Tulsa	Oklahoma	2965 1402	202	5 1,102,92	2 1,104,5			3,386,384 787,108	4,601,980 998,193	341,045,302 341,045,302	0.013494 0.002927	11,408 11,408	154	76 135	82 72	70 97	78 111	88 113	66 56	6 28	6 64			12	-6i	998,193	0.00419 3	8 8.16	41.55 1.06
Tulsa Tulsa	Oklahoma	2965 1403 2965 1404	202	6 284,31	5		2 1,064,146		284,315 988.001		0.000834	11,408 11,408		11 96		19	34	00	70	2 100	3 00		34	2	2	284,315 988,001	0.00119 1 0.00414 3	2.33	11.84 1.37 41.13 -0.32
Weleetka	Oklahoma	2966 4	9096	9	0/2,71	109,282	1,004,140	58,506		341,045,302	0.002897	11,408	2	96	51	98	102	90	12	108	20		20	2	19	988,001		2 0.48	2.44 -21.78
Weleetka Weleetka		2966 5 2966 6	9097		1	1	1	3,702	3,702	341,045,302 341,045,302	0.000000 0.000011	11,408 11,408				1		1			1		1	0		3,702	0.00002	0.03	0.15
_		•		•	•	•	· · ·		341,045,302		1.000000					- I		- U				State Level Al	. = 11,40	08	TOTAL	238,368,207 between Min X,O a	1 9,45	-/	9,923
																									Dinterence	. Setween with A,O a	June All 1,94	to determine reappor	aomitent.

Attachment A-2

Oklahoma Cogeneration, LLC

Historical Ozone Season Data Based on EIA Published Data and Accepted Emission Calculation Methodology Summary of Historical Operating Hours, Fuel Consumption, and Emissions (2008 - 2015)

Table 1

Historical Heat Input Rate and Emissions Summaries for Past Ozone Seasons Using Published EIA Data, Accepted Emission Factors, and CEMS Data (when available)

Ozone Season	Total Operations	Startup (SU) and Shutdown (SD) Operations	Duct Firing Hours	Gas Turbine Heat Input from EIA	Gas Turbine Heat Input During SU & SD	Duct Burner Heat Input from EIA	Total Fuel Consumption from EIA	Gas Turbine Normal Ops NOx Emissions ^c	Gas Turbine SU & SD NOx Emissions ^c	Duct Burner NOx Emissions ^c	Total NOx Emissions ^c	Notes
	Hours	Hours	Hours	MMBTU	MMBTU	MMBTU	MMBTU	Tons	Tons	Tons	Tons	
2008	1,990	56	101	1,465,055	41,387	21,955	1,487,010	115	10	1	126	b
2009	1,389	56	146	1,185,566	47,969	16,404	1,201,970	93	12	0	105	b
2010	1,936	62	617	1,651,538	53,151	83,671	1,735,209	130	13	2	145	b
2011	2,060	57	560	1,884,478	52,209	74,892	1,959,370	148	13	2	163	b
2012	1,669	81	257	1,420,029	68,547	36,567	1,456,596	111	17	1	130	b
2013	1,194	77	103	1,006,842	65,085	11,924	1,018,766	79	16	0	96	b
2014	373	20	10	315,280	16,803	957	316,237	25	4	0	29	b
2015	360	a-1	a-1	a-1	a-1	a-1	284,731	a-1	a-1	a-1	43	a-1
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NOx Emission Factors (2008 - 2014) Table 2

Operations For Each Emission Factor	NOx Emission Factor ^b	NOx Emission Factor Units	NOx Emission Factor Basis
Gas Turbine, Normal Operations	0.157	lb/MMBTU	b-1
Gas Turbine, Startup and Shutdown	0.5	lb/MMBTU	b-2
Duct Burner	0.053	lb/MMBTU	b-3

^{a-1} Based on temporary CEMS data. Emissions are reported for the combined stack, only.

Emissions (Tons) = [Emission Factor (Ib/MMBTU) * Fuel Consumption (MMBTU)] / 2000 (Ib/Ton)]

Total Emissions (Tons) = Gas Turbine Normal Ops Emissions (Tons) + Gas Turbine SU & SD Emissions (Tons) + Duct Burner Emissions (Tons)

^{a-2} Based on permanent CEMS data. Emissions are reported for the combined stack, only.

^b NOx emission factors are based on the best available emission calculation methodology at the time:

b-1 1989 Stack Test, 100% Gas Turbine Load, No Duct Firing, Steam Injection Operational (NOx emission controls) Since gas turbine and duct burner emissions are considered separately, each emission factor represents the emissions from the respective unit, only.

^{b-2} GE 7E Gas Turbine Technical Bulletin (GER-3435.pdf, Page 7, Figure 7 at maximum firing temperature of 2,075 °F).

^{b-3} 1996 Stack Test, Duct Burner Contribution, Only

^c Emissions Calculation Equations:

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EIA Web Data Summary

Published EIA Data		
Year		MMBTU/ozone
Teal		season
	2014	316,237
	2013	1,018,766
	2012	1,456,596
	2011	1,959,370
	2010	1,735,209
	2009	1,201,970
	2008	1,487,010