Sycamore Cogeneration Company | Box 80598, Bakersfield, CA 93380 • (661) 392-2630

Neil E. Burgess, Executive Director

VIA FEDERAL EXPRESS

July 5, 2006

SY-8535

Mr. Christopher Meyer
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814-5512

Re: Sycamore Cogeneration Company (84-AFC-6)
Petition For Insignificant Amendment

Dear Mr. Meyer:

This petition is being submitted to allow two (2) of the four cogeneration units at Sycamore Units 2 and Unit 3, to operate either in simple cycle mode, without the cogeneration of steam, or in the current cogeneration configuration. The addition of simple cycle capability is needed because the steam demand in the adjacent oilfield is gradually declining and there is a need to respond to current electricity market conditions for the power.

This petition is consistent with recent CEC approval of similar amendments to the Sycamore facility and recent San Joaquin Valley Air Pollution Control District (SJVAPCD) approvals. Appendix A includes the complete copy of the SJVAPCD engineering analysis and proposed Authorities to Construct and Appendix B includes a notification to EPA of Prevention of Significant Deterioration (PSD) nonapplicability.

The petition does not require the addition, elimination or modification of any conditions of certification. Furthermore, the proposed change poses no potential for adverse environmental impacts. Under these circumstances, pursuant to Section 1769 (a) (2), CEC Staff have the authority to approve the proposed change without full CEC approval providing a 14-day notice is provided to the docket, each commissioner and any party on the post-certification mailing list.

If you have any questions, please contact Mervyn Soares at (661) 392-2643 or David Stein of CH2M HILL at (510) 587-7787.

N E Burgess

DLB:yh

Attachment

xc: David Stein, CH2M Hill

1.0 OVERVIEW

Sycamore Cogeneration Company (Sycamore) received original approval (84-AFC-6) in December 1986 from the California Energy Commission (CEC) for a 300 megawatt (MW) cogeneration plant in Kern County, California. The facility consists of four (4) 75 MW (nominal) natural-gas fired General Electric Frame 7EA combustion turbines equipped with dry Low NOx (DLN) combustors, four (4) unfired heat recovery steam generators (HRSGs), each capable of generating up to 450,000 pounds per hour (lb/hr) of steam for delivery to the adjacent oilfield operator for use in enhanced oil recovery and ancillary equipment.

Sycamore is owned jointly by Chevron and Edison Mission Energy. A post-certification petition for the operation of two of the four combustion turbines (Unit 1 and Unit 4) in either simple cycle mode or cogeneration mode and removal of a requirement to meet explicit cogeneration efficiency criteria was approved by the CEC on December 1, 2004.

This petition is being submitted to allow the other two (2) cogeneration units, Units 2 and Unit 3, to also operate in either simple cycle mode, (without the cogeneration of steam,) or in the current cogeneration configuration. The addition of simple cycle capability is needed because the steam demand in the adjacent oilfield is gradually declining and, in order to respond to current electricity market conditions for the power. It is anticipated that at any given point in time only two of the four units will continue to operate in cogeneration mode. However, cogeneration service will be rotated among the four units during each calendar year to ensure that the facility conforms with qualifying facility (QF) requirements.

The petition does not require the addition, elimination or modification of any conditions of certification. Furthermore, the proposed change poses no potential for adverse environmental impacts. Under these circumstances, pursuant to Section 1769 (a) (2), CEC Staff have the authority to approve the proposed change without full CEC approval providing a 14-day notice is provided to the docket, each commissioner and any party on the post-certification mailing list.

This petition is consistent with recent requests approved by both the San Joaquin Valley Air Pollution Control District (SJVAPCD) and the United States Environmental Protection

Agency (EPA). Appendix A includes the complete copy of the SJVAPCD engineering analysis and revised Authorities to Construct and Appendix B includes a copy of the letter requesting EPA confirmation that Prevention of Significant Deterioration (PSD) review is not required. A confirmation letter from EPA is expected shortly. The CEC will be provided with a copy of the EPA confirmation letter as soon as it is received.

This petition for a post-certification amendment of Sycamore is being submitted under the provisions of Section 1769 of Title 20, California Administrative Code (CEC *Rules of Practice and Procedure and Power Plant Site Certification Regulations*) to seek a minor modification to the air quality conditions of certification. The petition is organized to address the informational requirements of Section 1769 in the order they appear in the section. The requirement appears in ***bold italics*** followed by a narrative response.

2.0 INFORMATION REQUIRED BY SECTION 1769

(A) A complete description of the proposed modifications, including new language for any conditions that will be affected

Sycamore is a cogeneration facility located in the Kern River oilfield near Bakersfield, CA. The facility employs four (4) General Electric Frame 7EA combustion turbines (CTs) and four (4) unfired heat recovery steam generators (HRSGs) to cogenerate 300 MW (nominal rating) of electricity and 1.8 million pounds per hour of steam for enhanced oil recovery. Each CT/HRSG generates approximately ¼ of the total steam and electricity output. Each CT is equipped with Dry Low NOx (DLN) combustor technology capable of meeting the current SJVAPCD Rule 4703 NOx limit for gas turbines of 16.4 ppmv at 15% O2, dry and a CO emissions limit of 25 ppmv at 15% O2, dry.

As a result of gradually declining steam demand and negotiations regarding the Sycamore electricity contract, it has been determined that all of the Sycamore CT units must be able to operate in either cogeneration or simple cycle mode. As a result, Sycamore is requesting post-certification approval to operate Unit 2 and Unit 3 in either cogeneration or simple cycle mode.

No additional physical construction is needed to facilitate the addition of simple cycle operation to Units 2 and 3. Each CT discharges to a HRSG through a transition section that is equipped with a gas-tight bypass stack. In order to operate in simple cycle, the bypass stack damper would be repositioned to block off the HRSG, directing the CT exhaust through the bypass stack to the atmosphere. Since the Dry-Low NOx (DLN) operation is unaffected by the positioning of the bypass damper, the change to simple cycle operation will not impact the effectiveness of the current air pollution control system. As a result, during simple cycle operations there will not be any change in normal short-term CT emission rates.

The current license is based on a continuous, 24-hr day operation. While Sycamore does not propose to specifically restrict its operating schedule in the future, it is anticipated that the power host will operate two units of the four Sycamore units in simple cycle on a dispatch schedule that is anticipated to be substantially fewer hours than historical operations. The other two Sycamore units would continue to cogenerate steam to service Chevron's existing thermally enhanced oil recovery operation. Sycamore will annually cycle all four units in both modes of operation. At the present time, we envision that units that are dispatched to operate in simple cycle mode would operate in response to peak power demands occurring during the normal work week, Monday through Friday, and would not operate on weekends or holidays. Instead of a 24-hr operation, it is more likely that these two units would ultimately operate for no more than a 6 to 8 hr/day. We also anticipate that the units will operate more frequently in the summer peak power period, April through October, and less during the off-peak period of the year, November through March. The addition of simple cycle operation will increase the number of startups and shutdowns to one or two per day for the affected CT. These emission impacts have been previously evaluated under the previous request for Units 1 and 4 and found to be insignificant.

(B) A discussion of the necessity for the proposed modifications

The modifications are necessary in order to allow Sycamore to continue to sell power while adjusting to a gradually declining steam demand and need for dispatchable power by the utilities. Sycamore units must maintain QF status on a calendar year basis for the facility, but otherwise Sycamore units must also be available for dispatchable simple cycle operation.

(C) If the modification is based on information that was known by the petitioner during the certification proceeding, an explanation why the issue was not raised at that time

This need for dispatchable power and maintenance of unit-specific cogeneration criteria has come about as a result of clarifications regarding the terms of the proposed power purchase agreement that will require Sycamore to remain as a QF facility. The modification is not based on information that was known to the petitioner at the time of the certification.

(D) If the modification is based on new information that changes or undermines the assumptions, rationale, findings, or other bases of the final decision, an explanation of why the change should be permitted

The proposed modification is based on new information that was not available at the time of the original decision. First, demand for steam from Sycamore is gradually declining and Sycamore will not be able to continue to produce and sell all of the steam it is capable of generating. Second, the electricity host has indicated that its future resource needs are focused on peaking, not baseload capacity. The host has therefore asked that any two of the four Sycamore units be made available on a dispatchable basis. However each of the four Sycamore units must also continue to meet contract-specific QF status on a calendar year basis.

Although there will be no changes in any of the existing air emission limits in the CEC license, operation in simple cycle mode will modify the dispersion characteristics of the two affected units. When Units 2 and 3 are operated in simple cycle mode, the exhaust gas will be discharged through a slightly shorter bypass stack with a higher temperature and a marginally lower stack exit velocity. A comprehensive analysis of these potential changes to exhaust gas stack discharge conditions has been performed by SJVAPCD. The analysis demonstrates that even under worst-case assumptions there will be a beneficial impact to ambient air quality.

(E) An analysis of the impacts the modification may have on the environment and proposed measures to mitigate any significant adverse impacts

A complete analysis of the proposed changes has been performed and approved by the SJVAPCD. The engineering analysis and final Authorities to Construct are include in Appendix A. The air quality impact analysis demonstrates that beneficial air quality impacts will result from the proposed changes. Furthermore, the original Sycamore facility was fully mitigated with emission offsets. Since the proposed change will not increase allowable daily or annual emissions from the facility, no additional air quality mitigation is needed. Based on the above, the proposed change will not cause any significant air quality impacts. To the contrary, the air quality impacts are actually beneficial.

No other environmental issues or concerns are impacted by the proposed change and no additional analysis is needed for other environmental issue areas.

(F) A discussion of the impact of the modification on the facility's ability to comply with applicable laws, ordinances, regulations, and standards

The proposed changes will comply with all applicable laws, ordinances, regulations and standards as demonstrated by the attached SJVAPCD engineering analysis and approval (Appendix A). The applicant has also requested that EPA formally acknowledge that the proposed changes do not constitute a major modification that would be subject to full PSD review. A copy of this request is included (Appendix B). A copy of EPA's response will be forwarded to the CEC under separate cover. While this response will be informative, it is not a requirement for the CEC to process this petition request as Sycamore will comply with all applicable federal laws, ordinances, regulations and standards as it has since it began operation.

(G) A discussion of how the modification affects the public

The proposed revisions will have a beneficial impact on the public since air quality impacts will be lessened by the proposed change to Sycamore.

(H) A list of property owners potentially affected by the modification

There are no property owners that will be affected by the proposed modification. A single property owner is located within 1000 feet of the Sycamore site, Chevron. The applicable contact information for Chevron is provided below:

Chevron	Physical Address	Mailing Address
	1546 China Grade Loop	P.O. Box 1392
	Bakersfield, CA 93302	Bakersfield, CA 93380

(I) A discussion of the potential effect on near by property owners, the public and the parties in the application proceedings

The proposed revisions will have a positive impact on near by property owners, since air quality impacts will be lessened by the proposed change to Sycamore.

3.0 SCHEDULE

The request for EPA confirmation of the PSD nonapplicability has been submitted (see Appendix B) and a formal confirmation response is expected shortly. A copy of the letter will be provided as soon as it is received. The SJVAPCD has approved the proposed change (see Appendix A).

We respectfully request that the CEC process this petition to approve the described change in the method of operation of the facility expeditiously as is possible, so that Sycamore has the ability to commence simple cycle operation of any of the four units.

4.0 PETITION CONTACTS

Questions regarding this petition should be directed to:

Mervyn Soares
HES Manager
Kern River Cogeneration Company
P.O. Box 81438
Bakersfield, CA 93380
Phone: (661) 392-2643
Fax: (661) 392-2990
Email: masoares@sycamore.com

David A. Stein, PE
Vice President
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612
Phone: (510) 587-7787
Fax: (510) 622-9177
Email: dstein@ch2m.com

5.0 SUMMARY

This minor amendment will require no changes to existing conditions of certification, will have no significant environmental impacts and will have a beneficial effect on air quality.

Pursuant to Section 1769 (a) (2) of the CEC Siting Regulations, CEC staff is authorized to approve this proposed change with full Commission approval, provided a 14-day notice is submitted to the docket, each Commissioner and any party on the post-certification mailing list.

Expedited processing of this petition is respectfully requested..

APPENDIX A

SJVAPCD ENGINEERING ANALYSIS AND FINAL AUTHORITIES TO CONSTRUCT

San Joaquin Valley
Air Pollution Control District

MAY 2 3 2006

Mr. Mervyn Soares
Sycamore Cogeneration Company
P O Box 80598
Bakersfield, CA 93380

Re: Final - Authority to Construct / Certificate of Conformity (Minor Mod)
Project # 1060682

Dear Mr. Soares:

The Air Pollution Control Officer has issued Authorities to Construct (S-511-2-12 and -3-12) with Certificates of Conformity to Sycamore Cogeneration Company. The modification consists of allowing two more existing combustion turbine generators to operate without recovering exhaust heat.

Enclosed are the Authorities to Construct and invoice. The application and proposal were sent to US EPA Region IX on April 27, 2006. No comments were received following the District's preliminary decision on this project.

Prior to operating with modifications authorized by the Authority to Construct, you must submit an application to modify the Title V permit as an administrative amendment in accordance with District Rule 2520, Section 11.5.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Thomas Goff, Permit Services Manager, at (661) 326-6900.

Sincerely,

T. Goff

for David Warner
Director of Permit Services

Enclosures
cbe

SYCAMORE COGEN CO	
NEB	JRB
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LSP	
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Copy: DLB w/orig. attach.	
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Seyed Sadredin
Executive Director / Air Pollution Control Officer

Northern Region Office
4800 Enterprise Way
Modesto, CA 95356-8718
(209) 557-6400 • FAX (209) 557-6475

Central Region Office
1990 East Gettysburg Avenue
Fresno, CA 93726-0244
(559) 230-6000 • FAX (559) 230-6061
www.valleyair.org

Southern Region Office
2700 M Street, Suite 275
Bakersfield, CA 93301-2373
(661) 326-6900 • FAX (661) 326-6985

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: S-511-2-12 **ISSUANCE DATE:** 05/23/2006

LEGAL OWNER OR OPERATOR: SYCAMORE COGENERATION CO
MAILING ADDRESS: PO BOX 80598
BAKERSFIELD, CA 93380

LOCATION: HEAVY OIL CENTRAL
CA

SECTION: 31 **TOWNSHIP:** 28S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
MODIFICATION OF 75 MW GENERAL ELECTRIC MODEL 7EA NATURAL GAS-FIRED COMBUSTION TURBINE COGENERATION UNIT WITH DRY LOW NOX COMBUSTORS (SYCAMORE #2): AUTHORIZE OPERATION IN SIMPLE CYCLE MODE AND ALLOW EXHAUST THROUGH BYPASS STACK

CONDITIONS

1. This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District NSR Rule] Federally Enforceable Through Title V Permit
2. Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. CGT shall be fired on natural gas only. There shall be no provisions for oil firing. Natural gas used as fuel shall be pipeline quality with sulfur content of 0.3 gr/100 scf or less (0.001% sulfur by weight). [District Rule 2201; Kern County Rule 407] Federally Enforceable Through Title V Permit
4. The owner or operator shall not exceed the following applicable Tier 1 NOx emission rate of (15 x EFF / 25) ppmvd @ 15% O2, under load conditions, excluding thermal stabilization periods or reduced load periods, where EFF (efficiency) is the higher of EFF1 {100% x (3,412 Btu/kW-hr) / (Actual Heat Rate at HHV, Btu/kW-hr)} or EFF2 {EFFmfr x (LHV / HHV)} where actual heat rate is a ratio of the heat input to power output taking into account the manufacturer's listed turbine efficiency, HHV is the higher heating value of the fuel, LHV is the lower heating value of the fuel, and EFFmfr is the manufacturer's continuous rated percent efficiency of the gas turbine with air pollution equipment at LHV. An EFF that is less than 25 shall be assigned a value of 25. [40 CFR 60.332(a)(1) and (a)(2) District Rule 4703, 5.1.1] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 326-6900 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

for DAVID WARNER, Director of Permit Services
S-511-2-12 : May 23 2006 4:52PM -- ELLENBEC : Joint Inspection NOT Required

5. Reduced Load Period shall be defined as the time during which a gas turbine is operated at less than rated capacity in order to change the exhaust gas diverter gate not exceeding one hour. [District Rule 4703, 3.19] Federally Enforceable Through Title V Permit
6. Thermal Stabilization Period shall be defined as the start up or shut down time during which the exhaust gas is not within the normal operating range, not to exceed two hours. [District Rule 4703, 3.25] Federally Enforceable Through Title V Permit
7. Operator shall conform with the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit
8. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3246, D4468 or D6667. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit
9. If the turbine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested in accordance with the requirements of 40 CFR 60.334 (h) and 40 CFR 60.334(i). [40 CFR 60.334 (h) and 40 CFR 60.334(i)] Federally Enforceable Through Title V Permit
10. The HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit
11. The owner or operator shall provide source test information annually regarding the exhaust gas NOx and CO concentration corrected to 15% O2 (dry). EPA Methods 7E or 20 shall be used for NOx emissions. EPA Methods 10 or 10B shall be used for CO emissions. EPA Methods 3, 3A, or 20 shall be used for Oxygen content of the exhaust gas. [40 CFR 60.8(a), 40 CFR 60.335(b) and District Rule 4703, 5.1, 6.3.1, 6.4.1, 6.4.2, and 6.4.3] Federally Enforceable Through Title V Permit
12. The owner or operator shall provide source test information annually regarding the demonstrated percent efficiency (EFF) as defined in District Rule 4703 (as amended 4/25/02), 5.1.1 and 6.4.6. [40 CFR 60.332(a) and (b) and District Rule 4703, 5.1.1 and 6.4.6] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
14. Sulfur compound emissions shall not exceed 0.015% by volume, 150 ppmv, on a dry basis averaged over 15 consecutive minutes. [40 CFR 60.333(a); County Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus)] Federally Enforceable Through Title V Permit
15. All continuous monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the device. [40 CFR 60.13(b)] Federally Enforceable Through Title V Permit
16. Operations during periods of startup and shutdown shall not constitute representative conditions for the purpose of a NOx performance test nor shall NOx emissions in excess of the level of the emission limit shown in this permit during periods of startup and shutdown be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)] Federally Enforceable Through Title V Permit
17. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.1.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2] Federally Enforceable Through Title V Permit
18. Records shall be maintained and shall contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit
19. If the turbine is fired on PUC-regulated natural gas, then maintain on file copies of natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

20. The owner or operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

21. Results of the CEM system shall be averaged over a three hour period, using consecutive 15-minute sampling periods in accordance with either EPA Method 7E or EPA Method 20 for NOx, EPA Test Methods 10 or 10B for CO, or EPA Methods 3, 3A, or 20 for O2, or, if continuous emission monitors are used, all applicable requirements of CFR 60.13. [40 CFR 60.13 and District Rule 4703, 5.1, 6.4] Federally Enforceable Through Title V Permit

22. The owner or operator shall not operate the gas turbine after April 30, 2008, or within 90 days following a Major Overhaul if the overhaul occurs after April 30, 2004, under load conditions, excluding the thermal stabilization period or reduced load period, which results in the measured NOx emissions concentration exceeding 3 ppmv @ 15% O2. [District Rule 4703, 5.1.2.1] Federally Enforceable Through Title V Permit

23. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the following: the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(b); District Rules 2520, 9.4.2 and 4703, 6.2.4; PSD SJ 85-09, X.D.1] Federally Enforceable Through Title V Permit

24. Operator shall operate and maintain in calibration a system which continuously measures and records the following: control system operating parameters, elapsed time of operation, the exhaust gas NOx and O2 or CO2 concentration . [40 CFR 60.334(b),(c) and District Rules 2520, 9.4.2 and 4703] Federally Enforceable Through Title V Permit

25. When CGT exhausts to bypass stack, the CEM probe located in the transition section shall be used to measure exhaust gas NOx, CO and O2 or CO2 concentration. [District Rule 2201] Federally Enforceable Through Title V Permit

26. CEM cycling times shall be those specified in 40 CFR, Part 51, Appendix P, Sections 3.4 and 3.4.2, or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080, 6.4] Federally Enforceable Through Title V Permit

27. The continuous NOx and O2 monitoring system shall meet the performance specification requirements in 40 CFR 60, Appendix F, 40 CFR 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080, 6.3, 6.5, 6.6 and 7.2] Federally Enforceable Through Title V Permit

28. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit

29. The owner or operator shall maintain records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM system that has been installed pursuant to District Rule 1080 (as amended 12/17/92), and emission measurements. [40 CFR 60.8(d) and District Rule 1080, 7.0] Federally Enforceable Through Title V Permit

30. APCO or an authorized representative shall be allowed to inspect, as he or she determines to be necessary, the monitoring devices required by this rule to ensure that such devices are functioning properly. [District Rule 1080, 11.0] Federally Enforceable Through Title V Permit

31. Operator shall submit a quarterly report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(i)] Federally Enforceable Through Title V Permit

32. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit

33. The APCO shall be notified no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0; PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

34. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus) as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

35. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.332(a), (a)(1), (a)(2) 60.333 (a) and (b); 60.334 (a), (b), (c), (h) and (j)(2), (j)(5) and 60.335(a) and (b); District Rule 4703 (as amended 4/25/02), Sections 5.1.1, 5.2, 6.1, 6.3.1, 6.3.3, 6.4, 6.4.5, and 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

36. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.7(b), 60.8, 60.8(d), 60.13, and 60.13(b); District Rules 1080 (as amended 12/17/92), Sections 6.3, 6.4, 6.5, 7.0, 7.1, 7.2, 7.3, 8.0, 9.0, 10.0, and 11.0; and 1081 (as amended 12/16/93) as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

37. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO and EPA. The report is due on the 30th day following the end of the calendar quarter and shall include the following: A. time intervals, data and magnitude of excess emissions (computed in accordance with 40 CFR 60.13(h)), nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard. [District Rule 1080, 8.0 and PSD SJ 85-09, X.D.3 and X.D.5.a through e] Federally Enforceable Through Title V Permit

38. The written report for each calendar quarter shall also include the following: C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. Excess emissions shall be defined as any 3-hour period during which the average emissions for CO, as measured by the CEM system, exceeds the emission limit set forth in PSD SJ 85-09, X.E. [District Rule 1080, 8.0; PSD SJ 85-09, X.D.3 and X.D.5.a through e] Federally Enforceable Through Title V Permit

39. The CGT combustors shall be a dry low NOx design capable of achieving 16.4 ppm or lower at 15% O2. [District Rule 4703 and PSD SJ 85-09, X.B] Federally Enforceable Through Title V Permit

40. Each CGT shall have a maximum heat input rate of 1020 MMBTU/hr on an LHV basis. Firing rate can be increased upon District witnessed emission sampling demonstration that compliance with emission sampling limits can be achieved at higher fuel rates. [District Rule 2201] Federally Enforceable Through Title V Permit

41. Permit unit shall include one unfired heat recovery steam generator (HRSG) for gas turbine engine assembly with rated steam output of 450,000 lb/hr at 80% quality steam production. [District Rule 2201] Federally Enforceable Through Title V Permit

42. CGT may exhaust either through unfired 450,000 lb/hr heat recovery steam generator or through bypass stack. [District Rule 2201] Federally Enforceable Through Title V Permit

43. When operating in cogeneration mode, exhaust gas ducting from CGT's through HRSG's to the atmosphere shall be gas-tight. [District Rule 2201] Federally Enforceable Through Title V Permit

44. Bypass stack valve preceding each HRSG shall be designed to be gas-tight to the atmosphere when exhaust is discharged through HRSG and shall be designed to be gas-tight to the HRSG when exhaust is discharged through the bypass stack. [District Rule 2201] Federally Enforceable Through Title V Permit

45. Each CGT shall have a fuel consumption monitor/recorder. [District Rule 2201 and PSD SJ 85-09, X.D.1] Federally Enforceable Through Title V Permit

46. Exhaust gas particulate matter concentration shall not exceed 0.0072 gr/scf calculated at 12% CO2. [District Rule 2201] Federally Enforceable Through Title V Permit

47. HRSG stack shall be equipped with permanent stack sampling provisions consistent with District Rule 1081, EPA reference Methods 5 and 8 and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

48. Operational records (including but not limited to: fuel characteristics, etc.) shall be maintained by Sycamore Cogeneration Company. [District Rule 2201] Federally Enforceable Through Title V Permit

49. Accurate records of NOx (as NO2) and carbon monoxide (CO) flue gas concentrations corrected to 15% O2, dry and CGT fuel sulfur content shall be maintained and shall be reported as described by District Rule 1080 and upon request. [District Rule 1080] Federally Enforceable Through Title V Permit

50. Emission rates from CGT shall not exceed any of the following: PM10 - 5.0 lb/hr, SOx (as SO2) - 0.9 lb/hr, or VOC - 2.5 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit

51. Emission rates from CGT shall not exceed any of the following: PM10 - 120.0 lb/day, SOx (as SO2) - 21.6 lb/day, NOx (as NO2) - 1,629.6 lb/day, VOC - 60.0 lb/day, or CO - 1056.0 lb/day. [District Rule 2201 and PSD SJ 85-09, X.E] Federally Enforceable Through Title V Permit

52. Emission rates from CGT, except during startup and/or shutdown, shall not exceed any of the following: NOx (as NO2) - 16.4 ppmvd @ 15% O2, 67.9 lb/hr on a 3-hr avg, 79.7 lb/hr on a 1-hr avg, or CO - 25 ppmvd @ 15% O2, 44.0 lb/hr on a 3-hr avg. [District Rule 2201 and PSD SJ 85-09, X.E] Federally Enforceable Through Title V Permit

53. During startup and shutdown, emissions shall not exceed any of the following: 140.0 lb/hr of NOx on a 2-hr avg, 140 lb/hr of CO on a 2-hr avg, or 200 lb/hr of CO on a 1-hr avg. [District Rule 2201] Federally Enforceable Through Title V Permit

54. Each 1-hour period in a 1, 2 or 3-hour average will commence on the hour. The 3-hour average will be compiled from the three most recent 1-hour periods. The 2-hour average will be compiled from the two most recent 1-hour periods. [District Rule 1080] Federally Enforceable Through Title V Permit

55. Daily Emissions for the unit may be determined from the arithmetic mean of three, 40-minute test runs for NOx and CO, multiplied by the appropriate factor. [District Rule 2520, 9.4.2 and District Rule 4703] Federally Enforceable Through Title V Permit

56. Source testing to determine NOx and CO emissions and fuel gas sulfur content shall be conducted annually. [District Rule 1081] Federally Enforceable Through Title V Permit

57. Annual compliance tests shall be conducted by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1081] Federally Enforceable Through Title V Permit

58. Continuous emission monitoring system for NOx as NO2 and continuous monitoring system for CO & CO2 shall serve each CGT flue gas stream, shall conform to SJVUAPCD Rule 1080 specifications, shall meet EPA monitoring performance specifications, & shall be operational whenever the turbine is in operation. [District Rule 1080 and PSD SJ 85-09, X.D.1 and .2] Federally Enforceable Through Title V Permit

59. All continuous emissions monitoring systems shall be calibrated and operated according to EPA guidelines as specified in 40 CFR 60, Appendix B and 40 CFR 52, Appendix E. CEM ppm and lb/hr shall be calculated as a three-hour and a 1-hour average. [District Rule 1080 and PSD SJ 85-09 X.D.2] Federally Enforceable Through Title V Permit

60. Quarterly continuous emission monitoring system reports shall be submitted to the District, EPA and CEC, as required by EPA regulations as specified in CFR Title 40, Part 58, Appendix B and Part 60 Appendix B. [District Rule 1080 and PSD SJ 85-09, X.D.5] Federally Enforceable Through Title V Permit

61. Audits of continuous emission monitoring system shall be conducted in accordance with EPA guidelines, witnessed at the District's discretion, and reports shall be submitted to the District within 60 days of such an audit. [District Rule 1080 and PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

62. The Relative Accuracy Audit shall be conducted by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1080 and PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

63. Startup and shutdown of CGT, as defined in 40 CFR, Subpart A 60.2, shall not exceed a time period of two hours and two hours, respectively, per occurrence. [40 CFR 60.8] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

64. NO2 and CO daily emissions during days of startup/shutdown shall be calculated from natural gas combustion rates and CEM results. [District Rule 1080] Federally Enforceable Through Title V Permit

65. Daily records of NO2 and CO emission calculations during days of gas turbine startup/shutdown shall be maintained and such records shall be made readily available for District inspection upon request for a period of five years. [District Rule 1080] Federally Enforceable Through Title V Permit

66. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

67. The Regional Administrator shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

68. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the conditions of this permit, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

69. The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

70. At such times as specified by the USEPA, permittee shall conduct or cause to be conducted performance tests (as described in 40 CFR 60.8) for CO on the exhaust stack gases and furnish the District, the California ARB and the USEPA a written report of the results of such tests. All performance tests shall be conducted on an annual basis and at the maximum operating capacity of the emissions unit being tested. Upon written request from permittee, and adequate justification, USEPA may waive a specific annual test and/or allow for testing to be done at less than maximum operating capacity. [PSD SJ 85- 09] Federally Enforceable Through Title V Permit

71. Performance tests for the emissions of CO shall be conducted and results reported in accordance with the test methods set forth in 40 CFR 60.8 and 40 CFR 60, Appendix A. The performance tests for the emissions of CO shall be conducted using EPA Methods 1 through 4 and 10. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

72. The USEPA shall be notified in writing at least 30 days in advance of such test to allow time for development of an approvable performance test plan and to arrange for an observer to be present at the test. Such prior approval shall minimize the possibility of USEPA rejection of test results for procedural deficiencies. In lieu of the above mentioned test methods, equivalent methods may be used with prior written approval from the USEPA. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

73. Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for the purposes of this permit. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

74. For performance test purposes, sampling ports, platforms, and access shall be provided by the facility on the emission unit exhaust system in accordance with 40 CFR 60.8(e). [PSD SJ 85-09] Federally Enforceable Through Title V Permit

75. The cogeneration facility is subject to the federal regulations entitled Standards of Performance for New Stationary Sources (40 CFR 60). The owner or operator shall meet all applicable requirements of Subparts A and GG of this regulation. [PSD SJ 85- 09] Federally Enforceable Through Title V Permit

76. All correspondence as required by this permit shall be forwarded to: a) Director, Enforcement Div (Attn: A-5), EPA Region IX, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Control Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95814; c) Director, SJVUAPCD, 1990 East Gettysburg, Fresno, CA, 93726-0244; and d) the California Energy Commission, 1516 Ninth Street, Sacramento, CA, 95814-5512. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

77. The operator shall perform source testing for PM10 concentration and emission rate once per permit term using EPA Method 5. [40 CFR 60.8 (b) and (c)] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: S-511-3-12 **ISSUANCE DATE:** 05/23/2006

LEGAL OWNER OR OPERATOR: SYCAMORE COGENERATION CO
MAILING ADDRESS: PO BOX 80598
BAKERSFIELD, CA 93380

LOCATION: HEAVY OIL CENTRAL
CA

SECTION: NW30 **TOWNSHIP:** 28S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
MODIFICATION OF 75 MW GENERAL ELECTRIC MODEL 7EA NATURAL GAS-FIRED COMBUSTION TURBINE COGENERATION UNIT WITH DRY LOW NOX COMBUSTORS (SYCAMORE #3): AUTHORIZE OPERATION IN SIMPLE CYCLE MODE AND ALLOW EXHAUST THROUGH BYPASS STACK

CONDITIONS

1. This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District NSR Rule] Federally Enforceable Through Title V Permit
2. Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. CGT shall be fired on natural gas only. There shall be no provisions for oil firing. Natural gas used as fuel shall be pipeline quality with sulfur content of 0.3 gr/100 scf or less (0.001% sulfur by weight). [District Rule 2201; Kern County Rule 407] Federally Enforceable Through Title V Permit
4. The owner or operator shall not exceed the following applicable Tier 1 NOx emission rate of (15 x EFF / 25) ppmvd @ 15% O2, under load conditions, excluding thermal stabilization periods or reduced load periods, where EFF (efficiency) is the higher of EFF1 {100% x (3,412 Btu/kW-hr) / (Actual Heat Rate at HHV, Btu/kW-hr)} or EFF2 {EFFmfr x (LHV / HHV)} where actual heat rate is a ratio of the heat input to power output taking into account the manufacturer's listed turbine efficiency, HHV is the higher heating value of the fuel, LHV is the lower heating value of the fuel, and EFFmfr is the manufacturer's continuous rated percent efficiency of the gas turbine with air pollution equipment at LHV. An EFF that is less than 25 shall be assigned a value of 25. [40 CFR 60.332(a)(1) and (a)(2) District Rule 4703, 5.1.1] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 326-6900 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

for DAVID WARNER, Director of Permit Services
S-511-3-12 : May 23 2006 4:52PM -- ELLENBEC : Joint Inspection NOT Required

5. Reduced Load Period shall be defined as the time during which a gas turbine is operated at less than rated capacity in order to change the exhaust gas diverter gate not exceeding one hour. [District Rule 4703, 3.19] Federally Enforceable Through Title V Permit
6. Thermal Stabilization Period shall be defined as the start up or shut down time during which the exhaust gas is not within the normal operating range, not to exceed two hours. [District Rule 4703, 3.25] Federally Enforceable Through Title V Permit
7. Operator shall conform with the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit
8. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3246, D4468 or D6667. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit
9. If the turbine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested in accordance with the requirements of 40 CFR 60.334 (h) and 40 CFR 60.334(i). [40 CFR 60.334 (h) and 40 CFR 60.334(i)] Federally Enforceable Through Title V Permit
10. The HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit
11. The owner or operator shall provide source test information annually regarding the exhaust gas NOx and CO concentration corrected to 15% O2 (dry). EPA Methods 7E or 20 shall be used for NOx emissions. EPA Methods 10 or 10B shall be used for CO emissions. EPA Methods 3, 3A, or 20 shall be used for Oxygen content of the exhaust gas. [40 CFR 60.8(a), 40 CFR 60.335(b) and District Rule 4703, 5.1, 6.3.1, 6.4.1, 6.4.2, and 6.4.3] Federally Enforceable Through Title V Permit
12. The owner or operator shall provide source test information annually regarding the demonstrated percent efficiency (EFF) as defined in District Rule 4703 (as amended 4/25/02), 5.1.1 and 6.4.6. [40 CFR 60.332(a) and (b) and District Rule 4703, 5.1.1 and 6.4.6] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
14. Sulfur compound emissions shall not exceed 0.015% by volume, 150 ppmv, on a dry basis averaged over 15 consecutive minutes. [40 CFR 60.333(a); County Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus)] Federally Enforceable Through Title V Permit
15. All continuous monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the device. [40 CFR 60.13(b)] Federally Enforceable Through Title V Permit
16. Operations during periods of startup and shutdown shall not constitute representative conditions for the purpose of a NOx performance test nor shall NOx emissions in excess of the level of the emission limit shown in this permit during periods of startup and shutdown be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)] Federally Enforceable Through Title V Permit
17. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.1.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2] Federally Enforceable Through Title V Permit
18. Records shall be maintained and shall contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit
19. If the turbine is fired on PUC-regulated natural gas, then maintain on file copies of natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

20. The owner or operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

21. Results of the CEM system shall be averaged over a three hour period, using consecutive 15-minute sampling periods in accordance with either EPA Method 7E or EPA Method 20 for NOx, EPA Test Methods 10 or 10B for CO, or EPA Methods 3, 3A, or 20 for O2, or, if continuous emission monitors are used, all applicable requirements of CFR 60.13. [40 CFR 60.13 and District Rule 4703, 5.1, 6.4] Federally Enforceable Through Title V Permit

22. The owner or operator shall not operate the gas turbine after April 30, 2008, or within 90 days following a Major Overhaul if the overhaul occurs after April 30, 2004, under load conditions, excluding the thermal stabilization period or reduced load period, which results in the measured NOx emissions concentration exceeding 3 ppmv @ 15% O2. [District Rule 4703, 5.1.2.1] Federally Enforceable Through Title V Permit

23. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the following: the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(b); District Rules 2520, 9.4.2 and 4703, 6.2.4; PSD SJ 85-09, X.D.1] Federally Enforceable Through Title V Permit

24. Operator shall operate and maintain in calibration a system which continuously measures and records the following: control system operating parameters, elapsed time of operation, the exhaust gas NOx and O2 or CO2 concentration . [40 CFR 60.334(b),(c) and District Rules 2520, 9.4.2 and 4703] Federally Enforceable Through Title V Permit

25. When CGT exhausts to bypass stack, the CEM probe located in the transition section shall be used to measure exhaust gas NOx, CO and O2 or CO2 concentration. [District Rule 2201] Federally Enforceable Through Title V Permit

26. CEM cycling times shall be those specified in 40 CFR, Part 51, Appendix P, Sections 3.4 and 3.4.2, or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080, 6.4] Federally Enforceable Through Title V Permit

27. The continuous NOx and O2 monitoring system shall meet the performance specification requirements in 40 CFR 60, Appendix F, 40 CFR 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080, 6.3, 6.5, 6.6 and 7.2] Federally Enforceable Through Title V Permit

28. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit

29. The owner or operator shall maintain records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM system that has been installed pursuant to District Rule 1080 (as amended 12/17/92), and emission measurements. [40 CFR 60.8(d) and District Rule 1080, 7.0] Federally Enforceable Through Title V Permit

30. APCO or an authorized representative shall be allowed to inspect, as he or she determines to be necessary, the monitoring devices required by this rule to ensure that such devices are functioning properly. [District Rule 1080, 11.0] Federally Enforceable Through Title V Permit

31. Operator shall submit a quarterly report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(i)] Federally Enforceable Through Title V Permit

32. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit

33. The APCO shall be notified no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0; PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

34. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus) as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

35. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.332(a), (a)(1), (a)(2) 60.333 (a) and (b); 60.334 (a), (b), (c), (h) and (j)(2), (j)(5) and 60.335(a) and (b); District Rule 4703 (as amended 4/25/02), Sections 5.1.1, 5.2, 6.1, 6.3.1, 6.3.3, 6.4, 6.4.5, and 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

36. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.7(b), 60.8, 60.8(d), 60.13, and 60.13(b); District Rules 1080 (as amended 12/17/92), Sections 6.3, 6.4, 6.5, 7.0, 7.1, 7.2, 7.3, 8.0, 9.0, 10.0, and 11.0; and 1081 (as amended 12/16/93) as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

37. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO and EPA. The report is due on the 30th day following the end of the calendar quarter and shall include the following: A. time intervals, data and magnitude of excess emissions (computed in accordance with 40 CFR 60.13(h)), nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard. [District Rule 1080, 8.0 and PSD SJ 85-09, X.D.3 and X.D.5.a through e] Federally Enforceable Through Title V Permit

38. The written report for each calendar quarter shall also include the following: C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. Excess emissions shall be defined as any 3-hour period during which the average emissions for CO, as measured by the CEM system, exceeds the emission limit set forth in PSD SJ 85-09, X.E. [District Rule 1080, 8.0; PSD SJ 85-09, X.D.3 and X.D.5.a through e] Federally Enforceable Through Title V Permit

39. The CGT combustors shall be a dry low NOx design capable of achieving 16.4 ppm or lower at 15% O2. [District Rule 4703 and PSD SJ 85-09, X.B] Federally Enforceable Through Title V Permit

40. Each CGT shall have a maximum heat input rate of 1020 MMBTU/hr on an LHV basis. Firing rate can be increased upon District witnessed emission sampling demonstration that compliance with emission sampling limits can be achieved at higher fuel rates. [District Rule 2201] Federally Enforceable Through Title V Permit

41. Permit unit shall include one unfired heat recovery steam generator (HRSG) for gas turbine engine assembly with rated steam output of 450,000 lb/hr at 80% quality steam production. [District Rule 2201] Federally Enforceable Through Title V Permit

42. CGT may exhaust either through unfired 450,000 lb/hr heat recovery steam generator or through bypass stack. [District Rule 2201] Federally Enforceable Through Title V Permit

43. When operating in cogeneration mode, exhaust gas ducting from CGT's through HRSG's to the atmosphere shall be gas-tight. [District Rule 2201] Federally Enforceable Through Title V Permit

44. Bypass stack valve preceding each HRSG shall be designed to be gas-tight to the atmosphere when exhaust is discharged through HRSG and shall be designed to be gas-tight to the HRSG when exhaust is discharged through the bypass stack. [District Rule 2201] Federally Enforceable Through Title V Permit

45. Each CGT shall have a fuel consumption monitor/recorder. [District Rule 2201 and PSD SJ 85-09, X.D.1] Federally Enforceable Through Title V Permit

46. Exhaust gas particulate matter concentration shall not exceed 0.0072 gr/scf calculated at 12% CO2. [District Rule 2201] Federally Enforceable Through Title V Permit

47. HRSG stack shall be equipped with permanent stack sampling provisions consistent with District Rule 1081, EPA reference Methods 5 and 8 and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

48. Operational records (including but not limited to: fuel characteristics, etc.) shall be maintained by Sycamore Cogeneration Company. [District Rule 2201] Federally Enforceable Through Title V Permit

49. Accurate records of NOx (as NO2) and carbon monoxide (CO) flue gas concentrations corrected to 15% O2, dry and CGT fuel sulfur content shall be maintained and shall be reported as described by District Rule 1080 and upon request. [District Rule 1080] Federally Enforceable Through Title V Permit

50. Emission rates from CGT shall not exceed any of the following: PM10 - 5.0 lb/hr, SOx (as SO2) - 0.9 lb/hr, or VOC - 2.5 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit

51. Emission rates from CGT shall not exceed any of the following: PM10 - 120.0 lb/day, SOx (as SO2) - 21.6 lb/day, NOx (as NO2) - 1,629.6 lb/day, VOC - 60.0 lb/day, or CO - 1056.0 lb/day. [District Rule 2201 and PSD SJ 85-09, X.E] Federally Enforceable Through Title V Permit

52. Emission rates from CGT, except during startup and/or shutdown, shall not exceed any of the following: NOx (as NO2) - 16.4 ppmvd @ 15% O2, 67.9 lb/hr on a 3-hr avg, 79.7 lb/hr on a 1-hr avg, or CO - 25 ppmvd @ 15% O2, 44.0 lb/hr on a 3-hr avg. [District Rule 2201 and PSD SJ 85-09, X.E] Federally Enforceable Through Title V Permit

53. During startup and shutdown, emissions shall not exceed any of the following: 140.0 lb/hr of NOx on a 2-hr avg, 140 lb/hr of CO on a 2-hr avg, or 200 lb/hr of CO on a 1-hr avg. [District Rule 2201] Federally Enforceable Through Title V Permit

54. Each 1-hour period in a 1, 2 or 3-hour average will commence on the hour. The 3-hour average will be compiled from the three most recent 1-hour periods. The 2-hour average will be compiled from the two most recent 1-hour periods. [District Rule 1080] Federally Enforceable Through Title V Permit

55. Daily Emissions for the unit may be determined from the arithmetic mean of three, 40-minute test runs for NOx and CO, multiplied by the appropriate factor. [District Rule 2520, 9.4.2 and District Rule 4703] Federally Enforceable Through Title V Permit

56. Source testing to determine NOx and CO emissions and fuel gas sulfur content shall be conducted annually. [District Rule 1081] Federally Enforceable Through Title V Permit

57. Annual compliance tests shall be conducted by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1081] Federally Enforceable Through Title V Permit

58. Continuous emission monitoring system for NOx as NO2 and continuous monitoring system for CO & CO2 shall serve each CGT flue gas stream, shall conform to SJVUAPCD Rule 1080 specifications, shall meet EPA monitoring performance specifications, & shall be operational whenever the turbine is in operation. [District Rule 1080 and PSD SJ 85-09, X.D.1 and .2] Federally Enforceable Through Title V Permit

59. All continuous emissions monitoring systems shall be calibrated and operated according to EPA guidelines as specified in 40 CFR 60, Appendix B and 40 CFR 52, Appendix E. CEM ppm and lb/hr shall be calculated as a three-hour and a 1-hour average. [District Rule 1080 and PSD SJ 85-09 X.D.2] Federally Enforceable Through Title V Permit

60. Quarterly continuous emission monitoring system reports shall be submitted to the District, EPA and CEC, as required by EPA regulations as specified in CFR Title 40, Part 58, Appendix B and Part 60 Appendix B. [District Rule 1080 and PSD SJ 85-09, X.D.5] Federally Enforceable Through Title V Permit

61. Audits of continuous emission monitoring system shall be conducted in accordance with EPA guidelines, witnessed at the District's discretion, and reports shall be submitted to the District within 60 days of such an audit. [District Rule 1080 and PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

62. The Relative Accuracy Audit shall be conducted by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1080 and PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

63. Startup and shutdown of CGT, as defined in 40 CFR, Subpart A 60.2, shall not exceed a time period of two hours and two hours, respectively, per occurrence. [40 CFR 60.8] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

64. NO2 and CO daily emissions during days of startup/shutdown shall be calculated from natural gas combustion rates and CEM results. [District Rule 1080] Federally Enforceable Through Title V Permit

65. Daily records of NO2 and CO emission calculations during days of gas turbine startup/shutdown shall be maintained and such records shall be made readily available for District inspection upon request for a period of five years. [District Rule 1080] Federally Enforceable Through Title V Permit

66. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

67. The Regional Administrator shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

68. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the conditions of this permit, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

69. The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

70. At such times as specified by the USEPA, permittee shall conduct or cause to be conducted performance tests (as described in 40 CFR 60.8) for CO on the exhaust stack gases and furnish the District, the California ARB and the USEPA a written report of the results of such tests. All performance tests shall be conducted on an annual basis and at the maximum operating capacity of the emissions unit being tested. Upon written request from permittee, and adequate justification, USEPA may waive a specific annual test and/or allow for testing to be done at less than maximum operating capacity. [PSD SJ 85- 09] Federally Enforceable Through Title V Permit

71. Performance tests for the emissions of CO shall be conducted and results reported in accordance with the test methods set forth in 40 CFR 60.8 and 40 CFR 60, Appendix A. The performance tests for the emissions of CO shall be conducted using EPA Methods 1 through 4 and 10. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

72. The USEPA shall be notified in writing at least 30 days in advance of such test to allow time for development of an approvable performance test plan and to arrange for an observer to be present at the test. Such prior approval shall minimize the possibility of USEPA rejection of test results for procedural deficiencies. In lieu of the above mentioned test methods, equivalent methods may be used with prior written approval from the USEPA. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

73. Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for the purposes of this permit. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

74. For performance test purposes, sampling ports, platforms, and access shall be provided by the facility on the emission unit exhaust system in accordance with 40 CFR 60.8(e). [PSD SJ 85-09] Federally Enforceable Through Title V Permit

75. The cogeneration facility is subject to the federal regulations entitled Standards of Performance for New Stationary Sources (40 CFR 60). The owner or operator shall meet all applicable requirements of Subparts A and GG of this regulation. [PSD SJ 85- 09] Federally Enforceable Through Title V Permit

76. All correspondence as required by this permit shall be forwarded to: a) Director, Enforcement Div (Attn: A-5), EPA Region IX, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Control Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95814; c) Director, SJVUAPCD, 1990 East Gettysburg, Fresno, CA, 93726-0244; and d) the California Energy Commission, 1516 Ninth Street, Sacramento, CA, 95814-5512. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

77. The operator shall perform source testing for PM10 concentration and emission rate once per permit term using EPA Method 5. [40 CFR 60.8 (b) and (c)] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

Entered

APR 2 7 2006

Mervyn Soares
Sycamore Cogeneration Company
P O Box 80598
Bakersfield, CA 93380

Re: Proposed Authorities to Construct / Certificate of Conformity (Minor Mod)
District Facility # S-511
Project # 1060682

Dear Mr. Soares:

Enclosed for your review is the District's analysis of your application for Authorities to Construct for the facility identified above. You have requested that a Certificate of Conformity with the procedural requirements of 40 CFR Part 70 be issued with this project. The modification consists of allowing two more existing combustion turbine generators to operate without recovering exhaust heat.

After addressing any EPA comments made during the 45-day comment period, the Authorities to Construct will be issued to the facility with a Certificate of Conformity. Prior to operating with modifications authorized by the Authorities to Construct, the facility must submit an application to modify the Title V permit as an administrative amendment, in accordance with District Rule 2520, Section 11.5.

If you have any questions, please contact Mr. Thomas Goff, Permit Services Manager, at (661) 326-6900.

Thank you for your cooperation in this matter.

Sincerely,

for David Warner
Director of Permit Services

Enclosures
cc: Ben Ellenberger, Permit Services

SYCAMORE COGEN CO	
NEB	JRB
KSL	RTM
GLE	JMS
LSP	DLB
MAS	
ADD	
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Note:	
MAY -1 2006	

Northern Region Office
4800 Enterprise Way
Modesto, CA 95356-8718
(209) 557-6400 • FAX (209) 557-6475

Central Region Office
1990 East Gettysburg Avenue
Fresno, CA 93726-0244
(559) 230-6000 • FAX (559) 230-6061
www.valleyair.org

Southern Region Office
2700 M Street, Suite 275
Bakersfield, CA 93301-2373
(661) 326-6900 • FAX (661) 326-6985

San Joaquin Valley Unified Air Pollution Control District Application Review

Facility Name:	Sycamore Cogeneration Company
Mailing Address:	P.O. Box 80598 Bakersfield, CA 93380
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Other Contact:	David Stein CH2M Hill
Telephone:	(510) 587-7787
E-Mail:	dstein@ch2m.com
Processing Engineer:	Ben Ellenberger
Lead Engineer:	Leonard Scandura
Date:	April 17, 2006
Project Number:	S-1060682
Application Numbers:	S-511-2-12 and 3-12
Submitted:	February 28, 2006
Complete:	March 14, 2006

I. PROPOSAL

Sycamore Cogeneration Company (Sycamore) is a cogeneration facility located in the Kern River oilfield near Bakersfield, CA. The facility employs four (4) General Electric Frame 7EA combustion turbines (CTs) and four (4) unfired heat recovery steam generators (HRSGs) to cogenerate 300 MW (nominal rating) of electricity and 1.8 million pounds per hour of steam for enhanced oil recovery. These units are part of ChevronTexaco's Heavy Oil Central Stationary Source in the Kern County Oil Fields.

A. Sycamore is requesting that the existing Permits to Operate (PTOs) for Unit 2 (S-511-2) and Unit 3 (S-511-3) be modified to allow an additional mode of operation: producing electricity without recovering exhaust heat ("simple cycle" mode). The two units will still maintain the physical and operational ability to recover heat in the form of steam. The proposed addition to simple cycle involves a redirection of the CT exhaust through an existing bypass stack. No physical changes to the units are needed to accommodate this operation.

   This request is being made to allow Sycamore flexibility in offering dispatchable power to Southern California Edison (SCE) as part of a power purchase agreement (PPA). The PPA is due to expire and the proposed modifications will allow Sycamore to distribute cogeneration and dispatchable loads between all four (S-511-1, -2, -3, -4) units to maintain qualifying facility status. These modifications will allow Sycamore to continue the contract with SCE beyond the expiration date.

B. The stack sampling permit condition from S-511-2-10 and –3-10 (condition 45) pertains only to the HRSG stack. Emissions source testing requirements can be accomplished for both modes of operation by testing at the HRSG stack. Since there are no control devices downstream of the turbine, only testing from the HRSG stack is necessary meet the requirements of District Rule 1081. Both stacks will be equipped with continuous emissions monitors (CEMs) to ensure continuing compliance with permitted emissions limits.

   Sycamore has current, valid ATCs S-511-2-10 and –3-10 to revise permit conditions for each CTG. The revisions authorized by –2-10 and –3-10 will be implemented prior to, or concurrently with the modifications authorized by this project.

   Sycamore received their Title V Permit on October 7, 1999. This modification can be classified as a Title V minor modification pursuant to Rule 2520, Section 3.20, and can be processed with a Certificate of Conformity (COC). Since the facility has specifically requested that this project be processed in that manner, the 45-day EPA comment period will be satisfied prior to the issuance of the Authority to Construct. Sycamore must apply to administratively amend their Title V Operating Permit to include the requirements of the ATC(s) issued with this project.

II. APPLICABLE RULES

Rule 1080	Stack Monitoring (12/17/92)
Rule 1081	Source Sampling (12/16/93)
Rule 2201	New and Modified Stationary Source Review (12/15/05)
Rule 2520	Federally Mandated Operating Permits (6/15/95)
Rule 2540	Acid Rain Program (11/13/97)
Rule 4001	NSPS Subpart GG – Standards of Performance for Stationary Gas Turbines (04/14/99)
Rule 4101	Visible Emissions (2/17/05)
Rule 4102	Nuisance (12/17/92)
Rule 4201	Particulate Matter Concentration (12/17/92)
Rule 4301	Fuel Burning Equipment (12/17/92)
Rule 4703	Stationary Gas Turbines (04/25/02)
Rule 4801	Sulfur Compounds (12/17/92)

CH&S Code, Section 41700

III. PROJECT LOCATION

Sycamore is located in the center of the north ½ of Section 31, Township 28 South, Range 28 East in the Kern River Oil Field, within the central Kern County oil fields. There are no schools within 1000 feet of the project site.

IV. PROCESS DESCRIPTION

No additional physical construction is needed to facilitate operation of Units 2 and 3 without recovery of exhaust heat. Each combustion turbine generator (CTG) discharges to a heat recovery steam generator (HRSG) through a transition section that is equipped with a gas-tight bypass stack. In order to operate without recovering exhaust heat, the bypass stack damper would be repositioned to block off the HRSG, directing the CTG exhaust through the bypass stack to the atmosphere. Since the Dry-Low NOx (DLN) operation is unaffected by the positioning of the bypass damper, routing the exhaust through the bypass stack will not impact the current air pollution control system. As a result, no changes in permitted emissions limitations are required.

The current Sycamore permit allows 24-hr a day operation. While Sycamore does not propose to specifically restrict its operating schedule in the future, it is anticipated that Units 2 and 3 will operate substantially fewer hours than historical operations after contract expiration. When operated in simple cycle mode, Sycamore envisions that these units would operate without recovering exhaust heat in response to peak power demands occurring during the normal work week, Monday through Friday, and would not operate on weekends or holidays. Instead of a 24-hr operation, it is more likely that these two units would ultimately operate for no more than a 6 to 8 hr/day without recovering exhaust heat. Sycamore also anticipates that the units will operate more frequently in the summer peak power period, April through October, and less during the off-peak period of the year, November through March. When operating without recovering

exhaust heat, the number of startups and shutdowns for the affected CTG will likely be higher due to power demands.

Although the number of actual startups and shutdown emissions may be higher than during current operations (due to more frequent startups and shutdowns), no change in permitted maximum hourly, daily or annual emissions is proposed or required.

V. EQUIPMENT LISTING

Current Authority to Construct Equipment Description

S-511-2-10: 75 MW GENERAL ELECTRIC MODEL 7EA NATURAL GAS-FIRED COMBUSTION TURBINE WITH DRY LOW NOX COMBUSTORS DISCHARGING TO ATMOSPHERE THROUGH UNFIRED 450,000 LB/HR HEAT RECOVERY STEAM GENERATOR (SYCAMORE UNIT #2)

S-511-3-10: 75 MW GENERAL ELECTRIC MODEL 7EA NATURAL GAS-FIRED COMBUSTION TURBINE WITH DRY LOW NOX COMBUSTORS DISCHARGING TO ATMOSPHERE THROUGH UNFIRED 450,000 LB/HR HEAT RECOVERY STEAM GENERATOR (SYCAMORE UNIT #3)

Proposed Permit to Operate Equipment Description

S-511-2-12: 75 MW GENERAL ELECTRIC MODEL 7EA NATURAL GAS-FIRED COMBUSTION TURBINE WITH DRY LOW NOX COMBUSTORS AND OPTIONAL USE UNFIRED 450,000 LB/HR HEAT RECOVERY STEAM GENERATOR (SYCAMORE UNIT #2)

S-511-3-12: 75 MW GENERAL ELECTRIC MODEL 7EA NATURAL GAS-FIRED COMBUSTION TURBINE WITH DRY LOW NOX COMBUSTORS AND OPTIONAL USE UNFIRED 450,000 LB/HR HEAT RECOVERY STEAM GENERATOR (SYCAMORE UNIT #3)

See Attachment A for copies of conditions and equipment description for current Permits to Operate.

VI. EMISSION CONTROL TECHNOLOGY EVALUATION

The combustion turbines utilize GE's proprietary Dry Low NOx (DLN) technology. The DLN technology employs lean premixed combustion to stage combustion, resulting in reduced NOx formation. The DLN system installed at Sycamore is currently limited to 16.4 ppmv NOx and 25 ppmv CO, dry at 15% oxygen. No post-combustion emission control for either NO_x or CO is required with this system.

VII. CALCULATIONS

A. Assumptions:

Operating schedule: 24 hr/day, 365 day/yr

B. Emission Factors:

Emission rates are identical for both S-511-2 and S-511-3. The maximum air contaminant mass emission rates (lb/hr), concentrations (ppmvd @ 15% O_2), and startup and shutdown emissions rates for the CTGs are summarized below based on current permit conditions:

Table VII-1. Emission Rates During Normal Operations

	NO_X	CO	VOC	PM_{10}	SO_X
Mass Emission Rates (per turbine, lb/hr)	79.7 (1-hr avg) 67.9 (3-hr avg)	44 (3-hr avg)	2.5	5.0	0.9
ppmvd @ 15% O_2 limits	16.4 (3-hr avg)	25 (3-hr avg)	--	--	--

Table VII-2. Emission Rates During Startups and Shutdowns

	NO_X	CO	VOC	PM_{10}	SO_X
Mass Emission Rates (per turbine, lb/hr)	140 (2-hr avg)	140 (2-hr avg) 200 (1-hr avg)	2.5	5.0	0.9

It is noteworthy that the emission rates for both the pre-project and post-project cases are identical.

C. CALCULATIONS

1. Pre-Project Potential to Emit (PE1)

The pre-project potential to emit is equivalent to PE2 and is identical for both S-511-2 and S-511-3.

Table VII-3. Maximum Emissions, lb/hr[1]

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_X
S-511-2-10	140[2]	200[2]	2.5	5.0	0.9
S-511-3-10	140[2]	200[2]	2.5	5.0	0.9
Total	280	400	24	10	1.8

[1] Based on current Permit to Operate

[2] Maximum emissions for startup only. Maximum emissions during normal operation are shown in Table VII-1, above.

Table VII-4. Maximum Daily Emissions, lb/day (PE1)

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_X
S-511-2-10	1629.6[1]	1056[1]	60[2]	120[2]	21.6[2]
S-511-3-10	1629.6[1]	1056[1]	60[2]	120[2]	21.6[2]
Total	3259.4	2112	120	240	43.2

[1] Current Permit to Operate emission limit (including startup and shutdown emissions)
[2] Equals maximum hourly emissions (Table VII-3), lb/hr x 24 hr/day

Table VII-5. Maximum Annual Emissions, lb/yr[1]

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_X
S-511-2-10	594804	385440	21900	43800	7884
S-511-3-10	594804	385440	21900	43800	7884
Total	1189682	770880	43800	87600	15768

[1] Equals maximum daily emissions, lb/day x 365 day/yr

2. Historically Adjusted Potential to Emit (HAPE)

As set forth in Rule 2201, Section 4.4, the historically adjusted potential to emit for each unit is calculated as:

HAPE = PE1 x (EF2/EF1)

Since the emission factors reported in Section B, above, are identical for both the pre-project and post-project case, EF2 = EF1. Therefore,

HAPE = PE1

The HAPE is identical for both S-511-2 and S-511-3 as is shown in section 1., above as:

Table VII-6. Historically Adjusted Potential to Emit, lb/day (HAPE)

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_X
S-511-2-10	1629.6[1]	1056[1]	60[2]	120[2]	21.6[2]
S-511-3-10	1629.6[1]	1056[1]	60[2]	120[2]	21.6[2]

[1] Current Permit to Operate emission limit (including startup and shutdown emissions)
[2] Equals maximum hourly emissions (Table VII-3), lb/hr x 24 hr/day.

3. Post-Project Potential to Emit (PE2)

Table VII-7. Post-Project Maximum Emissions, lb/hr[1]

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_X
S-511-2-12	140[2]	200[2]	2.5	5.0	0.9
S-511-3-12	140[2]	200[2]	2.5	5.0	0.9
Total	280	400	5	10	1.8

[1] Based on current Permit to Operate

[2] Maximum emissions for startup only. Maximum emissions during normal operation are shown in Table VII-1, above.

Table VII-8. Post-Project Maximum Daily Emissions, lb/day

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_X
S-511-2-12	1629.6[1]	1056[1]	60[2]	120[2]	21.6[2]
S-511-3-12	1629.6[1]	1056[1]	60[2]	120[2]	21.6[2]
Total	3259.2	2112	120	240	43.2

[1] Current Permit to Operate emission limit (including startup and shutdown emissions)
[2] Equals maximum hourly emissions (Table VII-3), lb/hr x 24 hr/day

Table VII-9. Post-Project Maximum Annual Emissions, lb/yr[1]

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_X
S-511-2-12	594804	385440	21900	43800	7884
S-511-3-12	594804	385440	21900	43800	7884
Total	1189608	770880	43800	87600	15768

[1] Equals maximum daily emissions, lb/day x 365 day/yr

4. Adjusted Increase In Permitted Emissions (AIPE)

As set forth in Rule 2201, Section 4.3, the adjusted increase in permitted emissions is calculated as:

AIPE = PE2 – HAPE

Table VII-10. Adjusted Increase In Permitted Emission, lb/day (AIPE)

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_X
S-511-2					
PE2	1629.6	1056	60	120	21.6
HAPE	1629.6	1056	60	120	21.6
AIPE	0	0	0	0	0
S-511-3					
PE2	1629.6	1056	60	120	21.6
HAPE	1629.6	1056	60	120	21.6
AIPE	0	0	0	0	0

5. Pre-Project Stationary Source Potential to Emit (SSPE1)

Pursuant to Section 4.9 of District Rule 2201, the Pre-project Stationary Source Potential to Emit (SSPE1) is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATC) or Permits to Operate (PTO) at the Stationary Source and the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site.

The Sycamore facility is part of Chevron's (formerly Texaco's, formerly Getty's) Heavy Oil Central stationary source consisting of facility ID's S-88, S-511, S-

1127, S-1131, and S-1551 because the units are permitted to be used in the production of oil and are owned by Chevron.

Stationary source emissions are already above the Offset and Major Source Thresholds for all criteria pollutants; therefore, SSPE1 calculations are not necessary.

6. Post-Project Stationary Source Potential to Emit (SSPE2)

Pursuant to Section 4.9 of District Rule 2201, the Pre-project Stationary Source Potential to Emit (SSPE1) is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATC) or Permits to Operate (PTO) at the Stationary Source and the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site.

There is no change in the contribution of permit units to the SSPE. Therefore, SSPE2 equals SSPE1 and calculations are not necessary.

7. Major Source Determination

Pursuant to Section 3.24 of District Rule 2201, a major source is a stationary source with post-project emissions or a Post Project Stationary Source Potential to Emit (SSPE2), equal to or exceeding one or more of the following threshold values:

Table VII-11. Major Source Thresholds

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_X
Major Source Thresholds	50000	200000	50000	140000	140000

This source is an existing Major Source for all pollutants. No change in criteria pollutants are proposed or expected as a result of this project.

8. Baseline Emissions (BE)

BE = Pre-project Potential to Emit for:

- Any unit located at a non-Major Source,
- Any Highly-Utilized Emissions Unit, located at a Major Source,
- Any Fully-Offset Emissions Unit, located at a Major Source, or
- Any Clean Emissions Unit, located at a Major Source.

otherwise,

BE = Historic Actual Emissions (HAE), calculated pursuant to Section 3.23

NO_x, VOC, PM10 and SOx

Pursuant to Rule 2201, subsection 3.7.1.3, baseline emissions (BE) are equal to the pre-project potential to emit (PE1) for fully offset emission units located at a major stationary source. As discussed in section VII.C.9 below, except for CO, the Sycamore emission units were fully offset at the time they were originally permitted under the provisions of the then existing Kern County APCD New Source Review Rule 210.1.

Therefore, BE = PE1 for NOx, VOC, PM_{10} and SO_2

CO

For CO emissions, the emission units are not Highly Utilized, Fully Offset, nor Clean; therefore, BE=HAE.

The baseline period is the 2-year period preceding submission of the application. For this project, a baseline period of February 1, 2004 to January 31, 2006 was established based on an application submittal date of February 28, 2006.

Historical actual emissions during the baseline period were obtained from continuous emissions monitoring records available from the facility continuous emissions monitoring system (CEMS). (Due to the volume of records, this data is not included as an attachment, but can be found in the project file).

Table VII-12. Baseline Emissions

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_X
S-511-2-10	594804	44120	21900	43800	7884
S-511-3-10	594804	63050	21900	43800	7884

9. Major Modification

Rule 2201 defines a Major Modification by referencing 40CFR51.165. A Major Modification as defined in 40CFR51.165 (nonattainment plans and permitting) occurs if the Post-Project Stationary Source Potential to Emit (SSPE2) exceeds the Major Source Thresholds (as defined in Rule 2201) and the net emissions increase, is equal to or greater than one or more of the following threshold values:

Table VII-13. Major Modification Thresholds (lb/yr)

NO_X	VOC	PM_{10}	SO_X
50,000	50,000	30,000	80,000

As discussed in Section VII.C.7 above, the facility is a Major Source for all pollutants. The project must "result in" a significant increase in emissions in order to trigger a Major Modification.

However, since the Sycamore facility is located in a CO attainment area, and since 40CFR51.165 addresses Major Modifications in nonattainment areas only, this project is not a Major Modification for CO pursuant to 40CFR51.165.

(It is noted that EPA has not delegated Federal Prevention of Significant Deterioration (PSD) permitting requirements under 40CFR52.21 to the District. Sycamore has submitted an application to EPA to address PSD requirements for this project.)

According to the original project evaluation for construction and operation of the Sycamore facility (Authority to Construct issued in September of 1985), all emissions except CO were fully offset for the emissions units within this project. (For CO, modeling was performed which demonstrated that the ambient air quality standards would not be exceeded).

The reductions used to provide the offsets were tracked in the form of a cumulative net emissions change for the stationary source as allowed by the then current NSR rule. These reductions were applied to the Sycamore project to offset the emissions increases. Therefore these units qualify as Fully Offset for NO_X, VOC, PM10 and SO_X as the new emissions were fully mitigated under the New Source Review rule.

As these units are fully offset, and there is no increase in the potential to emit, this project does not "result in" an increase in emissions. Therefore calculations are not necessary and this project does not constitute a Major Modification.

VIII. COMPLIANCE

Rule 1080 *Stack Monitoring* (12/17/92)

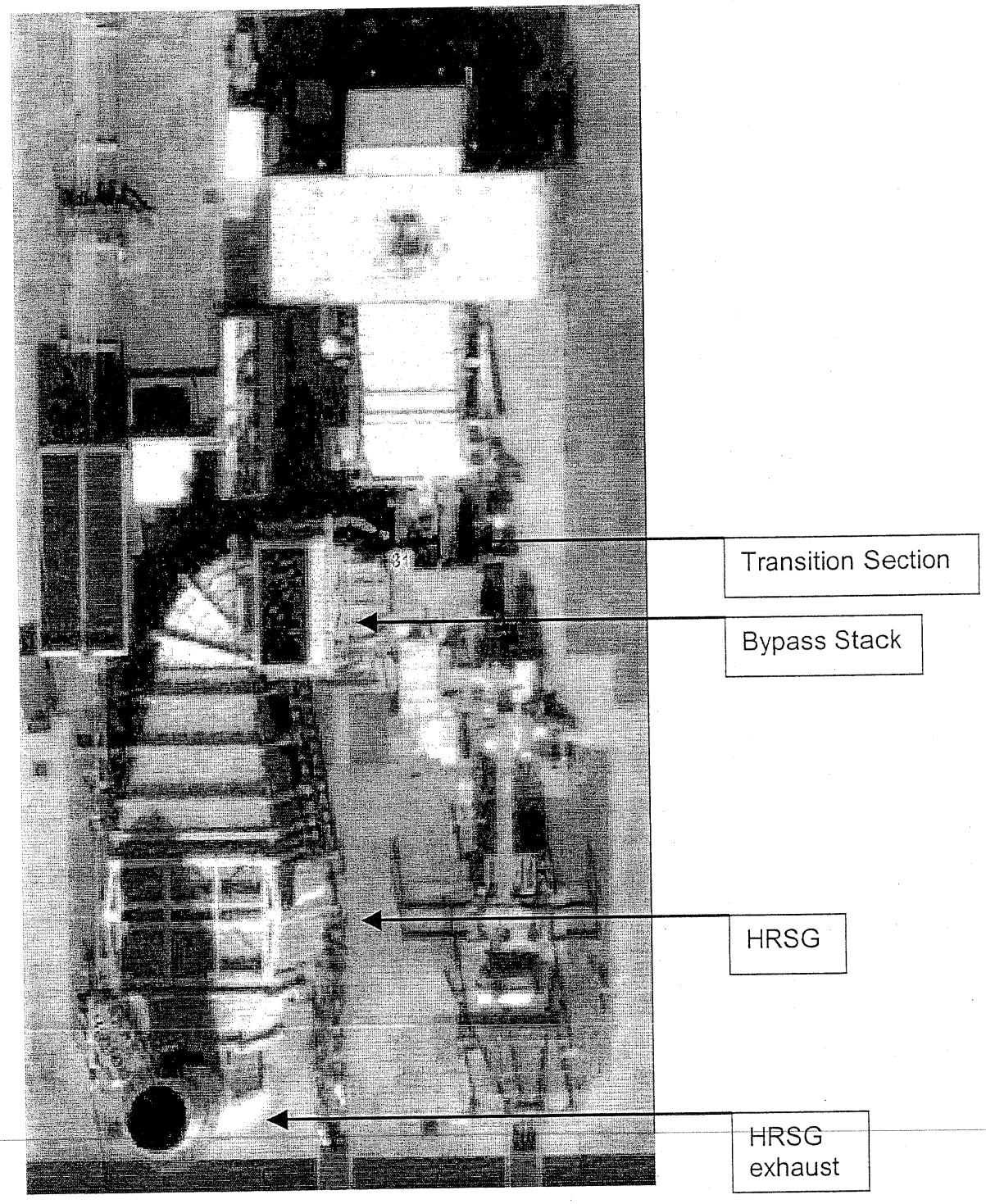
This rule allows the APCO to request the installation and use of continuous emissions monitors (CEMS), and specifies performance standards for the equipment and administrative reporting, recordkeeping and violation and equipment breakdown notification requirements. There are CEMS sampling ports in both the transition section and in the HRSG exhaust (see picture below). However, the CTG bypass stack exhaust piping has no EPA method compliant stack sampling capability. The facility is proposing to compare (RATA test) transition section CEMS concentrations with EPA method compliant source test measurements taken at the HRSG exhaust. If the source test HRSG exhaust and transition CEMS readings agree (within an acceptable range as allowed by the performance specifications for CEMS) HRSG exhaust concentrations will be considered equivalent to the transition section concentrations. This proposal has previously been approved by the District and the EPA in project 1043189 for the other two CTGs at the facility.

Annual source testing will be done at the HRSG exhaust for verification of compliance with permitted emission rates. For ongoing compliance, CEMS in the transition section will be used to verify compliance for simple cycle operation and CEMS in the HRSG exhaust will be used to verify compliance for combined cycle operation.

The following condition will be listed on the ATC:

- HRSG stack shall be equipped with permanent stack sampling provisions consistent with District Rule 1081, EPA reference Methods 5 and 8 and OSHA requirements. [District Rule 1081]

Compliance with this rule is expected.



Rule 1081 *Source Sampling* (12/16/93)

This rule requires adequate and safe facilities for use in sampling to determine compliance and specifies methods and procedures for source testing, sample collection and compliance determination. The existing operating permits already demonstrate compliance with the requirements of this rule for the HRSG stack. CEMS extraction ports already exist at the HRSG and at the transition section upstream of the bypass stack.

Rule 2201 *New and Modified Stationary Source Review* (12/15/05)

These modifications are a change in the method of operation of existing emissions units, therefore they are subject to Rule 2201.

A. Best Available Control Technology (BACT)

1. BACT Applicability

BACT requirements are triggered on a pollutant-by-pollutant basis and on an emissions unit-by-emissions unit basis for the following*:

a. Any new emissions unit with a potential to emit exceeding two pounds per day,
b. The relocation from one Stationary Source to another of an existing emissions unit with a potential to emit exceeding two pounds per day,
c. Modifications to an existing emissions unit with a valid Permit to Operate resulting in an AIPE exceeding two pounds per day, and/or
d. Any new or modified emissions unit, in a stationary source project, which results in a Major Modification.

*Except for CO emissions from a new or modified emissions unit at a Stationary Source with an SSPE2 of less than 200,000 pounds per year of CO.

a. New emissions units – PE > 2 lb/day

As discussed in Section I above, there are no new emissions units associated with this project; therefore BACT for new units with PE > 2 lb/day purposes is not triggered.

It is also noted that allowing operation without recovering exhaust heat does not change the class or category of source since these units will retain the physical and operational ability to operate in cogeneration mode.

b. Relocation of emissions units – PE > 2 lb/day

As discussed in Section I above, there are no emissions units being relocated from one stationary source to another; therefore BACT is not triggered.

c. Modification of emissions units – AIPE > 2 lb/day

AIPE = PE2 – HAPE

Where,
AIPE = Adjusted Increase in Permitted Emissions, (lb/day)
PE2 = Post-Project Potential to Emit, (lb/day)
HAPE = Historically Adjusted Potential to Emit, (lb/day)

HAPE = PE1 x (EF2/EF1)

Where,
PE1 = The emissions unit's Potential to Emit prior to modification or relocation, (lb/day)
EF2 = The emissions unit's permitted emission factor for the pollutant after modification or relocation. If EF2 is greater than EF1 then EF2/EF1 shall be set to 1
EF1 = The emissions unit's permitted emission factor for the pollutant before the modification or relocation

AIPE = PE2 – (PE1 * (EF2 / EF1))

For this project, there is no change in emission factor or potential to emit. Therefore the AIPE is zero and BACT is not triggered.

d. Major Modification

As discussed in Section VII.C.7 above, this project does not constitute a Major Modification; therefore BACT is not triggered.

B. Offsets

1. Offset Applicability

Pursuant to Section 4.5.3, offset requirements shall be triggered on a pollutant by pollutant basis and shall be required if the Post-project Stationary Source Potential to Emit (SSPE2) equals to or exceeds the offset threshold levels in Table 4-1 or Rule 2201.

The SSPE2 is above the offset threshold for all criteria pollutants, therefore offset requirements are triggered for all criteria pollutants.

2. Quantity of Offsets Required

Pursuant to Rule 2201, subsection 4.7.1, since the Pre-project SSPE is greater that the emission offset thresholds for all pollutants, the SSPE is calculated as the difference between PE2 and Baseline Emissions (BE) for each unit:

Emissions to be offset = PE2 – BE

NO_x, VOC, PM10 and SOx

Pursuant to Rule 2201, subsection 3.7.1.3, baseline emissions (BE) are equal to the pre-project potential to emit (PE1) for fully offset emission units and for pollutants for which a source is not a major stationary source. As discussed in

section VII.C.10 above, except for CO, the Sycamore emission units were fully offset at the time they were originally permitted under the provisions of the then existing Kern County APCD New Source Review Rule 210.1.

Therefore, BE = PE1 for NOx, VOC, PM_{10} and SO_2

From the pre and post-project potential to emit analysis above, PE1 = PE2 (see Section VII C.1 and 2., above).

Therefore, BE = PE2 and emissions to be offset for NOx, VOC, PM_{10} and SO_2 = 0

CO

For CO, baseline emissions from February 2004 through January 2006 were obtained from continuous emissions monitoring records available from the facility continuous emissions monitoring system (CEMS). This data is included in the project file. The quantity of offsets required for CO are calculated below.

Table VIII-15. Determination of CO Emission Offset Requirements, lb/yr

	CO
Post-project Potential to Emit (PE2)	770880
Baseline Emissions (S-511-2 & S-511-3)	107170
Required CO Offsets	663710

The applicant has provided an air quality impact analysis demonstrating that post-project CO emissions will not cause or contribute to a violation of the applicable CO ambient air quality standards. District-performed modeling also indicates that post-project CO emissions will not cause or contribute to a violation of the applicable CO ambient air quality standards. Pursuant to Section 4.6.1 of Rule 2201, the project is therefore exempt from CO emission offset requirements. See Attachment C for summary of District modeling results.

C. Public Notification

1. Applicability

Public noticing is required for:

a. Any new Major Source, which is a new facility that is also a Major Source,
b. Major Modifications,
c. Any new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any one pollutant,
d. Any project which results in the offset thresholds being surpassed, and/or
e. Any project with an SSIPE of greater than 20,000 lb/year for any pollutant.

a. New Major Source

New Major Sources are new facilities, which are also Major Sources. Since this is not a new facility, public noticing is not required for this project for New Major Source purposes.

b. Major Modification

As demonstrated in VII.C.7, this project does not constitute a Major Modification; therefore, public noticing for Major Modification purposes is not required.

c. PE > 100 lb/day

Applications which include a new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any pollutant will trigger public noticing requirements. There are no new emissions units associated with this project; therefore public noticing is not required for this project for Potential to Emit Purposes.

d. Offset Threshold

Public notification is required if the Pre-Project Stationary Source Potential to Emit (SSPE1) is increased from a level below the offset threshold to a level exceeding the emissions offset threshold, for any pollutant.

There is no change in SSPE with this project. Offset thresholds are not being surpassed. Therefore, public noticing is not required for offset purposes. (It is noted that this existing source is above offset thresholds for all pollutants.)

e. SSIPE > 20,000 lb/year

Public notification is required for any permitting action that results in a Stationary Source Increase in Permitted Emissions (SSIPE) of more than 20,000 lb/year of any affected pollutant. According to District policy, the SSIPE is calculated as the Post Project Stationary Source Potential to Emit (SSPE2) minus the Pre-Project Stationary Source Potential to Emit (SSPE1), i.e. SSIPE = SSPE2 – SSPE1. The values for SSPE2 and SSPE1 are calculated according to Rule 2201, Sections 4.9 and 4.10, respectively.

There is no change in SSPE with this project. Therefore SSPE2=SSPE1 and the SSIPE is zero. Therefore public noticing for SSIPE purposes is not required.

2. Public Notice Action

As discussed above, this project will not result in emissions, for any criteria pollutant, which would subject the project to any of the noticing requirements listed above. Therefore, public notice will not be required for this project.

D. Daily Emission Limits (DELs)

Daily Emissions Limitations (DELs) and other enforceable conditions are required by Section 3.17 to restrict a unit's maximum daily emissions, to a level at or below the emissions associated with the maximum design capacity. Per Sections 3.17.1 and 3.17.2, the DEL must be contained in the latest ATC and contained in or enforced by the latest PTO and enforceable, in a practicable manner, on a daily basis. DELs are also required to enforce the applicability of BACT.

The existing PTO contains explicit DELs, validated by the use of continuous emission monitors for NO_x and CO, and fuel use monitoring for SOx. These same conditions will be carried onto the ATCs issued with this project. The following new conditions will be listed on the permits:

- CGT may exhaust either through unfired 450,000 lb/hr heat recovery steam generator or through bypass stack. [District Rule 2201]

- When operating in cogeneration mode, exhaust gas ducting from CGT's through HRSG's to the atmosphere shall be gas-tight. [District Rule 2201]

- Bypass stack valve preceding each HRSG shall be designed to be gas-tight to the atmosphere when exhaust is discharged through HRSG and shall be designed to be gas-tight to the HRSG when exhaust is discharged through the bypass stack. [District Rule 2201]

No further conditions are necessary.

E. Compliance Assurance

1. Source Testing

The gas turbine engines are required to be source tested annually for NO_x and CO, and fuel sulfur content per Rule 2201 and Rule 4703, and once per 5-year permit term for PM10. No change in source testing will occur with this project as there is no change in emission control systems or change in permitted emission rates.

2. Monitoring

NO_x and CO emissions are monitored by the use of continuous emissions monitors. This monitoring satisfies Rule 2201 and Rule 4703 requirements. No additional monitoring is proposed or required.

3. Recordkeeping

Sycamore is required to maintain records of emissions, source test results, CEM operations, etc. No changes are proposed or required.

4. Reporting

Sycamore is required to report deviations, CEM breakdowns, equipment breakdowns, and other malfunctions. No changes are proposed or required.

Rule 2520 *Federally Mandated Operating Permits (06/21/2001)*

Sycamore has received their initial Title V Permit and is subject to this rule. This project qualifies as a minor modification to the Title V permit.

Sycamore has requested to have the ATC issued with a Certificate of Conformity (COC), and a copy of Sycamore Compliance Certification is provided in Attachment B. A 45-day EPA project review period is required. Compliance with this rule is expected.

Rule 2540 *Acid Rain Program (11/13/97)*

The existing units are exempt (are not "affected units") from the acid rain program pursuant to 40 CFR 72.6 (b)(1) because they are considered "simple combustion turbines that commenced commercial operation before November 15, 1990." The existing units commenced commercial operation before November 15, 1990. The definition of "simple combustion turbine" is provided in 40 CFR 72.2 as follows:

> *"Simple combustion turbine* means a unit that is a rotary engine driven by a gas under pressure that is created by the combustion of any fuel. This term includes combined cycle units without auxiliary firing. This term excludes combined cycle units with auxiliary firing, unless the unit did not use the auxiliary firing from 1985 through 1987 and does not use auxiliary firing at any time after November 15, 1990."

Since "simple combustion turbine" definition includes the combined cycle units without auxiliary firing, Sycamore is considered a combined cycle unit without auxiliary firing and is therefore exempt under the provisions of 40 CFR 72.6 (b) (1). The units will continue to be considered "simple combustion turbines" when converted from cogeneration to simple cycle mode and Sycamore will continue to be exempt from Rule 2540. Compliance is expected.

Rule 4001 *NSPS Subpart GG – Standards of Performance for Stationary Gas Turbines (04/14/99)*

The turbines are subject to Subpart GG, which limits oxides of nitrogen and sulfur from stationary gas turbines. The current operating permits include NOx and SOx limits that meet the standards of Subpart GG. These operating permit limits will not be changed. Also, reporting and notification requirements specified in Subpart A are also contained in the current operating permits.

Rule 4101 *Visible Emissions (2/17/05)*

The current permit unit requirements limit visible emissions greater than 20% opacity (No. 1 Ringelmann) to periods less than three minutes in any one hour period. Continued compliance is expected.

Rule 4102 *Nuisance (12/17/92)*

The current facility has not generated any nuisance complaints. Operation of the turbines without recovering exhaust heat is not expected to result in any nuisance complaints. Continued compliance is expected.

A. California Health & Safety Code 41700

Pursuant to District's Risk Management Policy APR 1905, for any sources with increases in hazardous air pollutant (HAP) emissions, the health risks resulting from such projects must be evaluated. The health risk assessment (HRA) process begins with the calculation of a "prioritization score" using CAPCOA Facility Prioritization Guidelines. If the facility-wide prioritization score is ≤ 1.0, then the project is approvable without further analysis of the health risks.

There is no change in HAP emissions with this project. However, because the bypass stack has different dimensions that the HRSG stack, and since the exhaust gas temperature will be different, the existing prioritization score was determined to see if further risk screening was necessary. This project has a prioritization score of 0.49; therefore, no further screening is required. See Attachment C for summary of results.

B. Discussion of T-BACT

Since the prioritization score is less than 1, T-BACT is not required.

Rule 4201 *Particulate Matter Concentration (12/17/92)*

Rule 4201 limits PM emissions from any source operation to less than 0.1 gr/dscf. The current operating permit limits PM emissions to less than 0.0072 gr/scf at 12% CO2 for each turbine. The proposed modifications will not alter this limit and continued compliance is expected.

Rule 4301 *Fuel Burning Equipment (12/17/92)*

Section 3.1 defines fuel burning equipment as "any furnace, boiler, apparatus, stack, and all appurtenances thereto, used in the process of burning fuel for the primary purpose of producing heat or power by indirect heat transfer". The CTGs primarily produce power via mechanical means where the combustions gas is passed across the turbine blades to drive the turbine shaft, which, in turn, drives an electrical generator shaft to produce electricity. Because mechanical means are primarily used to produce electricity, the CTGs do not meet the definition of fuel burning equipment and this rule does not apply.

Rule 4703 *Stationary Gas Turbines (04/25/02)*

This rule limits NOx and CO emissions from stationary gas turbines. The Sycamore turbines are currently in compliance with the emission limits and monitoring requirements of this rule. Future requirements include lowering of the NO_x limit to 3 ppmv @ 15% O_2 per the Enhanced option. Sycamore has submitted a compliance plan stating that they will comply with the Enhanced Option by 2008 or at the first overhaul, as required by the rule. Compliance is expected.

Rule 4801 *Sulfur Compounds (12/17/92)*

Rule 4801 limits sulfur compound emission to 0.2% (2,000 ppm) dry volume. SOx emissions from the turbines are based on combusting natural gas with a fuel sulfur content limited by the operating permit at 0.3 gr/100 scf. This fuel S content (assuming 1020 Btu/scf, LHV) results in a SOx emission concentration of approximately 0.2 ppmvd @ 15% O2. This is in compliance with the 2,000 ppm limit.

IX. RECOMMENDATION

Make preliminary decision to approve, with copy sent to EPA and California Energy Commission for additional input. After 45-day EPA comment period, issue ATCs. See Attachment D for ATC conditions.

X. BILLING INFORMATION

Application filing fees have been received.

No change in annual fees result with this project.

Permit Number	Fee Schedule	Fee Rating	Annual Fee
S-511-2-12	3020-8B-A	75,000 kW	$ 8757
S-511-3-12	3020-8B-A	75,000 kW	$ 8757

Appendices

A: Current PTO(s)
B: Compliance Certification
C: HRA Memo
D: Draft ATC(s)
E: Emission Profile(s)

Attachment A

Current Permits to Operate

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: S-511-2-10 **ISSUANCE DATE:** 02/01/2005

LEGAL OWNER OR OPERATOR: SYCAMORE COGENERATION CO
MAILING ADDRESS: P O BOX 80598
BAKERSFIELD, CA 93380

LOCATION: HEAVY OIL CENTRAL
CA

SECTION: u31 **TOWNSHIP:** 28S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
MODIFICATION OF 75 MW GENERAL ELECTRIC MODEL 7EA NATURAL GAS-FIRED COMBUSTION TURBINE COGENERATION UNIT WITH DRY LOW NOX COMBUSTORS: REMOVE REQUIREMENT TO OPERATE AS A COGENERATION FACILITY, REINSTATE 2-HR NOX STARTUP EMISSION LIMIT, AND COMBINE SO2 AND SO4 EMISSION LIMITS (SYCAMORE UNIT#2)

CONDITIONS

1. This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District NSR Rule] Federally Enforceable Through Title V Permit
2. Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. CGT shall be fired on natural gas only. There shall be no provisions for oil firing. Natural gas used as fuel shall be pipeline quality with sulfur content of 0.3 gr/100 scf or less (0.001% sulfur by weight). [District NSR Rule; Kern County Rule 407] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 326-6900 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

for DAVID WARNER, Director of Permit Services

4. The owner or operator shall not exceed the following applicable Tier 1 NOx emission rate of (15 x EFF / 25) ppmvd @ 15% O2, under load conditions, excluding thermal stabilization periods or reduced load periods, where EFF (efficiency) is the higher of EFF1 {100% x (3,412 Btu/kW-hr) / (Actual Heat Rate at HHV, Btu/kW-hr)} or EFF2 {EFFmfr x (LHV / HHV)} where actual heat rate is a ratio of the heat input to power output taking into account the manufacturer's listed turbine efficiency, HHV is the higher heating value of the fuel, LHV is the lower heating value of the fuel, and EFFmfr is the manufacturer's continuous rated percent efficiency of the gas turbine with air pollution equipment at LHV. An EFF that is less than 25 shall be assigned a value of 25. [40 CFR 60.332(a)(1) and (a)(2) District Rule 4703, 5.1.1] Federally Enforceable Through Title V Permit

5. Reduced Load Period shall be defined as the time during which a gas turbine is operated at less than rated capacity in order to change the exhaust gas diverter gate not exceeding one hour. [District Rule 4703, 3.19] Federally Enforceable Through Title V Permit

6. Thermal Stabilization Period shall be defined as the start up or shut down time during which the exhaust gas is not within the normal operating range, not to exceed two hours. [District Rule 4703, 3.25] Federally Enforceable Through Title V Permit

7. Operator shall conform with the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit

8. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3246, D4468 or D6667. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit

9. If the turbine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested in accordance with the requirements of 40 CFR 60.334 (h) and 40 CFR 60.334(i). [40 CFR 60.334 (h) and 40 CFR 60.334(i)] Federally Enforceable Through Title V Permit

10. The HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit

11. The owner or operator shall provide source test information annually regarding the exhaust gas NOx and CO concentration corrected to 15% O2 (dry). EPA Methods 7E or 20 shall be used for NOx emissions. EPA Methods 10 or 10B shall be used for CO emissions. EPA Methods 3, 3A, or 20 shall be used for Oxygen content of the exhaust gas. [40 CFR 60.8(a), 40 CFR 60.335(b) and District Rule 4703, 5.1, 6.3.1, 6.4.1, 6.4.2, and 6.4.3] Federally Enforceable Through Title V Permit

12. The owner or operator shall provide source test information annually regarding the demonstrated percent efficiency (EFF) as defined in District Rule 4703 (as amended 4/25/02), 5.1.1 and 6.4.6. [40 CFR 60.332(a) and (b) and District Rule 4703, 5.1.1 and 6.4.6] Federally Enforceable Through Title V Permit

13. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit

14. Sulfur compound emissions shall not exceed 0.015% by volume, 150 ppmv, on a dry basis averaged over 15 consecutive minutes. [40 CFR 60.333(a); County Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus)] Federally Enforceable Through Title V Permit

15. All continuous monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the device. [40 CFR 60.13(b)] Federally Enforceable Through Title V Permit

16. Operations during periods of startup and shutdown shall not constitute representative conditions for the purpose of a NOx performance test nor shall NOx emissions in excess of the level of the emission limit shown in this permit during periods of startup and shutdown be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)] Federally Enforceable Through Title V Permit

17. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.1.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

18. Records shall be maintained and shall contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit

19. If the turbine is fired on PUC-regulated natural gas, then maintain on file copies of natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

20. The owner or operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

21. Results of the CEM system shall be averaged over a three hour period, using consecutive 15-minute sampling periods in accordance with either EPA Method 7E or EPA Method 20 for NOx, EPA Test Methods 10 or 10B for CO, or EPA Methods 3, 3A, or 20 for O2, or, if continuous emission monitors are used, all applicable requirements of CFR 60.13. [40 CFR 60.13 and District Rule 4703, 5.1, 6.4] Federally Enforceable Through Title V Permit

22. The owner or operator shall not operate the gas turbine after April 30, 2008, or within 90 days following a Major Overhaul if the overhaul occurs after April 30, 2004, under load conditions, excluding the thermal stabilization period or reduced load period, which results in the measured NOx emissions concentration exceeding 3 ppmv @ 15% O2. [District Rule 4703, 5.1.2.1] Federally Enforceable Through Title V Permit

23. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the following: the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(b); District Rules 2520, 9.4.2 and 4703, 6.2.4; PSD SJ 85-09, X.D.1] Federally Enforceable Through Title V Permit

24. Operator shall operate and maintain in calibration a system which continuously measures and records the following: control system operating parameters, elapsed time of operation, the exhaust gas NOx and O2 or CO2 concentration . [40 CFR 60.334(b),(c) and District Rules 2520, 9.4.2 and 4703] Federally Enforceable Through Title V Permit

25. CEM cycling times shall be those specified in 40 CFR, Part 51, Appendix P, Sections 3.4 and 3.4.2, or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080, 6.4] Federally Enforceable Through Title V Permit

26. The continuous NOx and O2 monitoring system shall meet the performance specification requirements in 40 CFR 60, Appendix F, 40 CFR 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080, 6.3, 6.5, 6.6 and 7.2] Federally Enforceable Through Title V Permit

27. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit

28. The owner or operator shall maintain records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM system that has been installed pursuant to District Rule 1080 (as amended 12/17/92), and emission measurements. [40 CFR 60.8(d) and District Rule 1080, 7.0] Federally Enforceable Through Title V Permit

29. APCO or an authorized representative shall be allowed to inspect, as he or she determines to be necessary, the monitoring devices required by this rule to ensure that such devices are functioning properly. [District Rule 1080, 11.0] Federally Enforceable Through Title V Permit

30. Operator shall submit a quarterly report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(i)] Federally Enforceable Through Title V Permit

31. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

32. The APCO shall be notified no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0; PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

33. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus) as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

34. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.332(a), (a)(1), (a)(2) 60.333 (a) and (b); 60.334 (a), (b), (c), (h) and (j)(2), (j)(5) and 60.335(a) and (b); District Rule 4703 (as amended 4/25/02), Sections 5.1.1, 5.2, 6.1, 6.3.1, 6.3.3, 6.4, 6.4.5, and 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

35. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.7(b), 60.8, 60.8(d), 60.13, and 60.13(b); District Rules 1080 (as amended 12/17/92), Sections 6.3, 6.4, 6.5, 7.0, 7.1, 7.2, 7.3, 8.0, 9.0, 10.0, and 11.0; and 1081 (as amended 12/16/93) as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

36. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO and EPA. The report is due on the 30th day following the end of the calendar quarter and shall include the following: A. time intervals, data and magnitude of excess emissions (computed in accordance with 40 CFR 60.13(h)), nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard. [District Rule 1080, 8.0 and PSD SJ 85-09, X.D.3 and X.D.5.a through e] Federally Enforceable Through Title V Permit

37. The written report for each calendar quarter shall also include the following: C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. Excess emissions shall be defined as any 3-hour period during which the average emissions for CO, as measured by the CEM system, exceeds the emission limit set forth in PSD SJ 85-09, X.E. [District Rule 1080, 8.0; PSD SJ 85-09, X.D.3 and X.D.5.a through e] Federally Enforceable Through Title V Permit

38. The CGT combustors shall be a dry low NOx design capable of achieving 16.4 ppm or lower at 15% O2. [District Rule 4703 and PSD SJ 85-09, X.B] Federally Enforceable Through Title V Permit

39. Each CGT shall have a maximum heat input rate of 1020 MMBTU/hr on an LHV basis. Firing rate can be increased upon District witnessed emission sampling demonstration that compliance with emission sampling limits can be achieved at higher fuel rates. [District NSR Rule] Federally Enforceable Through Title V Permit

40. Permit unit shall include one unfired heat recovery steam generator (HRSG) for gas turbine engine assembly with rated steam output of 450,000 lb/hr at 80% quality steam production. [District NSR Rule] Federally Enforceable Through Title V Permit

41. Exhaust gas ducting from CGTs through HRSGs to the atmosphere shall be gas-tight. [District NSR Rule] Federally Enforceable Through Title V Permit

42. Bypass stack valve preceding each HRSG shall be designed to be gas-tight. [District NSR Rule] Federally Enforceable Through Title V Permit

43. Each CGT shall have a fuel consumption monitor/recorder. [District NSR Rule and PSD SJ 85-09, X.D.1] Federally Enforceable Through Title V Permit

44. Exhaust gas particulate matter concentration shall not exceed 0.0072 gr/scf calculated at 12% CO2. [District NSR Rule] Federally Enforceable Through Title V Permit

45. Each HRSG exhaust stack shall be equipped with permanent stack sampling provisions consistent with District Rule 1081, EPA reference Methods 5 and 8 and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

46. Operational records (including but not limited to: fuel characteristics, etc.) shall be maintained by Sycamore Cogeneration Company. [District NSR Rule] Federally Enforceable Through Title V Permit

47. Accurate records of NOx (as NO2) and carbon monoxide (CO) flue gas concentrations corrected to 15% O2, dry and CGT fuel sulfur content shall be maintained and shall be reported as described by District Rule 1080 and upon request. [District Rule 1080] Federally Enforceable Through Title V Permit

48. Emission rates from CGT shall not exceed any of the following: PM10 - 5.0 lb/hr, SOx (as SO2) - 0.9 lb/hr, or VOC - 2.5 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit

49. Emission rates from CGT shall not exceed any of the following: PM10 - 120.0 lb/day, SOx (as SO2) - 21.6 lb/day, NOx (as NO2) - 1,629.6 lb/day, VOC - 60.0 lb/day, or CO - 1056.0 lb/day. [District Rule 2201and PSD SJ 85-09, X.E] Federally Enforceable Through Title V Permit

50. Emission rates from CGT, except during startup and/or shutdown, shall not exceed any of the following: NOx (as NO2) - 16.4 ppmvd @ 15% O2, 67.9 lb/hr on a 3-hr avg, 79.7 lb/hr on a 1-hr avg, or CO - 25 ppmvd @ 15% O2, 44.0 lb/hr on a 3-hr avg. [District Rule 2201 and PSD SJ 85-09, X.E] Federally Enforceable Through Title V Permit

51. During startup and shutdown, emissions shall not exceed any of the following: 140.0 lb/hr of NOx on a 2-hr avg, or 140 lb/hr of CO on a 2-hr avg. [District Rule 2201] Federally Enforceable Through Title V Permit

52. Each 1-hour period in a 1, 2 or 3-hour average will commence on the hour. The 3-hour average will be compiled from the three most recent 1-hour periods. The 2-hour average will be compiled from the two most recent 1-hour periods. [District Rule 1080] Federally Enforceable Through Title V Permit

53. Daily Emissions for the unit may be determined from the arithmetic mean of three, 40-minute test runs for NOx and CO, multiplied by the appropriate factor. [District Rule 2520, 9.4.2 and District Rule 4703] Federally Enforceable Through Title V Permit

54. Source testing to determine NOx and CO emissions and fuel gas sulfur content shall be conducted annually. [District Rule 1081] Federally Enforceable Through Title V Permit

55. Annual compliance tests shall be conducted by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1081] Federally Enforceable Through Title V Permit

56. Continuous emission monitoring system for NOx as NO2 and continuous monitoring system for CO & CO2 shall serve each CGT flue gas stream, shall conform to SJVUAPCD Rule 1080 specifications, shall meet EPA monitoring performance specifications, & shall be operational whenever the turbine is in operation. [District Rule 1080 and PSD SJ 85-09, X.D.1 and .2] Federally Enforceable Through Title V Permit

57. All continuous emissions monitoring systems shall be calibrated and operated according to EPA guidelines as specified in 40 CFR 60, Appendix B and 40 CFR 52, Appendix E. CEM ppm and lb/hr shall be calculated as a three-hour and a 1-hour average. [District Rule 1080 and PSD SJ 85-09 X.D.2] Federally Enforceable Through Title V Permit

58. Quarterly continuous emission monitoring system reports shall be submitted to the District, EPA and CEC, as required by EPA regulations as specified in CFR Title 40, Part 58, Appendix B and Part 60 Appendix B. [District Rule 1080 and PSD SJ 85-09, X.D.5] Federally Enforceable Through Title V Permit

59. Audits of continuous emission monitoring system shall be conducted in accordance with EPA guidelines, witnessed at the District's discretion, and reports shall be submitted to the District within 60 days of such an audit. [District Rule 1080 and PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

60. The Relative Accuracy Audit shall be conducted by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1080 and PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

61. Startup and shutdown of CGT, as defined in 40 CFR, Subpart A 60.2, shall not exceed a time period of two hours and two hours, respectively, per occurrence. [40 CFR 60.8] Federally Enforceable Through Title V Permit

62. NO2 and CO daily emissions during days of startup/shutdown shall be calculated from natural gas combustion rates and CEM results. [District Rule 1080] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

63. Daily records of NO2 and CO emission calculations during days of gas turbine startup/shutdown shall be maintained and such records shall be made readily available for District inspection upon request for a period of five years. [District Rule 1080] Federally Enforceable Through Title V Permit

64. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

65. The Regional Administrator shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

66. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the conditions of this permit, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

67. The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

68. At such times as specified by the USEPA, permittee shall conduct or cause to be conducted performance tests (as described in 40 CFR 60.8) for CO on the exhaust stack gases and furnish the District, the California ARB and the USEPA a written report of the results of such tests. All performance tests shall be conducted on an annual basis and at the maximum operating capacity of the emissions unit being tested. Upon written request from permittee, and adequate justification, USEPA may waive a specific annual test and/or allow for testing to be done at less than maximum operating capacity. [PSD SJ 85- 09] Federally Enforceable Through Title V Permit

69. Performance tests for the emissions of CO shall be conducted and results reported in accordance with the test methods set forth in 40 CFR 60.8 and 40 CFR 60, Appendix A. The performance tests for the emissions of CO shall be conducted using EPA Methods 1 through 4 and 10. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

70. The USEPA shall be notified in writing at least 30 days in advance of such test to allow time for development of an approvable performance test plan and to arrange for an observer to be present at the test. Such prior approval shall minimize the possibility of USEPA rejection of test results for procedural deficiencies. In lieu of the above mentioned test methods, equivalent methods may be used with prior written approval from the USEPA. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

71. Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for the purposes of this permit. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

72. For performance test purposes, sampling ports, platforms, and access shall be provided by the facility on the emission unit exhaust system in accordance with 40 CFR 60.8(e). [PSD SJ 85-09] Federally Enforceable Through Title V Permit

73. The cogeneration facility is subject to the federal regulations entitled Standards of Performance for New Stationary Sources (40 CFR 60). The owner or operator shall meet all applicable requirements of Subparts A and GG of this regulation. [PSD SJ 85- 09] Federally Enforceable Through Title V Permit

74. All correspondence as required by this permit shall be forwarded to: a) Director, Enforcement Div (Attn: A-5), EPA Region IX, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Control Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95814; c) Director, SJVUAPCD, 1990 East Gettysburg, Fresno, CA, 93726-0244; and d) the California Energy Commission, 1516 Ninth Street, Sacramento, CA, 95814-5512. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

75. The operator shall perform source testing for PM10 concentration and emission rate once per permit term using EPA Method 5. [40 CFR 60.8 (b) and (c)] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: S-511-3-10

ISSUANCE DATE: 02/01/2005

LEGAL OWNER OR OPERATOR: SYCAMORE COGENERATION CO
MAILING ADDRESS: P O BOX 80598
BAKERSFIELD, CA 93380

LOCATION: HEAVY OIL CENTRAL
CA

SECTION: NW30 **TOWNSHIP:** 28S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
MODIFICATION OF 75 MW GENERAL ELECTRIC MODEL 7EA NATURAL GAS-FIRED COMBUSTION TURBINE COGENERATION UNIT WITH DRY LOW NOX COMBUSTORS: REMOVE REQUIREMENT TO OPERATE AS A COGENERATION FACILITY, REINSTATE 2-HR NOX STARTUP EMISSION LIMIT, AND COMBINE SO2 AND SO4 EMISSION LIMITS (SYCAMORE UNIT#3)

CONDITIONS

1. This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District NSR Rule] Federally Enforceable Through Title V Permit
2. Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. CGT shall be fired on natural gas only. There shall be no provisions for oil firing. Natural gas used as fuel shall be pipeline quality with sulfur content of 0.3 gr/100 scf or less (0.001% sulfur by weight). [District NSR Rule; Kern County Rule 407] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 326-6900 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services

4. The owner or operator shall not exceed the following applicable Tier 1 NOx emission rate of (15 x EFF / 25) ppmvd @ 15% O2, under load conditions, excluding thermal stabilization periods or reduced load periods, where EFF (efficiency) is the higher of EFF1 {100% x (3,412 Btu/kW-hr) / (Actual Heat Rate at HHV, Btu/kW-hr)} or EFF2 {EFFmfr x (LHV / HHV)} where actual heat rate is a ratio of the heat input to power output taking into account the manufacturer's listed turbine efficiency, HHV is the higher heating value of the fuel, LHV is the lower heating value of the fuel, and EFFmfr is the manufacturer's continuous rated percent efficiency of the gas turbine with air pollution equipment at LHV. An EFF that is less than 25 shall be assigned a value of 25. [40 CFR 60.332(a)(1) and (a)(2) District Rule 4703, 5.1.1] Federally Enforceable Through Title V Permit

5. Reduced Load Period shall be defined as the time during which a gas turbine is operated at less than rated capacity in order to change the exhaust gas diverter gate not exceeding one hour. [District Rule 4703, 3.19] Federally Enforceable Through Title V Permit

6. Thermal Stabilization Period shall be defined as the start up or shut down time during which the exhaust gas is not within the normal operating range, not to exceed two hours. [District Rule 4703, 3.25] Federally Enforceable Through Title V Permit

7. Operator shall conform with the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit

8. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3246, D4468 or D6667. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit

9. If the turbine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested in accordance with the requirements of 40 CFR 60.334 (h) and 40 CFR 60.334(i). [40 CFR 60.334 (h) and 40 CFR 60.334(i)] Federally Enforceable Through Title V Permit

10. The HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit

11. The owner or operator shall provide source test information annually regarding the exhaust gas NOx and CO concentration corrected to 15% O2 (dry). EPA Methods 7E or 20 shall be used for NOx emissions. EPA Methods 10 or 10B shall be used for CO emissions. EPA Methods 3, 3A, or 20 shall be used for Oxygen content of the exhaust gas. [40 CFR 60.8(a), 40 CFR 60.335(b) and District Rule 4703, 5.1, 6.3.1, 6.4.1, 6.4.2, and 6.4.3] Federally Enforceable Through Title V Permit

12. The owner or operator shall provide source test information annually regarding the demonstrated percent efficiency (EFF) as defined in District Rule 4703 (as amended 4/25/02), 5.1.1 and 6.4.6. [40 CFR 60.332(a) and (b) and District Rule 4703, 5.1.1 and 6.4.6] Federally Enforceable Through Title V Permit

13. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit

14. Sulfur compound emissions shall not exceed 0.015% by volume, 150 ppmv, on a dry basis averaged over 15 consecutive minutes. [40 CFR 60.333(a); County Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus)] Federally Enforceable Through Title V Permit

15. All continuous monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the device. [40 CFR 60.13(b)] Federally Enforceable Through Title V Permit

16. Operations during periods of startup and shutdown shall not constitute representative conditions for the purpose of a NOx performance test nor shall NOx emissions in excess of the level of the emission limit shown in this permit during periods of startup and shutdown be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)] Federally Enforceable Through Title V Permit

17. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.1.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

18. Records shall be maintained and shall contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit

19. If the turbine is fired on PUC-regulated natural gas, then maintain on file copies of natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

20. The owner or operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

21. Results of the CEM system shall be averaged over a three hour period, using consecutive 15-minute sampling periods in accordance with either EPA Method 7E or EPA Method 20 for NOx, EPA Test Methods 10 or 10B for CO, or EPA Methods 3, 3A, or 20 for O2, or, if continuous emission monitors are used, all applicable requirements of CFR 60.13. [40 CFR 60.13 and District Rule 4703, 5.1, 6.4] Federally Enforceable Through Title V Permit

22. The owner or operator shall not operate the gas turbine after April 30, 2008, or within 90 days following a Major Overhaul if the overhaul occurs after April 30, 2004, under load conditions, excluding the thermal stabilization period or reduced load period, which results in the measured NOx emissions concentration exceeding 3 ppmv @ 15% O2. [District Rule 4703, 5.1.2.1] Federally Enforceable Through Title V Permit

23. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the following: the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(b); District Rules 2520, 9.4.2 and 4703, 6.2.4; PSD SJ 85-09, X.D.1] Federally Enforceable Through Title V Permit

24. Operator shall operate and maintain in calibration a system which continuously measures and records the following: control system operating parameters, elapsed time of operation, the exhaust gas NOx and O2 or CO2 concentration . [40 CFR 60.334(b),(c) and District Rules 2520, 9.4.2 and 4703] Federally Enforceable Through Title V Permit

25. CEM cycling times shall be those specified in 40 CFR, Part 51, Appendix P, Sections 3.4 and 3.4.2, or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080, 6.4] Federally Enforceable Through Title V Permit

26. The continuous NOx and O2 monitoring system shall meet the performance specification requirements in 40 CFR 60, Appendix F, 40 CFR 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080, 6.3, 6.5, 6.6 and 7.2] Federally Enforceable Through Title V Permit

27. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit

28. The owner or operator shall maintain records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM system that has been installed pursuant to District Rule 1080 (as amended 12/17/92), and emission measurements. [40 CFR 60.8(d) and District Rule 1080, 7.0] Federally Enforceable Through Title V Permit

29. APCO or an authorized representative shall be allowed to inspect, as he or she determines to be necessary, the monitoring devices required by this rule to ensure that such devices are functioning properly. [District Rule 1080, 11.0] Federally Enforceable Through Title V Permit

30. Operator shall submit a quarterly report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(i)] Federally Enforceable Through Title V Permit

31. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

32. The APCO shall be notified no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0; PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

33. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus) as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

34. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.332(a), (a)(1), (a)(2) 60.333 (a) and (b); 60.334 (a), (b), (c), (h) and (j)(2), (j)(5) and 60.335(a) and (b); District Rule 4703 (as amended 4/25/02), Sections 5.1.1, 5.2, 6.1, 6.3.1, 6.3.3, 6.4, 6.4.5, and 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

35. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.7(b), 60.8, 60.8(d), 60.13, and 60.13(b); District Rules 1080 (as amended 12/17/92), Sections 6.3, 6.4, 6.5, 7.0, 7.1, 7.2, 7.3, 8.0, 9.0, 10.0, and 11.0; and 1081 (as amended 12/16/93) as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

36. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO and EPA. The report is due on the 30th day following the end of the calendar quarter and shall include the following: A. time intervals, data and magnitude of excess emissions (computed in accordance with 40 CFR 60.13(h)), nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard. [District Rule 1080, 8.0 and PSD SJ 85-09, X.D.3 and X.D.5.a through e] Federally Enforceable Through Title V Permit

37. The written report for each calendar quarter shall also include the following: C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. Excess emissions shall be defined as any 3-hour period during which the average emissions for CO, as measured by the CEM system, exceeds the emission limit set forth in PSD SJ 85-09, X.E. [District Rule 1080, 8.0; PSD SJ 85-09, X.D.3 and X.D.5.a through e] Federally Enforceable Through Title V Permit

38. The CGT combustors shall be a dry low NOx design capable of achieving 16.4 ppm or lower at 15% O2. [District Rule 4703 and PSD SJ 85-09, X.B] Federally Enforceable Through Title V Permit

39. Each CGT shall have a maximum heat input rate of 1020 MMBTU/hr on an LHV basis. Firing rate can be increased upon District witnessed emission sampling demonstration that compliance with emission sampling limits can be achieved at higher fuel rates. [District NSR Rule] Federally Enforceable Through Title V Permit

40. Permit unit shall include one unfired heat recovery steam generator (HRSG) for gas turbine engine assembly with rated steam output of 450,000 lb/hr at 80% quality steam production. [District NSR Rule] Federally Enforceable Through Title V Permit

41. Exhaust gas ducting from CGTs through HRSGs to the atmosphere shall be gas-tight. [District NSR Rule] Federally Enforceable Through Title V Permit

42. Bypass stack valve preceding each HRSG shall be designed to be gas-tight. [District NSR Rule] Federally Enforceable Through Title V Permit

43. Each CGT shall have a fuel consumption monitor/recorder. [District NSR Rule and PSD SJ 85-09, X.D.1] Federally Enforceable Through Title V Permit

44. Exhaust gas particulate matter concentration shall not exceed 0.0072 gr/scf calculated at 12% CO2. [District NSR Rule] Federally Enforceable Through Title V Permit

45. Each HRSG exhaust stack shall be equipped with permanent stack sampling provisions consistent with District Rule 1081, EPA reference Methods 5 and 8 and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

46. Operational records (including but not limited to: fuel characteristics, etc.) shall be maintained by Sycamore Cogeneration Company. [District NSR Rule] Federally Enforceable Through Title V Permit

47. Accurate records of NOx (as NO2) and carbon monoxide (CO) flue gas concentrations corrected to 15% O2, dry and CGT fuel sulfur content shall be maintained and shall be reported as described by District Rule 1080 and upon request. [District Rule 1080] Federally Enforceable Through Title V Permit

48. Emission rates from CGT shall not exceed any of the following: PM10 - 5.0 lb/hr, SOx (as SO2) - 0.9 lb/hr, or VOC - 2.5 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit

49. Emission rates from CGT shall not exceed any of the following: PM10 - 120.0 lb/day, SOx (as SO2) - 21.6 lb/day, NOx (as NO2) - 1,629.6 lb/day, VOC - 60.0 lb/day, or CO - 1056.0 lb/day. [District Rule 2201and PSD SJ 85-09, X.E] Federally Enforceable Through Title V Permit

50. Emission rates from CGT, except during startup and/or shutdown, shall not exceed any of the following: NOx (as NO2) - 16.4 ppmvd @ 15% O2, 67.9 lb/hr on a 3-hr avg, 79.7 lb/hr on a 1-hr avg, or CO - 25 ppmvd @ 15% O2, 44.0 lb/hr on a 3-hr avg. [District Rule 2201 and PSD SJ 85-09, X.E] Federally Enforceable Through Title V Permit

51. During startup and shutdown, emissions shall not exceed any of the following: 140.0 lb/hr of NOx on a 2-hr avg, or 140 lb/hr of CO on a 2-hr avg. [District Rule 2201] Federally Enforceable Through Title V Permit

52. Each 1-hour period in a 1, 2 or 3-hour average will commence on the hour. The 3-hour average will be compiled from the three most recent 1-hour periods. The 2-hour average will be compiled from the two most recent 1-hour periods. [District Rule 1080] Federally Enforceable Through Title V Permit

53. Daily Emissions for the unit may be determined from the arithmetic mean of three, 40-minute test runs for NOx and CO, multiplied by the appropriate factor. [District Rule 2520, 9.4.2 and District Rule 4703] Federally Enforceable Through Title V Permit

54. Source testing to determine NOx and CO emissions and fuel gas sulfur content shall be conducted annually. [District Rule 1081] Federally Enforceable Through Title V Permit

55. Annual compliance tests shall be conducted by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1081] Federally Enforceable Through Title V Permit

56. Continuous emission monitoring system for NOx as NO2 and continuous monitoring system for CO & CO2 shall serve each CGT flue gas stream, shall conform to SJVUAPCD Rule 1080 specifications, shall meet EPA monitoring performance specifications, & shall be operational whenever the turbine is in operation. [District Rule 1080 and PSD SJ 85-09, X.D.1 and .2] Federally Enforceable Through Title V Permit

57. All continuous emissions monitoring systems shall be calibrated and operated according to EPA guidelines as specified in 40 CFR 60, Appendix B and 40 CFR 52, Appendix E. CEM ppm and lb/hr shall be calculated as a three-hour and a 1-hour average. [District Rule 1080 and PSD SJ 85-09 X.D.2] Federally Enforceable Through Title V Permit

58. Quarterly continuous emission monitoring system reports shall be submitted to the District, EPA and CEC, as required by EPA regulations as specified in CFR Title 40, Part 58, Appendix B and Part 60 Appendix B. [District Rule 1080 and PSD SJ 85-09, X.D.5] Federally Enforceable Through Title V Permit

59. Audits of continuous emission monitoring system shall be conducted in accordance with EPA guidelines, witnessed at the District's discretion, and reports shall be submitted to the District within 60 days of such an audit. [District Rule 1080 and PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

60. The Relative Accuracy Audit shall be conducted by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1080 and PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

61. Startup and shutdown of CGT, as defined in 40 CFR, Subpart A 60.2, shall not exceed a time period of two hours and two hours, respectively, per occurrence. [40 CFR 60.8] Federally Enforceable Through Title V Permit

62. NO2 and CO daily emissions during days of startup/shutdown shall be calculated from natural gas combustion rates and CEM results. [District Rule 1080] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

63. Daily records of NO2 and CO emission calculations during days of gas turbine startup/shutdown shall be maintained and such records shall be made readily available for District inspection upon request for a period of five years. [District Rule 1080] Federally Enforceable Through Title V Permit

64. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

65. The Regional Administrator shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

66. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the conditions of this permit, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

67. The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

68. At such times as specified by the USEPA, permittee shall conduct or cause to be conducted performance tests (as described in 40 CFR 60.8) for CO on the exhaust stack gases and furnish the District, the California ARB and the USEPA a written report of the results of such tests. All performance tests shall be conducted on an annual basis and at the maximum operating capacity of the emissions unit being tested. Upon written request from permittee, and adequate justification, USEPA may waive a specific annual test and/or allow for testing to be done at less than maximum operating capacity. [PSD SJ 85- 09] Federally Enforceable Through Title V Permit

69. Performance tests for the emissions of CO shall be conducted and results reported in accordance with the test methods set forth in 40 CFR 60.8 and 40 CFR 60, Appendix A. The performance tests for the emissions of CO shall be conducted using EPA Methods 1 through 4 and 10. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

70. The USEPA shall be notified in writing at least 30 days in advance of such test to allow time for development of an approvable performance test plan and to arrange for an observer to be present at the test. Such prior approval shall minimize the possibility of USEPA rejection of test results for procedural deficiencies. In lieu of the above mentioned test methods, equivalent methods may be used with prior written approval from the USEPA. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

71. Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for the purposes of this permit. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

72. For performance test purposes, sampling ports, platforms, and access shall be provided by the facility on the emission unit exhaust system in accordance with 40 CFR 60.8(e). [PSD SJ 85-09] Federally Enforceable Through Title V Permit

73. The cogeneration facility is subject to the federal regulations entitled Standards of Performance for New Stationary Sources (40 CFR 60). The owner or operator shall meet all applicable requirements of Subparts A and GG of this regulation. [PSD SJ 85- 09] Federally Enforceable Through Title V Permit

74. All correspondence as required by this permit shall be forwarded to: a) Director, Enforcement Div (Attn: A-5), EPA Region IX, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Control Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95814; c) Director, SJVUAPCD, 1990 East Gettysburg, Fresno, CA, 93726-0244; and d) the California Energy Commission, 1516 Ninth Street, Sacramento, CA, 95814-5512. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

75. The operator shall perform source testing for PM10 concentration and emission rate once per permit term using EPA Method 5. [40 CFR 60.8 (b) and (c)] Federally Enforceable Through Title V Permit

Attachment B

Compliance Certification

San Joaquin Valley
Unified Air Pollution Control District

TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM

I. TYPE OF PERMIT ACTION (Check appropriate box)

[ ] SIGNIFICANT PERMIT MODIFICATION
[ ] MINOR PERMIT MODIFICATION
[ ] ADMINISTRATIVE AMENDMENT

COMPANY NAME:	FACILITY ID: -
1. Type of Organization:[ ] Corporation [ ] Sole Ownership [ ] Government [ ] Partnership [ ] Utility	
2. Owner's Name:	
3. Agent to the Owner:	

II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial **all** circles for confirmation):

NEB Based on information and belief formed after reasonable inquiry, the source identified in this application will continue to comply with the applicable federal requirement(s) which the source is in compliance.

NEB Based on information and belief formed after reasonable inquiry, the source identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.

NEB Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.

NEB Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:

Neil E Burgess
Signature of Responsible Official

2/28/06
Date

NEIL E Burgess
Name of Responsible Official (please print)

Executive Director
Title of Responsible Official (please print)

Attachment C

HRA Memo

San Joaquin Valley Air Pollution Control District
Risk Management Review

RECEIVED
APR 17 2006
SJVAPCD
Southern Region

To: Ben Ellenberger, AQE – Permit Services

From: Cheryl Lawler, AQT – Technical Services

Date: April 10, 2006

Facility Name: Sycamore Cogen

Location: Section 31, T28S, R28E

Application #(s): S-511-2-12 & 3-12

Project #: S-1060682

A. RMR SUMMARY

RMR Summary			
Categories	**Two Natural Gas Turbines (Units 2-12 & 3-12)**	**Project Totals**	**Facility Totals**
Prioritization Score	**0.49***	0.49	0.49
Acute Hazard Index	N/A	N/A	N/A
Chronic Hazard Index	N/A	N/A	N/A
Maximum Individual Cancer Risk	N/A	N/A	N/A
T-BACT Required?	**No**		
Special Permit Conditions?	**No**		

*Project passed on prioritization with a score less than 1; therefore, no further analysis was required.

B. RMR REPORT

I. Project Description

Technical Services received a request on April 10, 2006, to perform a Risk Management Review and an Ambient Air Quality Analysis for the installation of two natural gas fired turbines to operate in simple cycle.

II. Analysis

Toxic emissions for the turbines were calculated using Ventura County emission factors for natural gas turbines. In accordance with the District's *Risk Management Policy for Permitting New and Modified Sources* (APR 1905-1, March 2, 2001), risks for the proposed project were prioritized using the procedures in the 1990 CAPCOA Facility Prioritization Guidelines and incorporated in the District's HEART's database. The prioritization score for the project was less than 1.0 (see RMR Summary Table). Therefore, no further analysis was necessary.

The following parameters were used for the review:

Analysis Parameters Units 2-12 & 3-12			
Natural Gas Process Rate for Each Turbine (mmscf/yr)	9898.8	**Location Type**	Rural
Closest Receptor (m)	1067		

Technical Services also performed modeling for criteria pollutants CO, NOx, SOx, and PM_{10}; as well as the Risk Management Review. The emission rates used for criteria pollutant modeling were: 200 lb/hr CO, 280 lb/hr NOx, 0.9 lb/hr SOx, and 5 lb/hr PM_{10}

The engineer supplied the maximum fuel rates for the turbines used during the analysis.

The results from the Criteria Pollutant Modeling are as follows:

Criteria Pollutant Modeling Results*
Values are in $\mu g/m^3$

Two NG Turbines	1 Hour	3 Hours	8 Hours	24 Hours	Annual
CO	Pass	X	Pass	X	X
NO_x	Pass	X	X	X	Pass
SO_x	Pass	Pass	X	Pass	Pass
PM_{10}	X	X	X	Pass[1]	Pass

*Results were taken from the attached PSD spreadsheets.
[1]The criteria pollutant is below EPA's level of significance as found in 40 CFR Part 51.165 (b)(2).

III. Conclusion

The criteria modeling runs indicate the emissions from the proposed equipment will not cause or significantly contribute to a violation of a State or National AAQS.

The prioritization score for this project is not above 1.0. In accordance with the District's Risk Management Policy, the project is approved **without** Toxic Best Available Control Technology (T-BACT).

These conclusions are based on the data provided by the applicant and the project engineer. Therefore, this analysis is valid only as long as the proposed data and parameters do not change.

Ester Davila

From: Ben Ellenberger
Sent: Tuesday, March 14, 2006 2:39 PM
To: Ester Davila
Subject: S0511, 1060682 HRA

Ester,
Here is an HRA request for a project which will also require CO modeling to determine if offsets will be required. It is very similar to a previous project at the facility, I have included the HRA for that project for reference. If you have any questions, please give me a call.

Ben Ellenberger
SJVUAPCD
(661) 326 6967

S0511, 1060682 HRA.doc

S0511, 1043189 HRA.pdf

ENGINEERING HRA
REVIEW & MODELING REQUEST

Facility Name:	Sycamore Cogen	Process Engineer:	Ben Ellenberger
Mailing Address:	P O Box 81018 Bakersfield, CA 93380	Life Of Project:	
Location:	Section 31, T28S, R28E	Processing Staff:	
Contact Name:	Mervyn Soares	Start Date:	
Telephone:	(661) 392-2643	Completed Date:	
Application #:	S-511-2-12, -3-12	Reviewed By:	
Project #:	1060682	Date:	

FAX OR MAIL TO TECHNICAL SERVICES SUPERVISOR

HRA Information Checklist	Yes	No
Is all of the following information provided (as applicable)? ☒ Receptor distances ☒ Stack velocity ☒ Stack height ☒ Stack temperature ☒ Emission/Usage Rates (hour/annual) ☒ Hours of Operation ☐ MSDS ☐ Other (for area sources)	☐	☐ Incomplete (Otherwise, explain under Comments).
Supplemental Application Form attached (as applicable)?	☒ Only HRA cover page is required.	☐ Submit complete HRA Request Form.
Is it obvious that notification is required (NSR, COC, or school)? ☒ NSR (Public Notice): *Distances to the fence line in all four directions are required* ☒ COC (EPA Notice) ☐ School Notice	☒	☐
Has the applicant requested reimbursable overtime processing?	☐ • Get approval from your supervisor. • Send HRA request to Tech Services before deeming complete.	☐
Supervisor's signature for expedited processing:		
Comments and References: These are identical existing units. There is no change in the emission rate for this project, but the stack parameters are changing so an HRA is required. Project S0511, 1043189 authorized two of the four units at the facility to operate in simple cycle, now this project will allow the other two units to operate in simple cycle.		

CO offsets may be required for this project, please perform modelling to determine if the AAQS will be violated by this project.

The file for the HRA performed for S0511, 1043189 is attached for reference.

SCREENING HRA REQUEST

I. Project Description:

Allow two 75 MW each combined cycle natural gas-fired turbines to operate in simple cycle. Emission rates listed are for one engine. Hourly rates are based on startup emissions.

II Receptor Location(s):

Receptor Description (Units)	Distance From Source (Units)
Residence	7000 ft SW
Business	3500 ft S

2133.6 Meters
10668.8 Meters

III. Process Rate Or Substances To Be Modeled:

Process Description	Process Rates (Hourly & Yearly)		Units
NOx	140 lb/hr (2 hr average) 280 lb/hr (1 hr average)	594841 lb/year	
CO	140 lb/hr (2 hr average) 200 lb/hr (1 hr average)	385440 lb/yr	
SOx	0.9 lb/hr	7884 lb/yr	
PM10	5.0 lb/hr	43800 lb/yr	
VOC	12 lb/hr	105120 lb/yr	

IV. Project Location (Select One): Urban (1) or Rural (2)
2. Rural - area of sparse population

V. Point Sources:

Stack Parameters:

Stack Height (Units)	Inside Diameter (Units)	Gas Exit Velocity (Units)	Gas Exit Temperature (Units)
46.73 feet	17.625 feet	98.13 ft/sec	1025 F

VI: Area Sources[1]:

Area Parameters:

Release Height[2] (Units)	Length Of Side (Units)

1. An area source is defined as in an area with four equal sides.
2. Release height is defined as the physical height of the source. For example, if a sump has a three meter brim surrounding it. The physical height of the sump is three meters. Height is measured from the ground to the top of the source.

Cheryl Lawler

From: Ben Ellenberger
Sent: Thursday, March 30, 2006 10:54 AM
To: Cheryl Lawler
Subject: RE: More info. needed for RMR for S-511, S-1060682 . . .

Cheryl,

The Turbines are 43 meters further from the east and west fence lines.

Thanks,

Ben Ellenberger
SJVUAPCD
(661) 326 6967

-----Original Message-----
From: Cheryl Lawler
Sent: Thursday, March 30, 2006 9:39 AM
To: Ben Ellenberger
Subject: More info. needed for RMR for S-511, S-1060682 . . .

Hi Ben! I have your RMR/AAQA for Sycamore Cogen. In order to run the AAQA portion for the turbines, I need the fenceline distances in all four directions. I know you said this is similar to another project done for this facility (which you attached); but are these fenceline distances the same from these turbines. If they are not located in the same area, these distances could be a lot different.

Once I get these distances I continue on the project. Thanks!!!

Cheryl

PRIORITIZATION
FOR

SYCAMORE COGENERATION CO
Project # 1060682
Region (S) Facility (511)

Emissions and Potency Method

Prioritization Scores

Cancer	CHRONIC	ACUTE
1.25E-01	1.90E-01	4.92E-01

TS = Total Score
= Specific Toxic Substance
EYR = Emissions Lbs / Year
EHR = Emissions Lbs / Hour
NF = Normalization Factor (Cancer = 1700, Acute = 1500, Chronic = 150)
URF = Unit Risk Factor
AREL = Acute Reference Exposure Level
CREL = Chronic Reference Exposure Level
RP = Receptor Proximity Adjustment Factor
R = Receptor Distance

	RP
0m < R < 100m	1.0
100m < R < 250m	0.25
250m < R < 500m	0.04
500m < R < 1000m	0.011
1000m < R < 1500m	0.003
1500m < R < 2000m	0.002
R > 2000m	0.001

Cancer Score:
TS(t) = EYR(t) * URF(t) * RP * 1700

Acute Score:
TS(t) = [EHR(t) / AREL(t)] * RP * 1500

Chronic Score:
TS(t) = { ([EYR(t) / Hours Of Operation] / CREL(t)) * RP * 150 }

Dispersion Adjustment Method

Prioritization Scores

Cancer	CHRONIC	ACUTE
1.24E-01	1.90E-01	4.92E-01

TS = Total Score
t = Specific Toxic Substance
EYR = Emissions Lbs / Year
EHR = Emissions Lbs / Hour
NF = Normalization Factor (Cancer = 28, Acute = 25, Chronic = 2.5)
URF = Unit Risk Factor
AREL = Acute Reference Exposure Level
CREL = Chronic Reference Exposure Level
SHA = Stack Height Adjustment (< 20m = 60, < 45m = 9, >= 45m = 1)
RP = Receptor Proximity Adjustment Factor
R = Receptor Distance
H = Stack Height

For Stack - 0m <= H < 20m

	RP
0m < R < 100m	1.0
100m < R < 250m	0.25
250m < R < 500m	0.04
500m < R < 1000m	0.011
1000m < R < 1500m	0.003
1500m < R < 2000m	0.002
R > 2000m	0.001

For Stack - 20m <= H < 45m

	RP
0m < R < 100m	1.0
100m < R < 250m	0.85
250m < R < 500m	0.22
500m < R < 1000m	0.064
1000m < R < 1500m	0.018
1500m < R < 2000m	0.009
R > 2000m	0.006

For Stack - >= H < 45m

	RP
0m < R < 100m	1.0
100m < R < 250m	1.0
250m < R < 500m	0.90
500m < R < 1000m	0.40
1000m < R < 1500m	0.13
1500m < R < 2000m	0.066
R > 2000m	0.042

Cancer Score:
TS(t) = EYR(t) * URF(t) * RP * SHA * 28

Acute Score:
TS(t) = [EHR(t) / AREL(t)] * RP * SHA * 25

Chronic Score:
TS(t) = { ([EYR(t) / Hours Of Operation] / CREL(t)) * RP * SHA * 2.5 }

PRIORITIZATION
FOR

SYCAMORE COGENERATION CO
Project # 1060682
Region (S) Facility (511)

DEVICE NUMBER 2
DEVICE NAME NATURAL GAS TURBINE

CAS NUMBER	POLLUTANT NAME	LBS/YEAR	LBS/HOUR	Emissions and Potency Method Prioritization Scores Cancer	CHRONIC	ACUTE	Despersion Adjustment Method Prioritization Scores Cancer	CHRONIC	ACUTE
151	PAHs, total, w/o individ. components reported	1.98E+00	2.26E-04	1.11E-02			1.10E-02		
210	Xylenes (mixed)	2.86E+02	3.27E-02		2.11E-05	6.68E-06		2.11E-05	6.68E-06
0000	Formaldehyde	9.30E+02	1.06E-01	2.85E-02	1.60E-02	5.08E-03	2.81E-02	1.60E-02	5.08E-03
1432	Benzene	1.12E+02	1.28E-02	1.65E-02	9.60E-05	4.42E-05	1.63E-02	9.60E-05	4.42E-05
5070	Acetaldehyde	3.66E+02	4.18E-02	5.04E-03	2.10E-03		4.98E-03	2.10E-03	
1203	Naphthalene	7.92E+00	9.04E-04	1.37E-03	4.53E-05		1.36E-03	4.53E-05	
00414	Ethyl benzene	1.31E+02	1.49E-02		3.37E-06			3.37E-06	
07028	Acrolein	8.91E+01	1.02E-02		7.65E-02	2.41E-01		7.65E-02	2.41E-01
08883	Toluene	7.19E+02	8.20E-02		1.23E-04	9.98E-06		1.23E-04	9.98E-06
10543	Hexane	1.73E+04	1.98E+00		1.27E-04			1.27E-04	
15071	Propylene	1.04E+04	1.19E+00		1.79E-04			1.79E-04	
	TOTALS FOR DEVICE 2			6.25E-02	9.52E-02	2.46E-01	6.18E-02	9.52E-02	2.46E-01

DEVICE NUMBER 3
DEVICE NAME NATURAL GAS TURBINE

CAS NUMBER	POLLUTANT NAME	LBS/YEAR	LBS/HOUR	Emissions and Potency Method Prioritization Scores Cancer	CHRONIC	ACUTE	Despersion Adjustment Method Prioritization Scores Cancer	CHRONIC	ACUTE
151	PAHs, total, w/o individ. components reported	1.98E+00	2.26E-04	1.11E-02			1.10E-02		
210	Xylenes (mixed)	2.86E+02	3.27E-02		2.11E-05	6.68E-06		2.11E-05	6.68E-06
50000	Formaldehyde	9.30E+02	1.06E-01	2.85E-02	1.60E-02	5.08E-03	2.81E-02	1.60E-02	5.08E-03
71432	Benzene	1.12E+02	1.28E-02	1.65E-02	9.60E-05	4.42E-05	1.63E-02	9.60E-05	4.42E-05
75070	Acetaldehyde	3.66E+02	4.18E-02	5.04E-03	2.10E-03		4.98E-03	2.10E-03	
91203	Naphthalene	7.92E+00	9.04E-04	1.37E-03	4.53E-05		1.36E-03	4.53E-05	
100414	Ethyl benzene	1.31E+02	1.49E-02		3.37E-06			3.37E-06	
107028	Acrolein	8.91E+01	1.02E-02		7.65E-02	2.41E-01		7.65E-02	2.41E-01
108883	Toluene	7.19E+02	8.20E-02		1.23E-04	9.98E-06		1.23E-04	9.98E-06

PRIORITIZATION

FOR

SYCAMORE COGENERATION CO

Project # 1060682

Region (S) Facility (511)

0543	Hexane	1.73E+04	1.98E+00		1.27E-04			1.27E-04	
5071	Propylene	1.04E+04	1.19E+00		1.79E-04			1.79E-04	
		TOTALS FOR DEVICE 3		6.25E-02	9.52E-02	2.46E-01	6.18E-02	9.52E-02	2.46E-01

U.S. Environmental Protection Agency

AirData

Monitor Values Report - Criteria Air Pollutants

Geographic Area: Kern Co, CA
Pollutant: Carbon Monoxide
Year: 2001

EPA Air Quality Standards:
Carbon Monoxide: 35 ppm (1-hour average), 9 ppm (8-hour average)

ppm = parts per million

2 Rows
See Disclaimer

	CO (ppm)												
	1-Hour Values				8-Hour Values			Monitor Number	Site ID	Site Address	City	County	Sta
Row #	# Obs	1st Max	2nd Max	# Exceed	1st Max	2nd Max	# Exceed						
SORT													
1	7,908	16.0	5.7	0	3.5	3.2	0	1	060290010	1128 Golden State Highway, Bakersfield	Bakersfield	Kern Co	CA
2	7,673	5.8	5.8	0	3.4	3.4	0	1	060290014	5558 California Ave, Bakersfield	Bakersfield	Kern Co	CA
Grand Total				0			0						

Page 1 of 1

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Disclaimer: AirData reports are produced from a monthly extract of EPA's air pollution database, AQS. Data for this report were extracted on April 3, 2006. They represent the best information available to EPA from state agencies on that date. However, some values may be absent due to incomplete reporting, and some values subsequently may be changed due to quality assurance activities. The AQS database is updated daily by state and local organizations who own and submit the data. Please contact the pertinent state agency to report errors.

Readers are cautioned not to infer a qualitative ranking order of geographic areas based on AirData reports. Air pollution levels measured in the vicinity of a particular monitoring site may not be representative of the prevailing air quality of a county or urban area. Pollutants emitted from a particular source may have little impact on the immediate geographic area, and the amount of pollutants emitted

U.S. Environmental Protection Agency

AirData

Monitor Values Report - Criteria Air Pollutants

Geographic Area: Kern Co, CA
Pollutant: Nitrogen Dioxide
Year: 2001

EPA Air Quality Standards:
Nitrogen Dioxide: 0.053 ppm (annual mean)

ppm = parts per million

7 Rows
See Disclaimer

	NO2 (ppm)											
	1-Hour Values			Annual		Monitor Number	Site ID	Site Address	City	County	State	EPA Region
Row #	# Obs	1st Max	2nd Max	Mean	# Exceed							
SORT												
1	7,758	0.060	0.059	0.013	0	1	060290007	Johnson Farm, Edison, Ca. 93320	Edison	Kern Co	CA	09
2	7,984	0.088	0.086	0.015	0	1	060290010	1128 Golden State Highway, Bakersfield	Bakersfield	Kern Co	CA	09
3	8,334	0.071	0.054	0.010	0	1	060290011	923 Poole Street, Mojave, Ca 93501	Mojave	Kern Co	CA	09
4	8,054	0.115	0.112	0.022	0	1	060290014	5558 California Ave, Bakersfield	Bakersfield	Kern Co	CA	09
5	8,289	0.076	0.073	0.014	0	1	060290232	3311 Manor St., Oildale	Oildale	Kern Co	CA	09
6	8,302	0.045	0.044	0.009	0	1	060295001	20401 Bear Mtn Blvd, Arvin, Ca., 93203	Arvin	Kern Co	CA	09
7	8,230	0.072	0.072	0.018	0	1	060296001	548 Walker St., Shafter, Ca., 93263	Shafter	Kern Co	CA	09

U.S. Environmental Protection Agency

AirData

Monitor Values Report - Criteria Air Pollutants

Geographic Area: Kern Co, CA
Pollutant: Particulate (size < 10 micrometers)
Year: 2001

EPA Air Quality Standards:
Particulate (diameter < 10 micrometers): 150 µg/m3 (24-hour average), 50 µg/m3 (annual mean)

µg/m3 = micrograms per cubic meter

10 Rows
See Disclaimer

	PM10 (µg/m3)												
	24-Hour Values							Annual					
Row #	# Obs	1st Max	2nd Max	3rd Max	4th Max	# Exceed-Actual	# Exceed-Estimated	Mean	# Exceed	Monitor Number	Site ID	Site Address	C
SORT													
1	53	205	174	122	116	2	12.0	63	1	1	060290010	1128 Golden State Highway, Bakersfield	Bake
2	61	43	41	40	40	0	0.0	20	0	1	060290011	923 Poole Street, Mojave, Ca 93501	Moja
3	78	190	186	159	127	3	9.0	48	0	1	060290014	5558 California Ave, Bakersfield	Bake
4	70	194	160	110	101	2	12.0	49	0	2	060290014	5558 California Ave, Bakersfield	Bake
5	324	150	120	82	81	0	0.0	38	0	3	060290014	5558 California Ave, Bakersfield	Bake
6	61	63	46	41	38	0	0.0	21	0	1	060290015	100 West California Ave, Ridgecrest, Ca	Ridg
7	63	158	139	113	112	1	6.0	48	0	2	060290232	3311 Manor St.,	Oilda

U.S. Environmental Protection Agency

AirData

Monitor Values Report - Criteria Air Pollutants

Geographic Area: Kern Co, CA
Pollutant: Sulfur Dioxide
Year: 2001

EPA Air Quality Standards:
Sulfur Dioxide: 0.5 ppm (3-hour average), 0.14 ppm (24-hour average), 0.030 ppm (annual mean)

ppm = parts per million

1 Rows
See Disclaimer

	SO2 (ppm)													
	1-Hour Values			3-Hour Values			24-Hour Values			Annual		Monitor Number	Site ID	S Add
Row #	# Obs	1st Max	2nd Max	1st Max	2nd Max	# Exceed	1st Max	2nd Max	# Exceed	Mean	# Exceed			
SORT														
1	2,064	0.030	0.025	0.015	0.007	0	0.005	0.005	0	0.002	0	1	060290014	5558 Calif Ave, Bake
Grand Total						0			0		0			

Page 1 of 1

Export this report to a text file
Create comma-delimited or tab-delimited values, compatible with PC spreadsheets and databases.
Comma Tab About exporting

Disclaimer: AirData reports are produced from a monthly extract of EPA's air pollution database, AQS. Data for this report were extracted on April 3, 2006. They represent the best information available to EPA from state agencies on that date. However, some values may be absent due to incomplete reporting, and some values subsequently may be changed due to quality assurance activities. The AQS database is updated daily by state and local organizations who own and submit the data. Please contact the pertinent state agency to report errors.

Readers are cautioned not to infer a qualitative ranking order of geographic areas based on AirData reports. Air pollution levels measured in the vicinity of a particular monitoring site may not be representative of the prevailing air quality of a county or urban area. Pollutants emitted from a particular source may have little impact on the immediate geographic area, and the amount of pollutants emitted does not indicate whether the source is complying with applicable regulations.

*** ISCST3 - VERSION 02035 ***
*** Sycamore Cogen Plant ***
*** Model Executed on 07/20/04 at 13:04:06 ***
Input File - C:\Sycamore\Sycamore7-20-04_88_SO2.DTA

Output File - C:\Sycamore\Sycamore7-20-04_88_SO2.LST

Met File - C:\Sycamore\BFL88.asc

Number of sources - 10
Number of source groups - 5
Number of receptors - 13966

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRCCA	0	0.63000E-01	319995.9	3924835.8	256.0	19.99	419.26	23.67	4.30	YES	
KRCCB	0	0.63000E-01	319992.9	3924792.5	256.0	19.99	419.26	23.67	4.30	YES	
KRCCSSC	0	0.63000E-01	319961.7	3924757.5	256.0	14.24	824.82	29.91	5.37	YES	
KRCCSSD	0	0.63000E-01	319958.9	3924715.8	256.0	14.24	824.82	29.91	5.37	YES	
SYCA	0	0.63000E-01	318287.0	3925124.8	234.0	19.99	419.26	23.67	4.30	YES	
SYCB	0	0.63000E-01	318330.4	3925124.8	234.0	19.99	419.26	23.67	4.30	YES	
SYCC	0	0.63000E-01	318372.7	3925125.0	234.0	19.99	419.26	23.67	4.30	YES	
SYCD	0	0.63000E-01	318415.5	3925125.0	234.0	19.99	419.26	23.67	4.30	YES	
SYCSSA	0	0.63000E-01	318292.0	3925154.8	234.0	14.24	824.82	29.91	5.37	YES	
SYCSSD	0	0.63000E-01	318422.1	3925155.5	234.0	14.24	824.82	29.91	5.37	YES	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SYCBFR	SYCA , SYCB , SYCC , SYCD ,
SYCAFTR	SYCB , SYCC , SYCSSA , SYCSSD ,
KRCCAFTR	KRCCA , KRCCB , KRCCSSC , KRCCSSD ,
SBKA	KRCCA , KRCCB , KRCCSSC , KRCCSSD , SYCA , SYCB , SYCC , SYCD ,
SAKA	KRCCA , KRCCB , KRCCSSC , KRCCSSD , SYCB , SYCC , SYCSSA , SYCSSD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SYCBFR	1ST HIGHEST VALUE IS	0.00847 AT (325000.00, 3920500.00, 264.90, 0.00)		DC	NA
	2ND HIGHEST VALUE IS	0.00838 AT (320014.41, 3924042.50, 225.00, 0.00)		DC	NA
	3RD HIGHEST VALUE IS	0.00836 AT (319964.41, 3924117.50, 227.40, 0.00)		DC	NA
	4TH HIGHEST VALUE IS	0.00836 AT (324750.00, 3920500.00, 255.00, 0.00)		DC	NA
	5TH HIGHEST VALUE IS	0.00835 AT (319939.41, 3924117.50, 227.50, 0.00)		DC	NA
	6TH HIGHEST VALUE IS	0.00834 AT (320014.41, 3924017.50, 224.10, 0.00)		DC	NA
	7TH HIGHEST VALUE IS	0.00831 AT (319984.81, 3924121.00, 226.80, 0.00)		DC	NA
	8TH HIGHEST VALUE IS	0.00830 AT (323750.00, 3920250.00, 263.70, 0.00)		DC	NA
	9TH HIGHEST VALUE IS	0.00829 AT (319964.41, 3924092.50, 226.00, 0.00)		DC	NA
	10TH HIGHEST VALUE IS	0.00829 AT (319989.41, 3924092.50, 225.70, 0.00)		DC	NA
SYCAFTR	1ST HIGHEST VALUE IS	0.00501 AT (325000.00, 3920500.00, 264.90, 0.00)		DC	NA
	2ND HIGHEST VALUE IS	0.00491 AT (324750.00, 3920500.00, 255.00, 0.00)		DC	NA
	3RD HIGHEST VALUE IS	0.00487 AT (325000.00, 3921000.00, 271.30, 0.00)		DC	NA
	4TH HIGHEST VALUE IS	0.00487 AT (323750.00, 3920250.00, 263.70, 0.00)		DC	NA

AAQA for Sycamore Cogen (S-511)
All Values are in ug/m^3

	NOx 1 Hour	NOx Annual	CO 1 Hour	CO 8 Hour	SOx 1 Hour	SOx 3 Hour	SOx 24 Hour	SOx Annual	PM 24 Hour	PM Annual
TUR2	8.505E+00	1.033E-02	8.100E+00	1.473E+00	3.645E-02	1.265E-02	2.596E-03	1.825E-04	1.442E-02	1.014E-03
TUR3	8.654E+00	9.046E-03	8.242E+00	1.479E+00	3.709E-02	1.264E-02	2.599E-03	1.599E-04	1.444E-02	8.881E-04
Background	2.200E+02	4.209E+01	1.864E+04	4.078E+03	7.992E+01	3.996E+01	1.332E+01	5.330E+00	2.050E+02	6.300E+01
Facility Totals	2.372E+02	4.211E+01	1.866E+04	4.080E+03	7.999E+01	3.999E+01	1.333E+01	5.330E+00	2.050E+02	6.300E+01
AAQS	470	100	23000	10000	655	1300	105	80	50	30
	Pass	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	~~Fail~~ OK	~~Fail~~ OK

EPA's Significatance Level (ug/m^3)

NOx 1 Hour	NOx Annual	CO 1 Hour	CO 8 Hour	SOx 1 Hour	SOx 3 Hour	SOx 24 Hour	SOx Annual	PM 24 Hour	PM Annual
0.0	1.0	2000.0	500.0	0.0	25.0	5.0	1.0	5.0	1.0

AAQA Emission (g/sec)

Device	NOx 1 Hour	NOx Annual	CO 1 Hour	CO 8 Hour	SOx 1 Hour	SOx 3 Hour	SOx 24 Hour	SOx Annual	PM 24 Hour	PM Annual
TUR2	3.53E+01	8.55E+00	2.52E+01	2.52E+01	1.13E-01	1.13E-01	1.13E-01	1.13E-01	6.30E-01	6.30E-01
TUR3	3.53E+01	8.55E+00	2.52E+01	2.52E+01	1.13E-01	1.13E-01	1.13E-01	1.13E-01	6.30E-01	6.30E-01

Attachment D

Draft Authorities to Construct

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: S-511-2-12

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: SYCAMORE COGENERATION CO
MAILING ADDRESS: P O BOX 80598
BAKERSFIELD, CA 93380

LOCATION: HEAVY OIL CENTRAL
CA

SECTION: 31 **TOWNSHIP:** 28S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
MODIFICATION OF 75 MW GENERAL ELECTRIC MODEL 7EA NATURAL GAS-FIRED COMBUSTION TURBINE COGENERATION UNIT WITH DRY LOW NOX COMBUSTORS (SYCAMORE #2): AUTHORIZE OPERATION IN SIMPLE CYCLE MODE AND ALLOW EXHAUST THROUGH BYPASS STACK

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District NSR Rule] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. CGT shall be fired on natural gas only. There shall be no provisions for oil firing. Natural gas used as fuel shall be pipeline quality with sulfur content of 0.3 gr/100 scf or less (0.001% sulfur by weight). [District Rule 2201; Kern County Rule 407] Federally Enforceable Through Title V Permit
4. {2350} The owner or operator shall not exceed the following applicable Tier 1 NOx emission rate of (15 x EFF / 25) ppmvd @ 15% O2, under load conditions, excluding thermal stabilization periods or reduced load periods, where EFF (efficiency) is the higher of EFF1 {100% x (3,412 Btu/kW-hr) / (Actual Heat Rate at HHV, Btu/kW-hr)} or EFF2 {EFFmfr x (LHV / HHV)} where actual heat rate is a ratio of the heat input to power output taking into account the manufacturer's listed turbine efficiency, HHV is the higher heating value of the fuel, LHV is the lower heating value of the fuel, and EFFmfr is the manufacturer's continuous rated percent efficiency of the gas turbine with air pollution equipment at LHV. An EFF that is less than 25 shall be assigned a value of 25. [40 CFR 60.332(a)(1) and (a)(2) District Rule 4703, 5.1.1] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 326-6900 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

DAVID WARNER, Director of Permit Services
S-511-2-12 : Apr 25 2006 11:15AM – ELLENBEC : Joint Inspection NOT Required

5. {2264} Reduced Load Period shall be defined as the time during which a gas turbine is operated at less than rated capacity in order to change the exhaust gas diverter gate not exceeding one hour. [District Rule 4703, 3.19] Federally Enforceable Through Title V Permit

6. {2265} Thermal Stabilization Period shall be defined as the start up or shut down time during which the exhaust gas is not within the normal operating range, not to exceed two hours. [District Rule 4703, 3.25] Federally Enforceable Through Title V Permit

7. Operator shall conform with the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit

8. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3246, D4468 or D6667. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit

9. If the turbine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested in accordance with the requirements of 40 CFR 60.334 (h) and 40 CFR 60.334(i). [40 CFR 60.334 (h) and 40 CFR 60.334(i)] Federally Enforceable Through Title V Permit

10. The HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit

11. The owner or operator shall provide source test information annually regarding the exhaust gas NOx and CO concentration corrected to 15% O2 (dry). EPA Methods 7E or 20 shall be used for NOx emissions. EPA Methods 10 or 10B shall be used for CO emissions. EPA Methods 3, 3A, or 20 shall be used for Oxygen content of the exhaust gas. [40 CFR 60.8(a), 40 CFR 60.335(b) and District Rule 4703, 5.1, 6.3.1, 6.4.1, 6.4.2, and 6.4.3] Federally Enforceable Through Title V Permit

12. {2351} The owner or operator shall provide source test information annually regarding the demonstrated percent efficiency (EFF) as defined in District Rule 4703 (as amended 4/25/02), 5.1.1 and 6.4.6. [40 CFR 60.332(a) and (b) and District Rule 4703, 5.1.1 and 6.4.6] Federally Enforceable Through Title V Permit

13. {2256} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit

14. Sulfur compound emissions shall not exceed 0.015% by volume, 150 ppmv, on a dry basis averaged over 15 consecutive minutes. [40 CFR 60.333(a); County Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus)] Federally Enforceable Through Title V Permit

15. {2270} All continuous monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the device. [40 CFR 60.13(b)] Federally Enforceable Through Title V Permit

16. Operations during periods of startup and shutdown shall not constitute representative conditions for the purpose of a NOx performance test nor shall NOx emissions in excess of the level of the emission limit shown in this permit during periods of startup and shutdown be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)] Federally Enforceable Through Title V Permit

17. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.1.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2] Federally Enforceable Through Title V Permit

18. Records shall be maintained and shall contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit

19. If the turbine is fired on PUC-regulated natural gas, then maintain on file copies of natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. {2271} The owner or operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

21. {2272} Results of the CEM system shall be averaged over a three hour period, using consecutive 15-minute sampling periods in accordance with either EPA Method 7E or EPA Method 20 for NOx, EPA Test Methods 10 or 10B for CO, or EPA Methods 3, 3A, or 20 for O2, or, if continuous emission monitors are used, all applicable requirements of CFR 60.13. [40 CFR 60.13 and District Rule 4703, 5.1, 6.4] Federally Enforceable Through Title V Permit

22. The owner or operator shall not operate the gas turbine after April 30, 2008, or within 90 days following a Major Overhaul if the overhaul occurs after April 30, 2004, under load conditions, excluding the thermal stabilization period or reduced load period, which results in the measured NOx emissions concentration exceeding 3 ppmv @ 15% O2. [District Rule 4703, 5.1.2.1] Federally Enforceable Through Title V Permit

23. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the following: the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(b); District Rules 2520, 9.4.2 and 4703, 6.2.4; PSD SJ 85-09, X.D.1] Federally Enforceable Through Title V Permit

24. Operator shall operate and maintain in calibration a system which continuously measures and records the following: control system operating parameters, elapsed time of operation, the exhaust gas NOx and O2 or CO2 concentration . [40 CFR 60.334(b),(c) and District Rules 2520, 9.4.2 and 4703] Federally Enforceable Through Title V Permit

25. When CGT exhausts to bypass stack, the CEM probe located in the transition section shall be used to measure exhaust gas NOx, CO and O2 or CO2 concentration. [District Rule 2201] Federally Enforceable Through Title V Permit

26. CEM cycling times shall be those specified in 40 CFR, Part 51, Appendix P, Sections 3.4 and 3.4.2, or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080, 6.4] Federally Enforceable Through Title V Permit

27. {2250} The continuous NOx and O2 monitoring system shall meet the performance specification requirements in 40 CFR 60, Appendix F, 40 CFR 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080, 6.3, 6.5, 6.6 and 7.2] Federally Enforceable Through Title V Permit

28. {2251} The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit

29. {2252} The owner or operator shall maintain records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM system that has been installed pursuant to District Rule 1080 (as amended 12/17/92), and emission measurements. [40 CFR 60.8(d) and District Rule 1080, 7.0] Federally Enforceable Through Title V Permit

30. {2254} APCO or an authorized representative shall be allowed to inspect, as he or she determines to be necessary, the monitoring devices required by this rule to ensure that such devices are functioning properly. [District Rule 1080, 11.0] Federally Enforceable Through Title V Permit

31. Operator shall submit a quarterly report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(i)] Federally Enforceable Through Title V Permit

32. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit

33. The APCO shall be notified no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0; PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

34. {2280} Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus) as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

35. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.332(a), (a)(1), (a)(2) 60.333 (a) and (b); 60.334 (a), (b), (c), (h) and (j)(2), (j)(5) and 60.335(a) and (b); District Rule 4703 (as amended 4/25/02), Sections 5.1.1, 5.2, 6.1, 6.3.1, 6.3.3, 6.4, 6.4.5, and 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

36. {2282} Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.7(b), 60.8, 60.8(d), 60.13, and 60.13(b); District Rules 1080 (as amended 12/17/92), Sections 6.3, 6.4, 6.5, 7.0, 7.1, 7.2, 7.3, 8.0, 9.0, 10.0, and 11.0; and 1081 (as amended 12/16/93) as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

37. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO and EPA. The report is due on the 30th day following the end of the calendar quarter and shall include the following: A. time intervals, data and magnitude of excess emissions (computed in accordance with 40 CFR 60.13(h)), nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard. [District Rule 1080, 8.0 and PSD SJ 85-09, X.D.3 and X.D.5.a through e] Federally Enforceable Through Title V Permit

38. The written report for each calendar quarter shall also include the following: C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. Excess emissions shall be defined as any 3-hour period during which the average emissions for CO, as measured by the CEM system, exceeds the emission limit set forth in PSD SJ 85-09, X.E. [District Rule 1080, 8.0; PSD SJ 85-09, X.D.3 and X.D.5.a through e] Federally Enforceable Through Title V Permit

39. The CGT combustors shall be a dry low NOx design capable of achieving 16.4 ppm or lower at 15% O2. [District Rule 4703 and PSD SJ 85-09, X.B] Federally Enforceable Through Title V Permit

40. Each CGT shall have a maximum heat input rate of 1020 MMBTU/hr on an LHV basis. Firing rate can be increased upon District witnessed emission sampling demonstration that compliance with emission sampling limits can be achieved at higher fuel rates. [District Rule 2201] Federally Enforceable Through Title V Permit

41. Permit unit shall include one unfired heat recovery steam generator (HRSG) for gas turbine engine assembly with rated steam output of 450,000 lb/hr at 80% quality steam production. [District Rule 2201] Federally Enforceable Through Title V Permit

42. CGT may exhaust either through unfired 450,000 lb/hr heat recovery steam generator or through bypass stack. [District Rule 2201] Federally Enforceable Through Title V Permit

43. When operating in cogeneration mode, exhaust gas ducting from CGT's through HRSG's to the atmosphere shall be gas-tight. [District Rule 2201] Federally Enforceable Through Title V Permit

44. Bypass stack valve preceding each HRSG shall be designed to be gas-tight to the atmosphere when exhaust is discharged through HRSG and shall be designed to be gas-tight to the HRSG when exhaust is discharged through the bypass stack. [District Rule 2201] Federally Enforceable Through Title V Permit

45. Each CGT shall have a fuel consumption monitor/recorder. [District Rule 2201 and PSD SJ 85-09, X.D.1] Federally Enforceable Through Title V Permit

46. Exhaust gas particulate matter concentration shall not exceed 0.0072 gr/scf calculated at 12% CO2. [District Rule 2201] Federally Enforceable Through Title V Permit

47. HRSG stack shall be equipped with permanent stack sampling provisions consistent with District Rule 1081, EPA reference Methods 5 and 8 and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

48. Operational records (including but not limited to: fuel characteristics, etc.) shall be maintained by Sycamore Cogeneration Company. [District Rule 2201] Federally Enforceable Through Title V Permit

49. Accurate records of NOx (as NO2) and carbon monoxide (CO) flue gas concentrations corrected to 15% O2, dry and CGT fuel sulfur content shall be maintained and shall be reported as described by District Rule 1080 and upon request. [District Rule 1080] Federally Enforceable Through Title V Permit

50. Emission rates from CGT shall not exceed any of the following: PM10 - 5.0 lb/hr, SOx (as SO2) - 0.9 lb/hr, or VOC - 2.5 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit

51. Emission rates from CGT shall not exceed any of the following: PM10 - 120.0 lb/day, SOx (as SO2) - 21.6 lb/day, NOx (as NO2) - 1,629.6 lb/day, VOC - 60.0 lb/day, or CO - 1056.0 lb/day. [District Rule 2201 and PSD SJ 85-09, X.E] Federally Enforceable Through Title V Permit

52. Emission rates from CGT, except during startup and/or shutdown, shall not exceed any of the following: NOx (as NO2) - 16.4 ppmvd @ 15% O2, 67.9 lb/hr on a 3-hr avg, 79.7 lb/hr on a 1-hr avg, or CO - 25 ppmvd @ 15% O2, 44.0 lb/hr on a 3-hr avg. [District Rule 2201 and PSD SJ 85-09, X.E] Federally Enforceable Through Title V Permit

53. During startup and shutdown, emissions shall not exceed any of the following: 140.0 lb/hr of NOx on a 2-hr avg, 140 lb/hr of CO on a 2-hr avg, or 200 lb/hr of CO on a 1-hr avg. [District Rule 2201] Federally Enforceable Through Title V Permit

54. Each 1-hour period in a 1, 2 or 3-hour average will commence on the hour. The 3-hour average will be compiled from the three most recent 1-hour periods. The 2-hour average will be compiled from the two most recent 1-hour periods. [District Rule 1080] Federally Enforceable Through Title V Permit

55. Daily Emissions for the unit may be determined from the arithmetic mean of three, 40-minute test runs for NOx and CO, multiplied by the appropriate factor. [District Rule 2520, 9.4.2 and District Rule 4703] Federally Enforceable Through Title V Permit

56. Source testing to determine NOx and CO emissions and fuel gas sulfur content shall be conducted annually. [District Rule 1081] Federally Enforceable Through Title V Permit

57. Annual compliance tests shall be conducted by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1081] Federally Enforceable Through Title V Permit

58. Continuous emission monitoring system for NOx as NO2 and continuous monitoring system for CO & CO2 shall serve each CGT flue gas stream, shall conform to SJVUAPCD Rule 1080 specifications, shall meet EPA monitoring performance specifications, & shall be operational whenever the turbine is in operation. [District Rule 1080 and PSD SJ 85-09, X.D.1 and .2] Federally Enforceable Through Title V Permit

59. All continuous emissions monitoring systems shall be calibrated and operated according to EPA guidelines as specified in 40 CFR 60, Appendix B and 40 CFR 52, Appendix E. CEM ppm and lb/hr shall be calculated as a three-hour and a 1-hour average. [District Rule 1080 and PSD SJ 85-09 X.D.2] Federally Enforceable Through Title V Permit

60. Quarterly continuous emission monitoring system reports shall be submitted to the District, EPA and CEC, as required by EPA regulations as specified in CFR Title 40, Part 58, Appendix B and Part 60 Appendix B. [District Rule 1080 and PSD SJ 85-09, X.D.5] Federally Enforceable Through Title V Permit

61. Audits of continuous emission monitoring system shall be conducted in accordance with EPA guidelines, witnessed at the District's discretion, and reports shall be submitted to the District within 60 days of such an audit. [District Rule 1080 and PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

62. The Relative Accuracy Audit shall be conducted by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1080 and PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

63. Startup and shutdown of CGT, as defined in 40 CFR, Subpart A 60.2, shall not exceed a time period of two hours and two hours, respectively, per occurrence. [40 CFR 60.8] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

64. NO2 and CO daily emissions during days of startup/shutdown shall be calculated from natural gas combustion rates and CEM results. [District Rule 1080] Federally Enforceable Through Title V Permit

65. Daily records of NO2 and CO emission calculations during days of gas turbine startup/shutdown shall be maintained and such records shall be made readily available for District inspection upon request for a period of five years. [District Rule 1080] Federally Enforceable Through Title V Permit

66. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

67. The Regional Administrator shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

68. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the conditions of this permit, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

69. The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

70. At such times as specified by the USEPA, permittee shall conduct or cause to be conducted performance tests (as described in 40 CFR 60.8) for CO on the exhaust stack gases and furnish the District, the California ARB and the USEPA a written report of the results of such tests. All performance tests shall be conducted on an annual basis and at the maximum operating capacity of the emissions unit being tested. Upon written request from permittee, and adequate justification, USEPA may waive a specific annual test and/or allow for testing to be done at less than maximum operating capacity. [PSD SJ 85- 09] Federally Enforceable Through Title V Permit

71. Performance tests for the emissions of CO shall be conducted and results reported in accordance with the test methods set forth in 40 CFR 60.8 and 40 CFR 60, Appendix A. The performance tests for the emissions of CO shall be conducted using EPA Methods 1 through 4 and 10. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

72. The USEPA shall be notified in writing at least 30 days in advance of such test to allow time for development of an approvable performance test plan and to arrange for an observer to be present at the test. Such prior approval shall minimize the possibility of USEPA rejection of test results for procedural deficiencies. In lieu of the above mentioned test methods, equivalent methods may be used with prior written approval from the USEPA. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

73. Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for the purposes of this permit. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

74. For performance test purposes, sampling ports, platforms, and access shall be provided by the facility on the emission unit exhaust system in accordance with 40 CFR 60.8(e). [PSD SJ 85-09] Federally Enforceable Through Title V Permit

75. The cogeneration facility is subject to the federal regulations entitled Standards of Performance for New Stationary Sources (40 CFR 60). The owner or operator shall meet all applicable requirements of Subparts A and GG of this regulation. [PSD SJ 85- 09] Federally Enforceable Through Title V Permit

76. All correspondence as required by this permit shall be forwarded to: a) Director, Enforcement Div (Attn: A-5), EPA Region IX, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Control Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95814; c) Director, SJVUAPCD, 1990 East Gettysburg, Fresno, CA, 93726-0244; and d) the California Energy Commission, 1516 Ninth Street, Sacramento, CA, 95814-5512. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

77. The operator shall perform source testing for PM10 concentration and emission rate once per permit term using EPA Method 5. [40 CFR 60.8 (b) and (c)] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

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PERMIT NO: S-511-3-12

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: SYCAMORE COGENERATION CO
MAILING ADDRESS: P O BOX 80598
BAKERSFIELD, CA 93380

LOCATION: HEAVY OIL CENTRAL
CA

SECTION: NW30 **TOWNSHIP:** 28S **RANGE:** 28E

EQUIPMENT DESCRIPTION:
MODIFICATION OF 75 MW GENERAL ELECTRIC MODEL 7EA NATURAL GAS-FIRED COMBUSTION TURBINE COGENERATION UNIT WITH DRY LOW NOX COMBUSTORS (SYCAMORE #3): AUTHORIZE OPERATION IN SIMPLE CYCLE MODE AND ALLOW EXHAUST THROUGH BYPASS STACK

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District NSR Rule] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. CGT shall be fired on natural gas only. There shall be no provisions for oil firing. Natural gas used as fuel shall be pipeline quality with sulfur content of 0.3 gr/100 scf or less (0.001% sulfur by weight). [District Rule 2201; Kern County Rule 407] Federally Enforceable Through Title V Permit
4. {2350} The owner or operator shall not exceed the following applicable Tier 1 NOx emission rate of (15 x EFF / 25) ppmvd @ 15% O2, under load conditions, excluding thermal stabilization periods or reduced load periods, where EFF (efficiency) is the higher of EFF1 {100% x (3,412 Btu/kW-hr) / (Actual Heat Rate at HHV, Btu/kW-hr)} or EFF2 {EFFmfr x (LHV / HHV)} where actual heat rate is a ratio of the heat input to power output taking into account the manufacturer's listed turbine efficiency, HHV is the higher heating value of the fuel, LHV is the lower heating value of the fuel, and EFFmfr is the manufacturer's continuous rated percent efficiency of the gas turbine with air pollution equipment at LHV. An EFF that is less than 25 shall be assigned a value of 25. [40 CFR 60.332(a)(1) and (a)(2) District Rule 4703, 5.1.1] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 326-6900 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

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DAVID WARNER, Director of Permit Services
S-511-3-12 : Apr 25 2006 11:15AM – ELLENBEC : Joint Inspection NOT Required

5. {2264} Reduced Load Period shall be defined as the time during which a gas turbine is operated at less than rated capacity in order to change the exhaust gas diverter gate not exceeding one hour. [District Rule 4703, 3.19] Federally Enforceable Through Title V Permit

6. {2265} Thermal Stabilization Period shall be defined as the start up or shut down time during which the exhaust gas is not within the normal operating range, not to exceed two hours. [District Rule 4703, 3.25] Federally Enforceable Through Title V Permit

7. Operator shall conform with the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit

8. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3246, D4468 or D6667. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit

9. If the turbine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested in accordance with the requirements of 40 CFR 60.334 (h) and 40 CFR 60.334(i). [40 CFR 60.334 (h) and 40 CFR 60.334(i)] Federally Enforceable Through Title V Permit

10. The HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit

11. The owner or operator shall provide source test information annually regarding the exhaust gas NOx and CO concentration corrected to 15% O2 (dry). EPA Methods 7E or 20 shall be used for NOx emissions. EPA Methods 10 or 10B shall be used for CO emissions. EPA Methods 3, 3A, or 20 shall be used for Oxygen content of the exhaust gas. [40 CFR 60.8(a), 40 CFR 60.335(b) and District Rule 4703, 5.1, 6.3.1, 6.4.1, 6.4.2, and 6.4.3] Federally Enforceable Through Title V Permit

12. {2351} The owner or operator shall provide source test information annually regarding the demonstrated percent efficiency (EFF) as defined in District Rule 4703 (as amended 4/25/02), 5.1.1 and 6.4.6. [40 CFR 60.332(a) and (b) and District Rule 4703, 5.1.1 and 6.4.6] Federally Enforceable Through Title V Permit

13. {2256} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit

14. Sulfur compound emissions shall not exceed 0.015% by volume, 150 ppmv, on a dry basis averaged over 15 consecutive minutes. [40 CFR 60.333(a); County Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus)] Federally Enforceable Through Title V Permit

15. {2270} All continuous monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the device. [40 CFR 60.13(b)] Federally Enforceable Through Title V Permit

16. Operations during periods of startup and shutdown shall not constitute representative conditions for the purpose of a NOx performance test nor shall NOx emissions in excess of the level of the emission limit shown in this permit during periods of startup and shutdown be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)] Federally Enforceable Through Title V Permit

17. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.1.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2] Federally Enforceable Through Title V Permit

18. Records shall be maintained and shall contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit

19. If the turbine is fired on PUC-regulated natural gas, then maintain on file copies of natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. {2271} The owner or operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

21. {2272} Results of the CEM system shall be averaged over a three hour period, using consecutive 15-minute sampling periods in accordance with either EPA Method 7E or EPA Method 20 for NOx, EPA Test Methods 10 or 10B for CO, or EPA Methods 3, 3A, or 20 for O2, or, if continuous emission monitors are used, all applicable requirements of CFR 60.13. [40 CFR 60.13 and District Rule 4703, 5.1, 6.4] Federally Enforceable Through Title V Permit

22. The owner or operator shall not operate the gas turbine after April 30, 2008, or within 90 days following a Major Overhaul if the overhaul occurs after April 30, 2004, under load conditions, excluding the thermal stabilization period or reduced load period, which results in the measured NOx emissions concentration exceeding 3 ppmv @ 15% O2. [District Rule 4703, 5.1.2.1] Federally Enforceable Through Title V Permit

23. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the following: the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(b); District Rules 2520, 9.4.2 and 4703, 6.2.4; PSD SJ 85-09, X.D.1] Federally Enforceable Through Title V Permit

24. Operator shall operate and maintain in calibration a system which continuously measures and records the following: control system operating parameters, elapsed time of operation, the exhaust gas NOx and O2 or CO2 concentration . [40 CFR 60.334(b),(c) and District Rules 2520, 9.4.2 and 4703] Federally Enforceable Through Title V Permit

25. When CGT exhausts to bypass stack, the CEM probe located in the transition section shall be used to measure exhaust gas NOx, CO and O2 or CO2 concentration. [District Rule 2201] Federally Enforceable Through Title V Permit

26. CEM cycling times shall be those specified in 40 CFR, Part 51, Appendix P, Sections 3.4 and 3.4.2, or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080, 6.4] Federally Enforceable Through Title V Permit

27. {2250} The continuous NOx and O2 monitoring system shall meet the performance specification requirements in 40 CFR 60, Appendix F, 40 CFR 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080, 6.3, 6.5, 6.6 and 7.2] Federally Enforceable Through Title V Permit

28. {2251} The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit

29. {2252} The owner or operator shall maintain records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM system that has been installed pursuant to District Rule 1080 (as amended 12/17/92), and emission measurements. [40 CFR 60.8(d) and District Rule 1080, 7.0] Federally Enforceable Through Title V Permit

30. {2254} APCO or an authorized representative shall be allowed to inspect, as he or she determines to be necessary, the monitoring devices required by this rule to ensure that such devices are functioning properly. [District Rule 1080, 11.0] Federally Enforceable Through Title V Permit

31. Operator shall submit a quarterly report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(i)] Federally Enforceable Through Title V Permit

32. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit

33. The APCO shall be notified no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0; PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

34. {2280} Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus) as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

35. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.332(a), (a)(1), (a)(2) 60.333 (a) and (b); 60.334 (a), (b), (c), (h) and (j)(2), (j)(5) and 60.335(a) and (b); District Rule 4703 (as amended 4/25/02), Sections 5.1.1, 5.2, 6.1, 6.3.1, 6.3.3, 6.4, 6.4.5, and 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

36. {2282} Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.7(b), 60.8, 60.8(d), 60.13, and 60.13(b); District Rules 1080 (as amended 12/17/92), Sections 6.3, 6.4, 6.5, 7.0, 7.1, 7.2, 7.3, 8.0, 9.0, 10.0, and 11.0; and 1081 (as amended 12/16/93) as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

37. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO and EPA. The report is due on the 30th day following the end of the calendar quarter and shall include the following: A. time intervals, data and magnitude of excess emissions (computed in accordance with 40 CFR 60.13(h)), nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard. [District Rule 1080, 8.0 and PSD SJ 85-09, X.D.3 and X.D.5.a through e] Federally Enforceable Through Title V Permit

38. The written report for each calendar quarter shall also include the following: C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. Excess emissions shall be defined as any 3-hour period during which the average emissions for CO, as measured by the CEM system, exceeds the emission limit set forth in PSD SJ 85-09, X.E. [District Rule 1080, 8.0; PSD SJ 85-09, X.D.3 and X.D.5.a through e] Federally Enforceable Through Title V Permit

39. The CGT combustors shall be a dry low NOx design capable of achieving 16.4 ppm or lower at 15% O2. [District Rule 4703 and PSD SJ 85-09, X.B] Federally Enforceable Through Title V Permit

40. Each CGT shall have a maximum heat input rate of 1020 MMBTU/hr on an LHV basis. Firing rate can be increased upon District witnessed emission sampling demonstration that compliance with emission sampling limits can be achieved at higher fuel rates. [District Rule 2201] Federally Enforceable Through Title V Permit

41. Permit unit shall include one unfired heat recovery steam generator (HRSG) for gas turbine engine assembly with rated steam output of 450,000 lb/hr at 80% quality steam production. [District Rule 2201] Federally Enforceable Through Title V Permit

42. CGT may exhaust either through unfired 450,000 lb/hr heat recovery steam generator or through bypass stack. [District Rule 2201] Federally Enforceable Through Title V Permit

43. When operating in cogeneration mode, exhaust gas ducting from CGT's through HRSG's to the atmosphere shall be gas-tight. [District Rule 2201] Federally Enforceable Through Title V Permit

44. Bypass stack valve preceding each HRSG shall be designed to be gas-tight to the atmosphere when exhaust is discharged through HRSG and shall be designed to be gas-tight to the HRSG when exhaust is discharged through the bypass stack. [District Rule 2201] Federally Enforceable Through Title V Permit

45. Each CGT shall have a fuel consumption monitor/recorder. [District Rule 2201 and PSD SJ 85-09, X.D.1] Federally Enforceable Through Title V Permit

46. Exhaust gas particulate matter concentration shall not exceed 0.0072 gr/scf calculated at 12% CO2. [District Rule 2201] Federally Enforceable Through Title V Permit

47. HRSG stack shall be equipped with permanent stack sampling provisions consistent with District Rule 1081, EPA reference Methods 5 and 8 and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

48. Operational records (including but not limited to: fuel characteristics, etc.) shall be maintained by Sycamore Cogeneration Company. [District Rule 2201] Federally Enforceable Through Title V Permit

49. Accurate records of NOx (as NO2) and carbon monoxide (CO) flue gas concentrations corrected to 15% O2, dry and CGT fuel sulfur content shall be maintained and shall be reported as described by District Rule 1080 and upon request. [District Rule 1080] Federally Enforceable Through Title V Permit

50. Emission rates from CGT shall not exceed any of the following: PM10 - 5.0 lb/hr, SOx (as SO2) - 0.9 lb/hr, or VOC - 2.5 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit

51. Emission rates from CGT shall not exceed any of the following: PM10 - 120.0 lb/day, SOx (as SO2) - 21.6 lb/day, NOx (as NO2) - 1,629.6 lb/day, VOC - 60.0 lb/day, or CO - 1056.0 lb/day. [District Rule 2201 and PSD SJ 85-09, X.E] Federally Enforceable Through Title V Permit

52. Emission rates from CGT, except during startup and/or shutdown, shall not exceed any of the following: NOx (as NO2) - 16.4 ppmvd @ 15% O2, 67.9 lb/hr on a 3-hr avg, 79.7 lb/hr on a 1-hr avg, or CO - 25 ppmvd @ 15% O2, 44.0 lb/hr on a 3-hr avg. [District Rule 2201 and PSD SJ 85-09, X.E] Federally Enforceable Through Title V Permit

53. During startup and shutdown, emissions shall not exceed any of the following: 140.0 lb/hr of NOx on a 2-hr avg, 140 lb/hr of CO on a 2-hr avg, or 200 lb/hr of CO on a 1-hr avg. [District Rule 2201] Federally Enforceable Through Title V Permit

54. Each 1-hour period in a 1, 2 or 3-hour average will commence on the hour. The 3-hour average will be compiled from the three most recent 1-hour periods. The 2-hour average will be compiled from the two most recent 1-hour periods. [District Rule 1080] Federally Enforceable Through Title V Permit

55. Daily Emissions for the unit may be determined from the arithmetic mean of three, 40-minute test runs for NOx and CO, multiplied by the appropriate factor. [District Rule 2520, 9.4.2 and District Rule 4703] Federally Enforceable Through Title V Permit

56. Source testing to determine NOx and CO emissions and fuel gas sulfur content shall be conducted annually. [District Rule 1081] Federally Enforceable Through Title V Permit

57. Annual compliance tests shall be conducted by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1081] Federally Enforceable Through Title V Permit

58. Continuous emission monitoring system for NOx as NO2 and continuous monitoring system for CO & CO2 shall serve each CGT flue gas stream, shall conform to SJVUAPCD Rule 1080 specifications, shall meet EPA monitoring performance specifications, & shall be operational whenever the turbine is in operation. [District Rule 1080 and PSD SJ 85-09, X.D.1 and .2] Federally Enforceable Through Title V Permit

59. All continuous emissions monitoring systems shall be calibrated and operated according to EPA guidelines as specified in 40 CFR 60, Appendix B and 40 CFR 52, Appendix E. CEM ppm and lb/hr shall be calculated as a three-hour and a 1-hour average. [District Rule 1080 and PSD SJ 85-09 X.D.2] Federally Enforceable Through Title V Permit

60. Quarterly continuous emission monitoring system reports shall be submitted to the District, EPA and CEC, as required by EPA regulations as specified in CFR Title 40, Part 58, Appendix B and Part 60 Appendix B. [District Rule 1080 and PSD SJ 85-09, X.D.5] Federally Enforceable Through Title V Permit

61. Audits of continuous emission monitoring system shall be conducted in accordance with EPA guidelines, witnessed at the District's discretion, and reports shall be submitted to the District within 60 days of such an audit. [District Rule 1080 and PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

62. The Relative Accuracy Audit shall be conducted by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1080 and PSD SJ 85-09, X.D.3] Federally Enforceable Through Title V Permit

63. Startup and shutdown of CGT, as defined in 40 CFR, Subpart A 60.2, shall not exceed a time period of two hours and two hours, respectively, per occurrence. [40 CFR 60.8] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

64. NO2 and CO daily emissions during days of startup/shutdown shall be calculated from natural gas combustion rates and CEM results. [District Rule 1080] Federally Enforceable Through Title V Permit

65. Daily records of NO2 and CO emission calculations during days of gas turbine startup/shutdown shall be maintained and such records shall be made readily available for District inspection upon request for a period of five years. [District Rule 1080] Federally Enforceable Through Title V Permit

66. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

67. The Regional Administrator shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

68. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the conditions of this permit, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

69. The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

70. At such times as specified by the USEPA, permittee shall conduct or cause to be conducted performance tests (as described in 40 CFR 60.8) for CO on the exhaust stack gases and furnish the District, the California ARB and the USEPA a written report of the results of such tests. All performance tests shall be conducted on an annual basis and at the maximum operating capacity of the emissions unit being tested. Upon written request from permittee, and adequate justification, USEPA may waive a specific annual test and/or allow for testing to be done at less than maximum operating capacity. [PSD SJ 85- 09] Federally Enforceable Through Title V Permit

71. Performance tests for the emissions of CO shall be conducted and results reported in accordance with the test methods set forth in 40 CFR 60.8 and 40 CFR 60, Appendix A. The performance tests for the emissions of CO shall be conducted using EPA Methods 1 through 4 and 10. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

72. The USEPA shall be notified in writing at least 30 days in advance of such test to allow time for development of an approvable performance test plan and to arrange for an observer to be present at the test. Such prior approval shall minimize the possibility of USEPA rejection of test results for procedural deficiencies. In lieu of the above mentioned test methods, equivalent methods may be used with prior written approval from the USEPA. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

73. Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for the purposes of this permit. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

74. For performance test purposes, sampling ports, platforms, and access shall be provided by the facility on the emission unit exhaust system in accordance with 40 CFR 60.8(e). [PSD SJ 85-09] Federally Enforceable Through Title V Permit

75. The cogeneration facility is subject to the federal regulations entitled Standards of Performance for New Stationary Sources (40 CFR 60). The owner or operator shall meet all applicable requirements of Subparts A and GG of this regulation. [PSD SJ 85- 09] Federally Enforceable Through Title V Permit

76. All correspondence as required by this permit shall be forwarded to: a) Director, Enforcement Div (Attn: A-5), EPA Region IX, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Control Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95814; c) Director, SJVUAPCD, 1990 East Gettysburg, Fresno, CA, 93726-0244; and d) the California Energy Commission, 1516 Ninth Street, Sacramento, CA, 95814-5512. [PSD SJ 85-09] Federally Enforceable Through Title V Permit

DRAFT

CONDITIONS CONTINUE ON NEXT PAGE

77. The operator shall perform source testing for PM10 concentration and emission rate once per permit term using EPA Method 5. [40 CFR 60.8 (b) and (c)] Federally Enforceable Through Title V Permit

DRAFT

Attachment E

Emission Profiles

Permit #: S 511 -2 -12 Issued: / /
Implemented: / /

Facility: SYCAMORE COGENERATION CO

Last Updated
04/17/06 ELLENBEC

Equipment Prebaselined: ☐ Yes ☐ No

	NOX	SOX	PM10	CO	VOC
Potential to Emit (lb/Yr):	594804	7884	43800	385440	21900
Daily Emis. Limit (lb/Day):	1628.6	21.6	120.0	1056.0	60.0
Quarterly Net Emissions Change 1:	0	0	0	0	0
2:	0	0	0	0	0
3:	0	0	0	0	0
4:	0	0	0	0	0
Check if offsets are triggered but exemption applies	☐	☐	☐	☐	☐
Offset Ratio:					
Quarterly Offset Amounts 1:					
2:					
3:					
4:					
SLC ID (PTE):					
SLC ID (DEL):					

Facility SLC

Exit

Permit #: S 511 -3 -12 Issued: / /
Implemented: / /

Facility: SYCAMORE COGENERATION CO

Last Updated
04/17/08 ELLENBEC

Equipment Prebaselined: ☐ Yes ☐ No

	NOX	SOX	PM10	CO	VOC
Potential to Emit (lb/Yr):	594804	7884	43800	385440	21900
Daily Emis. Limit (lb/Day):	1629.6	21.6	120.0	1056.0	60.0
Quarterly Net Emissions Change 1:	0	0	0	0	0
2:	0	0	0	0	0
3:	0	0	0	0	0
4:	0	0	0	0	0
Check if offsets are triggered but exemption applies	☐	☐	☐	☐	☐
Offset Ratio:					
Quarterly Offset Amounts 1:					
2:					
3:					
4:					
SLC ID (PTE):					
SLC ID (DEL):					

Facility SLC

Exit

APPENDIX B

REQUEST FOR EPA PSD NONAPPLICABILITY CONFIRMATION

DLD

Sycamore Cogeneration Company | Box 80598, Bakersfield, CA 93380 • (661) 392-2630

Neil E. Burgess, Executive Director

FAXED AND MAILED ON:

March 22, 2006

SY-8473

Mr. Bob Baker
Air-3
U.S. Environmental Protection Agency
Region IX
75 Hawthorne Street
San Francisco, CA 94105

Re: **Sycamore Cogeneration Company (NSR 4-4-8, SJ 85-09)**
Notice of PSD Nonapplicability Determination for Proposed
Simple Cycle Operation of Any Two Sycamore Turbine Units

Dear Mr. Baker:

We are writing to notify EPA of a possible change in the method of operation of Sycamore Cogeneration Company (Sycamore) (NSR 4-4-8, SJ 85-09). In order to retain additional operating flexibility, Sycamore would like to be able to operate any two of the four Sycamore units in simple cycle mode at any given time. Previously, Sycamore had received a PSD modification for simple cycle operation of only Units 1 and 4. The current notice is intended to cover potential simple cycle operation of any two units at one time. Although this change constitutes a potential change in the method of operation of the units, we have concluded that no combination of two units operating in simple cycle mode would trigger PSD review. Accordingly, we are seeking EPA's confirmation that this change will not be subject to a revision to the Sycamore PSD permit.

Background

Sycamore is a cogeneration facility located in the Kern River oilfield near Bakersfield, CA. The facility employs four (4) General Electric Frame 7EA combustion turbines (CTs) and four (4) unfired heat recovery steam generators (HRSGs) to cogenerate 300 MW (nominal rating) of electricity and 1.8 million pounds per hour of steam for enhanced oil recovery. Each CT/HRSG generates approximately ¼ of the total steam and electricity output for Sycamore. Each CT is equipped with Dry Low NOx (DLN) combustor technology capable of meeting a NOx

emissions limit of 16.4 ppmv at 15% O2, dry and a CO emissions limit of 25 ppmv at 15% O2, dry.

As a result of gradually declining steam demand and anticipated negotiations regarding the Sycamore electricity contract (based on Sycamore's sister facility KRCC), Sycamore would like the flexibility of operating up to two of the four CT units in simple cycle mode at any given time. Sycamore is requesting that all four units have the ability to be operated in both simple cycle and cogeneration mode.

Description of Simple Cycle Operation for Units 1, 2, 3 and 4

No additional physical construction is needed to facilitate simple cycle operation. Each CT discharges to a HRSG through a transition section that is equipped with a gas-tight bypass stack. In order to operate in simple cycle, the bypass stack damper would be repositioned to block off the HRSG, directing the CT exhaust through the bypass stack to the atmosphere. Since the DLN operation is unaffected by the positioning of the bypass damper, the change to simple cycle operation will not impact the current air pollution control system that has been previously determined to represent Best Available Control Technology (BACT). As a result, during simple cycle operations we do not anticipate any change in normal CT emission rates.

The current Sycamore permit is based on a continuous, 24-hr day operation. While Sycamore does not propose to specifically restrict its operating schedule in the future, it is anticipated up to two units will operate in simple cycle at any given time. It is also anticipated that each unit will operate for substantially fewer hours than historical operations. At the present time, we envision that the simple cycle units would operate in response to peak power demands occurring during the normal work week, Monday through Friday, and would not operate on weekends or holidays. Instead of a 24-hr operation, it is more likely that these two units would ultimately operate for no more than a 6 to 8 hr/day. However, to be conservative, projected actual emissions have been calculated assuming 5200 hr/yr of normal operation (the equivalent of a 20 hr/day operation, 5 days per week). We also anticipate that the units will operate more frequently in the summer peak power period, April through October, and less during the off-peak period of the year, November through March. The addition of simple cycle operation will increase the number of startups and shutdowns for the affected CT. We have conservatively assumed 520 startup/shutdown hr/yr for each unit in the attached emission calculations. Although emissions are higher during startups and shutdowns, Sycamore will not be increasing either permitted maximum daily or maximum annual emissions.

Redirection of the CT exhaust through the existing bypass stack will also cause a substantial increase in stack gas temperature and a minor decrease in exit velocity, improving stack gas dispersion overall. These changes have a positive impact on ambient dispersion.

Proposed Emissions Changes Are Not Significant

Since the proposed amendment constitutes a potential change in the method of operation, we have completed an evaluation of the applicability of PSD regulations. Pursuant to 40 CFR 52.21 (a) (2) (iv) (c), existing units are to calculate emissions increases based on an "actual to projected actual" applicability test. The test involves summing the difference between *projected actual emissions* and *baseline actual emissions* as defined in 40 CFR 52.21 (b) (41) and (b) (48), respectively. As specified in 40 CFR 52.21 (b) (48) (i), for an existing electric utility steam generating unit, *baseline actual emissions* is the average rate in tons per year (tpy) at which the unit actually emitted during any consecutive 24-month period within the last five years. The attached calculations demonstrate that the impact of the proposed simple cycle operation would not be considered significant under PSD regulations irrespective of which units are operated in simple cycle. Therefore an amendment to the PSD permit is not required.

- Baseline Actual Emissions

For NOx and CO, the reported baseline emissions reflect actual continuous emissions monitoring system (CEMS) data collected for the period Feb 2004 – Jan 2006. For VOC, SO2 and PM10 baseline emissions were calculated using continuously recorded fuel consumption in conjunction with emissions factors from source tests and fuel sulfur content from monthly fuel analyses over the same period. Historical testing has demonstrated that VOC emissions are below detection limits. Therefore, baseline VOC emissions are reported as negligible.

- Projected Actual Emissions

Projected actual emissions for NOx and CO emission during normal operation were calculated based on the average CEMS-based emission factors in lb/MMBtu observed during the baseline period and a maximum fuel consumption of 1020 MMBtu/hr (LHV.) Startup and shutdown NOx and CO emissions were based on the current startup and shutdown limit in the SJVACPD Permit to Operate of 140 lb/hr. The calculation is summarized in Table 1, below. In fact, for most of the criteria air contaminants, Sycamore anticipates a decrease in emissions. Projected actual VOC, SO2 and PM10 emissions during normal operation were calculated using the source test or fuel analysis based emission factors from the baseline

period and maximum fuel consumption. Since no test data are available to estimate projected actual VOC emissions during startup and shutdown, we applied the AP-42 Table 3.1-2a emission factor for natural gas-fired combustion turbines and a conservative safety factor of 10 to account for potentially higher startup and shutdown VOC emissions.

Although Sycamore anticipates that units will typically operate in simple cycle mode for no more than 500 hr/yr and in cogeneration mode for no more than 3500 hr/yr, we have conservatively based projected actual emissions on 20 hr/day, 5 days/wk, 52 wks/yr. We have assumed that each day of operation would include up to 2 startups lasting ½ hour each and 2 shutdowns lasting ½ hour each. These operating assumptions yield a conservative total of 5200 normal hr/yr of operation and 520 startup/shutdown hr/yr for each unit (for a total of 5720 hr/yr).

- PSD Applicability Summary

Detailed calculations based on the above assumptions are included in Attachment A. The results of these calculations are summarized in Table 1, below. These calculations demonstrate that the proposed operations change is not subject to PSD review.

Table 1. Summary of PSD Applicability Review

PSD Applicability Summary - Units 1 & 2, tons/yr

	NOx	CO	VOC	SO2	PM10
Projected Actual Emissions - Units 1 & 2, ton/yr	231.76	123.09	11.14	0.98	14.53
Baseline Actual Emissions - Units 1 & 2, ton/yr	205.17	59.84	0.00	1.15	16.97
Net change, ton/yr	26.59	63.25	11.14	-0.16	-2.44
PSD significance thresholds	40	100	40	40	15
PSD Review Triggered?	No	No	No	No	No

PSD Applicability Summary - Units 1 & 3, tons/yr

	NOx	CO	VOC	SO2	PM10
Projected Actual Emissions - Units 1 & 3, ton/yr	248.28	130.45	11.14	0.98	14.53
Baseline Actual Emissions - Units 1 & 3, ton/yr	228.58	69.31	0.00	1.16	17.15
Net change, ton/yr	19.70	61.14	11.14	-0.18	-2.62
PSD significance thresholds	40	100	40	40	15
PSD Review Triggered?	No	No	No	No	No

PSD Applicability Summary - Units 1 & 4, tons/yr

	NOx	CO	VOC	SO2	PM10
Projected Actual Emissions - Units 1 & 4, ton/yr	242.32	135.31	11.14	0.98	14.53
Baseline Actual Emissions - Units 1 & 4, ton/yr	220.33	76.00	0.00	1.16	17.14
Net change, ton/yr	21.98	59.32	11.14	-0.18	-2.61
PSD significance thresholds	40	100	40	40	15
PSD Review Triggered?	No	No	No	No	No

PSD Applicability Summary - Units 2 & 3, tons/yr

	NOx	CO	VOC	SO2	PM10
Projected Actual Emissions - Units 2 & 3, ton/yr	235.99	118.94	11.14	0.98	14.53
Baseline Actual Emissions - Units 2 & 3, ton/yr	210.69	53.59	0.00	1.14	16.96
Net change, ton/yr	25.30	65.35	11.14	-0.16	-2.44
PSD significance thresholds	40	100	40	40	15
PSD Review Triggered?	No	No	No	No	No

PSD Applicability Summary - Units 2 & 4, tons/yr

	NOx	CO	VOC	SO2	PM10
Projected Actual Emissions - Units 2 & 4, ton/yr	230.02	123.80	11.14	0.98	14.53
Baseline Actual Emissions - Units 2 & 4, ton/yr	202.45	60.27	0.00	1.14	16.96
Net change, ton/yr	27.58	63.52	11.14	-0.16	-2.43
PSD significance thresholds	40	100	40	40	15
PSD Review Triggered?	No	No	No	No	No

PSD Applicability Summary - Units 3 & 4, tons/yr

	NOx	CO	VOC	SO2	PM10
Projected Actual Emissions - Units 3 & 4, ton/yr	246.55	131.16	11.14	0.98	14.53
Baseline Actual Emissions - Units 3 & 4, ton/yr	225.85	69.74	0.00	1.16	17.13
Net change, ton/yr	20.69	61.42	11.14	-0.18	-2.60
PSD significance thresholds	40	100	40	40	15
PSD Review Triggered?	No	No	No	No	No

Summary

Based on the foregoing analysis, we have concluded that Sycamore's addition of simple cycle operating flexibility for all of the Sycamore units will not be subject to PSD review. We respectfully request your written concurrence as expeditiously as possible. If you have any questions, please contact either Mervyn Soares at (661) 392-2643 or our consultant, David Stein of CH2M HILL at (510) 587-7787. Thank you for your prompt consideration.

Nick E Burgess

DLB:yh

Attachments

xc: D. Stein – CH2M HILL -Oakland (w/attachments)
C. Meyer – CEC (w/attachments)

ATTACHMENT A

Supporting Emissions Calculations and Historical Operating Data

Unit 1 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	Fuel Gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
Feb 04	01	487.4893	795.7363281	3.400806	14.90428	4.07763577	4.010154247	0.009903821	7.889714718	189.3531	8.736994743	8.597628593	0.034880638	27.7552948	666.1270752	24	19097.67188
	02	480.3703	784.1172485	3.411491	14.88544	2.99781132	2.941219568	0.007263888	5.69962883	136.7911	8.732225418	8.567135811	0.034756929	27.2577343	654.1856079	24	18818.81396
	03	481.9259	786.6554565	3.423445	14.86435	3.02547503	2.95680213	0.007302375	5.746375561	137.913	8.772607803	8.575585365	0.034791213	27.3684216	656.8421021	24	18879.73096
	04	485.8542	793.0681763	3.39611	14.91256	3.89376616	3.836831331	0.009475764	7.518722534	172.9306	8.493258476	8.369566917	0.033955391	26.9253998	619.2841797	24	19033.63623
	05	487.2505	795.3461914	3.394256	14.91583	4.22978306	4.169625759	0.010297664	8.196790695	196.723	8.293906212	8.177163124	0.033174809	26.3873539	633.2965088	24	19088.30859
	06	484.9918	791.6599731	3.384463	14.93309	3.95362663	3.908459187	0.009652665	7.644009113	183.4562	8.326337814	8.232965469	0.033401206	26.4432964	634.6390991	24	18999.83936
	07	487.4562	795.6824951	3.369582	14.95933	4.52295113	4.489855289	0.011088544	8.831773758	211.9626	8.250025749	8.193984032	0.033243045	26.448679	634.7683105	24	19096.37988
	08	487.6257	795.9606323	3.372952	14.95338	4.57493877	4.538058281	0.011207575	8.928908348	214.2938	8.379598618	8.313838005	0.0337293	26.8475246	644.3405762	24	19103.05518
	09	488.5027	797.3910522	3.377595	14.9452	4.59878683	4.555803776	0.011251401	8.979637146	215.5113	8.457181931	8.379493713	0.033995658	27.1099586	650.6389771	24	19137.38525
	10	486.6622	794.3864136	3.362664	14.97152	4.29164219	4.269911766	0.010545343	8.383243561	192.8146	8.396651268	8.356168747	0.033901025	26.9363136	619.5352173	24	19065.27393
	11	485.1076	791.8484497	3.37168	14.95563	4.17859077	4.146639347	0.010240902	8.11242485	194.6982	8.447324753	8.385486603	0.034019977	26.9397545	646.5540771	24	19004.36279
	12	485.0413	791.7407837	3.385417	14.93141	4.26730394	4.21655035	0.010413565	8.250980377	198.0235	8.395814896	8.299860954	0.033672597	26.6598415	639.8361816	24	19001.77881
	13	485.3625	792.2654419	3.376832	14.94655	4.15840101	4.11858511	0.010171607	8.069329262	193.6639	8.442873955	8.368085861	0.033949375	26.8938503	645.4523926	24	19014.37061
	14	480.8599	784.9155273	3.38866	14.9257	3.17810082	3.137317419	0.00774819	6.085021019	146.0405	8.560838699	8.455143929	0.034302577	26.9211617	646.1079102	24	18837.97266
	15	479.8352	783.2427979	3.391395	14.92085	3.32881951	3.283656359	0.0081096	6.353947639	152.4947	8.399152756	8.288550377	0.033626705	26.3379421	632.1105957	24	18797.82715
	16	478.2085	780.5880127	3.413461	14.88198	3.49924994	3.429728746	0.008470353	6.614228725	158.7415	8.151614189	7.992258072	0.032424651	25.3125	607.5	24	18734.1123
	17	477.4318	779.3190308	3.407293	14.89285	3.50735784	3.444252491	0.008506222	6.631436825	159.1545	8.137940407	7.992995262	0.032427639	25.2741413	606.5794067	24	18703.65674
	18	477.1597	778.875	3.380838	14.93947	3.14137578	3.109153748	0.007678635	5.982334614	143.576	8.234603882	8.151218414	0.033069547	25.7599163	618.2379761	24	18693
	19	478.1925	780.5610962	3.389422	14.92434	3.11975336	3.079376698	0.007605096	5.938655853	142.5277	8.353842735	8.248279572	0.033463329	26.1198673	626.87677	24	18733.46631
	20	476.7473	778.2022705	3.396545	14.9118	2.83008289	2.787783861	0.00688495	5.359370232	128.6249	8.564338684	8.438352585	0.034234453	26.6416798	639.4003296	24	18676.85449
	21	475.0688	775.4624023	3.400107	14.90551	2.63707638	2.594864607	0.006408502	4.971944332	119.3267	8.618233681	8.482387543	0.034413103	26.6857548	640.4580688	24	18611.09766
	22	251.2719	546.7781982	2.423517	11.20875	3.54662943	5.915966034	0.014610589	5.428865433	97.71958	6.937661171	7.703565598	0.031253424	20.9826584	377.6878357	16.25	8885.145721
	23	480.483	784.3013306	3.443605	14.82882	2.9025805	2.819932461	0.006964351	5.463732243	131.1296	8.604084015	8.36171627	0.033923533	26.6062965	638.5510864	24	18823.23193
	24	483.1288	788.6195679	3.446277	14.82411	3.40831041	3.309135437	0.008172527	6.446667671	154.72	8.356068611	8.114469528	0.032920465	25.9626827	623.1043701	24	18926.86963
	25	479.2086	782.220459	3.370693	14.95738	2.98199701	2.958425999	0.007306386	5.718905926	131.5348	8.439175606	8.379104614	0.033994082	26.5907784	611.5878906	24	18773.29102
	26	482.3602	787.3640137	3.396609	14.91168	2.90385246	2.859699488	0.007062562	5.56271553	133.5052	8.570378304	8.445703506	0.034264289	26.9785461	647.4851074	24	18896.73633
	27	486.9531	794.8620605	3.401442	14.90316	3.22293448	3.169857502	0.007828554	6.226785183	149.4429	8.547327042	8.409420013	0.034117077	27.1181412	650.8353882	24	19076.68945
	28	488.5493	797.4671021	3.392603	14.91873	3.60640574	3.556358337	0.008783089	7.008010864	168.1923	8.437944412	8.323361397	0.033767935	26.928524	646.2846069	24	19139.21045
	29	485.5964	792.6466064	3.388406	14.92613	3.60179329	3.557605505	0.008786171	6.96819067	167.2366	8.338420868	8.235526085	0.033411592	26.4856758	635.656189	24	19023.51855
Mar 04	01	480.3986	784.1621094	3.383255	14.93522	2.98254919	2.950147629	0.007285935	5.71518898	137.1645	8.435400963	8.34392643	0.033851363	26.5451336	637.0831909	24	18819.89063
	02	479.8021	783.1890259	3.398325	14.90865	2.60480213	2.564129591	0.006308074	4.943435669	118.6425	8.720301628	8.587978363	0.034731571	27.2013454	652.8322754	24	18796.53662
	03	481.678	786.2518921	3.375497	14.94889	3.48668957	3.455345392	0.008409859	6.621201515	158.9088	8.294383049	8.222560883	0.032863554	25.8426418	620.2233887	24	18870.04541
	04	484.3652	790.6376953	3.378803	14.94308	3.85442114	3.816814184	0.009289626	7.347111702	176.3307	8.272760391	8.193675041	0.032748107	25.8920746	621.40979	24	18975.30469
	05	484.1735	790.3237915	3.393112	14.91785	4.44330025	4.380259037	0.010660972	8.428957939	202.295	7.954314709	7.846097469	0.03135892	24.7853127	594.8474731	24	18967.771
	06	480.3795	784.1307373	3.389424	14.92435	4.18097544	4.127434731	0.010045639	7.884602547	189.2305	7.695329189	7.598326206	0.030368634	23.8159122	571.5819092	24	18819.1377
	07	473.7475	773.3053589	3.393747	14.91674	3.71610332	3.664276361	0.008918369	6.907503128	165.7801	7.566233158	7.461384773	0.029821316	23.0676289	553.6231079	24	18559.32861
	08	469.5521	766.4578247	3.390885	14.92177	3.83502388	3.784256697	0.00921039	7.059186935	169.4205	7.40995121	7.313051701	0.029228479	22.4080791	537.7938843	24	18394.98779
	09	469.8707	766.9779663	3.385098	14.93199	4.15219927	4.10340786	0.009987151	7.666392803	183.9934	7.349378109	7.265963078	0.029040262	22.2766991	534.6408081	24	18407.47119
	10	466.9645	762.2333374	3.405895	14.89531	3.90577364	3.836599112	0.009337776	7.123034	170.9528	7.393098354	7.265358925	0.029037854	22.1380672	531.3135986	24	18293.6001
	11	468.3539	764.5025635	3.380774	14.93959	3.82325959	3.783149481	0.009207696	7.04312849	169.0351	7.491033554	7.414587498	0.029634278	22.6619625	543.887085	24	18348.06152
	12	469.8981	767.0228271	3.405258	14.89643	3.72882342	3.66465497	0.008919292	6.844927311	164.2782	7.652719498	7.521190643	0.030060351	23.0603542	553.4484863	24	18408.54785
	13	470.3018	767.6820068	3.412698	14.88332	3.77397418	3.699625492	0.00900441	6.915041447	165.961	7.573069572	7.426277161	0.029681005	22.7904167	546.9699707	24	18424.36816
	14	470.1733	767.4713135	3.404431	14.8979	4.05776215	3.987334251	0.009704654	7.451729774	178.8415	7.407248974	7.280828476	0.029099688	22.3371964	536.0927124	24	18419.31152
	15	467.3405	762.8477783	3.410981	14.88634	4.03439188	3.956971645	0.009630746	7.351224899	176.4294	7.255418777	7.118339062	0.028450251	21.7060165	520.944397	24	18308.34668
	16	466.2639	761.0899658	3.40176	14.9026	4.07795334	4.008945942	0.00975725	7.43412447	178.419	7.225687981	7.107897282	0.028408526	21.6251793	519.0043335	24	18266.15918
	17	465.4528	759.7669678	3.385544	14.93119	3.84186125	3.795245409	0.009237129	7.02255106	168.5412	7.309154987	7.224716187	0.028875422	21.9408379	526.5800781	24	18234.40723
	18	465.1927	759.3410034	3.382873	14.9359	3.54312921	3.502702951	0.008525121	6.479273796	155.5026	7.471318722	7.390649319	0.029538592	22.4333782	538.401123	24	18224.18408
	19	466.8654	762.0720215	3.399344	14.90685	3.63009405	3.571295023	0.008692066	6.627098083	159.0504	7.494371891	7.37834692	0.029489446	22.4759293	539.4223022	24	18289.72852
	20	467.2094	762.6325684	3.389169	14.92479	3.94313407	3.890655756	0.009469347	7.227601528	173.4624	7.303908825	7.211168766	0.028821267	21.9850254	527.640625	24	18303.18164
	21	466.5245	761.5159912	3.382047	14.93736	3.89639163	3.852078438	0.009375455	7.145724773	171.4974	7.343177795	7.266301632	0.02904162	22.1171875	530.8125	24	18276.38379
	22	465.4094	759.6953125	3.380393	14.94027	3.60243082	3.564758778	0.008676156	6.594604015	158.2705	7.471159935	7.396278858	0.029561117	22.4617577	539.0822144	24	18232.6875
	23	471.7501	770.0452271	3.412826	14.88308	3.92008162	3.842374086	0.009351836	7.207056999	172.9694	7.614563465	7.467140198	0.029844329	22.9842701	551.6224976	24	18481.08545
	24	479.2883	782.3504028	3.39343	14.91729	4.05156136	3.994854689	0.009722956	7.610383511	182.6492	7.901530743	7.792346478	0.031144096	24.3671551	584.8117065	24	18776.40967
	25	478.0222	780.2831421	3.395782	14.91315	4.19750977	4.135415077	0.010065057	7.860364437	188.6488	7.834280968	7.72084856	0.030858325	24.0814209	577.9541016	24	18726.79541
	26	482.8792	788.2115479	3.40405	14.89856	4.31865597	4.244552612	0.010330693	8.146501541	195.516	7.960674763	7.826241493	0.031279564	24.6561966	591.7487183	24	18917.07715
	27	482.3465	787.3415527	3.393492	14.91717	4.48892879	4.425692081	0.010771573	8.484372139	203.6249	7.881022453	7.771841526	0.031062141	24.4585285	587.0046997	24	18896.19727
	28	474.6319	774.7493896	3.380393	14.94026	4.13963938	4.096386433	0.009970071	7.731012821	185.5443	7.654628754	7.577921867	0.030287096	23.4719543	563.3269043	24	18593.98535
	29	469.9616	767.1259766	3.354192	14.98646	3.65966415	3.645009518	0.00887148	6.818966866	163.6552	7.699939251	7.682569027	0.030705342	23.5566044	565.3585205	24	18411.02344
	30	472.6186	771.4623413	3.3975	14.91011	3.67301965	3.616891623	0.008803044	6.796778202	163.1227	7.796761036	7.680183887	0.0306958	23.6851921	568.4445801	24	18515.09619

Unit 1 - CEMS Data

	31	476.1208	777.1799927	3.395719	14.91325	3.94456506	3.886658192	0.009459617	7.354376793	176.505	7.88420105	7.769775867	0.031053884	24.1360035	579.2640991	24	18652.31982
Apr 04	01	477.198	778.9376831	3.368564	14.96113	3.54773879	3.52204299	0.008572191	6.680569172	160.3337	8.242713928	8.190312386	0.032734662	25.4983788	611.9611206	24	18694.50439
	02	477.1758	778.9019165	3.386878	14.92883	3.20798993	3.168179274	0.007710936	6.009085178	144.218	8.442396164	8.344419479	0.033350598	25.9750843	623.4019775	24	18693.646
	03	473.3107	772.5924683	3.40901	14.88981	3.4808054	3.415917397	0.008313896	6.427574158	154.2618	7.955585957	7.809639931	0.0312132	24.1174965	578.8198853	24	18542.21924
	04	452.5637	770.8447876	3.390668	14.92215	3.33170652	3.286179543	0.007998128	6.170413971	141.9195	7.893374443	7.790288925	0.031135874	24.0029964	552.0689087	24	18500.2749
	05	474.8626	775.1260986	3.400679	14.90451	3.61944294	3.560501337	0.0086658	6.721105099	161.3065	7.933327675	7.807003498	0.031202676	24.1883907	580.5214233	24	18603.02637
	06	477.1647	778.8839722	3.393492	14.91717	3.7575984	3.705011368	0.009017515	7.02758646	168.6621	7.96194458	7.85183239	0.031381864	24.4462585	586.7102051	24	18693.21533
	07	476.0939	777.1350098	3.373589	14.95227	3.786057	3.754181147	0.009137189	7.106198311	170.5488	7.958924294	7.894994259	0.031554349	24.5239334	588.5744019	24	18651.24023
	08	471.258	769.2425537	3.388915	14.92523	3.68112874	3.634667873	0.008846308	6.812661648	163.5039	7.730783463	7.634543419	0.030513387	23.4779243	563.4702148	24	18461.82129
	09	462.6979	755.269043	3.396609	14.91168	2.91975164	2.873977184	0.006994885	5.28846693	126.9232	7.640319347	7.527069092	0.030083843	22.7239132	545.3739014	24	18126.45703
	10	461.514	753.3363647	3.384908	14.9323	2.71402502	2.680762768	0.006524626	4.918912411	118.0539	7.7174263	7.631065845	0.030499505	22.9769287	551.4462891	24	18080.07275
	11	464.5605	758.3096924	3.374415	14.9508	2.63405538	2.610706568	0.006354115	4.821128368	115.7071	7.963217735	7.897240639	0.031563342	23.9358749	574.4609985	24	18199.43262
	12	467.0114	762.3096313	3.376513	14.9471	2.98223114	2.955938339	0.00719437	5.486847878	131.6844	7.921880722	7.850579262	0.031376842	23.9222755	574.1345825	24	18295.43115
	13	473.1678	772.3591309	3.41645	14.8767	3.50242949	3.429593325	0.008347184	6.449988842	154.7997	7.961627483	7.798791885	0.031169854	24.075655	577.8156738	24	18536.61914
	14	476.6375	778.0228882	3.393557	14.91705	3.63104701	3.579439878	0.008711888	6.781929016	162.7663	8.058449745	7.946516037	0.031760275	24.7119007	593.0855713	24	18672.54932
	15	473.9177	773.5834351	3.400743	14.90439	3.42627573	3.370277405	0.008202815	6.351100922	152.4264	8.028082848	7.90034771	0.031575751	24.4284172	586.2819824	24	18566.00244
	16	475.7967	776.6506958	3.406911	14.89352	3.253618	3.194989681	0.007776188	6.041528702	144.9967	8.244621277	8.098841667	0.032369081	25.1395454	603.3491211	24	18639.6167
	17	475.6838	776.4667969	3.412445	14.88375	3.12484217	3.062969208	0.007454869	5.790421486	138.9701	8.341282845	8.181241035	0.032698408	25.3892078	609.3410034	24	18635.20313
	18	478.4373	780.9602661	3.412889	14.88297	3.63899589	3.568181276	0.008684487	6.78288269	162.7892	8.075460434	7.918607712	0.031648729	24.7164879	593.1956787	24	18743.04639
	19	475.695	776.4848633	3.407356	14.89273	3.47921705	3.41659379	0.008315543	6.460156441	155.0438	7.92569685	7.78469944	0.031113537	24.1604004	579.8496094	24	18635.63672
	20	470.547	768.0811768	3.391395	14.92087	3.34916925	3.304579973	0.008042915	6.178995132	148.2959	7.902803421	7.798109055	0.031167122	23.9400959	574.5623169	24	18433.94824
	21	473.6538	773.1528931	3.380478	14.94013	3.63905048	3.602267027	0.008767446	6.783213139	162.7971	7.89511919	7.815562725	0.03123688	24.1527882	579.6669312	24	18555.66943
	22	476.6706	778.0767822	3.397501	14.91011	3.64313126	3.586628675	0.008729386	6.794783592	163.0748	8.053997993	7.934644222	0.031712811	24.6763878	592.2332764	24	18673.84277
	23	475.5909	776.3143311	3.373333	14.95271	4.19067335	4.155880451	0.010114876	7.855164051	188.5239	7.781655788	7.720146179	0.030855516	23.9549923	574.9197998	24	18631.54395
	24	292.4201	673.8164673	2.928966	13.58467	5.71513748	8.040664673	0.019569909	10.43806076	177.447	6.939507008	7.321393967	0.029261824	21.3423481	362.8199158	16.63889	11211.55762
	25	473.4317	772.7896729	3.364939	14.96752	4.21722364	4.191030025	0.010200419	7.890904903	189.3817	7.7117033	7.668316364	0.030648379	23.6891041	568.5385132	24	18546.95215
	26	471.846	770.2023315	3.358071	14.97962	4.74839067	4.730433941	0.011513262	8.871247292	212.9099	7.456056595	7.429785728	0.029695028	22.8771133	549.0507202	24	18484.85596
	27	470.2032	767.5206299	3.357563	14.98051	4.78336811	4.765408516	0.011598379	8.906515121	213.7564	7.489125252	7.465025425	0.02983588	22.901804	549.6433105	24	18420.49512
	28	473.5851	773.0408936	3.324367	15.03904	4.23105669	4.254811764	0.01035565	8.011004448	192.2641	8.03857708	8.09295845	0.032345563	25.0047379	600.1137085	24	18552.98145
	29	478.9015	781.7181396	3.374542	14.95058	3.92930341	3.894336224	0.009478302	7.422611713	178.1427	8.376736641	8.308582306	0.033207357	25.9580574	622.9934082	24	18761.23535
	30	464.8626	758.8029785	3.328945	15.03097	2.61243343	2.623643637	0.006385604	4.848803997	116.3713	8.255271912	8.297698021	0.033163864	25.1666336	603.9992065	24	18211.27148
May 04	01	475.2662	775.7852783	3.362459	14.97188	4.30927515	4.287582874	0.010435412	8.098700523	194.3688	7.72617197	7.688146114	0.030727621	23.8459873	572.3037109	24	18618.84668
	02	470.0028	767.1930542	3.360743	14.97492	4.23487091	4.214687347	0.010257998	7.876077175	189.0258	7.549221516	7.517016411	0.030043675	23.0560455	553.3450928	24	18412.6333
	03	466.5465	761.5518799	3.362396	14.972	4.0213542	4.000767708	0.009737343	7.420582771	178.094	7.55971384	7.524169922	0.030072263	22.9043884	549.7053223	24	18277.24512
	04	470.2091	767.5296021	3.356673	14.98209	4.6425066	4.626999378	0.011261508	8.647078514	207.5299	7.644294739	7.621518135	0.03046133	23.3858662	561.2608032	24	18420.71045
	05	474.8132	775.0452271	3.332206	15.02522	4.86957169	4.88782692	0.01189633	9.217904091	212.0118	7.793561459	7.826282978	0.031279735	24.2296867	557.2827759	24	18601.08545
	06	478.3381	780.7987671	3.358389	14.97906	5.01723433	4.998456478	0.012165596	9.504432678	228.1064	7.797555447	7.770841122	0.031058149	24.2534332	582.0823975	24	18739.17041
	07	478.3215	780.7720337	3.377404	14.94554	5.26604462	5.215049744	0.012692746	9.919569969	238.0697	7.688014984	7.617221832	0.030444149	23.7777576	570.6661987	24	18738.52881
	08	479.6291	782.9065552	3.376005	14.948	5.55142164	5.498487473	0.0133826	10.48358154	251.606	7.568776131	7.502411842	0.029985296	23.4787178	563.4891968	24	18789.75732
	09	476.8515	778.3726807	3.357372	14.98085	4.89656591	4.880075455	0.011877459	9.248403549	221.9617	7.708524704	7.682971001	0.030706938	23.9044838	573.7075806	24	18680.94434
	10	483.258	788.8303833	3.381028	14.93915	5.12152815	5.068267822	0.012335496	9.733706474	233.6089	8.048750877	7.966355801	0.031839576	25.1176052	602.8225098	24	18931.9292
	11	481.1622	785.4088135	3.369709	14.95909	4.81913853	4.783325195	0.011641984	9.148576736	219.5658	8.031739235	7.976624966	0.031880606	25.0386925	600.9285889	24	18849.81152
	12	481.6318	786.1755981	3.377913	14.94465	5.28560019	5.234845161	0.012740937	10.02052975	240.4927	7.869098663	7.795777321	0.031157816	24.4973469	587.9362793	24	18868.21436
	13	478.1181	780.4401245	3.378549	14.94353	5.32312012	5.270693302	0.012828175	10.02018833	240.4845	7.675773144	7.602574348	0.030385617	23.7206173	569.2947998	24	18730.56299
	14	474.8409	775.09021	3.373908	14.95171	5.10515356	5.061920166	0.012320054	9.555220604	229.3253	7.570366859	7.508393764	0.030009208	23.2644997	558.3480225	24	18602.16504
	15	474.2058	774.0542603	3.374288	14.95103	5.06095505	5.018253326	0.01221378	9.45865345	227.0077	7.541431427	7.479378223	0.029893246	23.1392632	555.3422852	24	18577.30225
	16	473.6453	773.1395874	3.374923	14.94992	4.77048874	4.72728157	0.011505583	8.905583382	213.734	7.623626232	7.559199333	0.030212259	23.3623409	560.696228	24	18555.3501
	17	478.4207	780.9334106	3.384208	14.93355	4.80006027	4.744268894	0.011546941	9.021734238	216.5216	7.821880341	7.73450613	0.030912921	24.1428967	579.4295044	24	18742.40186
	18	480.7337	784.7091064	3.358018	14.97971	5.327281	5.305752277	0.012913508	10.13649082	233.1393	7.675219536	7.648581505	0.030569499	23.9769478	551.4697876	24	18833.01855
	19	478.7749	781.5119019	3.367993	14.96213	5.03615332	5.002055168	0.012174342	9.521075249	228.5058	7.70518589	7.656594753	0.030601529	23.9177284	574.0255127	24	18756.28564
	20	477.5909	779.5791016	3.400807	14.90427	4.72962999	4.653092861	0.011325025	8.83460331	212.0305	7.666234016	7.544141293	0.030152075	23.5086956	564.2086792	24	18709.89844
	21	479.3297	782.4176636	3.395083	14.91436	4.89640474	4.824057579	0.011741133	9.193163872	220.6359	7.700097084	7.589936733	0.030335112	23.7356625	569.6558838	24	18778.02393
	22	476.4008	777.6372681	3.398708	14.90798	4.76890039	4.693361282	0.011423034	8.890948296	213.3828	7.552083492	7.435971737	0.029719755	23.1141205	554.7388916	24	18663.29443
	23	476.0026	776.9870605	3.392857	14.9183	4.4499774	4.387532234	0.010678684	8.301465034	199.2352	7.679113388	7.574320316	0.030272704	23.5227699	564.5465088	24	18647.68945
	24	479.0302	781.928894	3.409136	14.88958	4.58749819	4.501957417	0.010957175	8.572095871	205.7303	7.773868084	7.630969524	0.030499112	23.8517342	572.4415894	24	18766.29346
	25	477.9122	780.1036987	3.408375	14.89093	4.55363417	4.469810963	0.010878931	8.493941307	203.8546	7.69946146	7.559637547	0.030214014	23.5797081	565.9130249	24	18722.48877
	26	471.9891	770.4353027	3.370518	14.95768	4.45110464	4.418185711	0.010753285	8.28437233	182.2562	7.415268898	7.361035347	0.029420255	22.6617088	498.5575867	24	18490.44727
	27	467.2669	762.7266846	3.374861	14.95001	4.52501774	4.484764099	0.010915334	8.33122921	199.9495	7.199613094	7.139652729	0.028535433	21.7676659	522.4240112	24	18305.44043
	28	469.8815	766.9958496	3.394637	14.91516	4.54679823	4.480701923	0.010905457	8.368156433	200.8358	7.270044327	7.166893482	0.028644312	21.9711246	527.3070068	24	18407.90039
	29	368.3163	687.0949707	2.993343	13.38336	4.70594168	4.733882427	0.011521645	8.730012894	183.3303	7.822219849	8.335926056	0.033316646	23.6910801	497.5126953	20.16333	13867.86621
	30	474.2753	774.1663818	3.391077	14.92143	5.33568048	5.263922691	0.012811705	9.924726486	238.1934	7.428075314	7.330015182	0.029296272	22.6847458	544.4338989	24	18579.99316
	31	469.9179	767.0542603	3.38281	14.93601	5.00705814	4.951594353	0.012051533	9.249955177	221.9989	7.386580467	7.307107925	0.029204717	22.4041424	537.6994019	24	18409.30225
Jun 04	01	469.9208	767.0586548	3.390123	14.92312	4.90356064	4.83888483	0.011777217	9.038505554	216.9241	7.49675703	7.40049696	0.029577967	22.6890793	544.5379028	24	18409.40771

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	02	468.7393	765.1304321	3.380184	14.94063	4.88981104	4.838665009	0.011776696	9.012917519	207.2971	7.450762272	7.37613821	0.029480621	22.5465946	518.5717163	24	18363.13037	
	03	468.4395	764.6416016	3.396228	14.91236	4.97876024	4.903925896	0.011935513	9.132364273	219.1768	7.390873432	7.283002853	0.029108372	22.2600079	534.2401733	24	18351.39844	
	04	473.2776	772.5386353	3.376514	14.9471	5.61628771	5.56425333	0.013542667	10.46781826	251.2276	7.413765907	7.34752512	0.029366255	22.687912	544.5098877	24	18540.92725	
	05	473.1654	772.3547363	3.3692	14.96	5.26970148	5.232317448	0.012734779	9.839952469	236.1589	7.457488537	7.407691956	0.029606724	22.8664913	548.7957764	24	18536.51367	
	06	467.8819	763.7312622	3.382747	14.93611	5.0461688	4.98962307	0.0121441	9.281794548	222.7631	7.267659664	7.189714432	0.02873552	21.9500408	526.8010254	24	18329.55029	
	07	474.552	774.6193237	3.377468	14.94543	4.83360767	4.786724567	0.011650267	9.030738831	216.7377	7.724580288	7.653728008	0.03059007	23.697279	568.7346802	24	18590.86377	
	08	481.0824	785.2786255	3.362586	14.97165	5.04235315	5.013985157	0.012203388	9.591792107	230.203	8.008687019	7.969810486	0.03185337	25.0152798	600.3666992	24	18846.68701	
	09	483.2284	788.7811279	3.40087	14.90415	5.59116745	5.498639107	0.013382967	10.56107998	253.4659	7.904074669	7.779425144	0.031092454	24.5286083	588.6865845	24	18930.74707	
	10	477.8377	779.9827881	3.395529	14.91358	5.57733679	5.494332314	0.013372504	10.43655491	250.4773	7.55001688	7.440671444	0.029738538	23.1981716	556.7561035	24	18719.58691	
	11	475.0662	775.4580078	3.379884	14.94117	5.23106861	5.176383495	0.012598629	9.776097298	234.6263	7.500253201	7.426591396	0.029682275	23.0203037	552.4873047	24	18610.99219	
	12	474.9915	775.3369141	3.378931	14.94285	5.15857029	5.106143951	0.012427675	9.642274857	231.4146	7.498186588	7.426140785	0.02968045	23.0138206	552.3317261	24	18608.08594	
	13	470.7031	768.336731	3.392539	14.91886	5.53949833	5.459346771	0.013287329	10.22397041	245.3753	7.217103481	7.119008541	0.028452933	21.8687744	524.8505859	24	18440.08154	
	14	467.1432	762.5250244	3.389105	14.92489	5.42979908	5.357824802	0.013040254	9.954239845	238.9017	7.096751213	7.007200718	0.028006079	21.3589878	512.6157227	24	18300.60059	
	15	463.0856	755.9015503	3.386815	14.92895	5.35650682	5.288582802	0.012871725	9.735870361	233.6609	7.101043701	7.017118454	0.028045705	21.2024384	508.85849	24	18141.63721	
	16	465.4366	759.7401123	3.387084	14.92848	5.127707	5.073104382	0.012347275	9.372473717	215.5669	7.417416573	7.324169636	0.029272905	22.2446213	511.6263123	24	18233.7627	
	17	468.0437	763.9958496	3.398517	14.90831	6.0293293	5.933988571	0.014442546	11.03534603	264.8483	7.11757803	7.008475304	0.028011151	21.406229	513.7495117	24	18335.90039	
	18	469.3021	766.0496826	3.398453	14.90842	6.25111198	6.153312683	0.01497635	11.47535801	275.4086	7.064636707	6.956365585	0.027802879	21.3061409	511.3474121	24	18385.19238	
	19	468.9999	765.5563965	3.391458	14.92076	6.41470766	6.328364372	0.015402412	11.79080391	282.9793	6.948895931	6.856540203	0.027403908	20.9863167	503.6716003	24	18373.35352	
	20	469.7617	766.7985229	3.378612	14.94341	6.41025686	6.34446907	0.015441612	11.84831238	284.3595	7.117100716	7.050397873	0.028178709	21.6068382	518.5640869	24	18403.16455	
	21	468.2802	764.3815308	3.373017	14.95327	5.9487257	5.899495602	0.014358596	10.9812603	263.5502	7.19786644	7.141283512	0.028541958	21.8188076	523.6513672	24	18345.15674	
	22	468.3164	764.4399414	3.409201	14.88949	5.23663235	5.156793118	0.012550954	9.591794968	230.2031	7.634119034	7.486275196	0.0299208	22.8820496	549.1691895	24	18346.55859	
	23	466.8109	761.9822998	3.392115	14.91962	6.77417231	6.680537701	0.016259549	12.39550018	297.492	6.935859203	6.842188358	0.027346533	20.8398628	500.1567078	24	18287.5752	
	24	470.7779	768.4578247	3.39076	14.92198	7.0660677	6.969614029	0.01696313	13.04660797	313.1186	7.026162624	6.934257984	0.027714521	21.299305	511.1832886	24	18442.98779	
	25	472.0935	770.605835	3.386117	14.93017	6.82202673	6.739020824	0.016401896	12.64731693	303.5356	7.099772453	7.016575336	0.028043533	21.6114044	518.6737061	24	18494.54004	
	26	320.802	661.4535522	2.927994	13.53785	8.82052994	13.90224838	0.033836305	16.17041969	307.238	6.476527691	6.964008331	0.027833415	19.5499001	371.4481201	18.13056	11992.52074	
	27	472.453	771.1932373	3.393746	14.91672	5.34013081	5.263626575	0.012810979	9.885714531	237.2571	7.469728947	7.3659935	0.029440066	22.7071285	544.9711304	24	18508.6377	
	28	470.4806	767.9734497	3.40316	14.90012	5.3326602	5.241466522	0.01275705	9.806056023	235.3454	7.368455887	7.245737076	0.028959429	22.2442589	533.8621826	24	18431.36279	
	29	472.1954	770.7717896	3.416896	14.8759	5.17303896	5.062971115	0.012322609	9.514871597	228.3569	7.412495613	7.259923935	0.029016133	22.3698044	536.8753052	24	18498.52295	
	30	472.8434	771.8301392	3.402714	14.90091	5.3555522	5.264127731	0.0128122	9.895745277	237.4979	7.34397316	7.222025871	0.028864663	22.2838535	534.8125	24	18523.92334	
Jul 04	1	472.1045	770.6237183	3.411618	14.88521	5.76064634	5.646199703	0.013742113	10.60092926	254.4223	7.21567297	7.078323364	0.028290316	21.8056545	523.3356934	24	18494.96924	
	2	472.6516	771.5162354	3.448693	14.81985	4.1928997	4.085958958	0.009944692	7.670276642	184.0866	7.976572514	7.732043743	0.030903084	23.8491383	572.3792725	24	18516.38965	
	3	464.55	758.2918091	3.406022	14.89508	5.74617815	5.642165184	0.013732295	10.41936684	250.0648	6.911057949	6.790815353	0.027141228	20.5824623	493.9790955	24	18199.00342	
	4	467.0001	762.2918701	3.401507	14.90305	5.59084988	5.495571136	0.013375509	10.20673084	244.9615	7.098342419	6.983620644	0.027911812	21.2804127	510.7298889	24	18295.00488	
	5	464.0276	757.4395752	3.406211	14.89476	5.89625931	5.789606571	0.014091146	10.67883492	256.292	6.865427971	6.744823456	0.0269574	20.4238758	490.1730042	24	18178.5498	
	6	466.877	762.0900269	3.426817	14.85844	5.15491486	5.050357342	0.012291912	9.355893135	224.5414	7.494530201	7.310319901	0.029217562	22.2807407	534.737793	24	18290.16064	
	7	467.6812	763.4039307	3.404137	14.8984	4.90706396	4.83479023	0.011767248	8.968523026	206.276	7.682187557	7.545438766	0.030157261	23.0386181	529.8881836	24	18321.69434	
	8	467.9948	763.9152222	3.387515	14.9277	5.65825987	5.586308479	0.013596342	10.39075661	249.3782	7.252397537	7.165066242	0.028637009	21.8802338	525.1256104	24	18333.96533	
	9	471.4398	769.5385132	3.430187	14.85249	4.9646101	4.857079029	0.011821488	9.091507912	218.1962	7.727602959	7.532644749	0.030106133	23.1775455	556.2611084	24	18468.92432	
	10	343.2528	640.3395386	2.83207	12.67245	5.64004517	7.668300629	0.018663634	10.03835297	210.8054	6.477120876	6.849040985	0.027373925	19.3972054	407.3413086	19.43611	12445.71064	
	11	465.269	759.4665527	3.398263	14.90876	6.83458567	6.726261139	0.016370846	12.44050407	298.5721	6.921869755	6.816386223	0.02724343	20.6928749	496.6289978	24	18227.19727	
	12	467.3129	762.8029785	3.418041	14.87389	5.66350555	5.562764645	0.01353904	10.32130814	247.7114	7.618537903	7.451593876	0.029782187	22.7263584	545.4326172	24	18307.27148	
	13	467.129	762.5025024	3.398389	14.90855	6.97862482	6.867759228	0.016715238	12.7543745	306.105	7.056369305	6.94851017	0.027771484	21.1792297	508.3015137	24	18300.06006	
	14	467.3844	762.9194946	3.385797	14.93074	7.47407484	7.384532452	0.017972983	13.71881294	329.2515	6.954566479	6.873100758	0.027470104	20.9613838	503.0732117	24	18310.06787	
	15	467.2552	762.7088623	3.393366	14.91738	6.99134588	6.890460014	0.016770488	12.80422497	307.3014	7.012331009	6.91566515	0.027640212	21.0813046	505.9512939	24	18305.0127	
	16	464.7886	758.6818237	3.40513	14.89665	6.30469084	6.19220829	0.015071029	11.44222546	274.6134	7.025526524	6.904578686	0.0275959	20.9370632	502.489502	24	18208.36377	
	17	461.9419	754.0360107	3.409075	14.8897	6.65286636	6.528158188	0.015888683	11.98671627	287.6812	6.817574501	6.693091869	0.026750641	20.1720467	484.1290894	24	18096.86426	
	18	461.6737	753.5966187	3.409265	14.88936	7.01948547	6.886227608	0.01676018	12.6409626	303.3831	6.75382185	6.629395485	0.026496058	19.9678173	479.2276001	24	18086.31885	
	19	465.937	760.5562744	3.430886	14.85124	5.67002487	5.55436945	0.013518616	10.24110985	245.7866	7.52950716	7.333595753	0.029310578	22.3247128	535.7930908	24	18253.35059	
	20	465.1898	759.3365479	3.436483	14.84138	5.78481102	5.657803059	0.013770351	10.4379425	250.5106	7.465436459	7.261325359	0.029021725	22.0515995	529.2384033	24	18224.07715	
	21	465.374	759.6370239	3.44174	14.83211	4.74658823	4.640313148	0.011293916	8.53618145	204.8683	7.889501572	7.661979198	0.030623045	23.2894592	558.9470215	24	18231.28857	
	22	466.1266	760.8657837	3.450156	14.81727	4.29337645	4.200056553	0.010222389	7.744015217	185.8564	8.107098579	7.850958347	0.031378347	23.8966465	573.5195313	24	18260.77881	
	23	464.0905	757.5428467	3.441824	14.83196	5.01612091	4.898633957	0.011922631	8.996248245	215.91	7.802960873	7.577221394	0.030284287	22.9708328	551.2999878	24	18181.02832	
	24	457.7337	747.1658325	3.414224	14.88062	7.62140083	7.465401173	0.0181698	13.58517933	326.0443	6.560814381	6.430836201	0.025702471	19.2054996	460.9320068	24	17931.97998	
	25	457.398	746.6188965	3.403286	14.89991	8.21965981	8.076558113	0.019657284	14.69206715	352.6096	6.439351082	6.331713676	0.025306309	18.8963699	453.5129089	24	17918.85352	
	26	462.2774	754.5831909	3.413463	14.88196	6.21597862	6.116802692	0.014887499	11.21122932	269.0695	7.289599419	7.137909412	0.028528474	21.5450535	517.0812988	24	18109.99658	
	27	467.7228	763.4711304	3.413843	14.8813	5.83791208	5.745635986	0.013984143	10.66001511	255.8404	7.673389435	7.513144493	0.030028187	22.9401379	550.5632935	24	18323.30713	
	28	465.2552	759.4440918	3.391267	14.9211	7.32176733	7.220680237	0.0175742	13.35544205	320.5306	7.038722992	6.946159363	0.027762104	21.0934048	506.2416992	24	18226.6582	
	29	463.6454	756.8164673	3.393748	14.91672	7.47895384	7.368484974	0.017933933	13.58779621	326.1071	6.918052673	6.822079182	0.027266175	20.6396999	495.3528137	24	18163.59521	
	30	450.7526	735.7711182	3.338676	14.57841	4.58718061	4.827353001	0.011749137	8.242882729	197.8292	7.703754425	7.543251038	0.030148517	22.6937351	544.6496582	24	17658.50684	
	31	182.316	649.2542725	2.96842	13.29157	8.49914265	16.1603775	0.039332256	14.71759415	161.8935	6.056097507	6.133930683	0.024515819	17.7095814	194.8054047	10.84167	7038.998734	
Aug 04	1	465.6787	760.1347046	3.421665	14.8675	5.31230974	5.19268322	0.012638316	9.61538887	230.7693	7.267341614	7.108267784	0.028409995	21.6023788	518.4570923	24	18243.23291	
	2	470.6735	768.2874146	3.425163	14.86134	5.56843328	5.437105179	0.013233204	10.17309856	244.1544	7.394689083	7.225873947	0.028880041	22.2024078	532.8577881	24	18438.89795	
	3	468.151	764.1706543	3.422047	14.86683	5.74681377	5.615498543	0.013667392	10.45669174	250.9606	7.239838123	7.079956055	0.028296834	21.6275635	519.0615234	24	18340.0957	

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	4	470.0085	767.2020874	3.393619	14.91695	4.30073404	4.255059719	0.010356254	7.932216644	174.5088	8.088438988	7.970388412	0.03185568	24.4666538	538.2664185	24	18412.8501
	5	471.0548	768.9108887	3.39909	14.9073	5.16842794	5.101054192	0.012415316	9.537356377	228.8965	7.718539715	7.591458797	0.030341191	23.3458424	560.3002319	24	18453.86133
	6	472.0993	770.6148071	3.387642	14.92749	6.36860228	6.286416054	0.015300317	11.80165386	283.2397	7.27004528	7.181571484	0.028702967	22.1208992	530.9016113	24	18494.75537
	7	469.4343	766.2648926	3.389042	14.92502	6.42615461	6.340190887	0.015431183	11.84107876	284.1859	7.145081997	7.055237293	0.028198063	21.6117496	518.6820068	24	18390.35742
	8	465.0024	759.0316162	3.390059	14.92322	6.08751774	6.005410671	0.014616392	11.10800076	266.592	7.012172699	6.922040462	0.027665688	21.0060501	504.1452026	24	18216.75879
	9	463.3076	756.2647705	3.392095	14.91964	6.4078722	6.318503857	0.015378404	11.63813782	279.3153	6.837130547	6.744960308	0.02695795	20.3904133	489.3699036	24	18150.35449
	10	467.7856	763.5742798	3.427134	14.85786	4.7218399	4.633567333	0.0112775	8.576907158	205.8458	7.81281805	7.617694378	0.030446054	23.2803211	558.7277222	24	18325.78271
	11	465.7887	760.3141479	3.44831	14.82054	4.42422152	4.319832325	0.01051391	7.980902672	191.5417	7.974664688	7.728168011	0.030887587	23.4967079	563.9210205	24	18247.53955
	12	468.5771	764.8658447	3.458932	14.8018	4.03009892	3.928309202	0.009561001	7.290628433	174.9751	8.227926254	7.947983742	0.031766128	24.315733	583.5775757	24	18356.78027
	13	470.3051	767.6865845	3.445704	14.82512	4.44377661	4.336830616	0.010555276	8.1052351	194.5257	8.161789894	7.918334961	0.031647637	24.3025074	583.2601929	24	18424.47803
	14	462.7803	755.4036865	3.39184	14.9201	6.58513832	6.496204376	0.01581092	11.93972969	286.5535	6.951757431	6.858799934	0.027412934	20.7161541	497.1876831	24	18129.68848
	15	465.3626	759.6188965	3.39858	14.9082	7.08339643	6.970825195	0.016966095	12.89642525	309.5142	6.955890656	6.849823475	0.027377067	20.7982368	499.1576843	24	18230.85352
	16	467.4753	763.0675049	3.43292	14.84766	5.53600025	5.426446915	0.013207264	10.04843712	241.1625	7.663850307	7.459517002	0.029813863	22.771183	546.5084229	24	18313.62012
	17	463.8575	757.1616821	3.398835	14.90775	7.52251244	7.4041996	0.018020866	13.65256691	327.6616	6.881645679	6.774978638	0.02707793	20.505209	492.125	24	18171.88037
	18	463.775	757.0269775	3.391664	14.92039	6.03433418	5.975786209	0.014544283	10.98134232	252.5709	7.504680634	7.391042233	0.029540183	22.3889294	514.9453735	24	18168.64746
	19	463.5662	756.6863403	3.406911	14.89351	6.2512722	6.153036118	0.014975679	11.32612419	271.827	7.315517426	7.178962231	0.028692549	21.7258167	521.4196167	24	18160.47217
	20	465.7226	760.2064209	3.428533	14.85539	5.53743124	5.419186115	0.013189595	10.01760292	240.4225	7.588490963	7.400972366	0.029579867	22.4961491	539.9075928	24	18244.9541
	21	358.6759	669.1114502	3.028979	13.73522	5.22080994	5.318620682	0.01294483	9.375675201	196.8892	6.780370712	7.091396809	0.028342558	19.9757671	419.4911194	20.43333	13672.1767
	22	468.6674	765.0137329	3.402969	14.90047	6.11533928	6.012850761	0.014634487	11.19975376	268.7941	7.225687027	7.106582165	0.028403262	21.7323074	521.5753784	24	18360.32959
	23	467.3709	762.8971558	3.413906	14.88118	6.05397272	5.931591034	0.014436725	11.02371502	264.5692	7.174335957	7.032897949	0.028108776	21.447113	514.7307129	24	18309.53174
	24	471.2529	769.2335205	3.456515	14.80606	4.98019028	4.84526062	0.011792718	9.049498558	217.188	7.851293564	7.590891838	0.03033893	23.3583755	560.6010132	24	18461.60449
	25	467.0876	762.4353027	3.393805	14.91662	6.57612181	6.482715607	0.015778078	12.03030491	264.6667	7.011679649	6.914432049	0.027635282	21.0603905	463.3286133	24	18298.44727
	26	468.2419	764.3186646	3.396546	14.91179	6.4291749	6.331735134	0.015410609	11.78432083	282.8237	7.082283497	6.978535175	0.027891492	21.3219414	511.726593	24	18343.64795
	27	471.6018	769.8029785	3.43413	14.84552	4.89799547	4.789588928	0.011657228	8.961661339	215.0799	7.89946413	7.689489854	0.030734442	23.6727753	568.1466064	24	18475.27148
	28	464.1676	757.668396	3.39572	14.91326	6.28815603	6.194212914	0.015075913	11.43084526	274.3403	6.94142437	6.840544224	0.027339984	20.7182255	497.2373962	24	18184.0415
	29	462.8164	755.4620361	3.400234	14.90529	6.00262022	5.905226707	0.014372554	10.86491776	260.758	7.023619175	6.912645817	0.02762815	20.8750992	501.0024109	24	18131.08887
	30	464.5602	758.3096924	3.405259	14.89643	6.16176462	6.05280304	0.014731742	11.17721272	268.2531	7.055733681	6.933977604	0.027713409	21.0194588	504.4670105	24	18199.43262
	31	469.8511	766.9464722	3.446404	14.8239	4.31436348	4.212127686	0.010251774	7.837695599	188.1047	8.150182724	7.90362978	0.031588864	24.2469635	581.927124	24	18406.71533
Sep 04	1	469.0004	765.5563965	3.421745	14.86736	4.4094305	4.33175087	0.010542917	8.046084404	185.06	8.053796768	7.867703438	0.031445269	24.0874081	554.010376	24	18373.35352
	2	468.7968	765.2246094	3.419059	14.8721	4.49624157	4.430722237	0.010783796	8.22809124	197.4742	8.00646019	7.822739124	0.031265557	23.9458008	574.6992188	24	18365.39063
	3	473.3217	772.6103516	3.401696	14.9027	5.68608141	5.591526031	0.01360905	10.51975441	252.4741	7.614086151	7.490544319	0.029937858	23.1319218	555.1660767	24	18542.64844
	4	471.5934	769.7896118	3.395592	14.91348	5.75365067	5.66976881	0.013799471	10.62511253	255.0027	7.467027664	7.358653069	0.029410725	22.6429119	543.4299316	24	18474.95068
	5	470.1874	767.4936523	3.388213	14.92647	5.86891413	5.79458189	0.014103266	10.83334541	260.0003	7.446835518	7.354571342	0.029394416	22.5675659	541.621582	24	18419.84766
	6	467.3655	762.8881226	3.392475	14.91895	5.97320747	5.890667915	0.014337108	10.94757175	262.7417	7.284353733	7.185484409	0.028718613	21.918663	526.0479126	24	18309.31494
	7	468.8795	765.3591919	3.426499	14.85898	4.38701963	4.304978848	0.010477762	8.010057449	192.2414	8.138895988	7.938743591	0.031729203	24.2967663	583.1223755	24	18368.62061
	8	465.824	760.3725586	3.394639	14.91515	4.79068184	4.733924866	0.011521756	8.75406456	210.0975	7.836824894	7.719406605	0.030852567	23.4683952	563.2415161	24	18248.94141
	9	460.893	752.322937	3.382047	14.93735	6.12090492	6.053463936	0.014733346	11.08998775	266.1597	7.059390545	6.985701561	0.027920142	21.0075092	504.1802063	24	18055.75049
	10	462.1844	754.430481	3.397181	14.91067	5.98640442	5.894768238	0.014347091	10.82713699	259.8513	7.116942406	7.010739803	0.028020199	21.1430416	507.4330139	24	18106.33154
	11	463.0441	755.8343506	3.388915	14.92525	5.75873756	5.684696674	0.013835812	10.46290684	251.1098	7.191505909	7.101511955	0.028383	21.4537125	514.8890991	24	18140.02441
	12	462.4427	754.8521729	3.391458	14.92076	5.74442816	5.666897297	0.013792492	10.41521072	249.965	7.127594471	7.032988548	0.028109133	21.2252502	509.4060059	24	18116.45215
	13	469.5496	766.453186	3.403923	14.89879	5.55809879	5.46310854	0.013296496	10.19680882	244.7234	7.492782593	7.366164684	0.029440753	22.5703335	541.6879883	24	18394.87646
	14	468.2228	764.2872314	3.405639	14.89577	6.27686834	6.165708542	0.015006533	11.47430801	275.3834	7.234431267	7.109097481	0.028413316	21.7204494	521.2907715	24	18342.89355
	15	468.6788	765.0317383	3.403795	14.899	5.22359514	5.146933556	0.012526968	9.571861267	229.7247	7.724581242	7.588279724	0.030328488	23.2155628	557.1735229	24	18360.76172
	16	464.0054	757.4038086	3.386307	14.92985	5.78274393	5.713032246	0.013904767	10.53670311	252.8809	7.227279186	7.142410755	0.028546454	21.6230907	518.9542236	24	18177.69141
	17	463.7307	756.9553833	3.39521	14.91415	5.71040726	5.627090931	0.013695604	10.36920452	248.8609	7.227118492	7.123276234	0.028469987	21.557909	517.3897705	24	18166.9292
	18	473.4315	772.7897339	3.387897	14.92705	5.63472891	5.563508511	0.013540845	10.4690094	251.2562	7.608682156	7.51662302	0.030042088	23.2186909	557.2485962	24	18546.95361
	19	480.6208	784.5253906	3.393684	14.91683	6.12821817	6.039608479	0.014699621	11.53875828	276.9302	7.852245331	7.743338108	0.030948222	24.2799759	582.7194214	24	18828.60938
	20	482.3109	787.2833252	3.401634	14.90281	7.03379345	6.916718006	0.016834388	13.2616539	318.2797	7.622831821	7.499104023	0.029972075	23.5981159	566.3547974	24	18894.7998
	21	480.8597	784.9154663	3.382174	14.93713	7.30057144	7.219847679	0.017572176	13.80217457	331.2522	7.466231346	7.387357712	0.029525466	23.1778507	556.2683716	24	18837.97119
	22	476.3709	777.5880737	3.317761	15.0507	6.59528637	6.64442873	0.016171673	12.58261299	289.4001	7.481895447	7.546604156	0.030161927	23.4409828	539.1425781	24	18662.11377
	23	474.3603	774.305542	3.362523	14.97177	6.57989311	6.544328213	0.015928047	12.33769989	296.1048	7.446041584	7.413463593	0.029629787	22.9517288	550.8414917	24	18583.33301
	24	471.6156	769.8254395	3.381601	14.93813	6.76383781	6.690620899	0.016284104	12.54065418	300.9757	7.307565689	7.231397629	0.028902134	22.2558537	534.1405029	24	18475.81055
	25	468.6761	765.0272827	3.384526	14.93298	6.46653795	6.392220974	0.015557821	11.90706635	285.7696	7.23713398	7.155696392	0.028599558	21.8851871	525.2445068	24	18360.65479
	26	467.7093	763.4487305	3.383065	14.93556	6.44666338	6.376128674	0.015518666	11.84941673	284.386	7.197229862	7.119470596	0.028454771	21.728117	521.4747925	24	18322.76953
	27	468.9121	765.4128418	3.381537	14.93825	6.5293355	6.460060596	0.015722951	12.04139137	288.9934	7.311698914	7.23614502	0.028921092	22.1407585	531.3781738	24	18369.9082
	28	473.6016	773.067688	3.397118	14.91078	6.34936476	6.252351761	0.015217417	11.76900005	282.456	7.4431777	7.332518578	0.029306279	22.6575127	543.7802734	24	18553.62451
	29	473.6043	773.0722656	3.336717	15.01727	6.22793627	6.244022846	0.015197144	11.74765205	270.196	7.485434532	7.507218838	0.030004509	23.1849957	533.2548828	24	18553.73438
	30	473.6236	773.1036377	3.378168	14.9442	5.95937729	5.901831627	0.014364284	11.10777473	266.5866	7.55573988	7.487295151	0.029924888	23.1372757	555.2946167	24	18554.4873
Oct 04	1	419.0165	713.7052002	3.136314	13.78037	6.19359398	6.132515907	0.014925743	11.42478085	262.77	7.222154617	7.190468788	0.02873854	21.7542305	500.34729	22.75	16236.7933
	2															0	0
	3															0	0
	4	3.87638	37.83027649	0.171703	3.616033	13.7019196	68.587677	0.16693297	22.82471848	91.29887	1.564407468	5.743897438	0.022956925	3.57325506	14.29302025	3.425	129.5686952
	5	85.87906	672.87323	2.979142	14.25434	16.3815041	41.22777557	0.100342907	29.37841415	146.8921	7.960417747	9.176898003	0.036677819	23.9120007	119.5599976	4.605556	3098.955349

Unit 1 - CEMS Data

	6	468.6295	764.9509888	3.369115	14.96015	4.11913013	4.089877605	0.009954236	7.622273445	182.9346	8.274190903	8.217954636	0.032845147	25.131176	603.1481934	24	18358.82373
	7	468.5301	764.7895508	3.382174	14.93713	3.57444906	3.536836624	0.008608198	6.584770679	158.0345	8.270692825	8.183689117	0.032708205	25.0181293	600.4351196	24	18354.94922
	8	434.475	709.2011719	3.135556	14.06567	3.68494296	3.987145901	0.009704195	6.763364792	162.3208	7.866397381	7.86778307	0.031445611	23.8026848	571.2644653	24	17020.82813
	9	51.81037	405.7904053	1.766483	9.425636	15.8447857	57.91017532	0.140945792	30.31135368	151.5568	4.909186363	6.967073917	0.02784564	15.0302553	75.15127563	4.916667	1995.136288
	10	481.2748	785.5925903	3.39273	14.91852	3.78160667	3.729767561	0.009077769	7.132892609	171.1894	8.857505798	8.737049103	0.034919843	27.4338207	658.4116821	24	18854.22217
	11	478.3875	780.8795166	3.396101	14.91258	3.82357788	3.767520905	0.009169654	7.161997795	171.8879	8.789141655	8.660903931	0.034615505	27.0349083	648.8377686	24	18741.1084
	12	478.3844	780.8751831	3.395846	14.91302	4.10068846	4.040682316	0.009834489	7.681931496	184.3664	8.625547409	8.50014782	0.033972982	26.5319538	636.7669067	24	18741.00439
	13	475.3348	775.8973999	3.321377	15.04431	4.07779455	4.108458996	0.009999449	7.759800434	186.2352	8.574513435	8.639126778	0.034528464	26.7920246	643.008606	24	18621.5376
	14	474.7145	774.8839111	3.35006	14.99374	3.9975071	3.994215965	0.009721391	7.536277771	180.8707	8.691207886	8.682998657	0.034703806	26.8950787	645.4818726	24	18597.21387
	15	474.8656	775.1306152	3.373271	14.95283	3.8609395	3.830153227	0.009322096	7.229447365	173.5067	8.804086685	8.734539032	0.0349098	27.0679131	649.6298828	24	18603.13477
	16	476.9917	778.6015625	3.382427	14.93669	3.63152552	3.593011379	0.00874492	6.811538696	163.4769	8.888031006	8.794206619	0.035148289	27.3718662	656.9248047	24	18686.4375
	17	476.1538	777.2337036	3.403096	14.90025	3.73899865	3.676633358	0.008948444	6.955477715	166.9315	8.573082924	8.430721283	0.033695512	26.1893082	628.543396	24	18653.60889
	18	478.2468	780.6508789	3.401378	14.90327	3.77842712	3.717191219	0.00904716	7.063252449	169.5181	8.580872536	8.442521095	0.033742674	26.3415451	632.1970825	24	18735.62109
	19	478.0494	780.3280029	3.38955	14.92412	3.46522713	3.420655489	0.008325429	6.499171257	155.9801	8.8080616	8.69610405	0.034756199	27.1230965	650.9542847	24	18727.87207
	20	479.7499	783.1038208	3.378676	14.94329	3.3874824	3.355217457	0.008166162	6.397056103	153.5294	8.882677078	8.798275948	0.035164546	27.5389423	660.9345703	24	18794.4917
	21	487.1569	795.1936646	3.392603	14.91875	3.90847635	3.855291605	0.009383274	7.461946487	179.0867	8.940019608	8.818669319	0.035246059	28.0278416	672.6682129	24	19084.64795
	22	461.8074	753.8162231	3.214923	14.36116	3.9065671	3.940712929	0.009591184	7.446093082	178.7062	8.326019287	8.298187256	0.033165801	26.1167793	626.8026733	24	18091.58936
	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0
	24	438.1186	746.2220459	3.256225	14.70483	7.23459768	11.05585289	0.026908515	9.208866119	211.8039	8.707927704	8.818336487	0.035244726	26.5429897	610.4887695	22.28611	16630.38797
	25	479.1674	782.1531372	3.381155	14.93892	3.26856375	3.234948397	0.007873443	6.159181118	147.8203	8.788029671	8.698277473	0.034764871	27.1911125	652.5866699	24	18771.67529
	26	483.2332	788.789917	3.3706	14.95753	3.23756099	3.214226246	0.007823005	6.171608448	148.1186	9.14240551	9.077218056	0.036279403	28.6191044	686.8585205	24	18930.95801
	27	485.9863	793.2832642	3.382555	14.93645	3.18795872	3.153792381	0.007675918	6.090192795	146.1646	9.301548958	9.20252037	0.036780208	29.1788216	700.291687	24	19038.79834
	28	487.3487	795.5076904	3.390187	14.923	3.63279629	3.586002827	0.008727861	6.944255352	166.6621	8.9964571	8.880601883	0.035493579	28.2358665	677.6608276	24	19092.18457
	29	487.7032	796.0860596	3.368247	14.96168	3.67524505	3.651027918	0.008886124	7.075841427	169.8202	8.956393242	8.898564339	0.035565373	28.3147507	679.5540161	24	19106.06543
	30	486.0327	793.3595581	3.36176	14.97312	3.63661337	3.619657516	0.008809772	6.992127419	167.8111	8.901226044	8.861003876	0.035415269	28.0988674	674.3728027	24	19040.62939
	31	483.0933	788.5612793	3.380393	14.94026	3.45282555	3.417587042	0.008317961	6.560379982	157.4491	8.850351334	8.762412071	0.035021205	27.6170368	662.8088989	24	18925.4707
Nov 04	1	485.1099	791.8528442	3.377086	14.9461	3.63200212	3.598630428	0.008758595	6.937346458	166.4963	8.817601204	8.737785339	0.034922775	27.6549911	663.7197876	24	19004.46826
	2	483.7113	789.5703125	3.347325	14.99857	3.61546707	3.614141703	0.008796353	6.949336052	166.7841	8.869587898	8.867355347	0.035440642	27.9877834	671.7067871	24	18949.6875
	3	484.9394	791.5747681	3.328408	15.03191	3.33613181	3.353296757	0.008161489	6.463978767	142.2075	9.128718376	9.178783417	0.036685359	29.0316315	638.6959229	24	18997.79443
	4	485.7527	792.9022217	3.37079	14.9572	3.33660841	3.312849283	0.008063043	6.400101662	153.6024	9.258623123	9.193888664	0.03674572	29.1408081	699.3793945	24	19029.65332
	5	489.6949	799.3372803	3.394765	14.91493	3.72993588	3.675570965	0.008945855	7.156323433	171.7518	9.135887146	9.006058693	0.035995018	28.773138	690.5552979	24	19184.09473
	6	485.2994	792.1622314	3.38211	14.93725	3.46395493	3.427321672	0.008341654	6.610920429	158.6621	9.11522007	9.019200325	0.036047518	28.5591202	685.4188843	24	19011.89355
	7	481.0963	785.3010254	3.390886	14.92178	3.09511161	3.05461669	0.007434539	5.841436863	140.1945	9.152263641	9.033461571	0.036104526	28.355154	680.5236816	24	18847.22461
	8	483.9997	790.0411987	3.416195	14.87715	3.6132412	3.539607525	0.008614945	6.808184624	163.3964	8.88914299	8.708300591	0.03480494	27.4990425	659.9769897	24	18960.98877
	9	482.3791	787.3953247	3.405448	14.89609	3.71101761	3.645798683	0.008873397	6.988888741	167.7333	8.637788773	8.488354683	0.033925857	26.7131615	641.1159058	24	18897.48779
	10	480.7307	784.7047729	3.374415	14.9508	3.62834501	3.597767115	0.008756494	6.872670174	164.9441	8.601699829	8.530228615	0.034093235	26.7541332	642.0991821	24	18832.91455
	11	484.6019	791.0232544	3.383318	14.93511	3.7337513	3.693281174	0.008988964	7.11217308	170.6922	8.669586182	8.575703621	0.034274984	27.1131668	650.7160034	24	18984.55811
	12	484.3188	790.5612793	3.398771	14.90786	3.828825	3.769529581	0.00917454	7.25398159	174.0956	8.692637444	8.559193611	0.034209002	27.0446339	649.071228	24	18973.4707
	13	483.0327	788.4625854	3.409073	14.8897	3.71038127	3.641974926	0.008864094	6.990176678	167.7642	8.592161179	8.434561729	0.033710871	26.5797215	637.9133301	24	18923.10205
	14	483.2337	788.7901001	3.406148	14.89486	3.83995342	3.772007465	0.009180578	7.244693756	173.8727	8.572286606	8.422215462	0.033661526	26.5536079	637.2866211	24	18930.9624
	15	483.1893	788.7182617	3.387769	14.92726	3.91658401	3.868312597	0.009414967	7.429721832	178.3133	8.614577293	8.509746552	0.034011357	26.8300037	643.920105	24	18929.23828
	16	485.305	792.1712036	3.411364	14.88568	4.17477465	4.095172882	0.009967122	7.898009777	189.5522	8.631587982	8.467639923	0.03384307	26.8127632	643.5062866	24	19012.10889
	17	488.981	798.1712646	3.33904	15.01317	4.20333052	4.209799767	0.010246104	8.177508354	188.0827	8.754379272	8.776002884	0.035075534	27.9856529	643.6699829	24	19156.11035
	18	488.3623	797.1622925	3.357307	14.98097	4.22835255	4.215095043	0.010258982	8.179121017	196.2989	8.749872208	8.723434448	0.034865417	27.7935543	667.0452881	24	19131.89502
	19	489.283	798.6646729	3.375941	14.94811	4.05410576	4.01864624	0.00978086	7.812391281	187.4974	8.989938736	8.911849022	0.035618465	28.4468918	682.7254028	24	19167.95215
	20	487.9364	796.4672241	3.379312	14.94217	3.54932952	3.514997482	0.008555046	6.814797401	163.5551	9.211086273	9.121876717	0.0364579	29.037096	696.8903198	24	19115.21338
	21	489.6457	799.2564697	3.390822	14.92188	3.35870719	3.314492464	0.008067042	6.449000359	154.776	9.442568779	9.319775581	0.03724885	29.7713509	714.5123901	24	19182.15527
	22	487.7993	796.243103	3.384971	14.93219	3.27810168	3.240499496	0.007886955	6.281428814	150.7543	9.411249161	9.304363251	0.037187245	29.611208	710.6690063	24	19109.83447
	23	488.6952	797.7050171	3.343752	15.00487	3.35990906	3.363951683	0.008187422	6.535272121	150.3113	9.382465363	9.390367508	0.037530985	29.9542484	688.9476929	24	19144.92041
	24	488.8629	797.9785767	3.351967	14.99039	3.74837828	3.743772507	0.009111854	7.281762123	174.7623	9.177700043	9.164564133	0.036628507	29.2355042	701.6520996	24	19151.48584
	25	486.0657	793.4133301	3.360297	14.9757	3.57254076	3.557339907	0.008658101	6.872857094	164.9486	9.09693718	9.059524536	0.036208693	28.7311783	689.5482788	24	19041.91992
	26	487.0273	794.9829712	3.374033	14.95149	3.75934958	3.728542566	0.009074787	7.217987061	173.2317	8.962594032	8.889793396	0.035530306	28.2504883	678.0117188	24	19079.59131
	27	484.2668	790.4762573	3.373462	14.95249	3.4116497	3.384014606	0.00823625	6.515498638	156.372	9.070545197	8.99767971	0.035961524	28.4322796	682.3746948	24	18971.43018
	28	495.6624	809.0773926	3.383127	14.93546	3.90815783	3.864962816	0.009406818	7.615795612	182.7791	9.409499168	9.30783844	0.037201144	30.09832	722.3596802	24	19417.85742
	29	498.5356	813.7679443	3.369072	14.96023	4.32565117	4.294898987	0.01045323	8.516444206	204.3947	9.288830757	9.226860046	0.036877494	30.0096416	720.2313843	24	19530.43066
	30	499.9392	816.0595703	3.354575	14.98579	4.35808372	4.34676981	0.010579467	8.641339302	207.3921	9.377066612	9.354500771	0.037387647	30.5125751	732.3018188	24	19585.42969
Dec 04	1	498.8217	814.234375	3.360425	14.97548	4.17763615	4.159834385	0.010124493	8.252691269	198.0646	9.493602753	9.454416275	0.037786976	30.7679539	738.4309082	24	19541.625
	2	495.6678	809.0864258	3.375813	14.94835	3.99718952	3.96235919	0.009643864	7.812188625	187.4925	9.458307266	9.376432419	0.037475295	30.3243008	727.7832031	24	19418.07422
	3	493.0607	804.8307495	3.374924	14.94991	3.80147862	3.768173695	0.009171249	7.393170357	177.4361	9.473887444	9.393948555	0.037545308	30.2215786	725.3178711	24	19315.93799
	4	487.6074	795.9291382	3.378739	14.94319	3.17778206	3.147482395	0.007660559	6.117034435	146.8088	9.784227371	9.691140175	0.038733099	30.8298664	739.9168091	24	19102.29932
	5	379.9288	708.7584839	3.055991	13.77053	4.16630077	6.126197338	0.014910378	7.946986198	166.8867	8.729977608	8.952116013	0.035779394	27.0680752	568.4295654	20.68056	14657.51905
	6	488.8735	797.9963989	3.409264	14.88937	3.32070923	3.259455442	0.007933088	6.332480431	151.9795	9.395191193	9.222193718	0.036858838	29.4136581	705.9277954	24	19151.91357
	7	486.4869	794.0995483	3.396419	14.91201	3.64217663	3.588149548	0.008733085	6.935685158	166.4564	9.007905006	8.875867844	0.035474665	28.171545	676.1171265	24	19058.38916

Unit 1 - CEMS Data

	8	486.286	793.7722168	3.400043	14.90562	4.20196104	4.13557148	0.010065437	7.990294456	191.7671	8.615000725	8.479078293	0.033888787	26.9011288	645.6270752	24	19050.5332
	9	485.0439	791.7451172	3.403415	14.89968	4.55919886	4.482851028	0.010910664	8.639252663	207.3421	8.335400581	8.196369171	0.032758866	25.9388752	622.53302	24	19001.88281
	10	356.4286	698.1651001	2.991987	13.53505	6.77101898	13.20516968	0.03213967	12.98488235	259.6976	7.620193005	7.91804409	0.031646475	23.7610207	475.2203979	19.68611	13744.15597
	11	487.8569	796.3372192	3.411744	14.885	4.24695301	4.165827751	0.010139081	8.075544357	193.8131	8.758617401	8.591479301	0.034338035	27.3459873	656.3037109	24	19112.09326
	12	485.3576	792.2564697	3.423128	14.86493	4.19957733	4.105345249	0.009991875	7.921292305	190.111	8.71028614	8.515872002	0.034035843	26.9707336	647.2976074	24	19014.15527
	13	492.0023	803.1040649	3.434384	14.84507	4.84473562	4.720706463	0.011489588	9.228276253	221.4786	8.564019203	8.345023155	0.033353012	26.7863121	642.871521	24	19274.49756
	14	493.0412	804.7992554	3.406339	14.89453	4.92120647	4.834409237	0.011766313	9.469562531	227.2695	8.564973831	8.415137291	0.033633236	27.0680752	649.6337891	24	19315.18213
	15	492.5498	803.996521	3.381453	14.9384	4.59163237	4.54389286	0.011059241	8.895453453	213.4909	8.802550316	8.711993217	0.034819711	27.9963093	671.911377	24	19295.9165
	16	491.8624	802.8756104	3.40157	14.90293	4.7223177	4.646926403	0.011310013	9.093080521	218.2339	8.731113434	8.5906353	0.034334663	27.5774326	661.8583984	24	19269.01465
	17	496.8677	811.0461426	3.41238	14.88387	5.31087828	5.207746983	0.012674987	10.29161549	246.9988	8.849079132	8.678468704	0.034685709	28.1349506	675.2388306	24	19465.10742
	18	499.3461	815.0909424	3.410028	14.88801	5.37892437	5.277916908	0.012845767	10.48514938	251.6436	8.999160767	8.831632614	0.035297859	28.7736549	690.567688	24	19562.18262
	19	501.4532	818.5304565	3.415178	14.87894	5.29227734	5.185032368	0.012619685	10.34653664	248.3169	9.232233047	9.046717644	0.036157507	29.5967255	710.3214111	24	19644.73096
	20	497.514	812.0997925	3.406083	14.89498	4.53090143	4.450670242	0.010832356	8.814421654	211.5461	9.406160355	9.241867065	0.036937471	29.9991627	719.9799194	24	19490.39502
	21	488.6318	797.6018677	3.431459	14.85023	6.30103397	6.144645214	0.014955258	11.85512638	284.523	9.123644829	8.89817524	0.035563827	28.3931789	681.4362793	24	19142.44482
	22	478.091	780.3951416	3.384463	14.9331	7.09637594	6.997844219	0.017031843	13.23243332	291.1135	8.773864746	8.678458214	0.034685664	27.0724449	595.593811	24	18729.4834
	23	475.9311	776.8704834	3.407293	14.89285	7.68419695	7.549993992	0.018375704	14.19056797	340.5736	8.678010941	8.523675919	0.034067046	26.4848003	635.6351929	24	18644.8916
	24	473.6291	773.1126099	3.412445	14.88376	8.2943821	8.116282463	0.019753976	15.13808632	363.3141	8.591524124	8.427126884	0.033681158	26.0620575	625.4893799	24	18554.70264
	25	476.4481	777.713501	3.394193	14.91594	7.21551323	7.094124317	0.017266164	13.31674004	319.6017	8.805357933	8.68351841	0.034705877	27.0121288	648.2910767	24	18665.12402
	26	479.7419	783.0904541	3.376069	14.94789	4.20068884	4.167303085	0.010142673	7.922281265	190.1348	9.187398911	9.10667038	0.036397122	28.5069008	684.1655884	24	18794.1709
	27	477.1236	778.8166504	3.38885	14.92535	3.08366466	3.045113325	0.007411409	5.773593426	138.5662	9.149718285	9.03556633	0.036112938	28.1252289	675.0054932	24	18691.59961
	28	479.0685	781.9916992	3.402333	14.90158	3.1703105	3.117794991	0.007588306	5.935915947	142.462	9.137796402	8.987989426	0.035922792	28.09202	674.2084961	24	18767.80078
	29	483.9671	789.9872437	3.38743	14.92786	3.44832206	3.406528711	0.008291046	6.551534653	157.2368	9.155229568	9.044237137	0.036147602	28.5566921	685.3605957	24	18959.69385
	30	483.1292	788.6195679	3.365702	14.96617	3.56522822	3.544417143	0.008626648	6.80436945	163.3049	9.032071114	8.980448723	0.035892643	28.3095417	679.4290161	24	18926.86963
	31	484.1071	790.2160645	3.37664	14.94689	3.57540417	3.542125702	0.008621071	6.815948009	163.5827	9.033978462	8.953911781	0.03578658	28.2782173	678.6771851	24	18965.18555
Jan 05	1	489.272	798.6467285	3.378421	14.94375	4.01499605	3.975404263	0.009675619	7.734079361	185.6179	9.079447746	8.993877411	0.035946313	28.7082748	688.9985962	24	19167.52148
	2	485.3185	792.1937256	3.36106	14.97435	3.81356168	3.795644522	0.009238096	7.323276043	175.7586	9.053533554	9.014652252	0.036029346	28.54072	684.9772949	24	19012.64941
	3	487.1866	795.242981	3.371999	14.95507	3.64185905	3.6138134	0.008795551	6.997059822	167.9294	9.227621078	9.158088684	0.03660262	29.1075668	698.581604	24	19085.83154
	4	491.1786	801.758728	3.395401	14.91381	3.90434241	3.847640753	0.009364655	7.509458065	180.227	9.279131889	9.146204948	0.036555126	29.3083496	703.4003906	24	19242.20947
	5	490.6397	800.8800049	3.382427	14.93668	4.33201075	4.284715176	0.010428433	8.356801033	200.5632	8.970701218	8.875824928	0.03547449	28.4107914	681.8590088	24	19221.12012
	6	483.5799	789.3549805	3.379628	14.94161	5.27399349	5.215074539	0.012692816	9.951431274	238.8344	8.926505089	8.840561867	0.035333551	27.9116173	669.8787842	24	18944.51953
	7	479.6098	782.8751221	3.392921	14.91817	3.15075541	3.107508659	0.007563271	5.923830032	142.1719	9.26227951	9.13944912	0.036528133	28.602066	686.449585	24	18789.00293
	8	479.6154	782.8841553	3.415241	14.87883	3.48732591	3.416604519	0.008315567	6.511169434	156.2681	8.835883141	8.658306122	0.034605131	27.0931454	650.2354736	24	18789.21973
	9	477.3242	779.144104	3.414732	14.87972	3.92008114	3.841295719	0.009349212	7.286993504	174.8878	8.375145912	8.207660675	0.032803994	25.5619087	613.4857788	24	18699.4585
	10	476.3734	777.5924683	3.404877	14.8971	3.86618757	3.799074173	0.009246451	7.192699432	172.6248	8.412348747	8.268299103	0.033046365	25.6977501	616.7459717	24	18662.21924
	11	487.602	795.9202271	3.3968	14.91133	3.76618624	3.709568024	0.009028603	7.189842701	172.5562	9.114583969	8.979837418	0.035890203	28.5669117	685.605896	24	19102.08545
	12	494.5304	807.2298584	3.383997	14.93392	4.66169167	4.610805035	0.0112221	9.060166359	217.444	8.88945961	8.791575432	0.03513778	28.3646965	680.7526855	24	19373.5166
	13	496.1074	809.803894	3.384908	14.9323	5.00864935	4.951405525	0.012051063	9.760515213	234.2524	8.872131348	8.771762848	0.035058588	28.3905258	681.3726196	24	19435.29346
	14	493.5191	805.5794678	3.395782	14.91314	4.89465714	4.823474407	0.011739704	9.458609581	227.0066	8.862911224	8.73440361	0.034909267	28.1221676	674.9320068	24	19333.90723
	15	490.6287	800.8620605	3.410156	14.88779	4.70959854	4.622420788	0.011250373	9.016742706	216.4018	8.815215111	8.65059185	0.034574285	27.6895409	664.5490112	24	19220.68945
	16	494.3353	806.911438	3.40723	14.89295	5.21548605	5.122737408	0.012468067	10.06111813	241.4668	8.849079132	8.691411018	0.034737431	28.0301342	672.7232056	24	19365.87451
	17	493.7113	805.8934326	3.398328	14.90864	5.12216234	5.044051647	0.012276558	9.894327164	237.4639	8.891051292	8.755513191	0.034993641	28.2014294	676.8342896	24	19341.44238
	18	491.2303	801.8440552	3.397626	14.90988	4.93949032	4.865032673	0.01184085	9.496653557	227.9197	8.856233597	8.723007202	0.034863707	27.955595	670.9343262	24	19244.25732
	19	491.3352	832.9638672	3.368035	14.9088	4.97987223	4.903757572	0.012055321	10.04237461	241.017	8.757079124	8.623825073	0.034815922	29.0018501	696.0444336	24	19991.13281
	20	491.2202	848.3104248	3.390695	14.84129	4.80260563	4.678211212	0.011559679	9.809441566	235.4266	8.872290611	8.640392303	0.03505978	29.7420673	713.8095703	24	20359.4502
	21	489.5827	845.4827271	3.411618	14.80391	4.56126642	4.41437912	0.010907752	9.225071907	221.4017	8.892958641	8.60694313	0.034924053	29.5286999	708.6887817	24	20291.58545
	22	490.0631	846.3130493	3.410981	14.80503	4.68908834	4.538687229	0.011214903	9.493372917	227.841	8.80265522	8.521105766	0.03457576	29.2621174	702.2908325	24	20311.51318
	23	489.1761	844.7805176	3.410664	14.80562	4.6855917	4.535954952	0.011208159	9.473105431	227.3545	8.778648376	8.498585701	0.034484383	29.1340084	699.2161865	24	20274.73242
	24	484.3348	836.4211426	3.40812	14.81015	4.53964424	4.397765636	0.010866695	9.094410896	218.2659	8.731271744	8.459051132	0.034323949	28.7116547	689.0797119	24	20074.10742
	25	475.2666	820.7598267	3.396673	14.83062	4.20927429	4.089137554	0.010104089	8.302818298	199.2676	8.472285271	8.235419273	0.033416547	27.4312077	658.348999	24	19698.23584
	26	476.9366	823.6444092	3.378866	14.86242	3.80259252	3.715727568	0.009181408	7.563417435	181.522	8.551142693	8.356262207	0.033906873	27.928875	670.2929688	24	19767.46582
	27	482.3352	832.9672241	3.383637	14.8539	4.14186478	4.041546822	0.009986497	8.319566727	199.6696	8.661795616	8.452543259	0.034297548	28.5698242	685.6757813	24	19991.21338
	28	485.1707	837.8634033	3.391648	14.83958	4.25013304	4.136224747	0.010220443	8.569488525	205.6677	8.743671417	8.51265049	0.034541436	28.9410915	694.5861816	24	20108.72168
	29	492.0685	849.7763062	3.383254	14.85458	4.82645178	4.709913254	0.011638016	9.891142845	237.3874	8.783100128	8.571998596	0.034782249	29.5571175	709.3707886	24	20394.63135
	30	487.7307	842.2851563	3.368945	14.88015	4.45617676	4.366811275	0.01079021	9.093886375	218.2533	8.770540237	8.595945358	0.03487942	29.3789425	705.0946045	24	20214.84375
	31	485.64	838.6745605	3.37963	14.86105	4.07000351	3.976252556	0.009825153	8.245369911	197.8889	8.863069534	8.659218788	0.035136148	29.4707241	707.2974243	24	20128.18945
Feb 05	01	487.3134	841.5640259	3.376642	14.86639	4.6903615	4.5866189	0.011333344	9.543434143	229.0424	8.733019829	8.539858818	0.034651849	29.1648865	699.9572754	24	20197.53662
	02	485.0656	837.6831055	3.369519	14.87912	4.55776787	4.465921879	0.011035107	9.249084473	221.978	8.698203087	8.523490906	0.034585427	28.9788456	695.4923096	24	20104.39453
	03	482.3899	833.0620728	3.373779	14.87151	4.32867146	4.236086845	0.010467203	8.726524353	209.4366	8.709172249	8.524032593	0.034587625	28.8187046	691.6489258	24	19993.48975
	04	481.4206	831.3873291	3.383191	14.85469	4.20498085	4.103071213	0.010138524	8.436922073	202.4861	8.782463074	8.571502686	0.034780249	28.919733	694.0736084	24	19953.2959
	05	386.9696	729.0285034	2.941711	13.26856	3.80331445	4.009014606	0.009906114	7.623851776	167.7247	8.112372398	8.265075684	0.033536855	26.7924328	589.4335327	20.93333	15260.99602
	06	485.5882	838.5843506	3.400615	14.82355	4.37223434	4.244935989	0.010489056	8.797812462	211.1475	9.094074249	8.830483437	0.035831101	30.0470047	721.1281128	24	20126.02441
	07	488.761	844.06427	3.410409	14.80606	4.63900995	4.490897655	0.011096821	9.368276596	224.8386	9.001068115	8.714737892	0.035361458	29.8477173	716.3452148	24	20257.54248
	08	489.3982	845.164856	3.404749	14.81617	4.67287397	4.53156805	0.011197316	9.467168808	227.2121	8.988826752	8.717285156	0.035371769	29.8989792	717.5755005	24	20283.95654

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	09	486.3874	839.9650269	3.245783	15.10023	4.49030161	4.553971767	0.011252683	9.456785202	208.0493	8.823640823	8.986618042	0.036464635	30.6111908	673.446228	24	20159.16064	
	10	485.4015	838.2619019	3.299438	15.00435	4.5593586	4.564486504	0.011278654	9.459694862	227.0327	8.887074471	8.905571938	0.036135782	30.2970829	727.1300049	24	20118.28564	
	11	479.0965	827.3736572	3.354319	14.90628	3.88796711	3.826818466	0.009455914	7.825419426	187.8101	8.884532928	8.746027946	0.035488416	29.3631802	704.7163086	24	19856.96777	
	12	480.7913	830.3008423	3.391712	14.83946	4.52692509	4.406201839	0.010887554	9.04218483	217.0124	8.601222038	8.373783112	0.033977974	28.2125626	677.1015015	24	19927.22021	
	13	481.0302	830.713562	3.374224	14.87071	4.50864172	4.411508083	0.010900654	9.057697296	217.3847	8.578169823	8.394237518	0.034060955	28.2959461	679.1027222	24	19937.12549	
	14	480.8988	830.4858398	3.35839	14.89903	4.48940516	4.413381577	0.010905287	9.05899334	217.4158	8.63476944	8.48959446	0.034447882	28.6082878	686.598877	24	19931.66016	
	15	481.2608	831.1121826	3.362841	14.89105	4.40562105	4.325144768	0.010687253	8.885752678	213.2581	8.754483223	8.596084595	0.034879982	28.9913616	695.7927246	24	19946.69238	
	16	478.6623	826.6238403	3.340138	14.93163	4.35400343	4.301466942	0.010628753	8.792228699	211.0135	8.681297302	8.581671715	0.03482151	28.786108	690.8665771	24	19838.97217	
	17	477.3627	824.3799438	3.366086	14.88527	4.08415318	4.007924557	0.009903415	8.168228149	196.0375	8.730794907	8.56486702	0.034753319	28.6508617	687.6206665	24	19785.11865	
	18	477.1236	823.9671021	3.383191	14.8547	3.83931661	3.746182203	0.009256663	7.630210876	183.1251	8.866886139	8.654075623	0.035115302	28.9335251	694.4046021	24	19775.21045	
	19	476.1048	822.2068481	3.388025	14.84606	3.64026833	3.547063351	0.008764647	7.211326599	173.0718	8.95178318	8.724660873	0.035401709	29.109808	698.635376	24	19732.96436	
	20	477.2473	824.1807861	3.375941	14.86765	3.94408822	3.856260061	0.009528661	7.858237267	188.5977	8.860685349	8.666570663	0.035165999	28.9827576	695.5861816	24	19780.33887	
	21	473.8048	818.2360229	3.368945	14.88015	3.62357497	3.55107379	0.008774555	7.18216753	172.372	8.987236977	8.808679581	0.035742622	29.2464752	701.9154053	24	19637.66455	
	22	480.1295	829.1574707	3.394256	14.83492	4.05283356	3.941839457	0.00974013	8.079705238	193.9129	8.921098709	8.678490639	0.035214368	29.1993713	700.7849121	24	19899.7793	
	23	480.967	830.6044922	3.35432	14.90628	4.37604904	4.308103561	0.01064515	8.842458725	212.219	8.732066154	8.595555305	0.034877844	28.9701881	695.2844849	24	19934.50781	
	24	480.4895	829.7789917	3.365131	14.88697	4.59369898	4.506869316	0.011136288	9.243196487	221.8367	8.629997253	8.469136238	0.03436489	28.5181751	684.4362183	24	19914.6958	
	25	478.7777	826.8231812	3.384718	14.85197	4.56905699	4.456503868	0.01101184	9.10610199	218.5464	8.680555344	8.468190193	0.034361038	28.4104786	681.8515015	24	19843.75635	
	26	478.2501	825.9123535	3.38885	14.84458	4.28844833	4.177802563	0.010323182	8.528291702	204.679	8.763385773	8.538609505	0.034646768	28.6151581	686.7637939	24	19821.89648	
	27	478.5193	826.3771973	3.376132	14.86732	4.19544315	4.10138464	0.010134345	8.382504463	201.1801	8.774515152	8.58152771	0.034820929	28.7751427	690.6033936	24	19833.05273	
	28	480.6923	830.1300049	3.362714	14.89128	4.76381302	4.677140236	0.011557025	9.595345497	230.2883	8.526818275	8.372514725	0.03397283	28.2025452	676.861084	24	19923.12012	
Mar 05	1	479.4228	827.9381104	3.375114	14.86912	4.6072135	4.507600784	0.011138096	9.22769165	221.4646	8.582304001	8.396617889	0.034070622	28.2090073	677.0161743	24	19870.51465	
	2	481.901	832.2175293	3.396418	14.83107	4.82994938	4.695156097	0.011601542	9.656095505	231.7463	8.589457512	8.350548744	0.033883687	28.1996422	676.7913818	24	19973.2207	
	3	481.1673	830.9508667	3.395401	14.83287	4.87716818	4.742458344	0.011718413	9.738534927	233.7248	8.553527832	8.318033218	0.03375176	28.0460968	673.1063232	24	19942.8208	
	4	480.7531	830.234436	3.396291	14.83129	4.67573404	4.545499325	0.011231746	9.325657845	223.8158	8.616325378	8.376912117	0.03399067	28.220871	677.3009033	24	19925.62646	
	5	482.3182	832.9387207	3.403986	14.81754	5.00197172	4.851437092	0.011987695	9.986113548	239.6667	8.495974541	8.241280556	0.033440322	27.8537579	668.4901733	24	19990.5293	
	6	480.3489	829.5370483	3.397054	14.82992	4.86317825	4.726589203	0.011679208	9.688097954	232.5143	8.471014023	8.234107971	0.033411212	27.719471	665.2672729	24	19908.88916	
	7	477.7745	825.0915527	3.398199	14.82788	5.08432674	4.939745903	0.012205913	10.07378674	241.7709	8.263539314	8.029377937	0.032580495	26.8863964	645.2734985	24	19802.19727	
	8	475.7913	821.6661377	3.402332	14.82049	5.20038271	5.046520233	0.012469738	10.24814034	245.9554	8.160676956	7.919608116	0.032135088	26.4119625	633.887085	24	19719.9873	
	9	470.0662	811.7788696	3.337713	14.93595	5.07793713	5.024291515	0.012414818	10.07402992	231.7027	7.94513464	7.858996391	0.031889133	25.8809605	595.262085	24	19482.69287	
	10	466.7116	805.9860229	3.359088	14.89775	4.72676849	4.649227619	0.011488042	9.263152122	222.3157	8.062106133	7.927018642	0.032165155	25.9279461	622.2706909	24	19343.66455	
	11	465.2751	803.5046387	3.398072	14.8281	4.63280964	4.501259804	0.011122429	8.937235832	214.4937	7.969736099	7.74444437	0.031424325	25.2534542	606.0828857	24	19284.11133	
	12	466.7423	806.038208	3.399534	14.8255	4.46524048	4.336801052	0.010716055	8.63771534	207.3052	8.142234802	7.908569813	0.032090284	25.8730927	620.9542236	24	19344.91699	
	13	473.0641	816.9549561	3.398326	14.82765	4.5378952	4.408855438	0.010894117	8.900683403	213.6164	8.290407181	8.055177689	0.032685179	26.7022076	640.8530273	24	19606.91895	
	14	472.2449	815.5411987	3.401824	14.82139	4.42946815	4.299143314	0.010623008	8.663815498	207.9316	8.390089989	8.14359951	0.033043958	26.9487991	646.7711792	24	19572.98877	
	15	480.382	829.5939941	3.395783	14.83218	4.55729103	4.430689335	0.010948054	9.087691307	218.1046	8.712512016	8.471878052	0.034375995	28.5171452	684.411499	24	19910.25586	
	16	482.7528	833.6881714	3.359811	14.89648	4.74697447	4.664505482	0.011525809	9.609104156	221.0094	8.656832695	8.507474899	0.034520447	28.7685261	661.6760864	24	20008.51611	
	17	480.2996	829.4514771	3.371998	14.87469	4.63551235	4.53793478	0.011213049	9.303638458	223.2873	8.69836235	8.520198822	0.034572072	28.6773758	688.257019	24	19906.83545	
	18	477.7418	825.034668	3.392857	14.83742	4.31706762	4.201361656	0.010381392	8.565573692	205.5738	8.807583809	8.571508408	0.034780256	28.6953163	688.6876221	24	19800.83203	
	19	475.481	821.1300659	3.408374	14.8097	4.24234295	4.109102249	0.010153421	8.338780403	200.1307	8.588502884	8.321051598	0.033764001	27.7250004	665.4000244	24	19707.12158	
	20	481.4254	831.3968506	3.40513	14.81549	4.81437016	4.668383121	0.011535387	9.593856812	230.2526	8.570061684	8.310267448	0.033720229	28.0341377	672.8192749	24	19953.52441	
	21	481.7392	831.9376831	3.377913	14.86413	4.93487978	4.823403835	0.011918429	9.916928291	238.0063	8.52745533	8.335544586	0.033822801	28.1388798	675.3331299	24	19966.50439	
	22	477.6403	824.8590698	3.381665	14.85742	4.26873589	4.16901207	0.01030146	8.499945641	203.9987	8.705039978	8.500003815	0.034490142	28.4523659	682.8568115	24	19796.61768	
	23	482.5218	833.2897339	3.400233	14.82425	4.23296356	4.109874249	0.010155336	8.46455574	203.1493	8.94558239	8.687433243	0.035250649	29.3731251	704.9550171	24	19998.95361	
	24	483.2775	834.5944824	3.396164	14.83152	4.50339603	4.377781868	0.010817321	9.030416489	216.73	8.843514442	8.598138809	0.034888331	29.1173782	698.8170776	24	20030.26758	
	25	486.3546	839.9080811	3.398136	14.82798	5.0984745	4.954267502	0.012241796	10.28423309	246.8216	8.769745827	8.521411896	0.034577005	29.0426788	697.024292	24	20157.79395	
	26	483.9863	835.8184814	3.387897	14.84629	5.33647442	5.20066309	0.012850621	10.74250412	257.8201	8.530791283	8.314495087	0.033737391	28.2012005	676.8287964	24	20059.64355	
	27	478.4805	826.3108521	3.376894	14.86594	4.74727869	4.641283989	0.011468429	9.483031273	227.5928	8.54843998	8.35921669	0.033918865	28.0314255	672.7542114	24	19831.46045	
	28	483.2829	834.6039429	3.392349	14.83832	4.66222143	4.537147522	0.011211108	9.359150887	224.6196	8.796135902	8.562021255	0.034741767	28.9953671	695.8887939	24	20030.49463	
	29	485.5849	838.5797119	3.396419	14.83106	5.02136755	4.88100481	0.012060767	10.11625004	242.79	8.770858765	8.526804924	0.03459888	29.0163536	696.3925171	24	20125.91309	
	30	486.0111	839.3151855	3.345417	14.92218	5.46297359	5.393296719	0.013326612	11.18625832	268.4702	8.617810249	8.505702019	0.03451325	28.96768	695.2243042	24	20143.56445	
	31	482.8081	833.78302	3.367992	14.88185	5.56096268	5.450464725	0.013467884	11.23090839	269.5418	8.45972538	8.296832085	0.033665717	28.0744591	673.7869873	24	20010.79248	
Apr 05	01	481.2141	831.0314331	3.381028	14.85855	5.29545689	5.170959949	0.012777233	10.6272316	255.0536	8.457023621	8.259252548	0.033513233	27.8561287	668.5471191	24	19944.75439	
	02	55.5156	460.1878052	1.87668	9.883308	4.40959597	8.799582481	0.02174338	8.373394012	41.86697	6.671505928	8.50394249	0.034506079	21.7520523	108.7602615	4.683333	2155.212697	
	03	465.0221	837.9841919	3.396641	14.83065	5.31384325	5.165417194	0.012763539	10.69729614	246.0378	8.688352585	8.446177483	0.034271717	28.7202225	660.5651245	24	20111.62061	
	04	490.3737	846.8491821	3.403478	14.81845	5.54172516	5.375825405	0.013283445	11.25217533	270.0522	8.76131916	8.499973297	0.034490012	29.2071381	700.9713135	24	20324.38037	
	05	486.2997	839.8132324	3.392412	14.83821	5.6894207	5.536989689	0.013681671	11.495121	275.8829	8.47769165	8.251317024	0.033481043	28.1247082	674.992981	24	20155.51758	
	06	479.1785	827.5159912	3.337615	14.93613	5.15433025	5.092991352	0.012584575	10.42611408	250.2267	8.432009697	8.342762947	0.033852093	28.0147076	672.3530273	24	19860.38379	
	07	484.9617	837.5028076	3.374097	14.87095	4.94680405	4.841887474	0.011964104	10.02296162	240.5511	8.712192535	8.529110909	0.034608234	28.986805	695.6832886	24	20100.06738	
	08	488.6346	843.8458862	3.381602	14.85753	5.13917542	5.017582893	0.012398242	10.46625233	251.1901	8.872926712	8.66378212	0.035154689	29.667654	712.0236816	24	20252.30127	
	09	487.2526	841.4595947	3.390568	14.84152	4.82931376	4.703299046	0.011621648	9.784122467	234.8189	8.941608429	8.708423615	0.035335816	29.7361507	713.6676025	24	20195.03027	
	10	483.698	835.3203125	3.403795	14.81788	5.01564407	4.865596294	0.01202269	10.04602814	241.1047	8.618551254	8.360490799	0.033924028	28.3374786	680.0994873	24	20047.6875	
	11	480.3988	829.6223755	3.395847	14.83208	4.83567476	4.701186657	0.011616424	9.644641876	231.4714	8.599791527	8.362083435	0.033930492	28.1516171	675.6387939	24	19910.93701	
	12	478.9231	827.0747681	3.393683	14.83595	4.84394121	4.712210655	0.011643675	9.633444786	231.2027	8.558296204	8.326906204	0.033787753	27.9463825	670.7131958	24	19849.79443	

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	13	487.3851	841.6873169	3.385926	14.8498	4.91532469	4.791957378	0.011840727	9.972325325	239.3358	9.009972572	8.786725044	0.03565355	30.0068493	720.1644287	24	20200.49561
	14	489.0879	844.6287842	3.391903	14.83913	5.22820568	5.08910656	0.012574975	10.62569618	255.0167	8.947649002	8.710420609	0.035343926	29.855608	716.5346069	24	20271.09082
	15	480.2337	829.3377686	3.38688	14.8481	4.57954979	4.463398933	0.011028871	9.152495384	219.6599	8.864500046	8.64325428	0.035071403	29.0889378	698.1345215	24	19904.10645
	16	475.7907	821.6660767	3.407864	14.81062	4.70419312	4.557794094	0.011262121	9.262626648	222.303	8.581030846	8.314198494	0.033736195	27.7263088	665.4313965	24	19719.98584
	17	474.3217	819.1279297	3.404686	14.81628	4.82693005	4.680483341	0.011565283	9.478222847	227.4774	8.437467575	8.182719231	0.033202693	27.2000408	652.8010254	24	19659.07031
	18	484.8489	837.3081055	3.39254	14.83799	4.92247963	4.790617943	0.011837421	9.914016724	237.9364	8.905041695	8.667405128	0.035169382	29.4481468	706.7554932	24	20095.39453
	19	485.7718	838.9022217	3.396736	14.83049	4.72645187	4.592242718	0.011347239	9.524694443	228.5927	9.100593567	8.847631454	0.035900686	30.1140785	722.737915	24	20133.65332
	20	485.2253	837.9581909	3.386626	14.84856	5.12566185	4.996300697	0.012345654	10.34943104	248.3864	8.88914299	8.666962624	0.035167597	29.467062	707.2094727	24	20110.99658
	21	482.7283	833.6455688	3.385925	14.84981	5.28273869	5.150671005	0.012727092	10.61752415	254.8206	8.664339066	8.449783325	0.034286357	28.5878925	686.109375	24	20007.49365
	22	480.5825	829.9401855	3.394066	14.83527	5.16810989	5.027748108	0.012423354	10.31278896	247.5069	8.660205841	8.424956322	0.034185607	28.3742161	680.9812012	24	19918.56445
	23	481.1649	830.946106	3.396228	14.83141	4.58813429	4.459982395	0.011020425	9.159015656	219.8164	8.811876297	8.567264557	0.034763049	28.8873882	693.2973022	24	19942.70654
	24	481.975	832.3456421	3.406085	14.81379	5.041399	4.886657715	0.012074725	10.05222416	241.2534	8.597248077	8.334316254	0.033817813	28.1479626	675.5510864	24	19976.29541
	25	482.0384	832.4547729	3.401188	14.82253	5.23694992	5.083710194	0.012561638	10.45835781	251.0006	8.571810722	8.321673393	0.033766523	28.1104336	674.6503906	24	19978.91455
	26	478.1014	825.656189	3.390441	14.84174	5.16922379	5.033340454	0.012437179	10.27520466	246.6049	8.427611351	8.207397461	0.033302836	27.5001202	660.0028687	24	19815.74854
	27	479.0002	828.6275024	3.317673	14.9737	4.75858641	4.735979557	0.011701407	9.699948311	223.0988	8.614029884	8.576611519	0.034797989	28.8248997	662.9727173	24	19887.06006
	28	481.1184	833.0444946	3.377404	14.86794	5.01866388	4.908166409	0.012126363	10.10286045	242.4687	8.493271828	8.310389519	0.033716511	28.0869923	674.0877686	24	19993.06787
	29	479.5963	830.4092407	3.404051	14.82035	4.95077848	4.804208755	0.011869521	9.862941742	236.7106	8.366401672	8.119310379	0.032941293	27.3553925	656.5294189	24	19929.82178
	30	477.7749	827.2554321	3.376768	14.86907	5.29561567	5.180089951	0.012798196	10.59344864	254.2428	8.198513985	8.020677567	0.032541119	26.9200954	646.0822754	24	19854.13037
May 05	01	475.1303	822.6762695	3.395402	14.8358	4.29173565	4.178037167	0.010322466	8.493535042	203.8448	8.445204735	8.216053009	0.033333782	27.4270706	658.2496948	23.75	19538.5614
	02	477.3796	826.5705566	3.386243	14.85215	5.09259224	4.967075348	0.0122719	10.14913845	243.5793	8.264493942	8.062591553	0.032711163	27.0419998	649.0079956	24	19837.69336
	03	472.239	817.6704712	3.393429	14.83932	4.56190205	4.440413952	0.010970704	8.973576546	215.3658	8.190247536	7.972994328	0.032347664	26.4518833	634.8452148	24	19624.09131
	04	471.4778	816.3529053	3.371871	14.87782	4.53328419	4.43939352	0.010968192	8.958771706	215.0105	8.206463814	8.040269852	0.032620594	26.6301041	639.1224976	24	19592.46973
	05	472.9973	818.9833984	3.394191	14.83794	4.33455515	4.219352245	0.010424542	8.53767395	204.9042	8.329995155	8.107671738	0.032894067	26.9406796	646.5762939	24	19655.60156
	06	474.1952	821.057312	3.407738	14.81377	4.32485676	4.191414356	0.010355517	8.507265091	204.1744	8.382935524	8.126609802	0.032970898	27.0710163	649.7044067	24	19705.37549
	07	477.9311	827.5267334	3.40532	14.81807	4.81818581	4.673659801	0.011546979	9.556458473	229.355	8.341600418	8.092017174	0.032830551	27.1695824	652.0700073	24	19860.6416
	08	476.6592	825.3242798	3.393492	14.8392	5.01341915	4.879840374	0.01205638	9.954217911	238.9012	8.207893372	7.990257263	0.032417689	26.7576962	642.1846924	24	19807.78271
	09	480.3547	831.722229	3.395782	14.83511	4.97685146	4.841181278	0.01196085	9.950229645	238.8055	8.351617813	8.124635696	0.032962892	27.4164047	657.9937134	24	19961.3335
	10	485.2006	840.1130371	3.393747	14.83875	5.25380325	5.113117695	0.012632721	10.61587906	254.7811	8.522842407	8.296397209	0.033659745	28.2786789	678.6882935	24	20162.71289
	11	481.1	833.0129395	3.374796	14.87259	5.10743093	4.998620987	0.012349846	10.28968048	246.9523	8.437573433	8.259083748	0.033508364	27.9129295	669.9102783	23.75	19784.05731
	12	474.9835	822.4224854	3.38885	14.84749	4.98019028	4.855113029	0.011995276	9.869880676	236.8771	8.185001373	7.979450226	0.032373849	26.6325092	639.1801758	24	19738.13965
	13	470.6707	814.9543457	3.397818	14.83148	5.0711298	4.929695129	0.012179546	9.928197861	238.2767	7.97418642	7.75261116	0.031453524	25.6361294	615.2670898	24	19558.9043
	14	360.7557	713.8738403	2.98404	13.58002	4.76481199	5.242566109	0.01295255	9.243449211	194.1124	7.920516968	8.508145332	0.03451886	25.2648602	530.5620728	20.43333	14586.8215
	15	468.3823	810.9919434	3.388088	14.84885	5.26238871	5.129333496	0.012672783	10.28461742	246.8308	7.795329094	7.600965977	0.030838283	25.0095577	600.2293701	24	19463.80664
	16	474.6951	821.9230347	3.392518	14.84094	4.96620035	4.835718632	0.011947358	9.820001602	235.68	8.149652481	7.935956001	0.032197379	26.4717999	635.3231812	24	19726.15283
	17	481.3684	833.477417	3.401761	14.82444	5.00530958	4.860451221	0.012008462	10.01031971	240.2477	8.4295187	8.186196327	0.033212636	27.6848164	664.4356079	24	20003.45801
	18	475.632	823.5452881	3.269716	15.06026	4.8762002	4.927316666	0.012173673	10.01285362	220.2828	8.246788025	8.335597992	0.033818785	27.8107052	611.8355103	24	19765.08691
	19	470.3463	814.3930664	3.327928	14.95631	5.18607569	5.147267818	0.012717091	10.35687923	248.5651	7.786904335	7.739306927	0.031399552	25.5837708	614.010498	24	19545.43359
	20	474.2994	821.2382202	3.379057	14.86498	5.46366167	5.340954781	0.013195625	10.83837032	260.1209	7.81869936	7.64410305	0.031013295	25.4701958	611.284729	24	19709.71729
	21	473.8329	820.4294434	3.372825	14.87611	4.7917943	4.697603226	0.011606135	9.5067873	228.1629	8.14048481	7.971787453	0.032342777	26.5456409	637.0953979	24	19690.30664
	22	469.9535	813.7128296	3.367738	14.8852	5.19116211	5.091874599	0.012580234	10.24024487	245.7659	7.850019932	7.700117588	0.031240555	25.4247589	610.1942139	24	19529.10791
	23	468.8625	811.8243408	3.366466	14.88749	4.82136488	4.731049061	0.011688767	9.492385864	227.8173	7.942549706	7.794168949	0.031622149	25.6717663	616.1223755	24	19483.78418
	24	469.8187	813.4797974	3.400805	14.82614	3.89846039	3.799759626	0.009387873	7.625178337	183.0043	8.610447884	8.355593681	0.033899911	27.5908451	662.1802979	24	19523.51514
	25	465.5408	806.0734863	3.361514	14.89632	4.80050373	4.717235088	0.011654643	9.393299103	216.0459	7.79732132	7.662031174	0.031086031	25.0562172	576.2929688	24	19345.76367
	26	465.2199	805.5169067	3.386753	14.85126	4.79004478	4.671792507	0.011542358	9.301786423	223.2429	7.801688671	7.610512733	0.030877009	24.8740959	596.9782715	24	19332.40576
	27	468.4835	811.1679688	3.417978	14.79548	3.91610789	3.799857855	0.009388121	7.597229958	182.3335	8.620779037	8.321253777	0.0337606	27.4075832	657.7819824	24	19468.03125
	28	469.2886	812.5616455	3.398453	14.83034	4.56047249	4.432225704	0.010950475	8.898982048	213.5756	8.098670959	7.872700214	0.031940747	25.9557991	622.939209	24	19501.47949
	29	477.1593	826.1900635	3.399089	14.8292	4.50212383	4.375499249	0.010810329	8.932764053	214.3863	8.437150002	8.199469566	0.033266496	27.4876461	659.7034912	24	19828.56152
	30	475.5575	823.416687	3.396099	14.83455	4.94505548	4.809802055	0.011883333	9.786483765	234.8756	8.119340897	7.89778471	0.032042503	26.3866215	633.2789307	24	19762.00049
	31	468.5853	811.3439941	3.398963	14.82943	4.84473562	4.708551884	0.011633179	9.44112587	226.587	7.864964962	7.644102097	0.031013278	25.1717072	604.1209717	24	19472.25586
Jun 05	01	466.7033	808.0855713	3.418358	14.7948	3.07841659	2.986561775	0.007378755	5.943120003	142.6349	9.049711227	8.736065865	0.035443556	28.669529	688.0687256	23.25	18787.98953
	02	469.6594	813.2038574	3.38955	14.84624	3.98526454	3.884116173	0.009596291	7.806492805	187.3558	8.348914146	8.137867928	0.033016589	26.8510284	644.4246826	24	19516.89258
	03	469.3187	812.6139526	3.402078	14.82388	3.93089247	3.81633544	0.009428827	7.664603233	183.9505	8.307577133	8.066882133	0.032728575	26.5974617	638.3391113	24	19502.73486
	04	467.2253	808.9893799	3.400043	14.82751	4.00656891	3.892583847	0.009617213	7.782458305	186.779	8.205033302	7.972194672	0.032344427	26.1696453	628.0715332	24	19415.74512
	05	474.7502	822.0183716	3.399154	14.8291	4.24854469	4.128672123	0.010200495	8.386673927	201.2802	8.368469238	8.132931709	0.03299655	27.1255951	651.0142822	24	19728.44092
	06	481.2525	833.27771	3.395337	14.8359	4.72756433	4.599068642	0.011362683	9.470989227	227.3037	8.422204971	8.194243431	0.033245299	27.7045574	664.9094238	24	19998.66504
	07	481.9012	834.4001465	3.390759	14.84409	4.76222324	4.638605595	0.011460362	9.567000389	229.608	8.348595619	8.133708954	0.032999709	27.5365925	660.8781738	24	20025.60352
	08	476.8328	825.6239014	3.363837	14.89217	4.61616898	4.531875134	0.011196683	9.248962402	221.9751	8.159087181	8.011404037	0.032503486	26.8425541	644.2213135	24	19814.97363
	09	469.2805	812.5475464	3.390314	14.84489	4.35426807	4.243299484	0.010483704	8.522317886	204.5356	7.911389351	7.709976196	0.03128054	25.418663	610.0479126	24	19501.14111
	10	465.8185	806.553894	3.407865	14.81355	4.07890701	3.953533411	0.009767802	7.88091898	189.1421	7.890720844	7.649309635	0.031034408	25.0314159	600.7540283	24	19357.29346
	11	373.7088	675.2012329	2.839756	12.64775	3.64425778	5.028078556	0.012422634	7.018956661	161.436	7.038674831	7.16672945	0.029076509	22.3154449	513.255249	21.43333	14471.81249
	12	467.3326	809.1749268	3.429805	14.77434	4.08590269	3.93909955	0.009732138	7.869318962	188.8636	8.102967262	7.801484108	0.03165181	25.6209927	614.9038086	24	19420.19824
	13	465.558	806.1019897	3.411425	14.80716	4.38527107	4.245830536	0.01048996	8.457474709	202.9794	7.837619781	7.589260101	0.030790791	24.8243332	595.7839966	24	19346.44775
	14	465.2334	805.5407104	3.445895	14.74561	3.44471884	3.319364071	0.008200981	6.59584713	158.3003	8.7210989	8.348478317	0.033871058	27.3002415	655.2058105	24	19332.97705

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	15	466.8599	808.3567505	3.38885	14.8475	4.16539526	4.059902668	0.010030603	8.109185219	194.6204	8.108846664	7.904574871	0.032070067	25.9244957	622.1879272	24	19400.56201
	16	474.7057	821.9422607	3.390949	14.84374	4.34727287	4.234751225	0.010462583	8.601175308	206.4282	8.31346035	8.099355698	0.032860342	27.0117092	648.2810059	24	19726.61426
	17	475.344	823.0457153	3.404622	14.81933	4.47811842	4.344652176	0.010734117	8.835631371	212.0552	8.169421196	7.927130699	0.032161575	26.4723549	635.3364868	24	19753.09717
	18	477.8357	827.3601074	3.405194	14.81829	4.53423882	4.398392677	0.010866887	8.995298386	215.8872	8.302649498	8.054605484	0.032678757	27.0402832	648.9667969	24	19856.64258
	19	473.6923	820.1867676	3.403034	14.82218	4.5099144	4.37762785	0.010815588	8.872037888	212.9289	8.149546623	7.911211491	0.032097001	26.3287716	631.8905029	24	19684.48242
	20	470.6068	814.8450317	3.402778	14.82263	4.6221571	4.490304947	0.011093969	9.036982536	216.8876	8.0388937	7.801482677	0.03165181	25.8043919	619.3054199	24	19556.28076
	21	468.9785	812.024292	3.402143	14.82376	4.83010912	4.689530849	0.011586184	9.410557747	225.8534	7.827444553	7.601100445	0.030838834	25.050972	601.2233276	24	19488.58301
	22	469.6158	813.1277466	3.422048	14.78821	3.81928444	3.698188782	0.00913693	7.41986084	178.0767	8.515684128	8.212350845	0.033318758	27.1067505	650.5620117	24	19515.06592
	23	466.7643	808.1902466	3.40532	14.81808	4.34790897	4.220288754	0.010426849	8.422848701	202.1484	8.038734436	7.796720505	0.031632487	25.5757751	613.8186035	24	19396.56592
	24	471.2007	815.8724365	3.402015	14.82398	4.43089867	4.302348137	0.010629583	8.673808098	208.1714	8.079116821	7.845636368	0.031830944	25.9818211	623.5637207	24	19580.93848
	25	472.4892	818.1033936	3.396927	14.83308	4.62088537	4.493475914	0.011101805	9.089079857	218.1379	8.06910038	7.847402573	0.031838104	26.0572128	625.3731079	24	19634.48145
	26	468.4509	811.1108398	3.405195	14.8183	4.67382813	4.53391695	0.011201709	9.088484764	218.1236	7.86878109	7.633820534	0.03097157	25.1264877	603.0357056	24	19466.66016
	27	466.33	807.4385986	3.408565	14.81229	4.40975332	4.273869514	0.010559234	8.53229332	204.775	7.849225521	7.607429028	0.030864509	24.925066	598.2015991	24	19378.52637
	28	470.624	814.8734741	3.399853	14.82785	5.03837776	4.89517355	0.012094258	9.858169556	236.5961	7.775298119	7.554928303	0.030651497	24.980629	599.5350952	24	19556.96338
	29	468.0275	810.378479	3.417088	14.79707	3.98192668	3.862550735	0.009543015	7.727501869	185.4601	8.49915123	8.20786953	0.033300579	26.9957047	647.8969116	24	19449.0835
	30	464.5132	804.2944336	3.431903	14.7706	3.65791655	3.543755531	0.008755376	7.012899399	168.3096	8.581190109	8.245249748	0.033452231	26.9401283	646.5631104	24	19303.06641
Jul 05	01	462.7172	801.1835938	3.444242	14.74857	3.44662547	3.325745344	0.008216749	6.55932188	157.4237	8.666091919	8.298277855	0.033667378	27.0015793	648.0379028	24	19228.40625
	02	458.7613	794.3336182	3.396672	14.83352	4.69767475	4.568389416	0.011286892	8.967630386	215.2231	7.524261475	7.318126202	0.029690763	23.5850754	566.0418091	24	19064.00684
	03	462.2416	800.3604736	3.396228	14.83432	4.65920115	4.530930042	0.011194339	8.963039398	215.1129	7.736346722	7.525562286	0.030532345	24.4361839	586.4683838	24	19208.65137
	04	464.7939	804.7797241	3.392794	14.84045	5.03217888	4.899168968	0.012104138	9.74324131	233.8378	7.738729954	7.535302162	0.030571867	24.6072044	590.572876	24	19314.71338
	05	468.2637	810.7874756	3.432286	14.76992	3.66077733	3.542597532	0.008752515	7.081671238	169.9601	8.837152481	8.493420601	0.034459095	27.956562	670.9575195	24	19458.89941
	06	466.1125	807.0629272	3.403859	14.82068	3.81960344	3.717436314	0.009184484	7.391905785	177.4057	8.573239326	8.312484741	0.033725016	27.2446671	653.8720093	24	19369.51025
	07	466.2997	807.3863525	3.444242	14.74857	3.13517594	3.03200841	0.007491031	6.027117252	144.6508	8.981513023	8.599509239	0.034889527	28.1909504	676.5828247	24	19377.27246
	08	465.1646	805.421875	3.425735	14.78162	4.11388397	3.98053503	0.009834507	7.90046072	189.6111	8.282773972	7.978031158	0.032368101	26.0935707	626.2457275	24	19330.125
	09	369.0768	696.9355469	2.948788	13.25845	4.36594772	4.443189621	0.010977572	8.41936779	185.2261	6.794594765	6.922931671	0.028087387	21.5097198	473.2138672	21.16944	14753.73743
	10	468.2475	810.7588501	3.403287	14.82173	4.61357307	4.477488041	0.011062304	8.969549179	215.2692	7.824741364	7.59581089	0.030817367	24.9878826	599.7092285	24	19458.2124
	11	468.25	810.7635498	3.44742	14.74289	3.73009467	3.592247009	0.008875182	7.199225903	172.7814	8.526022911	8.16183567	0.033113826	26.8532047	644.4769287	24	19458.3252
	12	461.3574	798.8289795	3.474511	14.69449	3.13962626	3.004672527	0.007423496	5.915197372	141.9647	8.721256256	8.280397415	0.033594824	26.8534336	644.4824219	24	19171.89551
	13	459.0412	794.8188477	3.456324	14.72699	3.0773046	2.953448296	0.007296937	5.779111385	138.6987	8.79613781	8.398252487	0.034073003	27.1084633	650.6030884	24	19075.65234
	14	463.3135	802.2156982	3.458295	14.72346	3.0094192	2.894562006	0.00715145	5.725431442	137.4104	8.991370201	8.575659752	0.034792759	27.9272079	670.2529907	24	19253.17676
	15	460.3215	797.0355225	3.464845	14.71177	3.28541541	3.150350094	0.00778341	6.172929764	148.1503	8.800905228	8.376838684	0.033986114	27.1297874	651.1148682	24	19128.85254
	16	451.6515	782.0230103	3.415497	14.7999	4.82724667	4.668657303	0.011534613	9.022498131	216.5399	7.288646221	7.049835682	0.028602257	22.3704338	536.8903809	24	18768.55225
	17	451.5601	781.866272	3.412126	14.80593	4.86858273	4.71303606	0.011644258	9.105828285	218.5399	7.279424191	7.047785759	0.028593954	22.3570499	536.5692139	24	18764.79053
	18	459.8022	796.1364746	3.463575	14.71404	3.50274706	3.35882616	0.00829849	6.587842464	158.1082	8.75989151	8.34078598	0.033839844	26.9671745	647.2122192	24	19107.27539
	19	461.3109	798.7481079	3.474829	14.69394	3.30942202	3.157862425	0.007801964	6.206813335	148.9635	9.055599213	8.5987854	0.034886587	27.9026966	669.6646729	24	19169.95459
	20	461.2662	798.671936	3.453209	14.73254	3.40226865	3.268263817	0.008074729	6.426618576	154.2388	8.969751358	8.570197105	0.034770604	27.8027592	667.2661743	24	19168.12646
	21	460.6839	797.6634521	3.4527	14.73347	3.61228657	3.473207474	0.00858108	6.816100121	163.5864	8.827299118	8.433171272	0.034214668	27.3295631	655.9094849	24	19143.92285
	22	462.3793	800.5983887	3.473877	14.69564	3.36649799	3.215597153	0.007944612	6.334228516	152.0215	8.842241287	8.397114754	0.034068372	27.310709	655.4570313	24	19214.36133
	23	456.6483	790.6756592	3.405894	14.81705	5.48639774	5.320861816	0.013145988	10.39612389	249.507	7.316627502	7.096585751	0.028791925	22.7662201	546.3892822	24	18976.21582
	24	455.1676	788.1116943	3.403859	14.82068	5.46255064	5.300092697	0.013094671	10.32205105	247.7292	7.334274769	7.118745804	0.028881839	22.762125	546.2910156	24	18914.68066
	25	465.4012	805.8309326	3.44761	14.74256	3.67874289	3.542492628	0.008752251	7.029504299	168.7081	9.127458572	8.732281685	0.0354282	28.5796585	685.9118042	24	19339.94238
	26	466.8654	808.366333	3.447802	14.74221	3.61801171	3.48583889	0.00861229	6.944711208	166.6731	9.063388824	8.670517921	0.035177596	28.4577122	682.9851074	24	19400.79199
	27	465.5851	806.1495972	3.401793	14.82438	3.42643476	3.330103397	0.008227517	6.619240761	152.2425	9.135227203	8.869261742	0.035983946	29.0335255	667.7711182	24	19347.59033
	28	465.1623	805.4169312	3.428725	14.77628	3.33056712	3.239534616	0.008003755	6.432915211	154.39	9.218565941	8.862567902	0.035956789	28.9766083	695.4385986	24	19330.00635
	29	462.5766	800.9408569	3.469997	14.70257	3.11116791	2.976151705	0.00735303	5.876180649	141.0283	9.194865227	8.741333008	0.035464916	28.4270039	682.2481079	24	19222.58057
	30	456.3518	790.1620483	3.405067	14.81853	5.31040144	5.152030468	0.01272885	10.05593014	241.3423	7.3118577	7.093698502	0.028780226	22.7439327	545.8543701	24	18963.88916
	31	454.7945	787.4649048	3.397498	14.83205	5.53059483	5.376669407	0.013283863	10.46297932	251.1115	7.256689072	7.056230068	0.0286282	22.5435505	541.0452271	24	18899.15771
Aug 05	01	462.1403	800.1846313	3.437755	14.76015	3.87334132	3.74109745	0.009242947	7.363033295	176.7128	8.701698303	8.348912239	0.033872817	27.1400452	651.361084	24	19204.43115
	02	462.393	800.6221313	3.425226	14.78253	4.02691936	3.895794153	0.009625142	7.691732407	184.6016	8.515850067	8.2029562	0.033280641	26.6662197	639.9893188	24	19214.93115
	03	465.8736	806.6490479	3.411635	14.8068	3.69890547	3.593438625	0.008878119	7.143871784	157.1652	8.942502022	8.649167061	0.035090987	28.3375854	623.4268799	24	19359.57715
	04	464.2997	803.9234619	3.417913	14.79559	4.15887642	4.040014267	0.009981457	8.00712204	192.1709	8.526971817	8.227813721	0.033381503	26.858326	644.5997925	24	19294.16309
	05	464.6158	804.47052	3.453463	14.7321	3.60529208	3.46813798	0.008568551	6.877236366	165.0537	8.901226044	8.50334549	0.03449937	27.7702751	666.4865723	24	19307.29248
	06	454.478	786.9177246	3.394765	14.83693	5.44410563	5.29691267	0.013086816	10.3009634	247.2231	7.313446999	7.117323399	0.028876062	22.7220879	545.3300781	24	18886.02539
	07	366.2665	691.8344727	2.943029	13.03124	4.67761326	4.595473766	0.011353801	8.937432289	196.6235	6.904728413	6.993160248	0.028372306	21.6299381	475.8586426	20.93611	14484.32362
	08	463.8051	803.0671997	3.436865	14.76176	4.21436262	4.068997383	0.01005306	8.049536705	193.1889	8.644626617	8.295332909	0.033655446	27.0594368	649.4265137	24	19273.61279
	09	467.6954	809.8028564	3.458105	14.7238	3.63947415	3.493160486	0.008630382	6.968913555	167.2539	9.063232422	8.646934509	0.035081934	28.4326878	682.3845215	24	19435.26855
	10	464.9036	804.9699707	3.380786	14.86189	5.38506508	5.268910885	0.013017636	10.44113922	229.7051	7.738613605	7.557076454	0.030660208	24.6356678	541.9846802	24	19319.2793
	11	470.1265	814.0125732	3.406784	14.81547	4.64266634	4.52133894	0.011170651	9.074433327	217.7864	8.785964012	8.503342628	0.034499355	28.1131744	674.7161865	24	19536.30176
	12	462.6925	801.140564	3.38777	14.84943	4.77907515	4.659665585	0.0115124	9.223443985	221.3627	8.015205383	7.817519665	0.031716879	25.4167671	610.0023804	24	19227.37354
	13	462.728	801.2024536	3.396292	14.8342	4.76889944	4.63852787	0.011460179	9.185018539	220.4404	7.936985016	7.720637321	0.031323809	25.1032009	602.4768066	24	19228.85889
	14	464.7967	804.7843018	3.398962	14.82945	5.149827	5.004762173	0.012365017	9.951832771	238.844	7.819178104	7.600327015	0.030835688	24.8248711	595.796875	24	19314.82324
	15	465.2337	805.5407715	3.437946	14.75982	4.70260429	4.539413929	0.011215311	9.004348755	216.1044	8.274349213	7.93282032	0.032184653	25.9694824	623.2675781	24	19332.97852
	16	466.3438	807.4623413	3.457405	14.72507	4.03915977	3.886969566	0.009603339	7.717775822	185.2266	8.916815758	8.496836662	0.034472957	27.8864536	669.2749023	24	19379.09619

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	17	467.2469	809.0274658	3.444708	14.74773	3.54413652	3.425232172	0.008462548	6.804897308	163.3175	9.490902901	9.077505112	0.036828857	29.8584709	716.6032715	24	19416.65918
	18	464.5328	804.3278198	3.396865	14.83319	4.99624729	4.859723568	0.012006671	9.660466194	231.8512	7.730145454	7.518421173	0.0305034	24.538084	588.9140015	24	19303.86768
	19	470.684	814.9782104	3.440171	14.75583	4.3108654	4.157086849	0.010270717	8.36057663	200.6538	8.47324276	8.126173019	0.032969125	26.8817844	645.1627808	24	19559.47705
	20	464.3464	804.0042725	3.395973	14.83478	5.51867056	5.367582798	0.013261425	10.66473866	255.9537	7.497868538	7.293448925	0.029590642	23.7920837	571.0100098	24	19296.10254
	21	462.78	801.2928467	3.389614	14.84612	5.62662077	5.483060837	0.013546725	10.85954952	260.6292	7.417740822	7.229202271	0.02932998	23.5035954	564.0863037	24	19231.02832
	22	465.0608	805.2409668	3.42987	14.77424	3.91896915	3.798228264	0.009384092	7.540980816	180.9835	8.652889252	8.318216324	0.033748284	27.1951199	652.6829224	24	19325.7832
	23	465.8103	806.5394897	3.438963	14.758	3.5868504	3.467633247	0.00856731	6.895478725	165.4915	8.948764801	8.58024025	0.034811351	28.0952301	674.2855225	24	19356.94775
	24	462.3572	800.5601807	3.331011	14.9508	4.42447042	4.388112068	0.010841487	8.676582336	199.5614	8.031898499	7.965691566	0.03231803	25.8622608	594.8319702	24	19213.44434
	25	468.7088	811.5579834	3.387007	14.85078	4.07413816	4.000007153	0.009882617	8.019962311	192.4791	8.635718346	8.41009903	0.034121063	27.6965332	664.7167969	24	19477.3916
	26	466.9672	808.5421753	3.415623	14.79968	4.12469435	4.003233433	0.009890588	7.99095726	191.783	8.552733421	8.262903214	0.033523858	27.116909	650.8057861	24	19405.01221
	27	458.769	794.3479614	3.387006	14.8508	5.06365681	4.938270092	0.012200737	9.695427895	232.6903	7.496915817	7.312449455	0.02966772	23.5692043	565.6608887	24	19064.35107
	28	456.2496	789.986084	3.386625	14.85147	5.00181246	4.878993034	0.012054292	9.526590347	228.6382	7.449537754	7.266986847	0.029483275	23.2942505	559.0620117	24	18959.66602
	29	458.7471	794.3098755	3.396418	14.83398	4.73042631	4.600893021	0.011367196	9.030740738	216.7378	7.581495762	7.374251842	0.029918458	23.7665291	570.3967285	24	19063.43701
	30	466.8438	808.328125	3.388533	14.84807	4.68320894	4.565251827	0.011279142	9.119432449	218.8664	7.922994137	7.724139214	0.031338014	25.3327751	607.9865723	24	19399.875
	31	470.0522	813.8842163	3.41252	14.80522	3.40531135	3.311856508	0.008182427	6.652908802	153.0169	9.144124985	8.839380264	0.035862707	29.2042141	671.6968994	24	19533.22119
Sep 05	01	464.5908	804.4274902	3.424083	14.78456	3.65076303	3.538499117	0.008742388	7.027699471	168.6648	8.687704086	8.367799759	0.033949435	27.3212833	655.7108154	24	19306.25977
	02	466.4976	807.7289429	3.433493	14.76777	3.74440241	3.618556261	0.008940188	7.208496094	173.0039	8.649718285	8.308595657	0.033709228	27.2493954	653.9854736	24	19385.49463
	03	270.4507	624.3270264	2.63075	11.8473	3.65219331	3.680954933	0.009094357	7.056852818	127.0233	6.175806999	6.131272316	0.024875516	19.651825	353.7328186	17.80833	11118.22443
	04	469.1518	812.3239136	3.392793	14.84046	4.88798046	4.757953644	0.011755229	9.54993248	229.1984	7.972757339	7.764051437	0.031499941	25.5896416	614.1513672	24	19495.77393
	05	469.8073	813.4608154	3.402968	14.82228	5.23520231	5.081620216	0.012554904	10.21649551	245.1959	7.788970947	7.561283588	0.030677276	24.9573212	598.975708	24	19523.05957
	06	472.5273	818.1699829	3.417913	14.79559	4.47541523	4.33880949	0.010719677	8.76272583	210.3054	8.400266647	8.110761642	0.032906588	26.9351826	646.444397	24	19636.07959
	07	469.7553	812.4788208	3.378378	14.87545	5.02274609	4.917412281	0.012145175	9.872451782	236.9388	7.883194923	7.720428467	0.031312361	25.4442711	610.6624756	24	19499.4917
	08	471.7391	815.5731812	3.390758	14.85722	4.87510204	4.760442734	0.011755758	9.591238022	230.1897	7.980388165	7.793338299	0.03160359	25.7798252	618.7158203	24	19573.75635
	09	472.4147	816.7416992	3.411108	14.82095	4.75777149	4.617016792	0.011401546	9.312909126	223.5098	7.970372677	7.736270428	0.031372182	25.6255875	615.0140991	24	19601.80078
	10	474.2773	819.9619141	3.417468	14.80962	4.70943928	4.562105656	0.011265959	9.238772392	221.7305	8.022359848	7.771925449	0.031516775	25.8435211	620.2445068	24	19679.08594
	11	477.1483	824.9251709	3.411743	14.81983	4.72454357	4.58417654	0.011320466	9.340061188	224.1615	8.169101715	7.927046776	0.032145817	26.519146	636.4594727	24	19798.2041
	12	478.0191	826.4307861	3.410092	14.82277	5.02375221	4.87630558	0.012041862	9.955008507	238.9202	8.091996193	7.856286049	0.031858861	26.3300591	631.9213867	24	19834.33887
	13	476.5549	823.899231	3.401761	14.83762	5.6298008	5.478887558	0.013529917	11.1458559	267.5005	8.1403265	7.922300816	0.032126576	26.4713497	635.3123779	24	19773.58154
	14	474.5082	820.3607788	3.402841	14.83568	6.01772356	5.854521751	0.014457525	11.85767269	284.5841	8.014250755	7.797197342	0.031619243	25.9417171	622.6011963	24	19688.65869
	15	471.7332	815.5635986	3.406339	14.82945	6.04649973	5.876115322	0.014510871	11.8379631	284.1111	7.912501335	7.69067049	0.031187259	25.4394913	610.5477905	24	19573.52637
	16	472.8465	817.4873657	3.359744	14.9125	5.98937607	5.900233269	0.014570422	11.90834808	273.892	7.953430176	7.836885452	0.031780198	25.9689617	597.2860718	24	19619.69678
	17	473.3462	818.3516846	3.383446	14.87025	4.70085335	4.609642029	0.011383356	9.332811356	223.9875	7.893900394	7.725771904	0.031329595	25.6411915	615.3886108	24	19640.44043
	18	473.1347	817.986084	3.408311	14.82593	4.57732391	4.445301533	0.010977517	8.981435776	215.5545	7.933486462	7.706876278	0.031252977	25.5678082	613.6273804	24	19631.66602
	19	469.0688	810.956543	3.414352	14.81518	5.34871769	5.186135769	0.012806975	10.37843609	249.0825	7.764487267	7.528674603	0.030530337	24.7634621	594.3231201	24	19462.95703
	20	465.712	805.1524658	3.392302	14.85447	4.01941824	3.927135944	0.009697923	7.79720211	171.5385	8.426815987	8.218074799	0.033325996	26.8613129	590.9489136	24	19323.65918
	21	468.3107	809.6456909	3.391904	14.85518	4.20641232	4.124939919	0.010186395	8.235668182	197.656	8.031738281	7.830006123	0.0317523	25.7237911	617.3709717	24	19431.49658
	22	466.8381	807.0997925	3.426053	14.79432	3.72691655	3.620265484	0.008940128	7.197971344	172.7513	8.379437447	8.084436417	0.032784067	26.4828491	635.5883789	24	19370.39502
	23	464.956	803.8464355	3.414925	14.81415	3.78208327	3.679260731	0.009085808	7.290512085	174.9723	8.275143623	8.013019562	0.032494452	26.1383381	627.3201294	24	19292.31445
	24	476.9728	824.6211548	3.397755	14.84475	4.52422333	4.407806873	0.010884921	8.976973534	215.4474	8.243824959	8.032592773	0.03257383	26.8623657	644.6967773	24	19790.90771
	25	473.0603	817.8577881	3.406275	14.82957	4.53455734	4.407233715	0.010883499	8.906975746	213.7674	8.112980843	7.885455608	0.031977151	26.1585217	627.8045044	24	19628.58691
	26	468.9371	810.7283936	3.405767	14.83048	4.67175913	4.540942669	0.0112137	9.092616081	218.2228	7.773548603	7.556296349	0.030642346	24.8470707	596.3297119	24	19457.48145
	27	471.7474	815.5874023	3.410282	14.82242	4.48638439	4.355076313	0.010754713	8.773530006	210.5647	7.878637791	7.648833275	0.031017596	25.304945	607.3187256	24	19574.09766
	28	470.6622	813.7112427	3.376196	14.88317	3.9278717	3.859420061	0.009530707	7.743462086	185.8431	8.326023102	8.158194542	0.033083159	26.9355793	646.4539185	24	19529.06982
	29	467.1232	807.5939331	3.398518	14.84339	3.82214785	3.742948771	0.00924308	7.457924843	178.9902	8.31998539	8.093734741	0.032821778	26.518116	636.4348145	24	19382.25439
	30	466.1435	805.8981323	3.440236	14.76905	3.26061368	3.155615568	0.007792689	6.271042824	150.505	8.812512398	8.467407227	0.034337074	27.6858711	664.4608765	24	19341.55518
Oct 05	01	462.5966	799.7662964	3.409455	14.82389	4.15839863	4.03747654	0.009970408	7.976366043	191.4328	7.838891029	7.611955643	0.03086805	24.6904793	592.5714722	24	19194.39111
	02	466.5578	806.6153564	3.415624	14.81291	4.35299683	4.218989849	0.010418654	8.405083656	201.722	7.81854105	7.578444004	0.030732149	24.7909241	594.9821777	24	19358.76855
	03	479.0851	828.2736816	3.406276	14.82956	4.65570307	4.524570465	0.011173267	9.256770134	222.1625	8.234127045	8.003002167	0.032453828	26.881649	645.1596069	24	19878.56836
	04	481.2223	831.9689331	3.408376	14.82583	4.82454395	4.685751438	0.0115713	9.630518913	231.1325	8.289930344	8.052366257	0.032654032	27.1694584	652.0670166	24	19967.25439
	05	476.6126	823.9990234	3.388978	14.86039	4.49035978	4.385353088	0.010829465	8.931787491	214.3629	8.267196655	8.076032639	0.032749996	26.9880505	647.7131958	24	19775.97656
	06	474.3272	820.0473633	3.406531	14.82911	4.36810064	4.245695591	0.010484596	8.606207848	206.549	8.215367317	7.985435963	0.032382593	26.5636215	637.5269165	24	19681.13672
	07	469.22	811.2177734	3.410408	14.8222	4.03931999	3.920661211	0.009681939	7.859447956	188.6268	8.216478348	7.976229191	0.032345265	26.2438335	629.8519897	24	19469.22656
	08	478.5249	827.3048706	3.416323	14.81165	4.08924103	3.962473392	0.009785181	8.099282265	194.3828	8.462587357	8.201116562	0.033257212	27.5148048	660.3552856	24	19855.31689
	09	474.6431	820.5935669	3.434575	14.77913	3.96777678	3.824031591	0.00944331	7.752215385	186.0532	8.34064579	8.039361	0.032601282	26.7580452	642.1931152	24	19694.24561
	10	470.1537	812.8327026	3.426308	14.79388	3.8510828	3.720915318	0.009188673	7.47348547	179.3636	8.197719574	7.921074867	0.032121602	26.1136093	626.7266235	24	19507.98486
	11	470.019	812.5999756	3.418104	14.80848	3.7911458	3.671474218	0.009066576	7.372414589	176.938	8.205033302	7.947096825	0.032227129	26.1921749	628.6121826	24	19502.39941
	12	469.3102	811.3745728	3.416875	14.81068	4.02617788	3.900565863	0.009632312	7.81703186	187.6088	8.021194458	7.771664619	0.031515703	25.5753784	613.809082	24	19472.98975
	13	465.86	805.4089966	3.415178	14.8137	4.01404095	3.890940905	0.009608534	7.743826866	185.8519	7.890560627	7.649214268	0.031019146	24.9868908	599.6854248	23.99722	19327.57922
	14	466.2743	806.1260986	3.429677	14.78787	3.02881455	2.93240428	0.00724147	5.840135098	140.1632	8.845261574	8.529301643	0.034588095	27.8833008	669.1992188	24	19347.02637
	15	371.0734	733.1835938	3.060158	13.62179	6.50104427	8.515789986	0.021029413	12.85632133	269.9828	7.909072876	8.049478531	0.032642309	25.4353065	534.1414185	20.43333	14981.38411
	16	469.3653	811.4694824	3.439025	14.7712	3.5173738	3.386111736	0.008361885	6.786383152	162.8732	8.313619614	8.004058838	0.032458119	26.3421631	632.2119141	24	19475.26758
	17	468.3382	809.6931152	3.419249	14.80645	3.85648799	3.73695755	0.00922828	7.470491886	179.2918	8.140166283	7.878752232	0.031949971	25.8743286	620.9838867	24	19432.63477
	18	470.448	813.3408203	3.456323	14.74037	3.40735674	3.27867198	0.008096562	6.560499668	157.452	8.663222313	8.284614563	0.033595812	27.3619633	656.6870728	24	19520.17969

Unit 1 - CEMS Data

	19	473.1378	817.9909058	3.421411	14.8026	4.81421137	4.658411026	0.011503779	9.410090446	225.8422	7.759080887	7.507707596	0.030445324	24.9057674	597.7384033	24	19631.78174	
	20	468.8048	810.5007324	3.413843	14.81607	4.71659327	4.573083401	0.011293063	9.156085968	219.7461	7.644293785	7.413333416	0.030062601	24.3653259	584.7678223	24	19452.01758	
	21	473	817.7532349	3.428152	14.79059	3.80481672	3.692902565	0.009119491	7.439486027	178.5477	8.597728729	8.290673256	0.033620398	27.5151253	660.3629761	24	19626.07764	
	22	464.8215	803.6136475	3.413716	14.81631	4.49830818	4.362583637	0.010773246	8.659452438	207.8269	7.694851398	7.463048935	0.030264208	24.3232002	583.7567749	24	19286.72754	
	23	463.1509	800.725769	3.417087	14.8103	4.4544282	4.315373898	0.010656662	8.535023689	204.8406	7.677204132	7.438033104	0.03016277	24.153904	579.6937256	24	19217.41846	
	24	468.1787	809.4176025	3.441952	14.76599	3.72771049	3.59922576	0.008888162	7.182002068	172.368	8.460836411	8.127781868	0.032959845	26.6946964	640.6727295	24	19426.02246	
	25	470.6894	813.7588501	3.420457	14.80429	4.4789114	4.3351264	0.010705449	8.71241951	209.0981	7.821243286	7.570034504	0.030698067	24.9824047	599.5776978	24	19530.2124	
	26	472.698	817.230835	3.401189	14.83864	4.71897936	4.592354298	0.011340658	9.271050453	222.5052	7.949226856	7.737905502	0.031378809	25.6441116	615.4586792	24	19613.54004	
	27	476.1516	823.2011719	3.412825	14.8179	4.49671841	4.36128521	0.010770046	8.867190361	212.8126	8.161153793	7.917316437	0.032106359	26.4297714	634.3145142	24	19756.82813	
	28	478.3818	827.0578613	3.421348	14.80271	4.59958076	4.45043087	0.01099018	9.093345642	218.2403	8.213299751	7.94756794	0.032229025	26.6567173	639.7612305	24	19849.38867	
	29	476.9341	824.5546875	3.423254	14.7993	4.58988237	4.438916683	0.010961754	9.039432526	216.9464	8.119976044	7.852769852	0.031844612	26.2605915	630.2542114	24	19789.3125	
	30	473.882	819.2779541	3.424973	14.79625	4.62199736	4.467057705	0.011031237	9.041189194	216.9885	7.907731533	7.643464088	0.030995833	25.3968296	609.5239258	24	19662.6709	
	31	474.2688	819.9475708	3.406403	14.82934	5.20435858	5.057608128	0.012489583	10.2448349	245.876	7.726807594	7.509497643	0.030452566	24.971859	599.324585	24	19678.7417	
Nov 05	01	469.3214	811.3934937	3.409646	14.82355	3.81022334	3.712665796	0.009168295	7.447025299	178.7286	8.485162735	8.230283737	0.033375505	27.0810165	649.944397	24	19473.44385	
	02	471.1568	814.5662842	3.367398	14.89884	3.98948908	3.921806097	0.009684761	7.891312599	181.5002	8.190218925	8.051754951	0.032651544	26.5907612	611.5875244	24	19549.59082	
	03	478.9782	828.088562	3.387388	14.86323	4.47668743	4.374486446	0.010802647	8.947968483	214.7513	8.288022995	8.100792885	0.032850392	27.2025414	652.8610229	24	19874.12549	
	04	478.382	827.0578613	3.398453	14.84351	4.49656057	4.380057335	0.010816396	8.947697639	214.7448	8.254476547	8.04164505	0.032610528	26.9731464	647.3554688	24	19849.38867	
	05	478.3955	827.0814819	3.392284	14.8545	4.57477903	4.46433115	0.011024512	9.12011528	218.8828	8.176257133	7.979432583	0.032358244	26.7650242	642.3605957	24	19849.95557	
	06	474.4393	820.2420654	3.398136	14.84406	4.0960784	3.990927935	0.009855455	8.085873604	194.061	8.287386894	8.0747509	0.032744788	26.8593254	644.6237793	24	19685.80957	
	07	469.2258	811.2272339	3.406276	14.82957	3.86650419	3.757751942	0.009279635	7.532623768	180.783	8.174984932	7.945637226	0.032221209	26.142767	627.4263916	24	19469.45361	
	08	469.2969	811.3508301	3.410091	14.82277	3.78430867	3.673106194	0.009070608	7.363328934	176.7199	8.246685982	8.006495476	0.032467995	26.3427658	632.2263794	24	19472.41992	
	09	472.2061	816.3806152	3.327318	14.97029	3.93839121	3.920049191	0.009680428	7.906751633	181.8553	8.180487633	8.138519287	0.033003386	26.954443	619.9522095	24	19593.13477	
	10	472.1346	816.2571411	3.353238	14.92408	4.1450448	4.091926098	0.010104865	8.249438286	197.9865	8.071644783	7.972080231	0.032328434	26.38797	633.3112793	24	19590.17139	
	11	472.9617	817.6866455	3.392348	14.85439	4.37732077	4.271326065	0.010547894	8.626696587	207.0407	7.985793114	7.793566704	0.031604525	25.842659	620.2238159	24	19624.47949	
	12	461.5435	797.9472656	3.402141	14.83693	5.52868652	5.370484352	0.013262225	10.44314098	250.6354	7.971643925	7.757835388	0.031459626	25.1166668	602.7999878	24	19150.73438	
	13	472.3326	816.5990601	3.385098	14.86732	5.09068489	4.975365639	0.0122865	10.00667286	240.1602	7.926808357	7.752868176	0.031439483	25.6788368	616.2921143	24	19598.37744	
	14	472.541	816.960022	3.369709	14.89475	4.2933774	4.217960835	0.01041611	8.512541771	204.301	8.123633385	7.98148489	0.032366574	26.4443245	634.6638184	24	19607.04053	
	15	470.8462	814.02948	3.384209	14.86889	4.0191288	3.931090832	0.009707692	7.904743195	189.7138	8.147797585	7.97194767	0.032327913	26.3183784	631.6411133	24	19536.70752	
	16	472.6152	817.0884399	3.381332	14.87402	4.18795633	4.099377632	0.010123257	8.263360977	190.0573	8.076192856	7.907148361	0.032065134	26.1629696	601.748291	24	19610.12256	
	17	470.9642	814.2337646	3.385863	14.86595	4.07906723	3.987321377	0.009846545	8.02102375	192.5046	8.17625618	7.997449875	0.032431316	26.4078789	633.7891235	24	19541.61035	
	18	469.3597	811.4599609	3.395591	14.8486	4.0908308	3.987917185	0.009848019	7.995858669	191.9006	8.137782097	7.934515953	0.032176103	26.1103172	626.647583	24	19475.03906	
	19	471.4201	815.0222168	3.394575	14.85042	4.00625134	3.906358719	0.009646614	7.867176533	188.8122	8.35256958	8.147773743	0.033040904	26.9303341	646.3280029	24	19560.5332	
	20	467.6929	808.5770874	3.408819	14.82504	3.55123925	3.448560715	0.008516102	6.889243126	165.3418	8.368945122	8.128500938	0.032962747	26.6545963	639.7103271	24	19405.8501	
	21	468.7693	810.4388428	3.412318	14.8188	3.74519873	3.632900476	0.00897132	7.275269985	174.6065	8.416162491	8.166339874	0.033116203	26.8390198	644.1364746	24	19450.53223	
	22	470.4338	813.3170166	3.370662	14.89303	3.97763467	3.913046122	0.009663131	7.86246109	188.6991	8.323847771	8.173301697	0.033144429	26.9574203	646.9780884	24	19519.6084	
	23	460.3077	795.8099365	3.376831	14.88204	4.66381073	4.580962181	0.011312539	8.942646027	214.6235	8.232377052	8.071807861	0.032732844	26.0473213	625.1356812	24	19099.43848	
	24	470.1096	812.7566528	3.387771	14.86254	3.87174964	3.782819271	0.009341538	7.594587326	182.2701	8.376894951	8.186740875	0.033198927	26.9831715	647.5960693	24	19506.15967	
	25	469.0028	810.8425293	3.395402	14.84894	3.96570992	3.865105391	0.009544739	7.742713928	185.8251	8.249547958	8.044834137	0.032623466	26.4544086	634.9058228	24	19460.2207	
	26	465.7915	805.2902832	3.413334	14.81698	4.96667719	4.805673122	0.011867449	9.418036461	226.0329	8.541444778	8.287342072	0.033606887	27.1245918	650.9901733	24	19326.9668	
	27	470.7719	813.9013672	3.392349	14.85438	5.29958916	5.149552345	0.012716633	10.21386337	245.1327	8.708059311	8.500881195	0.034472831	28.0872288	674.0935059	24	19533.63281	
	28	468.756	810.4151611	3.373906	14.88725	4.94394302	4.841162682	0.01195508	9.573604584	229.7665	8.67705822	8.515269279	0.034531184	28.0007744	672.0186157	24	19449.96387	
	29	471.4754	815.1171875	3.383128	14.87082	4.34345913	4.252664089	0.010501806	8.549612045	205.1907	8.276893616	8.10090065	0.032850821	26.7792492	642.7020264	24	19562.8125	
	30	473.5276	818.6651611	3.394981	14.8497	4.18143129	4.076790333	0.010067498	8.241949081	189.5648	8.269629478	8.064406395	0.032702845	26.7654648	615.6057129	24	19647.96387	
Dec 05	01	454.7251	786.1588135	3.406466	14.82922	4.37477732	4.249111176	0.010493034	8.157335281	195.776	8.195016861	7.964630604	0.03229823	25.3889618	609.335083	24	18867.81152	
	02	474.761	820.7977295	3.413589	14.81654	4.16650677	4.038144588	0.009972066	8.201435089	196.8344	8.366401672	8.113759995	0.032902982	27.0115871	648.2780762	24	19699.14551	
	03	333.2996	727.8693237	2.969925	13.40721	8.48736191	12.58495998	0.031078067	17.4474678	331.5019	8.019048691	8.381703377	0.033989526	26.3915863	501.4401245	18.18333	13235.08989	
	04	486.0657	840.3425293	3.413524	14.81664	4.10736561	3.982657909	0.009835035	8.271615028	198.5188	8.703130722	8.440814018	0.034229238	28.7651291	690.3630981	24	20168.2207	
	05	467.2507	807.8121948	3.415751	14.81268	5.34855843	5.166834354	0.012759318	10.07448292	241.7876	8.560998917	8.29937458	0.033655673	27.2397423	653.7537842	24	19387.49268	
	06	465.0605	804.0268555	3.414607	14.81471	4.87510252	4.713216782	0.011639114	9.143305779	219.4393	8.714419365	8.451032639	0.034270689	27.6114159	662.6740112	24	19296.64453	
	07	462.4147	799.453064	3.412974	14.81763	4.27965117	4.141899586	0.010228276	7.998906136	191.9738	8.780344963	8.518715858	0.034545153	27.6648617	663.9567261	24	19186.87354	
	08	474.6595	820.6219482	3.423573	14.79875	3.33009052	3.21957159	0.00795062	6.525641918	156.6154	8.800110817	8.51063633	0.034512386	28.3231754	679.7562256	24	19694.92676	
	09	460.0935	795.4395752	3.442779	14.7645	4.35808468	4.179620743	0.010321423	8.097558975	194.3414	8.520298958	8.195251465	0.033233438	26.4709949	635.303894	24	19090.5498	
	10	474.6978	820.6885376	3.428533	14.7899	3.67047548	3.544108868	0.008752051	7.187787533	172.5069	8.629045486	8.332281113	0.033789132	27.7340908	665.6182251	24	19696.5249	
	11	467.0167	807.4086914	3.431395	14.7848	3.89909554	3.762068033	0.009290293	7.477347851	179.4563	8.59995079	8.29714489	0.033646636	27.1776581	652.2637939	24	19377.80859	
	12	470.1431	812.8136597	3.431331	14.78492	3.17969084	3.067752838	0.007575708	6.159883976	147.8372	8.752733231	8.445068359	0.034246504	27.8388042	668.1312866	24	19507.52783	
	13	473.4837	818.5893555	3.413538	14.81662	3.39400101	3.291211367	0.008127532	6.6437397	132.8748	8.814866066	8.549536705	0.034670152	28.3320408	566.6408081	24	19646.14453	
	14	472.0494	816.1098022	3.40583	14.83036	3.24916577	3.158303261	0.00779932	6.367324352	152.8158	8.844151497	8.597155571	0.034863248	28.4528828	682.8692017	24	19586.63525	
	15	476.0579	823.0395508	3.377803	14.88031	3.29653001	3.230022192	0.007976426	6.562647343	144.3782	9.123343468	8.943178177	0.036266446	29.8319492	656.3029175	24	19752.94922	
	16	478.1619	826.6777344	3.40812	14.82628	3.24360299	3.152375698	0.007784681	6.440661907	154.5759	9.394237518	9.126822472	0.037011161	30.6005383	734.4129028	24	19840.26563	
	17	471.6372	815.3973389	3.430696	14.78605	2.98763704	2.881742954	0.007116362	5.814576149	139.5498	9.13906765	8.81873703	0.035761818	29.1694241	700.0662231	24	19569.53613	
	18	459.0111	793.5681763	3.424845	14.79648	2.76474166	2.671735048	0.006597755	5.2373209	125.6957	8.401378632	8.122027397	0.03293651	26.1420631	627.4094849	24	19045.63623	
	19	464.22	802.5734863	3.431014	14.78548	3.63152504	3.504187107	0.008653467	6.945076466	166.6818	8.004076958	7.722681046	0.031317085	25.1371422	603.2913818	24	19261.76367	
	20	462.618	799.8042603	3.399534	14.84158	3.32373047	3.235988379	0.00799116	6.39771986	153.5453	8.164811134	7.951399803	0.032244574	25.7922173	619.0131836	24	19195.30225	

Unit 1 - CEMS Data

	21	465.2474	804.3498535	3.41645	14.81143	3.40846872	3.304132938	0.008159442	6.564984798	157.5596	8.294699669	8.036432266	0.032589395	26.2159672	629.1832275	24	19304.39648	
	22	464.1435	802.4403076	3.405133	14.8316	2.8448	2.771910429	0.006845136	5.486615658	126.1922	8.731981277	8.482837677	0.03439967	27.6051598	634.9187012	24	19258.56738	
	23	462.1979	799.0779419	3.425545	14.79523	3.63120794	3.509323359	0.008666151	6.926362991	166.2327	7.872597218	7.608991623	0.030856047	24.6585331	591.8048096	24	19177.87061	
	24	464.5879	803.2098999	3.425417	14.79546	3.46872449	3.351799965	0.008277155	6.650852203	159.6205	8.175621033	7.901710033	0.03204307	25.7382965	617.7191162	24	19277.0376	
	25	466.1154	805.850647	3.418041	14.8086	3.31466913	3.209990501	0.00792696	6.389574528	153.3498	8.355591774	8.093452454	0.03282062	26.4512501	634.8300171	24	19340.41553	
	26	469.4727	811.6547241	3.445703	14.7593	3.5908246	3.449952841	0.00851954	6.918774605	166.0506	8.250662804	7.927304268	0.032146856	26.0948906	626.2774048	24	19479.71338	
	27	476.7061	824.1605225	3.412889	14.81777	4.25347137	4.126076221	0.010189207	8.398833275	201.572	8.391679764	8.140156746	0.033010017	27.2067451	652.9619141	24	19779.85254	
	28	474.2224	816.4093628	3.384209	14.90057	4.39030409	4.317440987	0.010666335	8.706586838	208.9581	8.249812126	8.112508774	0.032911416	26.8760757	645.0258179	24	19593.82471	
	29	477.0412	819.9572754	3.401633	14.88148	4.1606245	4.078882694	0.010078432	8.266109467	198.3866	8.478328705	8.311045647	0.033722337	27.6521492	663.6516113	24	19678.97461	
	30	475.9259	818.0401611	3.411936	14.86325	3.91769719	3.828577042	0.009459958	7.744506836	185.8682	8.633177757	8.437818527	0.034236725	28.0092659	672.2224121	24	19632.96387	
	31	472.5961	812.3168945	3.448629	14.79834	3.689713	3.567457199	0.008814764	7.162384033	171.8972	8.387388229	8.111831665	0.032914028	26.7337246	641.609375	24	19495.60547	
Jan '06	01	481.1679	827.0499268	3.463065	14.7728	3.63295531	3.497495413	0.008641898	7.151109219	171.6266	8.505513191	8.1903162	0.033232484	27.4865494	659.6771851	24	19849.19824	
	02	480.6538	826.1668091	3.509616	14.69044	3.33899283	3.171872854	0.007837323	6.477873325	155.469	8.352252007	7.937307835	0.032205883	26.6084213	638.6021118	24	19828.00342	
	03	486.6871	836.5365601	3.496896	14.71293	4.16793871	3.975475788	0.009822927	8.218389511	197.2413	8.223633766	7.842141151	0.031819746	26.6190834	638.8579712	24	20076.87744	
	04	490.0161	842.2597656	3.448798	14.79804	4.79425526	4.635511398	0.011453792	9.648233414	221.9094	8.077187538	7.809501648	0.031687312	26.6892948	613.8538208	24	20214.23438	
	05	486.3051	835.880188	3.459631	14.77888	4.94823456	4.769907475	0.011785879	9.860990524	236.6638	7.847317696	7.564868927	0.030694705	25.6699829	616.0795898	24	20061.12451	
	06	485.1151	833.8356323	3.47375	14.7539	4.52899265	4.347476959	0.0107421	8.965044022	215.1611	8.061309814	7.738690853	0.031399995	26.1911373	628.5872803	24	20012.05518	
	07	379.4452	745.3774414	3.082664	13.45537	8.64185429	12.6959095	0.031370126	17.85474396	374.9496	7.449924946	7.628173828	0.030951567	24.4130077	512.6731567	20.16667	15031.77935	
	08	495.9372	852.435791	3.490856	14.72364	5.09608984	4.868019104	0.012028309	10.25618076	246.1483	8.07784462	7.716526508	0.031310059	26.6910839	640.5859985	24	20458.45898	
	09	493.9724	849.0595093	3.479409	14.74389	5.1135788	4.900278568	0.012108004	10.2858429	246.8602	8.108211517	7.770825863	0.031530384	26.7740746	642.5778198	24	20377.42822	
	10	490.6126	843.2843628	3.458613	14.78067	4.9315424	4.753834724	0.011746169	9.914134979	237.9392	8.259246826	7.963367462	0.032311622	27.2490788	653.9779053	24	20238.82471	
	11	494.162	849.385376	3.44135	14.81121	4.79208326	4.642591476	0.011471286	9.746904373	214.4319	8.339576721	8.080665588	0.032787573	27.8437138	612.5617065	24	20385.24902	
	12	490.165	842.5146484	3.461434	14.77569	4.58161688	4.413729668	0.010905794	9.189889908	220.5574	8.093531609	7.797622681	0.031639107	26.6562214	639.7493286	24	20220.35156	
	13	485.868	835.1293945	3.457807	14.7821	4.21176434	4.061200142	0.010034742	8.392508507	201.4202	8.278271675	7.983712196	0.032394189	27.0599995	649.4400024	24	20043.10547	
	14	487.717	838.307373	3.465418	14.76864	3.98494625	3.833958387	0.009473258	7.944095135	190.6583	8.342077255	8.027689934	0.032572608	27.307766	655.3864136	24	20119.37695	
	15	497.5574	855.2218628	3.463955	14.77122	4.71977425	4.542962551	0.01122513	9.605033875	230.5208	8.446053505	8.13105011	0.032992009	28.2153702	677.1688843	24	20525.32471	
	16	501.1318	861.3653564	3.45238	14.7917	5.38403368	5.197586536	0.012842624	11.06323147	232.3279	8.38130188	8.095119476	0.03284622	28.2619324	593.5006104	24	20672.76855	
	17	493.6674	848.5354004	3.432095	14.82759	4.91278172	4.771678448	0.011790249	10.01859951	240.4464	8.423477173	8.184365273	0.033208322	28.1798248	676.3157959	24	20364.84961	
	18	487.2834	837.5612183	3.449455	14.79688	4.29003906	4.146493912	0.010245491	8.583683968	206.0084	8.357181549	8.080972672	0.032788821	27.4641171	659.1387939	24	20101.46924	
	19	495.1841	851.1419678	3.472032	14.75694	4.85602283	4.663119316	0.011522016	9.811191559	235.4686	8.478009224	8.14253521	0.033038609	28.1209297	674.9022827	24	20427.40723	
	20	496.2555	852.9836426	3.454607	14.78776	5.04060411	4.864282131	0.01201905	10.25971985	246.2333	8.476099968	8.181484222	0.033196643	28.3193493	679.6644287	24	20471.60742	
	21	494.1702	849.3995972	3.448692	14.79823	4.8631773	4.700891495	0.011615347	9.875523567	237.0126	8.443350792	8.164216042	0.03312657	28.1370449	675.2891235	24	20385.59033	
	22	490.5194	843.1238403	3.45429	14.78833	4.59226847	4.432739258	0.010952765	9.240097046	221.7623	8.398516655	8.10781002	0.0328977	27.7380505	665.7131958	24	20234.97217	
	23	491.5912	844.9655762	3.451046	14.79406	4.77875662	4.61596632	0.011405503	9.6466856	231.5204	8.420298576	8.136148453	0.033012688	27.8981247	669.5549927	24	20279.17383	
	24	488.2059	839.1478271	3.374959	14.92866	4.20274162	4.149603844	0.010253184	8.597531319	189.1457	8.534867287	8.433688164	0.034219973	28.6730099	630.8062134	24	20139.54785	
	25	486.1022	835.5307617	3.414478	14.85875	4.05998898	3.967381716	0.009802926	8.19517231	196.6841	8.504401207	8.308416367	0.033711683	28.1705875	676.0941162	24	20052.73828	
	26	487.4781	837.8964844	3.437819	14.81746	4.47684526	4.342370033	0.010729491	8.99122715	215.7894	8.281188011	8.032546043	0.032592334	27.3096333	655.4312134	24	20109.51563	
	27	491.0306	844.0021973	3.426563	14.83737	4.63900948	4.513682365	0.011152769	9.418452263	226.0429	8.412824631	8.187261581	0.03322009	28.0377789	672.9066772	24	20256.05273	
	28	496.0411	852.6153564	3.445068	14.80464	4.8038764	4.649549961	0.0114885	9.800449371	235.2108	8.302967072	8.036934853	0.032610141	27.8065033	667.3560791	24	20462.76855	
	29	490.1429	842.4768677	3.445386	14.80408	4.44600296	4.303000927	0.010632207	8.961031914	215.0648	8.214254379	7.950676918	0.032260131	27.1824589	652.3790283	24	20219.44482	
	30	480.0519	825.1326904	3.421919	14.84559	4.18701649	4.079612732	0.010080239	8.322758675	199.7462	8.320774078	8.108942986	0.032902308	27.1482239	651.557373	24	19803.18457	
	31	480.5824	826.0440674	3.415179	14.85751	4.42994404	4.324959755	0.010686465	8.829993248	211.9198	8.482938766	8.283010483	0.033608582	27.7624035	666.2977295	24	19825.05762	
Total		341,519	577,956							151,130					446,125	17,302	13,778,182	
Average		468.4764	792.8060337	3.371482	14.77442	4.60691481	4.751373524	0.011652446	8.819345237	207.3113	8.159694686	8.009815989	0.032287032	25.7590334	611.9690894	23.66852	18848.40182	
Ann Avg.		170,760								75,565					223,063	8650.846	6,889,091	
																	6754.010652	mmscf/yr

Unit 2 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	Fuel Gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
Feb 04	01	478.6261	781.2696533	3.40087	14.90416	2.85393071	2.807310343	0.006933176	5.421177864	130.1083	9.17499733	9.028290749	0.036627837	28.6168633	686.8046875	24	18750.47168
	02	416.3572	709.1755981	3.152771	13.97852	2.20609784	2.212765217	0.005464834	4.056885242	93.30836	8.866028786	9.288897514	0.037685134	26.8441906	617.4163818	23	16311.03876
	03	328.4449	756.8776855	3.325523	14.72965	4.75674248	10.28675938	0.025405115	8.065446854	137.1126	8.942038536	9.085435867	0.036859687	27.5555763	468.4447937	16.77222	12694.52096
	04	483.1456	788.6464844	3.395578	14.9135	2.22434616	2.192439556	0.005414639	4.272006989	98.25616	8.866193771	8.738415718	0.035451822	27.9597569	643.0744019	24	18927.51563
	05	485.6347	792.7094116	3.393557	14.91706	2.49573827	2.461028814	0.006077968	4.820132732	115.6832	8.707901001	8.587028503	0.034837637	27.6182175	662.8372192	24	19025.02588
	06	483.563	789.328064	3.383127	14.93545	2.39255834	2.366475105	0.005844451	4.613758087	110.7302	8.735881805	8.641192436	0.03505737	27.6729507	664.1508179	24	18943.87354
	07	485.9116	793.1622314	3.368183	14.96179	2.66426301	2.646214485	0.006535319	5.187372208	124.4969	8.691206932	8.635540962	0.035034463	27.787199	666.8928223	24	19035.89355
	08	486.1266	793.5120239	3.371171	14.95653	2.68159199	2.662025928	0.006574367	5.220061302	125.2815	8.816645622	8.752029419	0.035507046	28.1762257	676.2294312	24	19044.28857
	09	484.6568	791.112854	3.379057	14.94263	2.77412033	2.746681213	0.00678344	5.364340782	128.7442	8.912991524	8.827103615	0.035811614	28.3313828	679.953186	24	18986.7085
	10	485.1072	791.8482666	3.363504	14.97004	2.6782949	2.664341211	0.006580091	5.212627888	119.8904	8.8332901	8.788500786	0.035655007	28.2368126	649.4467163	24	19004.3584
	11	483.4895	789.2070313	3.372125	14.95484	2.63914299	2.618916273	0.006467904	5.105573654	122.5338	8.872131348	8.805774689	0.035725083	28.1958923	676.701416	24	18940.96875
	12	482.7859	788.059082	3.385036	14.93208	2.7857275	2.753925323	0.006801329	5.361711979	128.6811	8.78500843	8.685376167	0.035236638	27.7690163	666.4564209	24	18913.41797
	13	485.2114	792.0187378	3.382555	14.93645	2.86935115	2.838345051	0.007009821	5.556230545	133.3495	8.831749916	8.737833023	0.03544946	28.0780792	673.8739014	24	19008.44971
	14	479.4393	782.5971069	3.39025	14.92288	2.17220592	2.143862963	0.005294668	4.145792007	99.49901	8.976427078	8.861104965	0.035949569	28.1308498	675.1403809	24	18782.33057
	15	478.3707	780.8527832	3.391585	14.92052	2.34677076	2.315097094	0.005717566	4.46541214	107.1699	8.82093811	8.704282761	0.035313338	27.5741501	661.7796021	24	18740.4668
	16	475.5874	776.3100586	3.41149	14.88545	2.42769384	2.381253004	0.005880944	4.566495895	109.5959	8.579759598	8.416930199	0.034147542	26.5098286	636.2359009	24	18631.44141
	17	475.8986	776.8167725	3.406848	14.89364	2.53230572	2.487638235	0.006143684	4.772830963	114.5479	8.565927505	8.414525986	0.034137782	26.521759	636.5222168	24	18643.60254
	18	474.5391	774.5968018	3.380965	14.93925	2.23659468	2.213562965	0.005466805	4.235523701	101.6526	8.666882515	8.57852459	0.03480313	26.9626408	647.1033936	24	18590.32324
	19	475.8017	776.65979	3.389741	14.92379	2.23563957	2.207136154	0.005450933	4.23398447	101.6156	8.770381927	8.658722878	0.035128497	27.2825584	654.7813721	24	18639.83496
	20	473.4999	772.9018555	3.397882	14.90944	2.05646539	2.025807142	0.005003108	3.866565943	92.79758	9.000909805	8.865011215	0.035965409	27.7981091	667.1546021	24	18549.64453
	21	472.8465	771.8345337	3.394193	14.91594	1.97522461	1.947709203	0.004810233	3.713773251	89.13056	9.111722946	8.983646393	0.036446698	28.131712	675.1611328	24	18524.02881
	22	470.1566	767.444397	3.40316	14.90013	1.91194797	1.880921245	0.004645288	3.564871311	85.55691	9.107587814	8.957453728	0.036340449	27.8891296	669.3391113	24	18418.66553
	23	471.904	770.2963867	3.44653	14.82365	2.08047175	2.020051956	0.004988896	3.843123436	92.23496	8.98993969	8.72927475	0.035414726	27.2797241	654.7133789	24	18487.11328
	24	475.2666	775.7853394	3.445577	14.82535	2.42435551	2.354801178	0.005815622	4.511568069	108.2776	8.757662773	8.506130219	0.034509432	26.7723713	642.5369263	24	18618.84814
	25	471.0742	768.9420776	3.371424	14.95609	2.18602395	2.169177294	0.005357188	4.119644165	94.75182	8.791043282	8.726621628	0.035403967	27.2211132	626.0855713	24	18454.60986
	26	473.9807	773.6865234	3.395275	14.91403	2.15312839	2.121661186	0.005239837	4.054192543	97.30062	8.922211647	8.795909882	0.035685074	27.6101208	662.6428833	24	18568.47656
	27	477.3598	779.2023315	3.400424	14.90496	2.29287505	2.256234646	0.005572193	4.34365797	104.2478	8.89470768	8.753767014	0.035514086	27.6728992	664.1495972	24	18700.85596
	28	479.0439	781.9511719	3.390505	14.92245	2.57125664	2.537773371	0.006267503	4.901897907	117.6456	8.783736229	8.66964817	0.03517282	27.5037327	660.0895996	24	18766.82813
	29	477.527	779.4758911	3.389869	14.92356	2.69001913	2.655881166	0.006559195	5.114787102	122.7549	8.719984055	8.608693123	0.034925524	27.225975	653.4234009	24	18707.42139
Mar 04	01	471.7422	770.0317993	3.381664	14.93804	2.25662637	2.233065367	0.005514971	4.248208523	101.957	8.820939064	8.729341507	0.035415009	27.2709503	654.5028076	24	18480.76318
	02	470.3683	767.7896729	3.398029	14.90917	1.95084667	1.920561314	0.004725273	3.629628658	87.11109	9.079924583	8.943039894	0.036167316	27.7703838	666.4891968	24	18426.95215
	03	473.2938	772.5655518	3.375369	14.94911	2.51609039	2.493513823	0.006068884	4.693745613	112.6499	8.654005051	8.579076767	0.034288459	26.4950085	635.880188	24	18541.57324
	04	475.9945	776.9736328	3.378039	14.94442	2.76521826	2.739337206	0.006667189	5.181774139	124.3626	8.64430809	8.563628197	0.034226712	26.5941372	638.2592773	24	18647.36719
	05	476.8518	778.3728027	3.391522	14.92066	3.06315613	3.022240877	0.007355739	5.72505188	137.4012	8.342555046	8.23281765	0.032904554	25.613266	614.7183838	24	18680.94727
	06	472.8217	771.7941895	3.388405	14.92614	2.88175297	2.84675622	0.006928634	5.350087643	128.4021	8.060198784	7.960856438	0.031817582	24.5594044	589.4257202	24	18523.06055
	07	465.6701	760.1212769	3.394258	14.91584	2.63548756	2.59890461	0.006325397	4.811907291	115.4858	7.921085835	7.8098526	0.031214058	23.730587	569.5341187	24	18242.91064
	08	463.0441	755.8342896	3.389487	14.92424	2.6505909	2.617251158	0.006370049	4.813611507	115.5267	7.815361977	7.716300011	0.030840162	23.3142624	559.5422974	24	18140.02295
	09	463.4012	756.4172974	3.38548	14.9313	2.82928824	2.796665907	0.006806719	5.150244713	123.6059	7.794852257	7.705528736	0.030797103	23.2978916	559.1494141	24	18154.01514
	10	460.7854	752.1480713	3.406594	14.89407	2.65599537	2.60905242	0.006350094	4.77633667	114.6321	7.845249653	7.707928181	0.030806692	23.1741714	556.1801147	24	18051.55371
	11	462.3188	754.6503906	3.379628	14.94162	2.69049501	2.662938356	0.006481247	4.892673492	117.4242	7.953042984	7.874584198	0.031472772	23.754055	570.09729	24	18111.60938
	12	403.2885	658.2943726	3.005954	13.42333	2.72451878	3.793259621	0.009232283	4.648972988	111.5753	7.47497654	7.79582119	0.031158004	21.7604542	522.2509155	23.25	15305.34416
	13															0	0
	14															0	0
	15															0	0
	16															0	0
	17															0	0
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	26															0	0
	27															0	0
	28															0	0
	29															0	0
	30															0	0

Unit 2 - CEMS Data

	31	191.6237	750.6107788	3.296703	14.56533	4.82524681	6.440495968	0.015675362	8.319828033	83.19828	8.013961792	8.386581421	0.033519112	24.1274605	241.2745972	9.869444	7408.110967
Apr 04	01	487.2942	795.4179077	3.415878	14.87769	1.75184917	1.715346217	0.004174928	3.324414253	79.78594	8.057495117	7.89612627	0.031558871	25.1000175	602.4003906	24	19090.02979
	02	495.3764	808.6109009	3.458805	14.80203	1.95360172	1.889241219	0.004598169	3.719838381	89.27612	8.224429131	7.959949017	0.031813964	25.7214489	617.3148193	24	19406.66162
	03	492.3133	803.6108398	3.481888	14.76132	2.1650517	2.080531597	0.005063742	4.070360184	97.68865	7.741751194	7.440721512	0.029738734	23.8995171	573.5883789	24	19286.66016
	04	470.6213	801.6022949	3.465919	14.78947	2.12978435	2.055677891	0.005003254	4.011764526	92.27058	7.662777424	7.398698807	0.029570783	23.7047176	545.2084961	24	19238.45508
	05	492.5547	804.0055542	3.474003	14.77522	2.18842173	2.107844114	0.005130219	4.125599861	99.0144	7.673228741	7.391751766	0.029543009	23.7536163	570.086792	24	19296.1333
	06	494.8459	807.7456055	3.468853	14.7843	2.26664305	2.186478376	0.005321602	4.299378395	103.1851	7.677363873	7.406769276	0.029603034	23.9127884	573.9069214	24	19385.89453
	07	493.6703	805.8261108	3.445387	14.82568	2.22641993	2.162195921	0.005262503	4.242248058	101.8139	7.686425209	7.46585083	0.029839175	24.045908	577.1018066	24	19339.82666
	08	490.3347	800.3822021	3.462748	14.79507	2.22482991	2.149953365	0.005232704	4.190435886	100.5705	7.488012314	7.237107277	0.028924942	23.1550865	555.7221069	24	19209.17285
	09	481.4013	785.7989502	3.471522	14.77959	1.95344329	1.882236719	0.004581118	3.601102114	86.42645	7.352398872	7.08698225	0.028324913	22.2601871	534.2445068	24	18859.1748
	10	480.8101	784.8347778	3.459822	14.80024	1.89414215	1.831227541	0.004456969	3.498490095	83.96376	7.43348217	7.190970898	0.028740546	22.5580883	541.394104	24	18836.03467
	11	484.3431	790.6016846	3.451428	14.81504	1.92291665	1.864481211	0.004537904	3.587692976	86.10463	7.649540901	7.416699409	0.029642725	23.4366951	562.4807129	24	18974.44043
	12	486.1236	793.5075684	3.450473	14.81672	1.98682952	1.926717043	0.004689378	3.721204519	89.30891	7.598665714	7.368908405	0.029451717	23.3740997	560.9783936	24	19044.18164
	13	490.7254	801.0189209	3.486148	14.75381	2.04024839	1.958341599	0.004766346	3.818495512	91.64389	7.663054943	7.356239796	0.029401083	23.5517635	565.2423096	24	19224.4541
	14	493.7117	805.8934937	3.461984	14.79642	2.08253837	2.01304841	0.004899498	3.948830843	94.77194	7.727443695	7.469467163	0.029853625	24.059576	577.4298096	24	19341.44385
	15	491.4979	802.2789307	3.474385	14.77457	2.0647316	1.988448381	0.004839626	3.884986162	93.23967	7.702005386	7.41876936	0.029650996	23.7892284	570.9415283	24	19254.69434
	16	492.9723	804.6872559	3.47623	14.77131	1.95264745	1.879522085	0.004574512	3.681650877	88.35962	7.87816143	7.584469318	0.030313246	24.3924713	585.4193115	24	19312.49414
	17	492.7032	804.2476196	3.481061	14.76277	1.8818996	1.808635354	0.004401982	3.540756226	84.97815	7.94652462	7.640374184	0.0305367	24.558279	589.3986816	24	19301.94287
	18	496.3898	810.2658081	3.485831	14.75438	2.16393876	2.077289581	0.00505585	4.096865654	98.32478	7.706138611	7.39824295	0.029568957	23.9587536	575.0100708	24	19446.37939
	19	492.8322	804.4584351	3.479346	14.76581	2.06648159	1.98716712	0.004836502	3.892908812	93.42981	7.586582184	7.297457695	0.029166138	23.4623089	563.0953979	24	19307.00244
	20	487.8103	796.2609863	3.463637	14.79351	1.98810208	1.920704961	0.004674747	3.722856283	89.34855	7.545087337	7.289873123	0.029135838	23.1997662	556.7943726	24	19110.26367
	21	491.3298	802.0055542	3.454395	14.8098	2.0656321	2.000988245	0.004870145	3.908166647	93.796	7.55722332	7.321107864	0.029260671	23.46772	563.2252808	24	19248.1333
	22	494.0746	806.4853516	3.471395	14.77982	2.03182197	1.957997918	0.004765509	3.844516993	92.26841	7.698825836	7.423113346	0.029668363	23.9270916	574.2501831	24	19355.64844
	23	494.4231	807.0549316	3.445894	14.8248	2.28126955	2.214857578	0.005390671	4.351176262	104.4282	7.483243942	7.267836571	0.029047757	23.4442501	562.6619873	24	19369.31836
	24	492.0798	803.2297363	3.434576	14.84474	2.33913875	2.278280735	0.005545037	4.456875324	106.965	7.38260603	7.192370892	0.028746137	23.0961342	554.3071899	24	19277.51367
	25	485.6542	792.7407837	3.433684	14.84632	2.30002999	2.240672112	0.005453505	4.325538158	103.8129	7.187690735	7.004109383	0.0279937	22.1957874	532.6989136	24	19025.77881
	26	483.8184	789.7452393	3.42122	14.86828	2.49335456	2.438405514	0.005934758	4.68719244	112.4926	6.932837963	6.781045914	0.027102174	21.4082699	513.7985229	24	18953.88574
	27	482.1048	786.9468994	3.420202	14.87008	2.51529455	2.460009575	0.005987342	4.712153912	113.0917	6.961932182	6.812744141	0.027228871	21.4298286	514.315918	24	18886.72559
	28	484.3326	790.5838623	3.385162	14.93185	2.13929534	2.112805367	0.005142295	4.069093227	97.65824	7.52918911	7.444180489	0.029752551	23.5199203	564.4780884	24	18974.0127
	29	490.6652	800.9202271	3.43661	14.84116	2.01846743	1.965062499	0.00478271	3.831284523	91.95083	7.786903858	7.584245205	0.030312363	24.2771492	582.6516113	24	19222.08545
	30	492.9368	804.6289063	3.454479	14.80966	2.09207702	2.025327444	0.004929384	3.966163397	95.18792	7.625534058	7.387373924	0.029525526	23.7584991	570.2039795	24	19311.09375
May 04	01	487.8246	796.2833862	3.428025	14.85629	2.36966467	2.313036203	0.005629628	4.482849121	107.5884	7.202954292	7.030347347	0.028098566	22.3808918	537.1414185	24	19110.80127
	02	482.7278	787.9649048	3.42777	14.85674	2.34565783	2.289314508	0.005571891	4.391317368	105.3916	7.012012959	6.845794678	0.027360959	21.5645466	517.5490723	24	18911.15771
	03	479.6759	782.9827881	3.42885	14.85484	2.29398656	2.238149166	0.005447366	4.266326427	102.3918	7.011059761	6.843017578	0.027349867	21.4170074	514.0081787	24	18791.58691
	04	483.4476	789.1398315	3.422937	14.86526	2.45996881	2.404578686	0.005852432	4.61725378	110.8141	7.134271622	6.975286484	0.027878508	22.0060215	528.1445313	24	18939.35596
	05	487.5691	795.866333	3.399625	14.90636	2.48126388	2.441375971	0.00594199	4.726214409	108.7029	7.265068054	7.15147543	0.028582692	22.7358208	522.9238892	24	19234.13818
	06	490.9723	801.4224243	3.424526	14.86247	2.50114417	2.443347454	0.005946789	4.766113281	114.3867	7.297708035	7.132410049	0.028506488	22.8497963	548.3950806	24	19247.91797
	07	491.3246	801.996582	3.445641	14.82523	2.57125616	2.496531248	0.006076232	4.874367237	116.9848	7.251761436	7.042659283	0.028147787	22.5808296	541.9398804	24	19294.97797
	08	340.2528	701.505188	3.021576	13.55621	3.00397253	3.825299501	0.009310274	5.471549988	103.9594	7.395762444	8.286243439	0.033118073	22.507637	427.6451111	18.60556	13051.8944
	09	490.4399	800.5526123	3.424527	14.86246	2.4195857	2.364014626	0.005753702	4.606620789	110.5589	7.351443768	7.183697701	0.028711487	22.9872742	551.6945801	24	19213.2627
	10	498.0496	812.9743652	3.450347	14.81693	2.38015699	2.308642149	0.005618931	4.568013191	109.6323	7.697077274	7.46513176	0.029836304	24.2573872	582.1773071	24	19511.38477
	11	495.5796	808.9429321	3.439599	14.83589	2.23532414	2.174212456	0.00529175	4.28249836	102.78	7.741909981	7.532679081	0.030106271	24.3535252	584.4846191	24	19414.63037
	12	495.9833	809.6020508	3.447039	14.82277	2.45090532	2.379108429	0.005790437	4.68888855	112.5333	7.635392666	7.412648678	0.029626537	23.9862881	575.6708984	24	19430.44922
	13	491.5964	802.4404297	3.445259	14.8259	2.58047795	2.505871296	0.006098966	4.895904064	117.5017	7.398026943	7.185642719	0.02871925	23.0512047	553.2288818	24	19258.57031
	14	489.0166	798.2296753	3.44068	14.83398	2.54073119	2.470616341	0.006013157	4.800617695	115.2148	7.310903072	7.110438347	0.028418675	22.6884422	544.522583	24	19157.51221
	15	488.0743	796.6915283	3.441315	14.83284	2.5086174	2.439066172	0.005936367	4.730585575	113.534	7.329823494	7.127929688	0.028488588	22.6973629	544.7366943	24	19120.59668
	16	487.6673	796.027832	3.443733	14.8286	2.3397758	2.273000002	0.005532188	4.405891418	105.7414	7.402796745	7.193384171	0.028750187	22.889904	549.357666	24	19104.66797
	17	492.9366	804.6287842	3.452446	14.81324	2.31179333	2.240578651	0.005453276	4.388564587	105.3256	7.601210594	7.367781639	0.02944722	23.6952286	568.6854858	24	19311.09082
	18	494.1981	806.6871338	3.427763	14.85675	2.49658251	2.436636448	0.005930454	4.784067631	110.0336	7.399997711	7.224184036	0.028873291	23.282465	535.4967041	24	19360.49121
	19	491.9564	803.0278931	3.434575	14.84475	2.38985634	2.3276999	0.005665318	4.551280499	109.2307	7.349219799	7.161227703	0.028621675	22.9859924	551.6638184	24	19272.66943
	20	491.0164	801.4942627	3.464911	14.79127	2.28365326	2.205343723	0.005367521	4.303171158	103.2761	7.281173706	7.032464504	0.028107034	22.53018	540.7243042	24	19235.8623
	21	493.1598	804.9920654	3.463192	14.79429	2.25964785	2.182831287	0.005312727	4.278389454	102.6814	7.32982254	7.082858562	0.028308442	22.7888832	546.9332275	24	19319.80957
	22	490.0743	799.9562378	3.465863	14.78958	2.25344753	2.175044537	0.005293773	4.23673439	101.6816	7.203906536	6.955586433	0.027799759	22.2420502	533.8092041	24	19198.94971
	23	488.8795	798.0054321	3.458359	14.80282	2.13818288	2.068566322	0.005034622	4.018510818	96.44426	7.290554047	7.054787636	0.028196245	22.5024338	540.0584106	24	19152.13037
	24	492.055	803.1893921	3.475084	14.77332	2.12530541	2.046468258	0.004980839	4.000873566	96.02096	7.403911114	7.129693508	0.028495634	22.890583	549.3740234	24	19276.54541
	25	491.4261	802.1625366	3.476483	14.77084	2.12021804	2.040759563	0.004966943	3.985310793	95.64746	7.320920467	7.046946526	0.028164908	22.6013832	542.4332275	24	19251.90088
	26	484.8903	791.4941406	3.436517	14.84134	2.18658686	2.130339622	0.005184969	4.102004528	90.2441	7.031913757	6.846056938	0.027362	21.6575356	476.4657898	24	18995.85938
	27	480.3712	784.1171875	3.436165	14.84192	2.3483603	2.286654234	0.005565417	4.363558292	104.7254	6.823775768	6.646079063	0.026562747	20.831913	499.9658813	24	18818.8125
	28	483.2827	788.8707886	3.458995	14.80169	2.25026655	2.17685617	0.005298194	4.17986536	100.3168	6.919008255	6.693927765	0.026753996	21.1065083	506.5562134	24	18932.89893
	29	490.5221	800.6870117	3.463193	14.79429	2.31863093	2.240504265	0.005453096	4.36594677	104.7827	7.191188335	6.948688984	0.027772205	22.2403164	533.7675781	24	19216.48828
	30	484.4839	790.8304443	3.447612	14.82175	2.52642298	2.45248127	0.005969021	4.719459534	113.267	6.880692959	6.67808342	0.026690666	21.1131706	506.716095	24	18979.93066
	31	480.3876	784.144104	3.434385	14.84508	2.52531004	2.460488796	0.005988506	4.695456505	112.691	6.806446075	6.6320014	0.026506474	20.7887383	498.9296875	24	18819.4585
Jun 04	01	479.6595	782.9559937	3.444621	14.82702	2.45551658	2.385432959	0.005805834	4.545866966	109.1008	6.91217041	6.715335369	0.026839545	21.0155373	504.3728943	24	18790.94385

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	02	479.1321	782.0947266	3.432142	14.84904	2.48148513	2.419405699	0.005888516	4.602588177	105.8595	6.864980698	6.693026066	0.026750362	20.9114513	480.9634094	24	18770.27344
	03	478.4529	780.9871826	3.439725	14.83565	2.5772984	2.506925821	0.006101531	4.765939713	114.3826	6.778464317	6.594996452	0.026358578	20.5890045	494.1361084	24	18743.69238
	04	482.8982	788.242981	3.425862	14.86011	2.79574418	2.730937004	0.006646747	5.239526749	125.7486	6.83204174	6.67332077	0.026671613	21.0251827	504.6044006	24	18917.83154
	05	362.7915	676.6657104	2.944356	13.22091	4.53968906	7.322258949	0.017821483	7.957130432	167.0997	6.920642853	7.611292362	0.030420452	20.955761	440.0709839	19.84722	13429.93415
	06	480.5031	784.3325195	3.438837	14.83723	2.68938255	2.616780758	0.006368905	4.995929718	119.9023	6.970358849	6.782874584	0.027109496	21.2668495	510.4043884	24	18823.98047
	07	487.915	796.4313354	3.439027	14.8369	2.41942739	2.353856325	0.005728978	4.563878059	109.5331	7.455580235	7.254960537	0.028996293	23.0952454	554.2858887	24	19114.35205
	08	493.8566	806.1311035	3.423445	14.86435	2.4629879	2.407038689	0.005858419	4.724048138	113.3772	7.675931931	7.502883434	0.029987182	24.1747952	580.1951294	24	19347.14648
	09	495.9039	809.4719849	3.463001	14.79461	2.64836407	2.55857873	0.006227247	5.041566849	120.9976	7.557648182	7.304906845	0.029195921	23.6356258	567.2550049	24	19427.32764
	10	490.6373	800.8755493	3.457214	14.80482	2.72356415	2.635804892	0.006415203	5.138888359	123.3333	7.252714634	7.020103455	0.028057629	22.4726334	539.3432007	24	19221.01318
	11	487.6592	796.0144043	3.443224	14.82948	2.67411947	2.597907066	0.006322968	5.034222126	120.8213	7.182444096	6.981195927	0.027902124	22.2137413	533.1298218	24	19104.3457
	12	488.1429	796.8036499	3.440235	14.83476	2.61275172	2.540894508	0.006184207	4.928757668	118.2902	7.194050789	6.997888565	0.027968833	22.2871132	534.890686	24	19123.2876
	13	483.764	789.6555176	3.452064	14.81392	2.81927299	2.732278347	0.006650007	5.253666878	126.088	6.891662598	6.680706501	0.026701158	21.091217	506.189209	24	18951.73242
	14	479.9804	783.4805298	3.44456	14.82714	2.78763413	2.707483292	0.006589661	5.164659977	123.9518	6.780055046	6.58688736	0.026326176	20.6286449	495.0874939	24	18803.53271
	15	476.3515	777.5566406	3.446657	14.82344	2.71481967	2.63487196	0.006412935	4.987643242	119.7034	6.770038128	6.573969841	0.026274551	20.4326954	490.3847046	24	18661.35938
	16	476.3268	777.5162964	3.435924	14.84236	2.74310565	2.671703815	0.006502575	5.054006577	116.2421	6.780870914	6.603891373	0.026394127	20.5162792	471.8743896	24	18660.39111
	17	478.9015	781.7182007	3.456197	14.80663	2.71132207	2.624822855	0.006388477	4.993868351	119.8528	6.768289089	6.553281784	0.026191862	20.4790707	491.4977112	24	18761.23682
	18	479.8768	783.3100586	3.45715	14.80495	2.77110076	2.681689262	0.006526882	5.114233971	122.7416	6.722502232	6.507096291	0.026007263	20.3770618	489.0494995	24	18799.44141
	19	479.5794	782.8258057	3.447865	14.82131	2.76569462	2.684143305	0.006532854	5.113693714	122.7287	6.625839233	6.430894375	0.025702696	20.126421	483.0341187	24	18787.81934
	20	480.1946	783.8302612	3.434766	14.84442	2.80559993	2.731983423	0.006649289	5.213520527	125.1245	6.783869743	6.610390663	0.026420109	20.7089672	497.0151978	24	18811.92627
	21	479.0142	781.9020386	3.431649	14.84989	2.64343619	2.577176332	0.006272512	4.905670166	117.7361	6.858910084	6.688825607	0.026733592	20.9047546	501.7141113	24	18765.64893
	22	479.1349	782.0991821	3.470251	14.78185	2.40320992	2.323785067	0.005655787	4.4190588	106.0574	7.268931866	7.002580643	0.027987592	21.9032784	525.6787109	24	18770.38037
	23	477.085	778.7539673	3.446551	14.82362	2.84381008	2.760669947	0.006719111	5.234040737	125.617	6.608032703	6.416039944	0.025643341	19.9705753	479.2937927	24	18690.09521
	24	481.1184	785.3370361	3.447675	14.82165	2.9525032	2.864888668	0.006972764	5.477807045	131.4674	6.686412811	6.49014616	0.025939524	20.372858	488.9486084	24	18848.08887
	25	483.4344	789.1173706	3.445959	14.82468	2.88413882	2.799996614	0.006814825	5.379900932	129.1176	6.768608093	6.573101521	0.026271075	20.7317295	497.5614929	24	18938.81689
	26	479.5605	782.7943115	3.438835	14.83723	2.68238759	2.610427618	0.00635344	4.973207951	119.357	6.662723541	6.483602524	0.025913371	20.2875423	486.901001	24	18787.06348
	27	480.3351	784.059021	3.440616	14.83409	2.63771343	2.56477499	0.006242326	4.89522934	117.4855	6.852392673	6.665059566	0.026638605	20.8894043	501.3457031	24	18817.4165
	28	478.0904	780.3952637	3.449456	14.8185	2.60337114	2.525008678	0.006145541	4.797428131	115.1383	6.765586376	6.563673019	0.026233396	20.4751835	491.4043884	24	18729.48633
	29	479.0912	782.0274658	3.462175	14.79608	2.38524532	2.305086613	0.005610283	4.389849663	105.3564	6.804378986	6.57703352	0.026286788	20.5616035	493.4785156	24	18768.65918
	30	479.3409	782.4356079	3.45041	14.81683	2.45456219	2.380972147	0.005794974	4.532873154	108.789	6.740784645	6.537026882	0.026126878	20.4475002	490.7399902	24	18778.45459
Jul 04	1	478.3603	780.8347168	3.453716	14.81099	2.70989084	2.624820471	0.006388471	4.989423275	119.7462	6.609304428	6.404421329	0.025596892	19.9902039	479.7648926	24	18740.0332
	2	473.6894	773.2112427	3.467581	14.78655	2.89558578	2.793688774	0.006799475	5.258922577	126.2141	6.354611397	6.133005619	0.024512121	18.9574699	454.9793091	24	18557.06982
	3	355.0607	662.2438354	2.966815	13.18132	4.4857254	7.934113503	0.019310588	7.616897583	159.9548	6.291061878	6.911808968	0.027624801	18.5419712	389.3814087	20.10556	13314.78084
	4	478.1263	780.4536133	3.456706	14.80572	2.69097161	2.604436636	0.006338859	4.947894573	118.7495	6.75080061	6.535550117	0.026120987	20.3894291	489.3463135	24	18730.88672
	5	475.0578	775.444397	3.465736	14.7898	2.90528369	2.804389477	0.006825515	5.293780804	127.0507	6.530448437	6.305871964	0.025203029	19.5460243	469.1045837	24	18610.66553
	6	479.11	782.05896	3.489456	14.74797	2.5544045	2.455664158	0.005976768	4.664030552	111.9367	7.265275478	6.959739685	0.027816383	21.7774258	522.6582031	24	18769.41504
	7	479.2059	782.2158203	3.46154	14.7972	2.4685452	2.391011	0.005819409	4.542845726	104.4855	7.28785181	7.038055897	0.028129375	22.0316658	506.728302	24	18773.17969
	8	479.4781	782.65979	3.443987	14.82814	2.62292719	2.548090458	0.006201719	4.853991032	116.4958	6.896431446	6.701562881	0.026784496	20.966259	503.1901855	24	18783.83496
	9	478.8378	781.6150513	3.468343	14.78521	2.70909619	2.612825394	0.006359274	4.970261574	119.2863	6.806922436	6.568653584	0.026253296	20.5299244	492.7182007	24	18758.76123
	10	478.3019	780.7406616	3.459823	14.80023	2.77062416	2.679391146	0.006521287	5.091081619	122.186	6.680847645	6.461732864	0.025825949	20.1748829	484.1972046	24	18737.77588
	11	474.3875	774.3502197	3.449646	14.81817	2.86728573	2.780126333	0.006766464	5.241971016	125.8073	6.498016357	6.303870201	0.025195017	19.5109119	468.2619019	24	18584.40527
	12	473.6293	773.1126099	3.450345	14.81693	2.83882785	2.752834082	0.00670004	5.181891441	124.3654	6.5962677	6.398476124	0.025573138	19.7741833	474.5804138	24	18554.70264
	13	477.588	779.574585	3.459568	14.80069	2.64741135	2.562930107	0.006237837	4.861118793	116.6669	6.902950287	6.673614502	0.026672799	20.8022709	499.2545166	24	18709.79004
	14	476.267	777.4176025	3.43589	14.84242	2.91477036	2.83850956	0.006908562	5.371907234	128.9258	6.555408955	6.384171963	0.025515972	19.8395615	476.1495056	24	18658.02246
	15	476.1046	777.1530762	3.443033	14.82983	2.80051279	2.720445871	0.006621213	5.148564339	123.5656	6.587206841	6.403065681	0.025591483	19.8879662	477.3112183	24	18651.67383
	16	475.7997	776.6552734	3.470568	14.78129	2.34645367	2.265566111	0.00551409	4.277086735	102.6501	7.027434349	6.770424366	0.027059721	21.0332661	504.7984009	24	18639.72656
	17	471.0825	768.9557495	3.456196	14.80663	2.72515368	2.637928009	0.006420374	4.938358307	118.5206	6.421544075	6.218287468	0.024852963	19.1115284	458.6766968	24	18454.93799
	18	470.7221	768.368042	3.456005	14.80695	2.75583792	2.667918444	0.006493364	4.990728378	119.7775	6.359063148	6.157580853	0.024610342	18.9098625	453.8367004	24	18440.83301
	19	472.8483	771.8391113	3.471333	14.77994	2.55424547	2.464970827	0.005999415	4.624113083	110.9787	6.770675182	6.522998333	0.026070816	20.1394215	483.3460999	24	18524.13867
	20	472.8297	771.8078003	3.47998	14.7647	2.56998467	2.476629496	0.006027791	4.645022869	111.4806	6.792932034	6.525747299	0.026081808	20.1489334	483.5744019	24	18523.38721
	21	472.1101	770.6328125	3.478983	14.76644	2.49632072	2.405475378	0.005854612	4.500173092	108.0042	7.025898457	6.752368927	0.026987551	20.8241005	499.7784119	24	18495.1875
	22	474.8052	775.0319214	3.496643	14.73532	2.10845327	2.02677536	0.004932906	3.81287837	91.50908	7.608998775	7.27142477	0.0290621	22.5462742	541.1105957	24	18600.76611
	23	474.7937	775.0140381	3.500459	14.72859	2.07713175	1.9923563	0.004849134	3.742161751	89.81188	7.708683491	7.359885693	0.029415658	22.8371754	548.0922241	24	18600.33691
	24	467.0137	762.3141479	3.458932	14.8018	2.98270822	2.885066748	0.007021876	5.353754997	128.4901	6.210253716	6.008700371	0.024015293	18.3080578	439.3934021	24	18295.53955
	25	466.5468	761.5518188	3.44812	14.82087	3.09908628	3.006925344	0.007318463	5.575348854	133.8084	6.113909721	5.933781147	0.023715867	18.0615788	433.4779053	24	18277.24365
	26	473.2913	772.5610352	3.474577	14.77423	2.36235166	2.283179522	0.00555696	4.28136158	102.7527	7.325849056	7.046086311	0.028161479	21.7833748	522.8010254	24	18541.46484
	27	477.2556	779.0321045	3.466371	14.78869	2.34597635	2.271496773	0.005528527	4.299722195	103.1933	7.49341774	7.225348949	0.028877942	22.5164204	540.394104	24	18696.77051
	28	477.6399	779.6598511	3.461834	14.79668	2.45784783	2.381736994	0.005796839	4.515184402	108.3644	7.392621517	7.138576508	0.028531151	22.2590542	534.2172852	24	18711.83643
	29	476.8351	778.3457642	3.474765	14.77388	2.32832885	2.249947548	0.00547608	4.255387783	102.1293	7.471637249	7.185823917	0.028719971	22.3715706	536.9177246	24	
	30	459.6729	750.3319702	3.387643	14.49207	2.18842244	2.282212019	0.005554604	3.899527073	93.58865	7.858445644	7.9671278	0.031842653	23.1002827	554.4067993	24	
	31	163.1456	639.1328125	2.897844	13.00435	5.85521173	11.23296261	0.027339604	10.24955177	102.4955	5.878866196	6.437217236	0.02572798	17.2737293	172.7373047	9.613889	
Aug 04	1	474.4591	774.4669189	3.465863	14.78957	2.73866796	2.6434412	0.006433791	4.98293829	119.5905	6.700720787	6.47053957	0.025861159	20.0343334	480.8263855	24	18587.20605
	2	479.1757	782.1665649	3.46847	14.78499	2.70671201	2.610622883	0.006353916	4.968646526	119.2475	6.854935646	6.614884377	0.02643807	20.6932545	496.638092	24	18771.99756
	3	475.5852	776.305542	3.468915	14.7842	2.84312034	2.742013216	0.006673703	5.181826591	124.3638	6.678144932	6.442366123	0.025748545	19.9910202	479.7844849	24	18631.33301

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	4	474.0664	773.8255615	3.415682	14.87806	2.79598904	2.739022255	0.006666419	5.161314487	113.5489	6.718628883	6.584301949	0.026315836	20.3731537	448.2094116	24	18571.81348
	5	475.9446	776.8928833	3.428343	14.85573	2.98366284	2.911128283	0.007085308	5.506011963	132.1443	6.636331558	6.478909016	0.025894608	20.1192093	482.8609924	24	18645.4292
	6	479.1755	782.166687	3.430758	14.85147	3.08048534	3.004036188	0.007311433	5.720519066	137.2925	6.702629566	6.537932396	0.026130499	20.4393578	490.5445862	24	18772.00049
	7	476.6844	778.0991821	3.430378	14.85214	3.10846543	3.031554222	0.007378408	5.743813992	137.8515	6.600878239	6.439513683	0.02573715	20.0287914	480.6910095	24	18674.38037
	8	471.692	769.9509888	3.429743	14.85326	2.9720571	2.899141312	0.007056131	5.436040878	130.465	6.523770809	6.365399361	0.025440946	19.5944252	470.2662048	24	18478.82373
	9	475.1016	775.5161743	3.474258	14.77478	2.3838141	2.305902004	0.005612267	4.33967495	104.1522	7.462098122	7.176637173	0.028683262	22.2693615	534.4647217	24	18612.38818
	10	473.8546	773.4802246	3.469552	14.78308	2.55488133	2.471117496	0.006014375	4.641652107	111.3997	7.272271156	7.006042957	0.028001433	21.6807957	520.3391113	24	18563.52539
	11	473.0279	772.1305542	3.492	14.74349	2.25789785	2.174468756	0.005292373	4.079411507	97.90588	7.622036457	7.29393959	0.029152066	22.5216465	540.5195313	24	18531.1333
	12	473.8986	773.552063	3.489902	14.7472	2.22355747	2.142293453	0.005214061	4.024300098	96.5832	7.55319643	7.230926037	0.028900225	22.3752918	537.007019	24	18565.24951
	13	477.4615	779.3682861	3.490474	14.7462	2.1060679	2.027845383	0.004935512	3.847872496	92.34894	7.799939632	7.469891548	0.029855317	23.2695618	558.4694824	24	18704.83887
	14	469.6594	766.6325684	3.427643	14.85696	2.95266175	2.881880522	0.007014121	5.377902031	129.0697	6.411528111	6.259636879	0.025018241	19.1862411	460.4697876	24	18399.18164
	15	471.8487	770.2067261	3.436165	14.84193	2.97889328	2.900273323	0.007058886	5.439266205	130.5424	6.357314587	6.191777229	0.024747012	19.061491	457.4757996	24	18484.96143
	16	474.3851	774.3457642	3.47801	14.76816	2.40161967	2.320141315	0.00564692	4.359630585	104.6311	7.193732738	6.910943985	0.027621338	21.4141293	513.9390869	24	18584.29834
	17	473.5793	773.0317383	3.463065	14.79451	2.55996704	2.481281757	0.006039113	4.65723896	111.7737	7.041902542	6.795694351	0.027160712	21.0199833	504.4796143	24	18552.76172
	18	472.8297	771.8075562	3.44402	14.8281	2.33831787	2.278800964	0.005546301	4.272722721	98.27262	7.272921562	7.058197021	0.028209884	21.796526	501.3200989	24	18523.38135
	19	473.871	773.5072632	3.458295	14.80293	2.50527835	2.431565762	0.005918114	4.573708534	109.769	6.996591568	6.762593746	0.027028428	20.9170837	502.0100098	24	18564.17432
	20	475.137	775.5745239	3.477628	14.76884	2.42944217	2.342236996	0.005700702	4.414696693	105.9527	7.016942024	6.746893406	0.026965676	20.9291115	502.2987061	24	18613.78857
	21	468.9424	765.4622803	3.435719	14.84273	2.83533072	2.761331797	0.00672072	5.14487505	123.477	6.315978527	6.152307034	0.024589259	18.8259792	451.8235168	24	18371.09473
	22	473.9947	773.7091064	3.436228	14.84183	2.87650657	2.801235914	0.006817841	5.275492668	126.6118	6.385136127	6.219040871	0.024855975	19.2338085	461.6113892	24	18569.01855
	23	472.1671	770.7269287	3.447613	14.82177	2.80226088	2.719716311	0.006619434	5.103307247	122.4794	6.33982563	6.154195309	0.024596808	18.9596119	455.0307007	24	18497.44629
	24	472.4669	771.2156372	3.472985	14.77703	2.88302541	2.777656317	0.006760451	5.21498394	125.1596	6.277980804	6.050899506	0.024183959	18.6535873	447.6860962	24	18509.17529
	25	475.4477	776.0812988	3.46614	14.7891	2.32129002	2.245961428	0.005466377	4.230941772	93.08072	7.12204504	6.871639729	0.027464263	21.3657093	470.0455933	24	18625.95117
	26	474.9557	775.2785645	3.447039	14.82276	2.61672616	2.546935081	0.006198908	4.798379898	115.1611	6.767018795	6.562818527	0.026229963	20.3508701	488.4208984	24	18606.68555
	27	472.217	770.8076782	3.454861	14.80897	2.97094345	2.877506733	0.007003476	5.399580956	129.5899	6.319475651	6.121806622	0.024467349	18.8617039	452.6809082	24	18499.38428
	28	377.217	671.713562	3.059926	14.08026	9.177104	17.85796928	0.04346396	9.079093933	199.7401	6.392566204	7.160050392	0.028616982	18.1697693	399.7349243	21.19444	14236.59591
	29	471.8209	770.1619873	3.440615	14.83409	2.94757295	2.86644578	0.006976555	5.373753548	128.9701	6.525519371	6.347033978	0.025367541	19.5391884	468.9405212	24	18483.8877
	30	479.8242	783.2248535	3.493145	14.74149	2.3338933	2.245526791	0.005465319	4.268454075	102.4429	7.621082306	7.289054871	0.029132558	22.8431911	548.2365723	24	18797.39648
	31	478.3214	780.7719727	3.485069	14.75572	2.62753749	2.531229258	0.006160682	4.796392918	115.1134	7.247946739	6.950153828	0.027778059	21.716259	521.1901855	24	18738.52734
Sep 04	1	479.0218	781.9156494	3.472465	14.77794	2.41551352	2.335206985	0.00568359	4.431492805	101.9243	7.602612495	7.318715572	0.029251108	22.9035435	526.7814941	24	18765.97559
	2	478.6706	781.3414307	3.468979	14.78408	2.47618413	2.400899649	0.005843474	4.553735256	109.2896	7.533481598	7.253065586	0.028988713	22.6760292	544.2247314	24	18752.19434
	3	482.4644	787.5344849	3.448883	14.81952	2.75885868	2.676764488	0.006514893	5.131117821	123.1468	7.077832699	6.86763525	0.027448257	21.6177006	518.8248291	24	18900.82764
	4	481.0909	785.2921143	3.442715	14.83039	2.88779449	2.807069063	0.006832039	5.364812374	128.7555	6.951122284	6.756615162	0.027004529	21.2082882	508.9989014	24	18847.01074
	5	480.058	783.6060181	3.433811	14.84609	2.9490037	2.873703003	0.006994215	5.481456757	131.555	6.919007301	6.742647171	0.0269487	21.122551	506.9411926	24	18806.54443
	6	477.4037	779.2741089	3.43928	14.83645	3.0480516	2.965524673	0.007217698	5.625087261	135.0021	6.761771202	6.579285145	0.026295792	20.4974041	491.9376831	24	18702.57861
	7	478.7226	781.4267578	3.475911	14.77186	2.50337076	2.416547537	0.00588156	4.589377403	110.1451	7.52585125	7.237925053	0.028928209	22.6205826	542.8939819	24	18754.24219
	8	473.7832	773.3637695	3.431585	14.85002	2.84232497	2.775414228	0.006754995	5.218129635	125.2351	6.994047165	6.815940857	0.027241642	21.0815792	505.9578857	24	18560.73047
	9	473.8273	773.4353027	3.451109	14.8156	2.74121165	2.665667057	0.006487885	5.009652615	120.2317	7.170043945	6.943456173	0.027751284	21.4826794	515.5842896	24	18562.44727
	10	475.1433	775.5835571	3.470442	14.7815	2.6666472	2.578114986	0.006274795	4.856210232	116.549	7.283876419	7.015080452	0.02803755	21.7696838	522.4724121	24	18614.00537
	11	472.1184	770.6461182	3.436483	14.84138	3.0331068	2.952726364	0.00718655	5.539489269	132.9477	6.665108681	6.490803242	0.025942147	19.992487	479.8197021	24	18495.50684
	12	471.7693	770.0767822	3.437182	14.84014	2.9187963	2.841640472	0.006916181	5.327347755	127.8564	6.621705532	6.447000504	0.025767088	19.8489952	476.375885	24	18481.84277
	13	478.2827	780.7091064	3.450156	14.81729	2.73882699	2.656371355	0.006465264	5.047945976	121.1507	6.948736191	6.739834785	0.026937479	21.0351009	504.8424072	24	18737.01855
	14	476.401	777.6372681	3.451873	14.81425	3.08493447	2.99021697	0.007277797	5.659992218	135.8398	6.699607849	6.495264053	0.025959967	20.1911373	484.5873108	24	18663.29443
	15	474.1371	773.9421387	3.438518	14.83779	3.0558424	2.973576307	0.007237297	5.602851868	134.4684	6.638081074	6.460458755	0.025820866	19.9851379	479.6433105	24	18574.61133
	16	472.6948	771.5878906	3.431077	14.85091	2.83898711	2.768349171	0.006737799	5.199973106	124.7994	6.692294598	6.527597427	0.026089201	20.1316833	483.1604004	24	18518.10938
	17	476.5439	777.8705444	3.469234	14.78364	2.26696038	2.195072889	0.00534252	4.147955894	99.55094	7.498505592	7.222644806	0.02886712	22.4763908	539.4334106	24	18668.89307
	18	481.8101	786.4671021	3.43432	14.8452	2.49081039	2.426455498	0.005905673	4.644605637	111.4705	7.082761288	6.90241766	0.027587274	21.699091	520.7781982	24	18875.21045
	19	488.9696	798.1534424	3.442905	14.83005	2.60305548	2.529517889	0.006156514	4.915103436	117.9625	7.282444477	7.078859806	0.028292472	22.5814991	541.9559937	24	19155.68262
	20	490.4366	800.5481567	3.448693	14.81985	2.98922801	2.900207043	0.007058726	5.65201664	135.6484	7.050010204	6.840943813	0.027341563	21.8892326	525.3416138	24	19213.15576
	21	488.9036	798.0457764	3.428152	14.85606	3.13167787	3.056110859	0.007438177	5.937449932	142.4988	6.895318985	6.731088638	0.026902504	21.4711418	515.307373	24	19153.09863
	22	485.3077	792.1757202	3.363793	14.96953	2.86172223	2.844059229	0.00692207	5.482810974	126.1047	6.901034355	6.86550808	0.027439743	21.7224922	499.6173096	24	19012.21729
	23	482.753	788.005249	3.404941	14.897	2.9275403	2.874977589	0.006997323	5.513502121	132.3241	6.854459763	6.739794254	0.026937297	21.2348957	509.6375122	24	18912.12598
	24	480.3132	784.0230103	3.424019	14.86336	3.04821086	2.978772879	0.007249943	5.684310436	136.4234	6.72075367	6.568387508	0.026252229	20.5876083	494.1026001	24	18816.55225
	25	477.2719	779.0588379	3.427707	14.85684	2.99161172	2.920375347	0.007107812	5.538767338	132.9304	6.646983624	6.489320755	0.025936216	20.2106781	485.0563049	24	18697.41211
	26	384.6207	684.8294067	3.032314	13.65394	3.20287371	3.840175867	0.009346485	5.744869709	126.3871	6.989017963	7.968528748	0.031848244	20.6729584	454.8051147	21.36667	14632.52174
	27	479.9309	783.3997803	3.431331	14.85046	2.92913175	2.855861187	0.00695079	5.447655678	130.7437	6.80437851	6.636357784	0.026523896	20.7821674	498.7720032	24	18801.59473
	28	484.2364	790.4268188	3.447421	14.8221	2.76203918	2.680711269	0.0065245	5.157550335	123.7812	6.93601799	6.732982159	0.026910076	21.2727547	510.5461121	24	18970.24365
	29	483.4834	789.1982422	3.386885	14.92883	2.80929923	2.775013924	0.00675402	5.33040905	122.5994	6.942286968	6.858916759	0.0274134	21.6305122	497.5018005	24	18940.75781
	30	484.0139	790.0634766	3.431331	14.85046	2.60019159	2.5350492	0.006169979	4.875068665	117.0016	6.997227669	6.8265481	0.027284037	21.5590668	517.4176025	24	18961.52344
Oct 04	1	484.9097	791.5255127	3.450982	14.81582	2.84788966	2.761410713	0.006720915	5.320218086	127.6852	6.839991093	6.632539749	0.026508633	20.9892368	503.7416992	24	18996.6123
	2	479.5854	782.8348999	3.43839	14.83802	3.1542542	3.069801331	0.007471493	5.849671364	140.3921	6.526792049	6.352112293	0.025387825	19.8788414	477.0921936	24	18788.0376
	3	475.9891	776.9647217	3.434575	14.84474	3.17857742	3.096875429	0.00753739	5.857465267	140.5792	6.436648369	6.271507263	0.025065679	19.4769115	467.4458923	24	18647.15332
	4	477.2392	779.0050659	3.428724	14.85506	3.11339426	3.03873539	0.007395881	5.761207581	138.269	6.503897667	6.34798336	0.02537133	19.7680626	474.4335022	24	18696.12158
	5	475.3985	776.0004883	3.438581	14.83768	3.06522131	2.982854128	0.007259878	5.63417244	135.2201	6.520272255	6.345722198	0.025362292	19.6826668	472.3840027	24	18624.01172

Unit 2 - CEMS Data

	6	475.8543	776.7449341	3.428681	14.85514	3.12711906	3.05157423	0.007427134	5.770593643	138.4942	6.486569405	6.330811024	0.025302701	19.6561508	471.7475891	24	18641.87842
	7	476.8679	778.3996582	3.444304	14.82759	2.98604631	2.900969982	0.007060582	5.496552944	131.9173	6.538397789	6.353044987	0.025391558	19.7658424	474.380188	24	18681.5918
	8	442.8134	722.8112793	3.201885	13.94874	3.1079874	3.506836653	0.008535189	5.57246542	133.7392	6.697383404	6.903233528	0.02759053	19.9914627	479.795105	24	17347.4707
	9	21.33508	417.8009644	1.905527	12.31549	42.8838501	127.0904007	0.309321165	70.68305206	141.3661	5.565094948	10.10451031	0.040385298	15.9180603	31.83612061	1.275	532.6962196
	10	487.6812	796.050293	3.448438	14.8203	2.62435865	2.546274185	0.006197296	4.934289932	118.423	7.07640028	6.867339134	0.02744705	21.851017	524.4243774	24	19105.20703
	11	485.2312	792.0501099	3.449074	14.81919	2.60766459	2.529740334	0.006157058	4.877151966	117.0517	7.053985596	6.844315052	0.027355041	21.6714535	520.1148682	24	19009.20264
	12	484.5609	790.9560547	3.448756	14.81975	2.83119678	2.746795416	0.006685339	5.288691521	126.9286	6.880054474	6.675815105	0.026681591	21.1071548	506.5716858	24	18982.94531
	13	482.6457	787.8303223	3.376577	14.94701	2.83882785	2.814165354	0.006849309	5.39618063	129.5083	6.832519531	6.770730019	0.027060937	21.3220673	511.7295837	24	18907.92773
	14	483.3187	788.9289551	3.40354	14.89947	2.76378703	2.717939615	0.006615111	5.220427036	125.2903	6.931883812	6.816669464	0.027244549	21.4970284	515.9287109	24	18934.29492
	15	482.4009	787.4312744	3.428278	14.85584	2.70782495	2.642694473	0.006431974	5.066329479	121.5919	6.991821766	6.825162888	0.0272785	21.4873295	515.6959229	24	18898.35059
	16	483.654	789.4760742	3.43502	14.84397	2.45154095	2.388255835	0.005812704	4.590322495	110.1677	7.12409687	6.940825462	0.027740771	21.9063377	525.7520752	24	18947.42578
	17	481.5247	786.0007324	3.455689	14.80752	2.61370587	2.530696154	0.006159387	4.841807365	116.2034	6.850325108	6.634058952	0.026514713	20.8407001	500.1767883	24	18864.01758
	18	483.0492	788.489563	3.455562	14.80775	2.64963675	2.565825462	0.00624488	4.924034595	118.1768	6.870358467	6.653517246	0.026592478	20.9689369	503.2545166	24	18923.74951
	19	483.1646	788.6777954	3.443414	14.82917	2.41354465	2.345101595	0.005707669	4.503105164	108.0745	7.095638275	6.895824909	0.027560925	21.7394257	521.7462158	24	18928.26709
	20	483.9564	789.9694214	3.427707	14.85685	2.33595967	2.280622005	0.005550736	4.386268139	105.2704	7.150806427	6.981487274	0.027903287	22.0441132	529.0587158	24	18959.26611
	21	490.975	801.4269409	3.443414	14.82915	2.74041581	2.663084507	0.0064816	5.194333553	124.664	7.193097115	6.990767956	0.027940383	22.3936672	537.447998	24	19234.24658
	22	465.404	759.6864014	3.253777	14.29265	4.34139109	7.410978317	0.018037334	7.79184103	187.0042	6.928705215	7.180337429	0.028698042	21.545866	517.1008301	24	18232.47363
	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0
	24															0	0
	25															0	0
	26																
	27	200.2279	712.8216553	3.068876	13.58948	1.93903279	1.923145413	0.004680685	3.668721914	40.35594	7.535175323	8.094430923	0.032351438	23.1939907	255.1338959	10.12222	7215.339003
	28	492.1511	803.3463745	3.439409	14.83622	2.61561298	2.544874668	0.006193891	4.97691679	119.446	7.331254005	7.133250237	0.028509853	22.9036369	549.6873169	24	19280.31299
	29	492.5605	804.0145264	3.416769	14.87613	2.68572545	2.629907608	0.006400852	5.148003101	123.5521	7.292462349	7.142474174	0.028546713	22.9531498	550.8756104	24	19296.34863
	30	490.1787	800.1265259	3.410664	14.8869	2.65631294	2.60589695	0.006342412	5.076562881	121.8375	7.252237797	7.115860939	0.028440345	22.7577419	546.185791	24	19203.03662
	31	487.2636	795.3685303	3.428661	14.85517	2.51847339	2.457604885	0.005981492	4.758402348	114.2017	7.216466904	7.044103622	0.028153554	22.3933544	537.4404907	24	19088.84473
Nov 04	1	489.3651	798.7990723	3.423765	14.86379	2.66855574	2.608045816	0.006347642	5.072175503	121.7322	7.178152084	7.016060829	0.028041475	22.4007454	537.6179199	24	19171.17773
	2	489.0168	798.2296143	3.39642	14.91201	2.71338964	2.673202991	0.006506225	5.194979668	124.6795	7.190870285	7.085054398	0.028317224	22.607563	542.5814819	24	19157.51074
	3	489.6182	799.211731	3.374889	14.94995	2.40690899	2.385480881	0.005805949	4.643410206	102.155	7.401914597	7.340067387	0.029336441	23.4477234	515.8499146	24	19181.08154
	4	257.7284	673.1098633	2.944953	13.61794	6.07829857	10.91867065	0.026574669	8.234680176	123.5202	7.165242195	8.183326721	0.032706752	21.4200077	321.3001099	14.22222	9573.118127
	5	495.4831	808.7857666	3.445958	14.82465	2.56457996	2.489679098	0.006059555	4.902971745	117.6713	7.442862034	7.228108883	0.028888967	23.3654423	560.7706299	24	19410.8584
	6	492.3162	803.6154175	3.433113	14.84733	2.44708967	2.385245323	0.005805377	4.666311741	111.9915	7.439045429	7.251387119	0.028982021	23.2932949	559.0391235	24	19286.77002
	7	488.7007	797.7139282	3.444304	14.82759	2.21831203	2.155271769	0.005245649	4.186173916	100.4682	7.447947979	7.237246037	0.028925491	23.0761204	553.8269043	24	19145.13428
	8	490.0136	799.8574219	3.465927	14.78947	2.52324343	2.436186314	0.005929361	4.743679047	113.8483	7.239520073	6.99040556	0.027938945	22.3481369	536.3552856	24	19196.57813
	9	489.5498	799.0995483	3.458995	14.80168	2.63707709	2.550640821	0.006207926	4.961853981	119.0845	7.034271717	6.805491924	0.027199892	21.7357426	521.6577759	24	19178.38916
	10	487.3077	795.4403687	3.426753	14.85855	2.62674284	2.56528759	0.006243574	4.966771126	119.2025	6.979580402	6.815802097	0.027241092	21.6696339	520.071167	24	19090.56885
	11	491.8818	802.9067993	3.436547	14.84127	2.64661574	2.577139616	0.00627242	5.036971092	120.8873	7.060980797	6.876402855	0.027483296	22.0671997	529.612793	24	19269.76318
	12	490.4674	800.5974121	3.455498	14.80785	2.68381739	2.598744154	0.006325003	5.064026356	121.5366	7.039199829	6.817378521	0.027247379	21.8154087	523.5698242	24	19214.33789
	13	489.8822	799.6422729	3.46281	14.79496	2.60877824	2.520720482	0.006135104	4.906639576	117.7594	6.998657227	6.763814926	0.027033312	21.6172791	518.8146973	24	19191.41455
	14	489.8383	799.5705566	3.460457	14.79911	2.72944593	2.639422417	0.006424009	5.137359142	123.2966	6.960185051	6.730928421	0.026901858	21.5117302	516.2814941	24	19189.69336
	15	490.3324	800.3775635	3.442334	14.83106	2.82928872	2.750114679	0.006693423	5.358298302	128.5992	6.991662502	6.797081947	0.027166275	21.7473869	521.9373169	24	19209.06152
	16	491.1293	801.6781006	3.466563	14.78835	2.92785835	2.826142788	0.006878464	5.51496315	132.3591	7.027910709	6.784495831	0.027115967	21.7409077	521.7817993	24	19240.27441
	17	493.9999	806.3641968	3.391729	14.92029	2.89904857	2.859413147	0.006959436	5.611682892	129.0687	7.142359734	7.048289776	0.028170282	22.7100792	522.3317871	24	19352.74072
	18	491.7362	802.6693115	3.408883	14.89005	2.8828671	2.829834223	0.006887447	5.529484749	132.7076	7.104222775	6.975539684	0.027879525	22.3784046	537.0817261	24	19264.06348
	19	491.5056	802.2924805	3.42866	14.85517	2.63803053	2.574624538	0.0062663	5.027411461	120.6579	7.282446384	7.108120441	0.028409418	22.793642	547.0474243	24	19255.01953
	20	491.4205	802.1534424	3.430059	14.8527	2.31910753	2.262486219	0.005506596	4.417894363	106.0295	7.508999348	7.326072216	0.029280512	23.4880714	563.7136841	24	19251.68262
	21	493.5303	805.5975342	3.443224	14.8295	2.21370196	2.151057005	0.005235392	4.219523907	101.2686	7.701211452	7.48526907	0.029916774	24.102066	578.449585	24	19334.34082
	22	494.3986	807.0146484	3.441061	14.8333	2.25901222	2.196376324	0.005345693	4.315961361	103.5831	7.673707008	7.462913513	0.029827438	24.0723	577.7352295	24	19368.35156
	23	495.0168	808.0235596	3.39737	14.91033	2.26598644	2.232712984	0.005434134	4.392343044	101.0239	7.659958839	7.545499802	0.030157508	24.3718128	560.5516968	24	19392.56543
	24	494.1648	806.6333008	3.4099	14.88824	2.61688542	2.568628311	0.006251705	5.046426773	121.1142	7.47243166	7.335122108	0.029316684	23.6532841	567.678772	24	19359.19922
	25	492.1425	803.3328857	3.417914	14.87412	2.46807623	2.416081667	0.005880425	4.725892544	113.4214	7.441748142	7.286207199	0.029121187	23.3962746	561.5106201	24	19279.98926
	26	491.9562	803.0278931	3.430695	14.85157	2.53119302	2.468889952	0.006008956	4.826880932	115.8451	7.310744762	7.131475925	0.028502766	22.8928051	549.4273071	24	19272.66943
	27	489.0496	798.2834473	3.431268	14.85058	2.28778744	2.230962038	0.005429871	4.33668232	104.0804	7.368932247	7.186623573	0.028723162	22.9342289	550.4215088	24	19158.80273
	28	500.1759	816.4451904	3.437818	14.83902	2.64597988	2.57497716	0.006267157	5.121491432	122.9158	7.648267746	7.445216179	0.029756695	24.2950668	583.081604	24	19594.68457
	29	503.9337	822.5799561	3.424717	14.86212	2.97332883	2.903992414	0.00706794	5.821185589	139.7085	7.569890499	7.397202015	0.029564796	24.3196545	583.6716919	24	19741.91895
	30	505.1482	824.5618896	3.40742	14.89262	3.03549218	2.980292559	0.007253643	5.987948895	143.7108	7.644135952	7.50739193	0.030005209	24.7432423	593.8378296	24	19789.48535
Dec 04	1	501.6675	818.880188	3.417088	14.87558	3.1092608	3.042649269	0.007405414	6.059425354	145.4262	7.692307949	7.533873558	0.030111041	24.6621838	591.892395	24	19653.12451
	2	500.5686	817.0864868	3.431204	14.85069	2.70082831	2.63392663	0.006410633	5.246414661	125.9139	7.723468781	7.532914639	0.030107204	24.6037407	590.4898071	24	19610.07568
	3	497.9229	812.7680664	3.431204	14.85068	2.5421629	2.478155375	0.006031505	4.910468578	117.8512	7.753040791	7.56145525	0.03022127	24.5662785	589.5906982	24	19506.43359
	4	492.9806	804.7006836	3.424273	14.86291	2.16521049	2.11534071	0.005148463	4.155719757	99.73728	8.010435104	7.828673363	0.031289283	25.1801205	604.322876	24	19312.81641
	5	485.505	792.4985962	3.451046	14.8157	1.79334581	1.738603711	0.004231535	3.355060339	80.52145	7.87847805	7.641378403	0.030540721	24.2039032	580.8936768	24	19019.96631
	6	490.077	799.9605713	3.461411	14.79743	2.00877047	1.941853762	0.004726219	3.781812429	90.7635	7.71361208	7.457411289	0.029805433	23.8437672	572.2504272	24	19199.05371
	7	487.731	796.1309814	3.445132	14.82615	2.16711831	2.104598761	0.005122321	4.078632832	97.88719	7.379902363	7.168896198	0.028652312	22.8125458	547.5010986	24	19107.14355

Unit 2 - CEMS Data

	8	487.7337	796.1353149	3.440446	14.83439	2.59017658	2.519724607	0.006132681	4.882047653	117.1692	7.025420189	6.833198547	0.027310617	21.7438087	521.8513794	24	19107.24756
	9	487.1153	795.1264038	3.441824	14.83196	2.88922596	2.808579922	0.006835718	5.435631275	130.4552	6.788321018	6.600592136	0.026380928	20.9777126	503.4650879	24	19083.03369
	10	485.5635	792.5927734	3.442395	14.83095	2.77475667	2.697129488	0.006564461	5.203356743	124.8806	6.884824753	6.693108082	0.026750704	21.2031536	508.8757019	24	19022.22656
	11	488.5029	797.3910522	3.451682	14.81458	2.64868212	2.56780839	0.00624971	4.983947754	119.6147	7.196117401	6.976958275	0.027885191	22.2372417	533.6937866	24	19137.38525
	12	486.3166	793.8214722	3.465228	14.7907	2.63739491	2.546574593	0.006198031	4.921094418	118.1063	7.130455971	6.886505604	0.02752368	21.8533249	524.4797974	24	19051.71533
	13	491.7501	802.6915283	3.473431	14.77623	2.95170665	2.843826771	0.006921503	5.555832386	133.34	7.021552563	6.764818192	0.027037317	21.7040081	520.8961792	24	19264.59668
	14	493.2551	805.1491089	3.447675	14.82165	3.02261424	2.933596611	0.007139987	5.748491764	137.9638	7.022823811	6.817150593	0.027246479	21.938509	526.524231	24	19323.57861
	15	493.726	805.9158325	3.421729	14.86738	2.8089397	2.746827602	0.006685418	5.389982224	129.3596	7.215459347	7.057019711	0.028205162	22.7326546	545.5836792	24	19341.97998
	16	493.8073	806.050354	3.442016	14.83162	3.04201031	2.957763672	0.007198813	5.807336807	139.3761	7.14397049	6.946538925	0.027763613	22.3890285	537.3366699	24	19345.2085
	17	498.3959	813.5393677	3.453207	14.81189	3.32547903	3.222016335	0.007841967	6.385023594	153.2406	7.251442432	7.027377605	0.028086703	22.852375	548.4570313	24	19524.94482
	18	501.2996	818.2792358	3.453527	14.81133	3.33231664	3.228169203	0.007856943	6.438515186	154.5244	7.413925648	7.18403101	0.028712796	23.4984093	563.961792	24	19638.70166
	19	502.8876	820.8712769	3.459059	14.80158	3.2890718	3.181067944	0.007742302	6.366917133	152.806	7.602640152	7.355212688	0.029396972	24.1332073	579.1970215	24	19700.91064
	20	497.7855	812.5438232	3.450346	14.81693	2.69176745	2.609782457	0.00635187	5.171203613	124.1089	7.732849121	7.500060081	0.0299759	24.3597374	584.633667	24	19501.05176
	21	486.5497	794.2026978	3.475849	14.77197	4.0413866	3.888236761	0.00946346	7.470092297	179.2822	7.382129192	7.108197212	0.028409716	22.5856667	542.0559692	24	19060.86475
	22	475.7086	776.5071411	3.443919	14.82827	4.30905914	4.175466061	0.010162541	7.857532501	172.8657	7.277270794	7.073039532	0.0282692	21.9442501	482.7734985	24	18636.17139
	23	477.2747	779.0634766	3.46599	14.78935	4.42104197	4.268577576	0.010389157	8.057910919	193.3899	7.208357811	6.960365772	0.027818866	21.6811581	520.3477783	24	18697.52344
	24	483.6564	789.4806519	3.464592	14.79183	4.33900499	4.178166866	0.010169115	7.961007118	191.0642	7.254306316	7.008321285	0.028010542	22.1271324	531.0512085	24	18947.53564
	25	486.5245	794.1623535	3.442715	14.8304	3.97302341	3.855577469	0.009383974	7.448423386	178.7622	7.361301422	7.156252384	0.028601779	22.7173958	545.2174683	24	19059.89648
	26	479.0383	781.9423828	3.437055	14.84036	2.551543	2.485218048	0.006048697	4.713300228	113.1192	7.601369381	7.401163101	0.029580638	23.1334419	555.2025757	24	18766.61719
	27	479.6832	782.9962769	3.45251	14.81312	1.98698831	1.926021218	0.004687685	3.670671701	88.09612	7.425055027	7.197232723	0.02876557	22.523241	540.5578003	24	18791.91064
	28	481.6782	786.25177	3.462874	14.79485	1.96489036	1.898434162	0.004620539	3.633874655	87.21299	7.446835995	7.196743488	0.02876362	22.6164532	542.7949219	24	18870.04248
	29	485.6818	792.7856445	3.443118	14.82968	2.04136252	1.984242082	0.004829387	3.828765392	91.89037	7.456428528	7.246847153	0.028963871	22.9621048	551.0905151	24	19026.85547
	30	485.0633	791.7764893	3.423573	14.86413	2.25662541	2.205852985	0.005368757	4.249939919	101.9986	7.320124626	7.15501833	0.028596843	22.6468296	543.5239258	24	19002.63574
	31	486.338	793.8573608	3.43343	14.84675	2.13532209	2.08080554	0.005064411	4.021812439	96.5235	7.364481449	7.178242683	0.028689675	22.7757626	546.6182861	24	19052.57666
Jan 05	1	491.5222	802.319397	3.435147	14.84373	2.36107969	2.29910779	0.005595729	4.493350506	107.8404	7.440953732	7.248931885	0.028972208	23.2458801	557.901123	24	19255.66553
	2	488.3604	797.1577759	3.42033	14.86985	2.29048991	2.240530729	0.005453159	4.34865284	104.3677	7.367820263	7.208791256	0.028811766	22.9681492	551.2355957	24	19131.78662
	3	490.0795	799.9650879	3.431205	14.85067	2.11799121	2.065689087	0.005027617	4.022422314	96.53814	7.524737835	7.338981628	0.029332109	23.4651623	563.1638794	24	19199.16211
	4	493.5633	805.6512451	3.451617	14.8147	2.23738956	2.168972492	0.005278995	4.254135132	102.0992	7.59803009	7.367284298	0.029445237	23.7227077	569.3449707	24	19335.62988
	5	493.1811	805.0279541	3.43661	14.84115	2.5710988	2.502592802	0.006090986	4.906522751	117.7565	7.332684994	7.14072752	0.028539741	22.9753208	551.4077148	24	19320.6709
	6	493.9121	806.2207642	3.431968	14.84935	2.52848959	2.464915752	0.005999281	4.837889671	116.1094	7.441111565	7.256201744	0.029001255	23.3820992	561.1704102	24	19349.29834
	7	482.6047	787.7631226	3.454162	14.81022	1.88682795	1.827141643	0.004447023	3.503990412	84.09577	7.525373936	7.29438591	0.029153867	22.9704132	551.289917	24	18906.31494
	8	356.019	664.0581055	2.943994	13.22156	6.02378702	15.55223274	0.037852131	8.435092926	177.137	7.063093662	7.851373672	0.031380009	20.6210976	433.0430603	20.71667	13757.07076
	9	483.7752	789.6734619	3.466627	14.78824	2.46871209	2.382887125	0.005799637	4.580562592	109.9335	6.841264725	6.604089737	0.026394933	20.8456669	500.29599	24	18952.16309
	10	482.3987	787.4267578	3.457596	14.80415	2.47189116	2.391794682	0.005821314	4.584307194	110.0234	6.840467453	6.620828152	0.026461817	20.8382549	500.118103	24	18898.24219
	11	494.0908	806.512207	3.448948	14.8194	2.29367089	2.22490716	0.005415136	4.369262695	104.8623	7.457806587	7.23645401	0.028922329	23.3270836	559.8499756	24	19356.29297
	12	501.2172	818.1447754	3.439048	14.83685	2.92372465	2.845475435	0.006925515	5.667088509	136.0101	7.277517319	7.082181931	0.028305754	23.1583633	555.8007202	24	19635.47461
	13	501.8711	819.2120972	3.441953	14.83175	3.12102509	3.034259558	0.007384989	6.050742626	145.2178	7.268296719	7.066984653	0.028244991	23.1389046	555.3336792	24	19661.09033
	14	499.1015	814.6917725	3.451046	14.8157	3.03453708	2.942487001	0.00716163	5.835630417	140.0551	7.270998955	7.050825119	0.028180413	22.958395	551.0015259	24	19552.60254
	15	495.7691	809.2523193	3.466054	14.78925	2.93580794	2.834915876	0.006899814	5.587937355	134.1105	7.23125267	6.98172617	0.02790425	22.5826874	541.9844971	24	19422.05566
	16	498.6648	813.9788818	3.463765	14.79328	3.28589249	3.17460084	0.007726563	6.290109634	150.9626	7.251125336	7.005612373	0.027999708	22.792017	547.0084229	24	19535.49316
	17	497.7364	812.4631348	3.450855	14.81604	3.17237544	3.076415062	0.007487592	6.084152699	146.0197	7.289600372	7.069158077	0.028253691	22.9559879	550.9437256	24	19499.11523
	18	495.3576	808.5796509	3.453334	14.81167	3.05091286	2.956407547	0.00719551	5.819399357	139.6656	7.249377251	7.02513361	0.028077736	22.7040749	544.8978271	24	19405.91162
	19	495.3627	839.7991943	3.423425	14.81028	3.05144382	2.955942392	0.007266665	6.102458	146.459	7.18323946	6.959461689	0.028096454	23.5963249	566.3117676	24	20155.18066
	20	495.4071	855.5408936	3.449074	14.73697	2.98048282	2.853952169	0.007051999	6.035633087	144.8552	7.282763004	6.972464561	0.0282919	24.2061291	580.9470825	24	20532.98145
	21	494.6864	854.2979736	3.467389	14.70423	2.83040094	2.695035458	0.006659322	5.690481663	136.5716	7.300411224	6.951908112	0.02820847	24.0992584	578.3822021	24	20503.15137
	22	495.5661	855.815979	3.46599	14.70674	2.91132426	2.773134708	0.0068523	5.865692616	140.7766	7.225211143	6.883097172	0.027929267	23.9025955	573.6622925	24	20539.5835
	23	494.9068	854.6774292	3.464909	14.70866	2.92960668	2.791377068	0.006897376	5.897604942	141.5425	7.194209099	6.855582714	0.027817626	23.7772083	570.6530151	24	20512.2583
	24	490.2172	846.5787354	3.461156	14.71539	2.83851123	2.707664967	0.006690531	5.665467739	135.9712	7.122508049	6.794621944	0.027570266	23.3427467	560.2258911	24	20317.88965
	25	481.3105	831.1976318	3.446911	14.74083	2.87110114	2.748888254	0.006792389	5.651189804	135.6286	6.871788502	6.581972599	0.0267074	22.2049541	532.9188843	24	19948.74316
	26	483.3596	834.7368774	3.436356	14.7597	2.44581795	2.349826336	0.005806325	4.846726894	116.3214	6.955574512	6.683404922	0.027118996	22.6389713	543.3353271	24	20033.68506
	27	488.7169	843.9882813	3.438834	14.75525	2.57523251	2.472481728	0.0061094	5.156442165	123.7546	7.070041656	6.7884655	0.027545275	23.2493324	557.9840088	24	20255.71875
	28	491.3514	848.5380859	3.446976	14.74073	2.59478617	2.484367132	0.006138768	5.212141991	125.0914	7.155734539	6.855009079	0.027815321	23.6033077	566.4793701	24	20364.91406
	29	497.923	859.8866577	3.438772	14.75538	2.94057798	2.823192835	0.006975991	5.999378204	143.9851	7.204225063	6.917554855	0.028069088	24.1362839	579.270813	24	20637.27979
	30	449.5933	776.409668	3.117496	13.80551	4.52231216	8.920462608	0.022042079	8.891796112	213.4031	6.704218864	6.78519249	0.027532017	22.3451462	536.2835083	24	18633.83203
	31	490.926	847.8027954	3.434257	14.76344	2.57141542	2.471811771	0.006107746	5.182380676	124.3771	7.289282322	7.008245945	0.028437084	24.1116676	578.6799927	24	20347.26709
Feb 05	01	493.1069	851.5698242	3.432857	14.76595	3.01037216	2.894964695	0.007153339	6.095171928	146.2841	7.150648117	6.87802124	0.027908675	23.7701454	570.4835205	24	20437.67578
	02	491.5166	848.8228149	3.423254	14.7831	2.91577625	2.81196785	0.006948255	5.90073967	141.6178	7.133158684	6.880113125	0.027917158	23.703146	568.8754883	24	20371.74756
	03	489.6756	845.644104	3.432095	14.76731	2.73644209	2.632023335	0.006503617	5.502942085	132.0706	7.154780865	6.883887291	0.027932474	23.6253376	567.0081177	24	20295.4585
	04	488.3521	843.3572388	3.437435	14.75776	2.68111658	2.57435298	0.006361118	5.368968964	128.8553	7.181967735	6.898963451	0.027993662	23.6113453	566.6723022	24	20240.57373
	05	309.1238	609.9619751	2.500509	11.70453	6.22565317	11.43522739	0.028256003	11.20955658	235.4007	6.976240158	8.661060333	0.035143625	22.0823975	463.7303467	18.95833	11563.86167
	06	490.217	846.5786743	3.45556	14.72538	2.50337005	2.391859055	0.00591019	5.004388332	120.1053	7.425849915	7.096195221	0.028793942	24.3765049	585.0361328	24	20317.88818
	07	493.1897	851.7120972	3.461729	14.71437	2.68016124	2.556022882	0.006315829	5.380839825	129.1402	7.340952396	7.00199461	0.028411726	24.1990337	580.7767944	24	20441.09033
	08	494.618	854.1791382	3.453526	14.729	2.74820709	2.627365828	0.00649211	5.54715395	133.1317	7.321396828	6.999950886	0.028403413	24.2657757	582.3786011	24	20500.29932

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	09	491.3296	848.5001831	3.29816	15.00664	2.56167412	2.552848577	0.006307986	5.356592178	117.845	7.158466339	7.173303604	0.029106837	24.6853676	543.078125	24		20364.00439
	10	488.8741	844.258606	3.35165	14.91107	2.56442046	2.524023771	0.006236759	5.266900539	126.4056	7.207722664	7.110493183	0.028851967	24.3641701	584.7401123	24		20262.20654
	11	483.6621	835.258606	3.407738	14.81084	2.22164989	2.15206337	0.00531766	4.442707539	106.625	7.201840401	6.978451252	0.028316187	23.6516705	567.6400757	24		20046.20654
	12	484.4583	836.6345825	3.443286	14.74731	2.61688614	2.508727074	0.006198958	5.187330246	124.4959	6.961296558	6.675777912	0.027088042	22.6634045	543.9216919	24		20079.22998
	13	485.4946	838.4231567	3.428279	14.77413	2.6385076	2.540832996	0.006278291	5.264805317	126.3553	6.930454731	6.674832344	0.0270842	22.7088585	545.0125732	24		20122.15576
	14	485.4286	838.3093872	3.412636	14.80208	2.58286333	2.498937368	0.00617477	5.176537991	124.2369	6.952870369	6.727321625	0.027297184	22.8841	549.2183838	24		20119.42529
	15	485.9426	839.1965332	3.417022	14.79425	2.56426215	2.477250814	0.006121184	5.137429237	123.2983	7.065432072	6.827598095	0.027704071	23.250967	558.0231934	24		20140.7168
	16	483.9449	835.7473755	3.392752	14.83761	2.63983297	2.568210125	0.00634594	5.305212975	127.3251	6.962939739	6.775896072	0.027494274	22.9798794	551.5170898	24		20057.93701
	17	482.0905	832.5449829	3.419503	14.78981	2.45058799	2.36663866	0.005847868	4.871200562	116.9088	7.010741711	6.770340443	0.027471745	22.8726044	548.9425049	24		19981.07959
	18	481.5306	831.5770874	3.440807	14.75174	2.21227002	2.122685909	0.005245071	4.361879349	104.6851	7.122347355	6.834934235	0.027733846	23.0633335	553.5200195	24		19957.8501
	19	481.7666	831.9850464	3.44723	14.74027	2.19017053	2.097039938	0.0051817	4.312487125	103.4997	7.153986454	6.852972031	0.027807029	23.1358128	555.2595215	24		19967.64111
	20	483.2609	834.565979	3.435782	14.76073	2.31640363	2.225656748	0.005499507	4.59097147	110.1833	7.100885868	6.824109554	0.027689913	23.1099415	554.6386108	24		20029.5835
	21	479.6013	828.2463989	3.433049	14.7656	2.14819908	2.065700054	0.005104258	4.229061604	101.4975	7.139040947	6.866446495	0.027861709	23.0774078	553.8577881	24		19877.91357
	22	485.1977	837.9106445	3.449711	14.73583	2.3342104	2.23375082	0.005519506	4.625931263	111.0223	7.170361996	6.86316061	0.027848363	23.3359833	560.0635986	24		20109.85547
	23	485.8707	839.0732422	3.408947	14.80867	2.54518342	2.465709209	0.006092666	5.113125801	122.715	7.023300648	6.802598953	0.02760263	23.1607132	555.8571167	24		20137.75781
	24	485.5218	838.4703979	3.417595	14.79323	2.6547246	2.564445019	0.006336637	5.314174175	127.5402	6.931089401	6.697782993	0.027177334	22.7904625	546.9710693	24		20123.28955
	25	482.7774	833.7310181	3.4361	14.76015	2.66076493	2.556466579	0.006316924	5.267158985	126.4118	6.953189373	6.681625843	0.027111767	22.6042252	542.5014038	24		20009.54443
	26	483.2474	834.5423584	3.441571	14.75038	2.50384712	2.401970863	0.005935173	4.953827858	118.8919	7.044764042	6.758852005	0.027425136	22.8879414	549.3106079	24		20029.0166
	27	484.9173	837.4269409	3.431967	14.76753	2.52912593	2.432581663	0.006010808	5.035564423	120.8535	7.026799202	6.760278225	0.027430912	22.9721031	551.3305054	24		20098.24658
	28	485.7721	838.9023438	3.416641	14.79491	2.7524991	2.65983367	0.006572339	5.514489174	132.3477	6.824569702	6.595193863	0.026761059	22.4508247	538.8198242	24		20133.65625
Mar 05	1	483.2609	834.565979	3.42281	14.7839	2.5760262	2.485227108	0.006140892	5.127753735	123.0661	6.885779381	6.642855644	0.026954459	22.4966831	539.9204102	24		20029.5835
	2	485.2335	837.9725342	3.441634	14.75025	2.68556666	2.576091766	0.006365415	5.335479736	128.0515	6.887844563	6.608186722	0.026813775	22.4705467	539.2930908	24		20111.34082
	3	483.3434	834.708374	3.436737	14.75902	2.64852381	2.543970823	0.006286047	5.248465061	125.9632	6.847463131	6.57884264	0.026694708	22.2826576	534.7838135	24		20033.00098
	4	484.0936	836.00354	3.442397	14.7489	2.59637666	2.490209579	0.006153205	5.145627975	123.4951	6.874810219	6.5941782	0.026756929	22.3696365	536.8712769	24		20064.08496
	5	485.0003	837.5692139	3.449901	14.73548	2.84137177	2.718954563	0.006718422	5.628491402	135.0838	6.794204712	6.50262022	0.026385428	22.1004715	530.4113159	24		20101.66113
	6	483.6647	835.2633667	3.442142	14.74935	2.74614	2.633855343	0.006508149	5.437283516	130.4948	6.791979313	6.515307426	0.026436895	22.08498	530.0394897	24		20046.3208
	7	480.3682	829.5701904	3.436991	14.75857	2.78620338	2.675924301	0.0066121	5.488821983	131.7317	6.637763023	6.37660265	0.025874091	21.4680328	515.2327881	24		19909.68457
	8	478.638	826.5813599	3.43909	14.7548	2.85138845	2.73696208	0.006762921	5.592945099	134.2307	6.554772854	6.293196201	0.025535651	21.1124954	506.6998901	24		19837.95264
	9	473.8264	818.2738037	3.374077	14.87098	2.81974959	2.758544445	0.006816248	5.578775883	128.3118	6.416394711	6.278598309	0.025476413	20.8477001	479.4971008	24		19638.57129
	10	470.7558	812.9697266	3.397436	14.82924	2.682863	2.609422922	0.006447779	5.24674511	125.9219	6.525521278	6.343474865	0.025739659	20.9286537	502.2876892	24		19511.27344
	11	469.0796	810.0756836	3.439662	14.75379	2.54089093	2.438516617	0.006025473	4.885452747	117.2509	6.486251831	6.226398945	0.025264611	20.4709454	491.3027039	24		19441.81641
	12	467.4371	807.2385254	3.429614	14.77173	2.31036377	2.223906279	0.00549518	4.439933777	106.5584	6.633152962	6.386302948	0.025913451	20.9234867	502.1636963	24		19373.72461
	13	478.7859	826.8374634	3.444558	14.74504	2.73596454	2.622313261	0.006479629	5.358474255	128.6034	6.707557678	6.429739475	0.026089696	21.5720119	517.7282715	24		19844.09912
	14	479.1425	827.4542847	3.445194	14.7439	2.62912798	2.519294977	0.006225076	5.152637959	123.6633	6.743804932	6.46334219	0.026226046	21.7008133	520.819519	24		19858.90283
	15	487.9449	842.6551514	3.445449	14.74345	2.66235447	2.551027536	0.006303481	5.313995838	127.5359	7.046670914	6.753128529	0.027401896	23.0904217	554.170105	24		20223.72363
	16	486.9976	841.0183105	3.402347	14.82048	2.5977788	2.520753384	0.00622868	5.239949703	120.5188	7.034360409	6.826473236	0.02769951	23.292614	535.7301025	24		20184.43945
	17	485.0465	837.6499023	3.419311	14.79014	2.64391255	2.551135778	0.00630375	5.281214714	126.7492	7.01328516	6.775344372	0.027492046	23.0285702	552.68573	24		20103.59766
	18	483.5488	835.0640869	3.443732	14.74651	2.52387953	2.419906139	0.00597949	4.993958473	119.855	7.072904587	6.781786442	0.027518183	22.9798546	551.5164795	24		20041.53809
	19	481.5385	831.5913696	3.458995	14.71923	2.5106833	2.396045446	0.005920529	4.924427509	118.1863	6.90899086	6.595890522	0.026763892	22.2569218	534.1660767	24		19958.19287
	20	487.489	841.8676147	3.454607	14.72708	2.80003595	2.676112175	0.006612563	5.568409443	133.6418	6.909467697	6.603984833	0.026796717	22.5589504	541.4147949	24		20204.82275
	21	487.4861	841.8627319	3.428087	14.77447	2.89653945	2.789409161	0.006892515	5.804095268	139.2983	6.865587711	6.612750053	0.026832292	22.5896587	542.1517944	24		20204.70557
	22	483.1567	834.3856812	3.429933	14.77118	2.4701426	2.378218412	0.005876479	4.905361176	117.7287	7.006447792	6.745092869	0.027369292	22.8390408	548.1370239	24		20025.25635
	23	487.5744	842.0145264	3.448883	14.73732	2.47300458	2.367158413	0.005849149	4.926565647	118.2376	7.192618847	6.886333942	0.027942412	23.5274162	564.65802	24		20208.34863
	24	489.2308	844.8754272	3.448247	14.73844	2.65217924	2.539297819	0.006274499	5.302227974	127.2535	7.092618465	6.791631699	0.02755812	23.2829552	558.7908936	24		20277.01025
	25	491.8129	849.335144	3.447803	14.73925	2.96092916	2.835489988	0.007006379	5.952589989	142.8622	7.026480675	6.728974819	0.027303895	23.1913624	556.5927124	24		20384.04346
	26	489.7004	845.6868286	3.437246	14.7581	3.13040662	3.006657839	0.007429326	6.284903526	150.8377	6.820594788	6.552120686	0.026586263	22.4860573	539.6654053	24		20296.48389
	27	483.7941	835.4864502	3.424337	14.78117	2.70098829	2.603652477	0.006433518	5.378189564	129.0766	6.847146034	6.602608204	0.026791137	22.3863049	537.2713013	24		20051.6748
	28	488.7583	844.0595093	3.440108	14.75299	2.68047881	2.572108746	0.006355574	5.365924358	128.7822	7.017416954	6.735723495	0.027331276	23.0695839	553.6699829	24		20257.42822
	29	491.022	847.968689	3.444559	14.74503	2.94121361	2.818900824	0.006965389	5.908698559	141.8088	6.976081371	6.687020302	0.027133659	23.0103874	552.2493286	24		20351.24854
	30	491.4945	848.78479	3.394956	14.83366	3.19394588	3.106437206	0.00767588	6.51736021	156.4167	6.857903957	6.670090199	0.027064942	22.9730759	551.3538208	24		20370.83496
	31	488.8046	844.1400757	3.416896	14.79448	3.22197962	3.112736702	0.007691445	6.494766235	155.8744	6.749529362	6.524730206	0.026475137	22.3522339	536.4536133	24		20259.36182
Apr 05	01	487.5196	841.9197388	3.429933	14.77119	2.97698545	2.865313292	0.007080069	5.965305805	143.1673	6.782122612	6.528945923	0.026492242	22.3085251	535.4046021	24		20206.07373
	02	482.8568	833.8685303	3.419123	14.7905	2.73723698	2.643258333	0.00653138	5.449183941	130.7804	6.757000923	6.525310516	0.026477488	22.0778122	529.8674927	24		20012.84473
	03	464.4091	836.880249	3.447471	14.73984	2.67658043	2.563170433	0.006333489	5.301299095	121.9299	6.942951202	6.649837017	0.026982769	22.5819092	519.3839111	24		20085.12598
	04	489.8655	845.9714966	3.450283	14.7348	2.85599923	2.732907534	0.0067529	5.71470356	137.1529	7.003269196	6.702123165	0.027194938	23.0053463	552.1282959	24		20303.31592
	05	486.1924	839.6282959	3.441252	14.75094	3.01180172	2.889382839	0.007139547	5.998548508	143.9652	6.783551693	6.508526325	0.026409391	22.1790199	532.2965088	24		20151.0791
	06	479.7471	828.4978027	3.382618	14.85572	2.71519136	2.647073269	0.006540809	5.42510891	130.2026	6.73850584	6.578236103	0.026692245	22.1155033	530.7720947	24		19883.94727
	07	484.4093	836.5490723	3.418931	14.79084	2.61640882	2.526985407	0.006244075	5.224906445	125.3978	6.95112133	6.71586132	0.027250687	22.7991447	547.1795044	24		20077.17773
	08	487.7092	842.2471313	3.429997	14.77107	2.7962203	2.691481352	0.00665054	5.604043961	134.4971	7.065591335	6.801670551	0.027598867	23.2466412	557.9193726	24		20213.93115
	09	381.5361	752.9974976	3.086226	13.64367	2.96383619	3.555027008	0.008784324	5.792941093	121.6518	7.155758858	7.72756958	0.031355839	23.1403999	485.9483948	20.81389		15672.80599
	10	479.7063	828.4267578	3.427833	14.77493	2.37538743	2.286221743	0.005649161	4.690687656	112.5765	7.031089783	6.772811413	0.027481763	22.7664261	546.3942261	24		19882.24219
	11	483.1898	834.4425659	3.4347	14.76265	2.63485003	2.532267809	0.006257128	5.224394798	125.3855	6.890232086	6.623976231	0.026877847	22.4294968	538.3079224	24		20026.62158
	12	482.9229	833.9824829	3.436165	14.76005	2.74280262	2.634841204	0.006510582	5.431650162	130.3596	6.832519531	6.565628052	0.026641088	22.2187576	533.2501831	24		20015.57959

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	13	491.9698	849.6057129	3.429487	14.77196	2.734375	2.632049084	0.006503683	5.52844286	132.6826	7.229979038	6.96122694	0.028246304	23.996788	575.9229126	24	20390.53711
	14	493.099	851.555542	3.436164	14.76004	2.96362996	2.847354174	0.007035692	5.994707108	143.873	7.180537224	6.900007725	0.027997876	23.8441658	572.2600098	24	20437.33301
	15	484.2776	836.3214111	3.428406	14.7739	2.57857037	2.482634068	0.006134488	5.13371563	123.2092	7.073539734	6.813446045	0.027646663	23.1224575	554.9390259	24	20071.71387
	16	481.3929	831.3398438	3.448821	14.73742	2.67237043	2.558386564	0.006321671	5.259954929	126.2389	6.84619236	6.554562569	0.026596189	22.1157627	530.7783203	24	19952.15625
	17	479.4178	827.9287109	3.447229	14.74027	2.80146623	2.682256699	0.006627745	5.491346836	131.7923	6.693249226	6.411054611	0.026013888	21.539362	516.9447021	24	19870.28906
	18	489.7281	845.734314	3.436227	14.75992	2.70194244	2.595882416	0.006414321	5.426473141	130.2354	7.112809658	6.834826946	0.027733404	23.455555	562.9332886	24	20297.62354
	19	490.6208	847.2761841	3.44049	14.7523	2.60893536	2.502887487	0.006184529	5.242928505	125.8303	7.281172752	6.988604069	0.028357379	24.0241756	576.5802002	24	20334.62842
	20	489.9123	846.052063	3.43006	14.77095	2.7919271	2.686915398	0.006639259	5.619983673	134.8796	7.112490654	6.846777916	0.0277819	23.5038128	564.0914917	24	20305.24951
	21	486.9533	840.9425049	3.426816	14.77675	2.89828873	2.791791201	0.006898403	5.804929256	139.3183	6.911056995	6.65934515	0.027021371	22.7263165	545.4315796	24	20182.62012
	22	485.6294	838.6556396	3.436547	14.75935	2.87078333	2.758091688	0.006815131	5.717101574	137.2104	6.893729687	6.623517036	0.02687598	22.5414963	540.9959106	24	20127.73535
	23	485.5302	838.4848022	3.441634	14.75026	2.54200339	2.438019276	0.006024245	5.052923203	121.2702	7.006766319	6.722286224	0.027276745	22.8712788	548.9107056	24	20123.63525
	24	486.635	840.3921509	3.450282	14.73481	2.78111696	2.661088228	0.00657544	5.527134895	132.6512	6.829180241	6.535402298	0.026518442	22.2861004	534.866394	24	20169.41162
	25	487.2251	841.4121094	3.444304	14.7455	2.88429785	2.764722109	0.006831516	5.749367714	137.9848	6.82520628	6.542910576	0.026548913	22.3398743	536.1569824	24	20193.89063
	26	483.437	834.8696289	3.433494	14.7648	2.84407425	2.73435092	0.006756466	5.64449501	135.4679	6.711850643	6.45441103	0.026189817	21.8681087	524.8345947	24	20036.87109
	27	484.3573	837.8942871	3.363792	14.89132	2.5750525	2.527363062	0.00624448	5.233000278	120.359	6.872611523	6.74905014	0.02738299	22.933918	527.4801025	24	20109.46289
	28	486.3677	842.1348267	3.424782	14.78332	2.73469281	2.636927128	0.006514925	5.487603664	131.7025	6.783234119	6.545342445	0.026555451	22.3633175	536.7196045	24	20211.23584
	29	485.0246	839.8085938	3.451555	14.7355	2.70575762	2.589095116	0.006396749	5.375730038	129.0175	6.716461182	6.428341866	0.026080759	21.9031658	525.6760254	24	20155.40625
	30	483.525	837.2113647	3.424081	14.78457	2.85981464	2.758465052	0.006815201	5.709326744	137.0238	6.613121033	6.380212307	0.025885493	21.6730156	520.1524048	24	20093.07275
May 05	01	481.12	833.0477295	3.447315	14.74308	2.49563241	2.392752171	0.005911651	4.923911095	118.1739	6.747992516	6.465840816	0.026232921	21.85425	524.5020142	23.75	19784.88358
	02	482.2914	835.0757446	3.434002	14.76685	2.81227756	2.704400301	0.006681627	5.582923889	133.9902	6.645872116	6.393288136	0.025938541	21.6632671	519.918396	24	20041.81787
	03	477.1267	826.1328735	3.44157	14.75334	2.52165413	2.419993401	0.005978957	4.94118166	118.5884	6.606601715	6.341472626	0.025728324	21.2563133	510.1514893	24	19827.18896
	04	476.0928	824.3444824	3.421157	14.7898	2.56060505	2.471179962	0.006105422	5.035707474	120.857	6.611053467	6.384163857	0.02590153	21.3513908	512.4334106	24	19784.26758
	05	477.1757	826.2184448	3.44227	14.75209	2.39891672	2.30263114	0.005688993	4.700630188	112.8151	6.692613602	6.423090935	0.026059454	21.5315495	516.7572021	24	19829.24268
	06	478.9587	829.3057251	3.455115	14.72915	2.42308283	2.316269875	0.005722691	4.748419762	113.9621	6.756524086	6.460116386	0.026209684	21.7353382	521.6480713	24	19903.3374
	07	482.3519	835.1803589	3.453589	14.73188	2.66362715	2.547544479	0.006294091	5.257461548	126.1791	6.73029232	6.437656403	0.026118562	21.8148041	523.5552979	24	20044.32861
	08	481.4753	833.6629028	3.439598	14.75685	2.75981259	2.650156975	0.006547612	5.460603714	131.0545	6.645872116	6.382806778	0.02589602	21.5905952	518.1743164	24	20007.90967
	09	485.0692	839.8847656	3.444242	14.74856	2.70051122	2.589710951	0.006398269	5.374938965	128.9985	6.744918346	6.46927166	0.026246825	22.0447254	529.0734253	24	20157.23438
	10	489.7224	847.9428101	3.442333	14.75197	2.81625199	2.702534676	0.006677017	5.662791252	135.907	6.886096954	6.608346939	0.02681108	22.7348328	545.6359863	24	20350.62744
	11	486.1418	841.7431641	3.421601	14.78899	2.75334716	2.65771389	0.006566281	5.528973103	132.6954	6.831460476	6.5952878	0.026758101	22.5248337	540.5960083	23.75	19991.40015
	12	480.2884	831.6080322	3.435782	14.76368	2.73787332	2.632452965	0.006503869	5.410283089	129.8468	6.605489254	6.351663113	0.025769675	21.4365749	514.4777832	24	19958.59277
	13	475.7445	823.7401733	3.443096	14.75062	2.79717326	2.683145046	0.006629112	5.462614536	131.1028	6.439192295	6.177961349	0.025064941	20.6491299	495.5791016	24	19769.76416
	14	471.7996	816.9094238	3.433367	14.76799	2.80210209	2.694539547	0.006657265	5.445532799	130.6928	6.326313019	6.087472439	0.024697805	20.1749668	484.1991882	24	19605.82617
	15	469.8492	813.5321655	3.430251	14.77355	2.73993969	2.637356997	0.006515985	5.305746078	127.3379	6.301511765	6.068912029	0.024622496	20.030304	480.7272949	24	19524.77197
	16	476.5802	825.1863403	3.437649	14.76033	2.64338303	2.539961338	0.006275354	5.17805624	124.2734	6.570724964	6.314382076	0.025618412	21.1462746	507.5105896	24	19804.47217
	17	482.3907	835.2468262	3.44265	14.75142	2.65376949	2.546234131	0.006290854	5.255199909	126.1248	6.802153587	6.527222157	0.026481938	22.1212463	530.9099121	24	20045.92383
	18	477.2583	826.3612671	3.310162	14.98804	2.53340364	2.527978182	0.006245751	5.153563499	113.3784	6.675441742	6.66498661	0.027040863	22.3049679	490.7092896	24	19832.67041
	19	472.1267	817.4755249	3.369582	14.88192	2.6768229	2.624112606	0.006483264	5.301906586	127.2458	6.322179317	6.205166817	0.025175309	20.5885754	494.1257935	24	19619.4126
	20	475.7418	823.7354736	3.421792	14.78866	2.91243839	2.811209917	0.006945513	5.72251606	137.3404	6.330288887	6.111564159	0.024795551	20.4257832	490.218811	24	19769.65137
	21	6.120882	127.1780014	0.6105	4.134645	7.36800003	16.15634918	0.039916702	11.94379997	23.8876	1.29540503	1.928550005	0.0078244	3.58950996	7.179019928	2	254.3560028
	22	173.0797	718.9204102	3.017094	13.42146	4.11935091	4.95934391	0.012252792	7.615933895	76.15934	6.463294983	6.842707157	0.027761931	20.2975006	202.9750061	9.125	6560.148743
	23	475.3541	823.0648193	3.415052	14.8007	2.6685555	2.581086636	0.006376959	5.250088215	126.0021	6.461767673	6.250677109	0.025359962	20.873867	500.9728088	24	19753.55566
	24	473.5246	819.8967896	3.428787	14.77617	2.75408912	2.652825832	0.006554203	5.375099182	129.0024	6.367172241	6.134683132	0.024889357	20.4081421	489.7954102	24	19677.52295
	25	476.0058	824.1921387	3.437937	14.75983	2.21682477	2.134693861	0.005274083	4.342737198	99.88296	7.181788921	6.89552784	0.027976213	23.0786171	530.8082275	24	19780.61133
	26	470.3706	814.4358521	3.426117	14.78093	2.81180096	2.710523844	0.006696755	5.456421852	130.9541	6.296899796	6.071802139	0.024634222	20.0636082	481.5266113	24	19546.46045
	27	473.5056	819.8634033	3.457915	14.72414	2.50416589	2.398080111	0.005924815	4.849379063	116.3851	6.809945107	6.498191833	0.026364159	21.6351166	519.2427979	24	19676.72168
	28	475.4783	823.2788696	3.44227	14.75209	2.68874717	2.579824209	0.006373841	5.24841404	125.9619	6.570352554	6.305521965	0.025582463	21.0632076	505.5169983	24	19758.69287
	29	483.7752	837.6444092	3.446149	14.74515	2.68795085	2.576147556	0.00636476	5.332901001	127.9896	6.839673519	6.556134224	0.026599238	22.2833214	534.7996826	24	20103.46582
	30	481.1704	833.1350098	3.439281	14.75742	2.90130877	2.786218405	0.006883771	5.736481667	137.6756	6.596585274	6.336031914	0.025706241	21.4183617	514.0407104	24	19995.24023
	31	474.527	821.6329956	3.443414	14.75005	2.83851051	2.722653389	0.00672672	5.530237198	132.7257	6.410257339	6.149737358	0.024950413	20.5065422	492.1570129	24	19719.19189
Jun 05	01	470.0831	813.9364624	3.445003	14.7472	2.18794513	2.100898981	0.005190587	4.219574928	101.2698	6.958594322	6.668161869	0.027053766	22.0353832	528.8491821	23.25	18924.02275
	02	475.9729	824.1351318	3.433176	14.76834	2.35837531	2.269045353	0.005606018	4.621963501	110.9271	6.839356422	6.581538677	0.026702303	22.0074463	528.1787109	24	19779.24316
	03	475.857	823.9352417	3.445322	14.74664	2.31195211	2.216180801	0.005475405	4.513288975	108.3189	6.816460609	6.535854816	0.026516959	21.8491879	524.3804932	24	19774.4458
	04	473.4367	819.7444458	3.44316	14.7505	2.36473584	2.26844573	0.005604534	4.596244335	110.3099	6.725204468	6.452471256	0.026178662	21.461834	515.0839844	24	19673.8667
	05	480.6671	832.2644043	3.441124	14.75413	2.44152451	2.343528748	0.005790038	4.820373535	115.689	6.858911037	6.58450985	0.026714362	22.2346535	533.6317139	24	19974.3457
	06	487.0604	843.3335571	3.440489	14.75527	2.74153042	2.631736994	0.006502101	5.485969067	131.6633	6.913601875	6.638064861	0.026931642	22.713562	545.1254883	24	20240.00537
	07	488.104	845.1411133	3.432222	14.77003	2.73564696	2.632249594	0.006503367	5.499150276	131.9796	6.827272415	6.571081161	0.02665988	22.5325413	540.7810059	24	20283.38672
	08	482.621	835.6465454	3.405597	14.81759	2.62631869	2.546175003	0.006290706	5.261113644	126.2667	6.658802032	6.458076477	0.026201405	21.900341	525.6082153	24	20055.51709
	09	475.198	822.7935791	3.430313	14.77345	2.460922	2.369693279	0.005854684	4.820082664	115.682	6.453976631	6.216286659	0.02522042	20.7526455	498.0635071	24	19747.0459
	10	471.4866	816.3671875	3.44863	14.74073	2.31799364	2.219773769	0.005484281	4.478872299	107.4929	6.42885685	6.158477306	0.02498588	20.3979588	489.5509949	24	19592.8125
	11	471.5303	816.4432983	3.450155	14.738	2.1730001	2.080103636	0.005139207	4.196604252	100.7185	6.526793003	6.249608994	0.025355617	20.7038422	496.8922119	24	19594.63916
	12	470.0632	813.9030762	3.46459	14.71223	2.31894922	2.210909605	0.005462383	4.446081161	106.7059	6.395947933	6.098608017	0.02474298	20.1396332	483.3511963	24	19533.67383
	13	472.4752	818.0795898	3.47661	14.69075	2.05328441	1.955327868	0.004830932	3.945242882	94.68583	7.041266441	6.683654785	0.027116612	22.2030334	532.8728027	24	19633.91016
	14	470.4995	814.6594849	3.490093	14.66667	1.85312378	1.764157891	0.004358613	3.54289341	85.02944	7.470046997	7.05657053	0.028629579	23.3432426	560.237793	24	19551.82764

Unit 2 - CEMS Data

	15	471.5136	816.4146729	3.43025	14.77355	2.38222384	2.293761253	0.005667082	4.627702713	111.0649	6.591657162	6.348033905	0.025754955	21.0271664	504.6520081	24	19593.95215
	16	478.9501	829.2914429	3.42955	14.7748	2.43977618	2.349663258	0.005805196	4.814833641	115.556	6.743010521	6.495332241	0.026352549	21.8556957	524.5366821	24	19902.99463
	17	478.4724	828.4638672	3.44367	14.7496	2.44359255	2.343587875	0.005790185	4.797723293	115.1454	6.625680923	6.356269836	0.025788367	21.3662872	512.7908936	24	19883.13281
	18	384.8574	726.7841187	3.005745	13.15672	4.17481899	5.107724667	0.012619381	7.8172369	171.9792	6.313650131	6.334653854	0.025700655	20.3416042	447.5152893	21.12222	15351.29615
	19	478.5055	828.520813	3.443415	14.75005	2.62070155	2.513426781	0.006209797	5.146519661	123.5165	6.764315128	6.489478111	0.026328808	21.8165073	523.5961914	24	19884.49951
	20	475.5467	823.3977661	3.438391	14.75901	2.75599718	2.646862984	0.006539471	5.386830807	129.2839	6.5835495	6.325135231	0.025662033	21.1348133	507.2355042	24	19761.54639
	21	474.6045	821.7662354	3.442333	14.75197	2.85218287	2.736034632	0.006759781	5.55730772	133.3754	6.474167824	6.21361351	0.025209576	20.7222176	497.3331909	24	19722.38965
	22	472.196	817.5945435	3.445195	14.74687	2.74566245	2.631889582	0.006502478	5.319444656	127.6667	6.421863079	6.157633781	0.024982467	20.4270535	490.2492981	24	19622.26904
	23	472.1155	817.4564209	3.443415	14.75004	2.74280167	2.630474567	0.006498982	5.31313467	127.5152	6.489430428	6.226264	0.025260912	20.6546249	495.7109985	24	19618.9541
	24	477.1813	826.2280884	3.442206	14.75219	2.64311838	2.536021709	0.006265623	5.178347588	124.2803	6.68180275	6.412968159	0.026018383	21.5056324	516.1351929	24	19829.47412
	25	478.1819	827.9594727	3.440235	14.75572	2.70289636	2.595167875	0.006411749	5.312653065	127.5037	6.662564754	6.398038864	0.025957821	21.4991837	515.9804077	24	19871.02734
	26	474.8438	822.1799316	3.446594	14.74438	2.75090885	2.63600421	0.006512642	5.356883049	128.5652	6.502308846	6.232331276	0.025285516	20.7925873	499.0220947	24	19732.31836
	27	472.4888	818.1034546	3.450092	14.73813	2.65377045	2.54070425	0.006277189	5.139370441	123.3449	6.470511436	6.195782661	0.025137238	20.5674496	493.6188049	24	19634.48291
	28	476.5961	825.2148438	3.441189	14.75402	2.9817555	2.861570835	0.007069937	5.837155342	140.0917	6.410097599	6.153610706	0.024966137	20.60392	494.4941101	24	19805.15625
	29	473.1865	819.3116455	3.452444	14.73391	2.5669651	2.461199999	0.006080762	4.977574825	119.4618	6.886733532	6.583226204	0.026709158	21.896904	525.5256958	24	19663.47949
	30	473.2834	819.4780884	3.490092	14.66667	1.96345961	1.870210052	0.004620635	3.774436712	90.58648	7.571957111	7.154695511	0.029027708	23.8097382	571.4337158	24	19667.47412
Jul 05	01	470.6233	814.8735352	3.491682	14.66384	2.05837321	1.957815409	0.004837078	3.927346706	94.25632	7.461778641	7.047549725	0.028592987	23.3272915	559.8549805	24	19556.96484
	02	465.9476	806.7774048	3.440171	14.75583	2.87475753	2.760162592	0.006819394	5.50271225	132.0651	6.224086285	5.977065086	0.024249867	19.5652084	469.5650024	24	19362.65771
	03	468.7339	811.600769	3.438072	14.75958	2.87221336	2.758912802	0.006816309	5.533593178	132.8062	6.406918049	6.156464577	0.024977718	20.2719841	486.5275879	24	19478.41846
	04	471.2362	815.9343262	3.43413	14.76663	3.1154604	2.996203423	0.007402571	6.041022301	144.9845	6.39340353	6.150483131	0.024953455	20.3640289	488.7366943	24	19582.42383
	05	474.1151	820.9194946	3.473112	14.697	2.38190627	2.275228739	0.005621294	4.603307247	110.4794	7.318216324	6.950101376	0.028197626	23.1709042	556.1016846	24	19702.06787
	06	473.4423	819.7540283	3.453717	14.73165	2.22164965	2.131987572	0.005267398	4.303584576	103.286	7.392143726	7.061448574	0.028649379	23.516346	564.3922729	24	19674.09668
	07	472.0218	817.2947388	3.483352	14.67872	2.04915214	1.956166267	0.004833005	3.937944889	94.51068	7.451764107	7.053708553	0.028617984	23.4104156	561.8499756	24	19615.07373
	08	473.0902	819.1452026	3.48685	14.67247	2.14390635	2.040203333	0.005040628	4.10967207	98.63213	7.411065578	7.010458946	0.028442504	23.3368797	560.085083	24	19659.48486
	09	467.4204	809.3270264	3.431585	14.77117	2.96792245	2.856743336	0.007058012	5.714799404	137.1552	6.146819115	5.917378902	0.024007712	19.4302158	466.3251953	24	19423.84863
	10	470.4343	814.5452881	3.437691	14.76027	2.71577287	2.609133005	0.006446254	5.251258373	126.0302	6.384658337	6.135843277	0.024894046	20.2791004	486.6983948	24	19549.08691
	11	472.0304	817.30896	3.494163	14.6594	2.02609921	1.92655623	0.004759845	3.89084506	93.38028	7.368456841	6.956877232	0.02822512	23.0738659	553.7728271	24	19615.41504
	12	463.8821	803.2002563	3.506944	14.63657	2.00034332	1.893816233	0.004678955	3.74968791	89.99251	7.10899353	6.686833382	0.027129505	21.8064079	523.3538208	24	19276.80615
	13	461.5056	799.0856323	3.488185	14.67009	1.99938953	1.899984121	0.004694195	3.739732981	89.75359	7.203270912	6.813837528	0.02764478	22.1149883	530.7597046	24	19178.05518
	14	466.0528	806.9581909	3.490155	14.66655	1.95805371	1.863129973	0.004603141	3.70808506	88.99404	7.388170242	6.981421471	0.028324695	22.8717632	548.9223022	24	19366.99658
	15	463.2642	802.130127	3.502746	14.64407	2.10892868	1.997254133	0.004934516	3.942498446	94.61996	7.301841259	6.875247002	0.027893925	22.4107132	537.8571167	24	19251.12305
	16	454.5551	787.0509644	3.448437	14.74109	3.04296422	2.914773703	0.007201384	5.668309689	136.0394	5.919630527	5.670977116	0.02300803	18.1104336	434.6503906	24	18889.22314
	17	356.1595	704.7786865	3.112391	13.8484	7.56984234	12.20529652	0.030155005	9.660733223	202.8754	5.636047363	5.670650482	0.023006704	16.8927803	354.7483826	20.20278	14238.48725
	18	467.2283	808.9941406	3.51286	14.62602	2.37761426	2.245811224	0.005548612	4.476726055	107.4414	7.497393131	7.037945747	0.028554007	23.1258831	555.0211792	24	19415.85938
	19	467.9998	810.3308716	3.51445	14.62318	2.3941474	2.257070303	0.005576429	4.502253056	108.0541	7.578316689	7.114239216	0.028863549	23.4275036	562.2600708	24	19447.94092
	20	467.3815	809.2606201	3.493972	14.65974	2.44549966	2.318842411	0.005729045	4.62087965	110.9011	7.486900806	7.069752693	0.028683066	23.2485867	557.9661255	24	19422.25488
	21	467.2559	809.041748	3.495498	14.65704	2.5893805	2.456359625	0.006068802	4.893467903	117.4432	7.365753174	6.949843884	0.028196579	22.8479786	548.3515015	24	19417.00195
	22	468.6021	811.3724976	3.515212	14.62181	2.40130281	2.264089584	0.005593773	4.523193836	108.5566	7.363050461	6.909614086	0.028033363	22.7803001	546.7271729	24	19472.93994
	23	458.9807	794.7143555	3.432858	14.7689	3.45362043	3.32088995	0.008204757	6.530366898	156.7288	6.098169327	5.868852615	0.023810841	18.9199123	454.0778809	24	19073.14453
	24	459.3488	795.3516846	3.436546	14.76231	3.54726291	3.408858061	0.008422091	6.700148582	160.8036	6.116770267	5.880658627	0.023858717	18.9770336	455.4487915	24	19088.44043
	25	472.7171	818.49823	3.489393	14.66793	2.65933466	2.528001308	0.006245807	5.095699787	122.2968	7.584516048	7.167356014	0.029079063	23.836874	572.085022	24	19643.95752
	26	471.9232	817.1235352	3.476675	14.69064	2.97905207	2.838223457	0.007012258	5.718122005	137.2349	7.050326824	6.690407276	0.027144009	22.2043457	532.9042969	24	19610.96484
	27	473.4066	819.6922607	3.442384	14.75188	2.52959657	2.428646564	0.006000336	4.908240795	112.8895	7.569819927	7.262839317	0.029466443	24.1826611	556.2012329	24	19672.61426
	28	472.2258	817.6468506	3.471015	14.70075	2.50114369	2.397321701	0.005922941	4.831372261	115.9529	7.585787773	7.202467442	0.029221505	23.915638	573.9752808	24	19623.52441
	29	468.7558	811.6389771	3.508408	14.63397	2.35837674	2.227980375	0.00550456	4.456745625	106.9619	7.506931782	7.057892799	0.028634954	23.2672424	558.4138184	24	
	30	463.2451	802.0967407	3.447866	14.7421	3.61832881	3.466629267	0.008564828	6.86952877	164.8687	6.045863152	5.792653084	0.023501683	18.8530121	452.47229	24	
	31	462.2557	800.3842773	3.44354	14.74982	3.75839424	3.604967117	0.008906611	7.129780769	171.1147	6.000711441	5.756920815	0.023356713	18.6946754	448.6722107	24	
Aug 05	01	469.4126	812.7759399	3.482906	14.67951	2.79765129	2.665613413	0.006585796	5.326404572	127.8337	7.259233952	6.873532772	0.027886959	22.7078991	544.989624	24	19506.62256
	02	470.4782	814.621521	3.47464	14.69428	2.72817421	2.600561142	0.006425078	5.222614765	125.3428	7.207563877	6.843379498	0.027764626	22.6460838	543.5059814	24	19550.9165
	03	471.7942	816.8999023	3.452149	14.73445	2.76569462	2.651499987	0.006550927	5.340103149	117.4823	7.218996048	6.901305199	0.027999645	22.9077053	503.9694824	24	19605.59766
	04	471.8549	817.0046387	3.468852	14.70461	2.74916029	2.628471613	0.006494034	5.294528008	127.0687	7.241427422	6.884305477	0.027930675	22.8420582	548.2094116	24	19608.11133
	05	471.9042	817.090271	3.494036	14.65963	2.57332373	2.444074154	0.006038452	4.922166824	118.132	7.407407284	6.993303776	0.028372901	23.2022209	556.8532715	24	19610.1665
	06	461.5903	799.2332153	3.4382	14.75936	3.62103248	3.478589058	0.008594378	6.869943619	164.8786	6.029329777	5.793347836	0.023504496	18.7854004	450.8496094	24	19181.59717
	07	463.9205	803.2669678	3.428661	14.77639	3.70354462	3.56758213	0.008814246	7.080844402	169.9403	6.210570812	5.984283924	0.024279159	19.5023251	468.0557861	24	19278.40723
	08	470.0632	813.9033203	3.489838	14.66714	2.78715754	2.648598671	0.006543758	5.310114861	127.4428	7.44015789	7.031569958	0.028528158	23.2482338	557.9575806	24	19533.67969
	09	472.041	817.328186	3.496515	14.65521	2.58667755	2.452976704	0.006060447	4.940001011	118.56	7.464482784	7.04254055	0.028572662	23.3779583	561.0709839	24	19615.87646
	10	470.3209	814.3502808	3.442668	14.75138	3.21050501	3.085343599	0.007622803	6.195029736	136.2907	6.846972942	6.56484127	0.026634568	21.7271099	477.9963989	24	19544.40674
	11	470.9126	815.3729248	3.42688	14.77957	3.88923907	3.746336699	0.009255888	7.549298286	181.1832	6.432354927	6.201265335	0.025159471	20.5144882	492.3477173	24	19568.9502
	12	473.9371	820.6102295	3.46688	14.70814	2.71259451	2.595430851	0.006412402	5.256663322	126.1599	7.461619854	7.097267151	0.028794693	23.6436844	567.4484253	24	19694.64551
	13	365.896	724.007019	3.086517	13.6458	6.85795403	10.69877625	0.026432913	12.05146122	253.0807	6.470944405	6.875318527	0.02789421	20.0946579	421.987793	20.87222	15111.63588
	14	470.7637	815.1162109	3.440108	14.75595	3.24471545	3.115488291	0.007697281	6.274476051	150.5874	6.479256153	6.22242403	0.025245333	20.584816	494.035614	24	19562.78906
	15	467.4121	809.3129272	3.467516	14.70701	3.45934367	3.295263767	0.008141443	6.589678764	158.1523	6.183067799	5.890734196	0.023899604	19.3455257	464.2926025	24	19423.51025
	16	466.3658	807.5005493	3.479791	14.68507	3.42532086	3.255032539	0.008042043	6.490327358	155.7679	6.294992447	5.971991539	0.024229279	19.5793915	469.9053955	24	19380.01318

Unit 2 - CEMS Data

	17	467.4258	809.3366089	3.466795	14.70829	3.19288635	3.046170473	0.007526022	6.080862999	145.9407	6.585774899	6.269423485	0.025435999	20.6179581	494.8309937	24	19424.07861
	18	471.3658	816.1578369	3.442334	14.75199	3.26347446	3.131589651	0.007737062	6.316538334	151.5969	6.391179562	6.134081364	0.024886888	20.3141632	487.539917	24	19587.78809
	19	476.6427	825.2958374	3.484941	14.67587	2.85440874	2.714661121	0.006706976	5.526499748	132.636	6.988326073	6.61551857	0.026840154	22.1686783	532.0482788	24	19807.1001
	20	471.0665	815.6394043	3.443478	14.74992	3.52611637	3.382079124	0.008355932	6.8169837	163.6076	6.166374207	5.915641308	0.02400065	19.57617	469.8280945	24	19575.3457
	21	469.5053	812.937561	3.433875	14.76708	3.56522751	3.429255962	0.008472489	6.889914513	165.358	6.121858597	5.889422417	0.023894284	19.4246368	466.1913147	24	19510.50146
	22	472.1484	817.5136108	3.483033	14.67928	2.55217838	2.432617903	0.006010149	4.897874355	117.549	7.263207912	6.87558794	0.027895303	22.8350506	548.0411987	24	19620.32666
	23	473.9398	820.6151123	3.489139	14.66838	2.47618341	2.35697794	0.005823267	4.763032436	114.3128	7.404862881	6.99537468	0.028381292	23.3241615	559.7799072	24	19694.7627
	24	476.4647	824.9865723	3.418074	14.7953	2.39472175	2.317980766	0.005726917	4.715598583	108.4588	7.624455452	7.364603519	0.029879322	24.67663	567.5625	24	19799.67773
	25	476.8931	825.7285156	3.436037	14.76321	2.73167205	2.64165926	0.006526614	5.383357525	129.2006	7.211538792	6.920090199	0.028075866	23.1960869	556.7061157	24	19817.48438
	26	473.1977	819.3306885	3.459185	14.72188	3.01466537	2.885260344	0.00712847	5.835459709	140.051	6.827432156	6.513776302	0.026427396	21.6659508	519.9827881	24	19663.93652
	27	466.0083	806.8822021	3.432667	14.76924	3.33803916	3.211205006	0.007933764	6.404743671	153.7139	6.191652775	5.959077835	0.024176899	19.5086422	468.2073975	24	19365.17285
	28	463.3189	802.2252808	3.435465	14.76425	3.26697326	3.141091347	0.007760538	6.228084087	149.474	6.157470226	5.921170235	0.024023088	19.2727795	462.5466919	24	19253.40674
	29	471.1045	815.7059937	3.480362	14.68407	2.52880836	2.411859274	0.005958861	4.842075825	116.2098	7.280538559	6.896856785	0.0279816	22.8632164	548.7172241	24	19576.94385
	30	473.668	820.144104	3.431268	14.77173	3.139467	3.021831274	0.007465884	6.124768257	146.9944	6.55206871	6.308077335	0.025592824	20.9906654	503.776001	24	19683.4585
	31	475.2943	822.960022	3.451674	14.7353	2.71822095	2.607501745	0.006442221	5.294485092	121.7732	7.117860794	6.805399895	0.027610544	22.7415829	523.0563965	24	19751.04053
Sep 05	01	472.8874	818.7931519	3.47661	14.69076	2.5119555	2.39923954	0.00592768	4.842643261	116.2234	7.322668076	6.944580078	0.028175212	23.0936794	554.248291	24	19651.03564
	02	474.0689	820.8386841	3.484942	14.67588	2.58222628	2.457496643	0.006071612	4.971228123	119.3095	7.221712112	6.83468008	0.027729342	22.786171	546.868103	24	19700.12842
	03	472.533	818.1794434	3.44405	14.74891	3.20528698	3.073876619	0.007594471	6.214821815	149.1557	6.48227644	6.217909336	0.025227008	20.6439667	495.4552002	24	19636.30664
	04	476.1623	824.4633179	3.445067	14.7471	3.227705	3.094564199	0.007645582	6.305676937	151.3362	6.547459126	6.278488159	0.025472783	21.0049248	504.1181946	24	19787.11963
	05	474.2391	821.1335449	3.443541	14.74982	3.22007251	3.088589191	0.007630826	6.267486572	150.4197	6.430606842	6.168981075	0.025028504	20.5540543	493.2973022	24	19707.20508
	06	473.9312	820.600769	3.448693	14.74062	3.21641588	3.080729961	0.007611405	6.248222351	149.9573	6.453976631	6.182831287	0.0250847	20.5880756	494.1138	24	19694.41846
	07	476.5882	824.2935181	3.443816	14.75878	2.74454999	2.642638445	0.006527014	5.372544765	128.9411	7.083130836	6.797700882	0.027569693	22.7444	545.8656006	24	19783.04443
	08	475.4973	822.0706787	3.434384	14.77948	3.05075455	2.940547943	0.00726158	5.971463203	143.3151	6.594838142	6.358254433	0.025784034	21.2005501	508.8132019	24	19729.69629
	09	475.9016	822.7688599	3.451936	14.7482	2.91418719	2.794422626	0.006900728	5.678454399	136.2829	6.57559824	6.306752205	0.025575196	21.0444756	505.0674133	24	19746.45264
	10	386.782	729.4845581	3.092325	13.64739	5.91069603	10.60161495	0.026180355	9.441892624	207.7216	6.421934128	6.910753727	0.028024545	20.0144958	440.3189087	21.25833	15507.6258
	11	482.3082	833.8449707	3.451363	14.74922	2.82006788	2.704829693	0.006679482	5.570495605	133.6919	6.887528896	6.606621742	0.026791224	22.3409538	536.1829224	24	20012.2793
	12	482.9203	834.9040527	3.452572	14.74706	3.09988046	2.971507549	0.007338032	6.128848553	147.0924	6.790864944	6.511810303	0.026406746	22.047863	529.1486816	24	20037.69727
	13	481.698	832.7905884	3.448374	14.75453	3.79273462	3.641198874	0.008991818	7.485760212	179.6582	6.805970192	6.534012794	0.026496779	22.068079	529.6339111	24	19986.97412
	14	479.9423	829.7557373	3.445768	14.75918	4.19719124	4.03234005	0.009957721	8.261127472	198.267	6.703582287	6.440696239	0.026118346	21.6735802	520.1658936	24	19914.1377
	15	477.4095	825.3763428	3.450917	14.75001	4.21928978	4.046707153	0.0099932	8.250894547	198.0215	6.61645937	6.347829819	0.02574175	21.2499123	509.9978943	24	19809.03223
	16	478.7582	827.7084351	3.404935	14.83196	4.14742327	4.03178215	0.009956343	8.239613533	189.5111	6.634549141	6.450516224	0.026158165	21.6440907	497.8140869	24	19865.00244
	17	478.6348	827.4946899	3.426117	14.7942	2.63055873	2.551368713	0.006300513	5.22764349	125.4634	6.579416275	6.358992577	0.025787033	21.34095	512.1828003	24	19859.87256
	18	478.4041	827.0957642	3.452381	14.7474	2.70384955	2.591178656	0.006398825	5.292076111	127.0098	6.598017216	6.327511787	0.025659367	21.2248783	509.3970947	24	19850.29834
	19	475.4943	822.0658569	3.456515	14.74003	3.56554532	3.415187597	0.00843369	6.927007198	166.2482	6.515027523	6.240001202	0.025304507	20.8052254	499.3254089	24	19729.58057
	20	472.6539	817.1547241	3.449212	14.75305	2.66174817	2.555505991	0.006310734	5.148032665	113.2567	7.291607857	6.994430065	0.028363869	23.2139359	510.706604	24	19611.71338
	21	473.7641	819.0736694	3.436674	14.77539	2.69049549	2.600071669	0.006420783	5.251913548	126.0459	6.633311272	6.383295059	0.02588558	21.2187786	509.2507019	24	19657.76807
	22	473.6291	818.8409424	3.473813	14.7092	2.30146003	2.203921556	0.005442509	4.445421696	106.6901	7.14746809	6.800096512	0.0275758	22.6031914	542.4766235	24	19652.18262
	23	471.4234	815.0270996	3.459757	14.73425	2.39144588	2.295259237	0.005668063	4.612370491	110.6969	6.955891132	6.647850513	0.026958417	21.9869785	527.6875	24	19560.65039
	24	483.0057	835.0513306	3.443161	14.76383	2.75806284	2.651413441	0.006547574	5.468445301	131.2427	6.916304111	6.650148869	0.026967738	22.5205917	540.4942017	24	20041.23193
	25	478.838	827.8462524	3.451746	14.74853	2.75106883	2.638682127	0.006516134	5.398069382	129.5537	6.809466362	6.531344414	0.026485963	21.9312668	526.3504028	24	19868.31006
	26	474.7255	820.7360229	3.451236	14.74944	2.80575919	2.69088006	0.006645033	5.45545578	130.9309	6.553023338	6.286078453	0.025491355	20.9256458	502.2155151	24	19697.66455
	27	477.5904	825.6898193	3.455879	14.74117	2.66394496	2.551689148	0.006301309	5.204068184	124.8976	6.626634121	6.348546982	0.025744675	21.2625923	510.3022156	24	19816.55566
	28	475.6098	822.2655029	3.414861	14.81427	2.5911293	2.513805628	0.006207753	5.100398064	122.4096	6.753504753	6.544255257	0.026538305	21.8331127	523.9946899	24	19734.37207
	29	470.7828	813.9202881	3.431777	14.78413	2.75679159	2.660471678	0.006569942	5.350445747	128.4107	6.466536522	6.240561008	0.025306771	20.6005669	494.4136047	24	19534.08691
	30	471.0744	814.4238281	3.476737	14.70399	2.36855125	2.259476185	0.005579697	4.539562225	108.9495	6.972585678	6.63406086	0.026902495	21.9263573	526.232605	24	19546.17188
Oct 05	01	469.2197	811.2177734	3.457532	14.73823	2.54613757	2.437582493	0.006019524	4.884593964	117.2303	6.58688879	6.307305813	0.02557742	20.7506676	498.0159912	24	19469.22656
	02	471.7994	815.6777344	3.460776	14.73244	2.60829997	2.494799614	0.006160819	5.026105404	120.6265	6.546664715	6.262844086	0.025397116	20.7174873	497.219696	24	19576.26563
	03	484.4012	837.4642334	3.452381	14.7474	2.81466341	2.698649645	0.006664221	5.583119392	133.9949	6.902313232	6.61900425	0.026841437	22.4793625	539.5046997	24	20099.1416
	04	486.956	841.8814087	3.452127	14.74785	2.93501377	2.814029694	0.006949148	5.853958607	140.495	6.928228378	6.644379139	0.02694433	22.6858082	544.4594116	24	20205.15381
	05	483.5739	836.0345459	3.434638	14.77902	2.76935172	2.668252945	0.006589156	5.512647629	132.3035	6.901678085	6.652500629	0.026977278	22.5560169	541.3444214	24	20064.8291
	06	480.8216	831.2755127	3.451045	14.74978	2.67157626	2.562844515	0.006328857	5.265340805	126.3682	6.858115196	6.580089092	0.026683621	22.1881046	532.5145264	24	19950.6123
	07	476.4092	823.647522	3.453845	14.74478	2.50543714	2.401078463	0.005929379	4.886127472	117.2671	6.856365681	6.572225094	0.026651733	21.9556084	526.9346313	24	19767.54053
	08	484.9065	838.3381348	3.460456	14.73301	2.44883919	2.342494249	0.005784704	4.85299015	116.4718	7.044763565	6.739926338	0.027331796	22.9139919	549.935791	24	20120.11523
	09	480.4589	830.6485596	3.474449	14.70807	2.39224076	2.279027939	0.00562798	4.67670393	112.2409	6.954619408	6.626414776	0.026871484	22.3255253	535.8126221	24	19935.56543
	10	476.7608	824.2554932	3.469042	14.7177	2.35996675	2.25172925	0.005560565	4.586042881	110.065	6.850325584	6.537659645	0.026511557	21.8549995	524.5200195	24	19782.13184
	11	476.6099	823.9942627	3.463956	14.72677	2.33484745	2.230828762	0.005508954	4.542393684	109.0174	6.851438046	6.548295021	0.026554687	21.8843117	525.2235107	24	19775.8623
	12	475.9151	822.7926025	3.471544	14.71324	2.31327724	2.209198713	0.00545554	4.484707832	107.633	6.960925579	6.63336277	0.026899662	22.1449203	531.4780884	24	19747.02246
	13	472.2087	816.385498	3.457088	14.73901	2.46632624	2.36144042	0.005831498	4.763685226	114.3285	6.617730141	6.337517738	0.025699941	20.9831409	503.5953979	23.99722	19590.98477
	14	473.1512	818.0144653	3.476483	14.70445	1.93961179	1.851754546	0.004572842	3.739526749	89.74864	7.468458176	7.103654385	0.028806787	23.5727501	565.7459717	24	19632.34717
	15	478.2227	826.7822266	3.463701	14.72722	2.12864494	2.034237146	0.005023475	4.154251099	99.70203	7.042537689	6.732114792	0.027300132	22.5720215	541.7285156	24	19842.77344
	16	365.7292	722.6168213	3.089861	13.56885	6.15951395	13.3313446	0.032921214	11.27528763	236.781	6.608426571	7.099195957	0.028788691	20.6477242	433.6022034	20.26667	14645.03406
	17	473.7256	819.0072632	3.465609	14.72382	2.86076808	2.734995842	0.006753977	5.531543255	132.757	6.897067547	6.586155891	0.026708221	21.8803616	525.1287231	24	19656.17432
	18	471.1871	814.6185913	3.481952	14.6947	3.09670115	2.943183422	0.007268091	5.923584461	142.166	6.551433563	6.229393482	0.025261478	20.5784245	493.8822021	24	19550.84619

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	19	477.5002	825.5331421	3.465418	14.72417	3.38939095	3.23761344	0.007995173	6.6016922	158.4406	6.536490917	6.244326115	0.025322033	20.906641	501.7593994	24	19812.79541
	20	473.5744	818.7459106	3.453399	14.7456	2.98747969	2.862684965	0.007069302	5.790989399	138.9837	6.387680531	6.123730659	0.024832999	20.3318291	487.9638977	24	19649.90186
	21	477.7718	826.0033569	3.474829	14.70739	2.45503879	2.34981513	0.005802787	4.781343937	114.7523	7.159551144	6.810745716	0.027618987	22.8353043	548.0473022	24	19824.08057
	22	469.6432	811.9490967	3.453271	14.74581	2.82197547	2.705443382	0.006680998	5.426380157	130.2331	6.418205738	6.153422832	0.024953416	20.2626286	486.3031006	24	19486.77832
	23	468.0552	809.2039795	3.457341	14.73856	2.77904868	2.660828829	0.006570823	5.318698406	127.6488	6.40167141	6.130055428	0.024858646	20.1168041	482.8032837	24	19420.89551
	24	469.9233	812.4336548	3.473812	14.70921	2.79462957	2.663313866	0.006576962	5.344326019	128.2638	6.443166256	6.141043186	0.024903204	20.2341919	485.6206055	24	19498.40771
	25	475.6014	822.2510986	3.46192	14.7304	2.77364302	2.652210474	0.006549543	5.38640213	129.2737	6.484500885	6.201109409	0.025146771	20.6781006	496.2744141	24	19734.02637
	26	476.9343	824.5548096	3.441443	14.76689	2.92404342	2.81195879	0.006944032	5.72826767	137.4784	6.591657162	6.341417789	0.025715759	21.2047882	508.9148865	24	19789.31543
	27	480.6923	831.0522461	3.452509	14.74717	2.80814409	2.69187212	0.006647482	5.52559185	132.6142	6.767495155	6.48982811	0.026317587	21.8713036	524.9113159	24	19945.25391
	28	482.926	834.9135132	3.461666	14.73085	2.85822344	2.733237982	0.006749635	5.637513161	135.3003	6.842694283	6.544190407	0.026538046	22.1582127	531.7971191	24	20037.92432
	29	481.3488	832.1873779	3.465925	14.72326	2.86410546	2.735508204	0.006755242	5.622673512	134.9442	6.770357132	6.467010498	0.026225058	21.8269176	523.8460083	24	19972.49707
	30	478.3156	826.9437256	3.467261	14.72088	2.88398004	2.75312829	0.006798754	5.624317169	134.9836	6.574010849	6.276806355	0.025453754	21.0510044	505.2240906	24	19846.64941
	31	479.0331	828.1834717	3.448629	14.75409	3.27937365	3.147820473	0.007773436	6.440245152	154.5659	6.440939903	6.183166981	0.025074026	20.7670116	498.4082947	24	19876.40332
Nov 05	01	475.7753	822.550354	3.456071	14.74082	2.52006388	2.421520948	0.00597986	4.9190588	118.0574	7.06368351	6.759459496	0.027411008	22.5518627	541.2446899	24	19741.2085
	02	477.5634	825.642395	3.414047	14.81572	2.64655304	2.565551281	0.006335541	5.232659817	120.3512	6.813938618	6.607130051	0.026793266	22.1193485	508.7449951	24	19815.41748
	03	484.2912	837.274353	3.430441	14.7865	2.94773173	2.84467411	0.007024826	5.882660389	141.1839	6.895794868	6.655273914	0.026988525	22.5964622	542.3151245	24	20094.58447
	04	483.1814	835.3553467	3.442905	14.76428	2.96379042	2.849688292	0.007037207	5.880357265	141.1286	6.882599831	6.618602276	0.026839808	22.4228745	538.1489868	24	20048.52832
	05	483.2937	835.5501709	3.436928	14.77495	2.96045089	2.851480722	0.007041631	5.884603977	141.2305	6.816620827	6.566091537	0.026626863	22.2490463	533.9771118	24	20053.2041
	06	479.615	829.1903076	3.44227	14.76541	2.68381834	2.581223011	0.006374242	5.28683567	126.884	6.905017376	6.641596794	0.026933059	22.3337746	536.0106201	24	19900.56738
	07	474.9726	821.1635742	3.45111	14.74966	2.5695076	2.464687109	0.006086459	5.000123978	120.003	6.829975605	6.552084923	0.026570063	21.8210163	523.7044067	24	19707.92578
	08	472.0001	816.0244141	3.446721	14.7575	2.34788418	2.253760099	0.005565578	4.547180176	109.1323	6.871629238	6.600889683	0.026767971	21.8407459	524.1779175	24	19584.58594
	09	477.8521	826.1410522	3.371291	14.89192	2.50874782	2.464063883	0.006084919	5.027373314	115.6296	6.815376282	6.691975594	0.027137352	22.4197655	515.6546021	24	19827.38525
	10	476.6103	823.9943237	3.394638	14.8503	2.65615368	2.589149237	0.006393814	5.269790649	126.475	6.712325573	6.548635483	0.026556067	21.8816967	525.1607056	24	19775.86377
	11	468.0051	809.1183472	3.452509	14.74716	3.0733304	2.943657398	0.00726926	5.84077549	140.1786	6.716141701	6.44027853	0.026116667	21.1335506	507.2052002	24	19418.84033
	12	476.2444	823.3624268	3.442015	14.76587	3.12817907	3.007272005	0.007426355	6.105262756	146.5263	6.756842136	6.498809814	0.026354024	21.6966801	520.7202759	24	19760.69824
	13	460.1809	795.5914307	3.427579	14.79159	3.20958042	3.087692022	0.00762495	5.974574566	143.3898	6.722978592	6.494403362	0.02633615	20.9632206	503.1173096	24	19094.19434
	14	475.3215	821.7666016	3.415623	14.8129	2.7734859	2.687340736	0.006636292	5.453445911	130.8827	6.800722599	6.591832638	0.026731255	21.9679165	527.2299805	24	19722.39844
	15	476.86	824.4264526	3.43025	14.78685	2.62721968	2.534687519	0.006259321	5.161995411	123.8879	6.822662354	6.585906506	0.026707213	22.0206699	528.4960938	24	19786.23486
	16	467.6073	808.4296875	3.442427	14.76514	3.10619688	2.980346441	0.007359857	5.87995863	135.239	6.772963524	6.513493061	0.02641356	21.2954006	489.7941895	24	19402.3125
	17	465.184	804.2406006	3.447165	14.7567	2.81355	2.701794147	0.006671983	5.343407631	128.2418	6.913125038	6.640573502	0.026928909	21.6334915	519.2037964	24	19301.77441
	18	466.2778	806.1308594	3.45734	14.73856	2.76760197	2.648583651	0.006540583	5.261876583	126.285	6.904062271	6.610877514	0.026808474	21.5991077	518.3786011	24	19347.14063
	19	464.7116	803.4234619	3.455433	14.74197	2.76013088	2.64288497	0.006526509	5.21995163	125.2788	7.033952236	6.739875317	0.027331596	21.9401493	526.5635986	24	19282.16309
	20	463.1048	800.6450806	3.472287	14.71192	2.3890605	2.276984692	0.005622932	4.490986824	107.7837	7.067817688	6.738505363	0.027326021	21.8656044	524.7744751	24	19215.48193
	21	475.1404	821.4533081	3.459249	14.73516	2.48365617	2.375981331	0.0058674	4.823148251	115.7556	7.074493885	6.771351337	0.027459241	22.5558205	541.3397217	24	19714.87939
	22	476.8159	824.3505249	3.417828	14.80897	2.71354747	2.631177425	0.006497601	5.359884739	128.6372	6.98424387	6.763357162	0.027426809	22.6083717	542.6008911	24	19784.4126
	23	477.0164	824.6971436	3.411935	14.81948	2.80035281	2.71557951	0.006706028	5.532616615	132.7828	6.934745789	6.732042313	0.027299829	22.5145874	540.3500977	24	19792.73145
	24	466.7448	806.9384155	3.448057	14.7551	2.77094173	2.659222841	0.006566855	5.275865555	126.6208	7.062093258	6.78064394	0.027496921	22.1800632	532.3215332	24	19366.52197
	25	474.6926	820.6789551	3.439598	14.77018	2.58397579	2.486147881	0.006139455	5.040165901	120.964	6.884348392	6.627288342	0.026875025	22.0576916	529.3845825	24	19696.29492
	26	480.3595	830.477478	3.4506	14.75057	2.77539301	2.660866261	0.006570918	5.445400238	130.6896	7.24031496	6.947399139	0.028173137	23.4053497	561.7283936	24	19931.45947
	27	469.7416	812.1202393	3.4375	14.77392	3.29670382	3.159144878	0.007801397	6.209681988	149.0324	7.349378109	7.079993248	0.028710846	23.3446255	560.2709961	24	19490.88574
	28	469.2691	811.3031006	3.424845	14.79647	3.1448741	3.032256603	0.007488057	5.965199947	143.1648	7.363686562	7.118587971	0.028867351	23.4307461	562.3378906	24	19471.27441
	29	468.0304	809.1610718	3.442269	14.76543	2.83167243	2.722475767	0.006723057	5.404202938	129.7009	6.992457867	6.725780964	0.027274437	22.0452423	529.0858154	24	19419.86572
	30	478.9039	827.960144	3.443357	14.76349	2.7134099	2.608186483	0.006440826	5.333562851	122.6719	6.909274101	6.643281937	0.026939882	22.3020039	512.946106	24	19871.04346
Dec '05	01	473.0578	817.8530273	3.443223	14.76373	2.57666206	2.47766757	0.006118512	5.004157543	120.0998	6.929976463	6.663824081	0.027023196	22.0997505	530.3939819	24	19628.47266
	02	477.4561	825.4572754	3.465863	14.72337	2.80814242	2.681384563	0.006621586	5.471324921	131.3118	6.997545242	6.684001446	0.027105009	22.37393	536.9743042	24	19810.97461
	03	485.6733	839.6633301	3.468533	14.71861	2.49669337	2.382367134	0.005883174	4.943342209	118.6402	7.374339104	7.038538456	0.028542733	23.9676552	575.2236938	24	20151.91992
	04	356.0715	738.7194824	2.960928	13.01073	2.809829	2.775670052	0.00685442	5.564063072	111.2813	6.642055035	7.014491081	0.02844522	21.5815201	431.6304016	19.08333	14097.23059
	05	470.2852	813.0606079	3.455942	14.74105	3.65839291	3.495404243	0.008631777	6.898396969	165.5615	7.140472889	6.840925217	0.027741374	22.5818501	541.9644165	24	19513.45459
	06	469.2915	811.3413086	3.455369	14.74207	3.34344292	3.19563365	0.007891504	6.295367718	151.0888	7.274497032	6.97069025	0.028267596	22.9615993	551.0783691	24	19472.19141
	07	470.1263	812.7851563	3.450091	14.75149	2.84524035	2.726946354	0.006734097	5.419491768	130.0678	7.365012169	7.067944527	0.028661987	23.3095703	559.4296875	24	19506.84375
	08	478.0386	826.4641724	3.468279	14.71907	2.46410131	2.351328373	0.005806523	4.799565792	115.1896	7.313129902	6.981523514	0.028311521	23.3990116	561.5762939	24	19835.14014
	09	474.1653	819.7670288	3.478518	14.70082	2.78493118	2.648509502	0.0065404	5.35543251	128.5304	7.116147518	6.773247719	0.027466917	22.5205498	540.4932251	24	19674.40869
	10	478.8655	827.8936768	3.474512	14.70796	2.75949502	2.629256248	0.006492855	5.378854752	129.0925	7.150805473	6.813536644	0.027630305	22.8779831	549.0715942	24	19869.44824
	11	460.6428	796.3895264	3.484686	14.68983	2.95425081	2.803158283	0.006922305	5.436746597	130.4819	7.205496788	6.846198082	0.027762746	22.1333542	531.2005005	24	19113.34863
	12	475.1208	821.420105	3.476737	14.70399	2.47538781	2.356699228	0.005819787	4.782185555	114.7725	7.271475792	6.924431324	0.028080003	23.0660954	553.5863037	24	19714.08252
	13	476.794	824.312439	3.454593	14.74345	2.57287908	2.465274096	0.00608791	5.010839462	100.2168	7.282700062	6.979319096	0.02830258	23.2852306	465.7045898	24	19783.49854
	14	475.6534	822.3413086	3.451363	14.74921	2.38858342	2.291110754	0.00565782	4.654308796	111.7034	7.319012165	7.02069664	0.028470375	23.413229	561.9174805	24	19736.19141
	15	479.151	828.3876343	3.419567	14.80588	2.4428699	2.364300013	0.005838555	4.834125519	106.3508	7.518869877	7.280470848	0.029523805	24.4399052	537.6779175	24	19881.30322
	16	481.5277	832.4962158	3.450919	14.75	2.44200206	2.343887091	0.005788146	4.822523594	115.7406	7.751609325	7.437448978	0.030160395	25.1110458	602.6651001	24	19979.90918
	17	475.0193	821.2443848	3.471332	14.71362	2.23341465	2.129007816	0.005257513	4.327347755	103.8563	7.570207596	7.219443321	0.029276345	24.0490799	577.1779175	24	19709.86523
	18	463.0325	800.5216064	3.4665	14.72225	1.96441245	1.875493288	0.004631464	3.709417105	89.02601	7.027911186	6.712541103	0.02722075	21.7936249	523.0469971	24	19212.51855
	19	468.3519	809.71698	3.473748	14.70933	2.64009833	2.516149998	0.006213543	5.031835079	120.764	6.665267467	6.351994514	0.025758658	20.8580799	500.5939026	24	19433.20752
	20	467.5797	808.3823242	3.443161	14.76383	2.45965075	2.364062071	0.005837971	4.726075172	113.4258	6.809149265	6.54739809	0.026551059	21.4633083	515.1193848	24	19401.17578

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	21	471.7858	815.6539307	3.464401	14.72598	2.57237077	2.458664179	0.006071585	4.952805996	118.8673	6.875445366	6.569664478	0.02664135	21.7332287	521.5974731	24	19575.69434
	22	467.4592	808.1732178	3.438181	14.77271	2.46008611	2.368653059	0.005849304	4.726372719	108.7066	6.684982777	6.436445713	0.026101131	21.0884304	485.033905	24	19396.15723
	23	466.3051	806.1783447	3.468217	14.71918	2.67125869	2.5499053	0.006296904	5.077570438	121.8617	6.474963188	6.181228638	0.025066158	20.2099495	485.0387878	24	19348.28027
	24	468.5439	810.0494385	3.46866	14.71839	2.58174992	2.463715315	0.00608406	4.929441452	118.3066	6.763678551	6.455627441	0.026178896	21.2068462	508.9642944	24	19441.18652
	25	470.4016	813.2601318	3.464146	14.72643	2.52642369	2.414157629	0.005961679	4.848760605	116.3702	6.902154446	6.596664906	0.026750833	21.7573166	522.1755981	24	19518.24316
	26	473.3023	818.2757568	3.4906	14.6793	2.68381739	2.545351744	0.00628566	5.145988464	123.5037	6.820754051	6.469022751	0.026233247	21.4695835	515.2700195	24	19638.61816
	27	481.3022	832.1065674	3.457786	14.73777	3.22102666	3.08326292	0.007614008	6.337218761	152.0932	6.985620975	6.688592911	0.027123621	22.5696754	541.6721802	24	19970.55762
	28	478.827	824.3354492	3.429614	14.82009	3.25187039	3.155481339	0.007795718	6.425142288	154.2034	6.86394453	6.66041708	0.027020425	22.2785168	534.6843872	24	19784.05078
	29	480.9096	826.6060181	3.447358	14.80059	3.14439535	3.04110384	0.007514205	6.212908268	149.1098	7.023618221	6.793832779	0.027566204	22.7879715	546.9113159	24	19838.54443
	30	479.9973	825.038147	3.455815	14.78563	2.88715959	2.785594225	0.006882875	5.683651924	136.4077	7.213923931	6.961265564	0.02824557	23.3052254	559.3253784	24	19800.91553
	31	477.2945	820.3916626	3.494608	14.717	2.75234008	2.626627445	0.006490087	5.324376106	127.785	6.997385979	6.678647041	0.027098838	22.2293453	533.5042725	24	19689.3999
Jan '06	01	484.9808	833.604187	3.511842	14.68651	2.53087378	2.402832031	0.005937112	4.950764656	118.8184	7.074494362	6.71765995	0.027257133	22.7238369	545.3720703	24	20006.50049
	02	485.352	834.2415161	3.554577	14.61086	2.34836078	2.202326298	0.005441687	4.5410285	108.9847	6.938879967	6.510887623	0.026418146	22.0393505	528.944397	24	20021.79639
	03	491.2668	844.4082642	3.54739	14.62359	2.92006969	2.745807409	0.006784565	5.730101585	137.5224	6.898657322	6.485193729	0.026313879	22.2197952	533.2750854	24	20265.79834
	04	493.9751	849.064209	3.496776	14.71317	3.33618522	3.181504011	0.007861121	6.675516605	153.5369	6.786841869	6.471857071	0.026259778	22.2942696	512.7681885	24	20377.54102
	05	491.2061	844.3044434	3.507581	14.69405	3.50370073	3.331053019	0.008230641	6.952306271	166.8553	6.586888313	6.26303339	0.025412463	21.4638634	515.1326904	24	20263.30664
	06	494.7388	850.3769531	3.557947	14.6049	2.42228794	2.282967806	0.005640944	4.787146568	114.8915	7.783723831	7.283542156	0.02955322	25.1543617	603.7047119	24	20409.04688
	07	494.5273	850.0133057	3.54472	14.6283	3.19749784	3.007323742	0.007430741	6.317576408	151.6218	6.842535973	6.437773705	0.026121475	22.2069092	532.9658203	24	20400.31934
	08	496.0933	852.704895	3.538677	14.63901	3.35091662	3.157591581	0.007802033	6.654681206	159.7124	6.796269894	6.404551506	0.025986688	22.1605797	531.8538818	24	20464.91748
	09	494.6891	850.2921753	3.52475	14.66367	3.37540054	3.19317627	0.007889958	6.710714817	161.0572	6.814553261	6.447038651	0.02615907	22.2457466	533.8978882	24	20407.01221
	10	491.0524	844.039917	3.500076	14.70732	3.34996462	3.190996647	0.007884574	6.659229279	159.8215	6.9240942	6.597046852	0.026767746	22.5933704	542.2409058	24	20256.95801
	11	495.3546	851.4348145	3.48686	14.7307	3.29358172	3.149040937	0.007780906	6.623876572	145.7253	7.022144318	6.715355873	0.027247787	23.1851311	510.0729065	24	20434.43555
	12	490.9754	843.9076538	3.506753	14.6955	3.14206338	2.987692833	0.007382235	6.23139286	149.5534	6.79531765	6.462256908	0.026220821	22.1304169	531.1300049	24	20253.78369
	13	488.72	840.0307617	3.513939	14.68279	2.77576423	2.637038708	0.006515813	5.476993561	131.4478	7.138511658	6.771123409	0.027474055	23.0853119	554.0474854	24	20160.73828
	14	385.1869	756.6185913	3.157307	13.57212	5.01409912	5.969434261	0.014749755	9.459207535	198.6434	7.929604053	9.473151207	0.038437624	24.8608418	522.0776978	20.86667	15788.10803
	15	500.5769	860.411377	3.505926	14.69697	3.56411505	3.389377832	0.008374752	7.209935188	173.0385	6.974174976	6.633774757	0.026916763	23.1590424	555.8170166	24	20649.87305
	16	504.9201	867.8770752	3.496788	14.71314	3.96770859	3.781529903	0.009343719	8.111382484	170.339	6.966066837	6.642733574	0.02695311	23.3708286	490.7874146	24	20829.0498
	17	496.874	854.0459595	3.474894	14.75187	3.65044379	3.501262426	0.008651203	7.401997089	177.6479	6.989278316	6.707188129	0.02721465	23.2443333	557.8640137	24	20497.10303
	18	490.7309	843.4875488	3.493209	14.71947	3.23533583	3.087693691	0.007629327	6.436472893	154.4754	6.875603676	6.56534338	0.026639096	22.4708881	539.3012695	24	20243.70117
	19	498.3764	856.6289063	3.512351	14.68561	3.69511867	3.507486343	0.008666584	7.427173138	178.2522	6.98085165	6.627689362	0.026892072	23.0368252	552.8837891	24	20559.09375
	20	499.4368	858.4517822	3.496515	14.71362	3.78812456	3.611679077	0.008924032	7.666536331	183.9969	7.007879257	6.683076859	0.027116803	23.2815742	558.7578125	24	20602.84277
	21	496.8678	854.0366211	3.489519	14.726	3.62325668	3.461129904	0.008552044	7.310262203	175.4463	6.976399899	6.666887283	0.027051117	23.1024036	554.4577026	24	20496.87891
	22	493.4586	848.1765137	3.491874	14.72184	3.46634054	3.309464931	0.008177297	6.940297127	166.5671	6.930136204	6.618252277	0.026853776	22.7775955	546.6622925	24	20356.23633
	23	494.9752	850.7832031	3.492063	14.7215	3.66634297	3.499546528	0.008646966	7.364681244	176.7523	6.951121807	6.637751579	0.026932895	22.9166088	549.9985962	24	20418.79688
	24	492.8958	847.2085571	3.41471	14.85834	3.22091055	3.143388271	0.00776694	6.574839115	144.6465	7.039834499	6.874847412	0.027894923	23.602623	519.2576904	24	20333.00537
	25	491.654	845.0740967	3.459124	14.77977	3.17126489	3.058268785	0.007556621	6.387919426	153.3101	7.008357525	6.758480549	0.027422767	23.175766	556.2183838	24	20281.77832
	26	491.706	845.1638794	3.478582	14.74535	3.47238111	3.328562975	0.008224484	6.952035427	166.8488	6.796270847	6.514955997	0.026434654	22.3419247	536.2061768	24	20283.93311
	27	494.6182	850.1693115	3.467389	14.76515	3.58525968	3.446837425	0.008516727	7.245299816	173.8872	6.931884289	6.666666031	0.027050225	22.9970455	551.9290771	24	20404.06348
	28	500.1863	859.7408447	3.483543	14.73658	3.63502288	3.479273796	0.008596873	7.395583153	177.494	6.853505611	6.560637474	0.026620001	22.888155	549.3156738	24	20633.78027
	29	494.5302	850.0180664	3.490092	14.72499	3.39495492	3.243495941	0.008014289	6.814940929	163.5586	6.792773247	6.490763664	0.026336491	22.3889408	537.3345947	24	20400.43359
	30	485.0057	833.6467285	3.464019	14.77111	3.2501204	3.128577948	0.007730345	6.446125507	154.707	6.872901917	6.616579056	0.026846988	22.3804131	537.1298828	24	20007.52148
	31	484.1647	832.2015991	3.455561	14.78607	3.41610074	3.296175718	0.008144461	6.779454231	162.7069	6.964159966	6.720611572	0.027269101	22.6935997	544.6464233	24	19972.83838
Total		336,488	570,409							88,240					374,567	16,840	13,483,840	
Average		473.9264	803.3935939	3.419967	14.70357	2.82326244	2.979331276	0.007310943	5.358558425	124.2811	7.066342314	6.860255226	0.027652334	22.2381125	527.5598322	23.03663	18598.4001	
Ann Avg.		168,244								44,120					187,284	8419.889	6,741,920	

6609.725526 mmscf/yr

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
Feb 04	01	488.058	796.6646118	3.434957	14.84407	4.12151575	4.013967037	0.009913237	7.904774666	189.7146	9.7979002	9.545445442	0.038725927	30.8532753	740.4785767	24	19119.95068
	02	480.7449	784.7271729	3.446849	14.8231	3.21943712	3.126778364	0.007722161	6.063195229	145.5167	9.769758224	9.48639679	0.03848638	30.205658	724.935791	24	18833.45215
	03	482.7548	788.0095215	3.458423	14.8027	3.24217176	3.137042046	0.007747509	6.105833054	146.54	9.840512276	9.522284508	0.038631953	30.4431	730.6343994	24	18912.22852
	04	486.5875	794.2655029	3.433468	14.8467	4.04722071	3.945846081	0.009745002	7.744185925	178.1163	9.556490898	9.314444542	0.03778876	30.0159569	690.3670044	24	19062.37207
	05	488.2032	796.9022827	3.433048	14.84742	4.56810236	4.452631474	0.010996614	8.769228935	210.4615	9.311089516	9.076306343	0.036822636	29.3476372	704.3433228	24	19125.65479
	06	485.959	793.2385864	3.422492	14.86605	4.38686037	4.288921833	0.01059229	8.40426445	201.7023	9.322534561	9.115463257	0.036981508	29.336483	704.0756226	24	19037.72607
	07	488.8769	798.0009155	3.410601	14.88701	4.9401269	4.845472336	0.011966804	9.557308197	229.3754	9.309339523	9.134616852	0.037059203	29.5729923	709.7518311	24	19152.02197
	08	488.8515	797.9605713	3.410599	14.88702	4.93631077	4.843464375	0.011961837	9.552313805	229.2555	9.438435555	9.260831833	0.037571266	29.9822159	719.5731812	24	19151.05371
	09	489.3541	798.78125	3.41626	14.87704	4.98193789	4.879868031	0.012051746	9.6322155	231.1732	9.54193306	9.347227097	0.037921768	30.2940464	727.0571289	24	19170.75
	10	488.2912	797.0457764	3.40228	14.90168	4.87830877	4.797632694	0.011848652	9.448439598	217.3141	9.491846085	9.336033821	0.03787636	30.1919346	694.4144897	24	19129.09863
	11	487.0552	795.02771	3.411045	14.88622	4.72661018	4.636255741	0.011450096	9.105326653	218.5278	9.56896019	9.38899231	0.038091201	30.2850838	726.84198	24	19080.66504
	12	485.6539	792.7407837	3.427261	14.85763	5.03694868	4.917330265	0.012144267	9.630221367	231.1253	9.430644035	9.209085464	0.037361324	29.6187744	710.8505859	24	19025.77881
	13	488.0414	796.6375122	3.422873	14.86538	5.19259405	5.075501442	0.012534901	9.993309021	239.8394	9.51236248	9.30023098	0.0377311	30.0592117	721.4210815	24	19119.30029
	14	482.7028	787.9245605	3.428725	14.85505	3.85759997	3.764004707	0.009295907	7.328869343	175.8929	9.664353371	9.433185577	0.038270518	30.1515579	723.6373901	24	18910.18945
	15	481.7088	786.3012695	3.436991	14.84047	3.99671245	3.890322447	0.009607872	7.556741238	181.3618	9.50043869	9.251206398	0.037532214	29.5110836	708.2659912	24	18871.23047
	16	479.5193	782.7271729	3.44901	14.8193	4.16491842	4.039810181	0.009977059	7.811497688	187.4759	9.250197411	8.976403236	0.036417335	28.5059948	684.1439209	24	18785.45215
	17	479.3245	782.4088135	3.450284	14.81706	4.27700233	4.148490906	0.010245472	8.018244743	192.4379	9.208384514	8.931647301	0.036235753	28.3544502	680.5067749	24	18777.81152
	18	478.6241	781.2651978	3.418231	14.87355	3.88717079	3.805250883	0.009397773	7.343878746	176.2531	9.283425331	9.088721275	0.036872994	28.8104877	691.4517212	24	18750.36475
	19	479.6563	782.951355	3.428407	14.85561	3.79241753	3.7016747	0.009141976	7.15905714	171.8174	9.424125671	9.199171066	0.037321106	29.2206211	701.2949219	24	18790.83252
	20	477.992	780.2337646	3.438009	14.83868	3.38700533	3.297268867	0.008143219	6.353380203	152.4811	9.681045532	9.423560143	0.038231451	29.8301373	715.9232788	24	18725.61035
	21	305.4615	664.8131714	2.933201	13.40646	8.0242672	16.75171661	0.041371472	13.88278484	249.8901	8.89401722	10.14957333	0.041176893	27.1183662	488.1306152	17.31389	11510.50116
	22	480.225	783.8795776	3.460458	14.79911	2.41688299	2.337311268	0.005772426	4.525466919	108.6112	9.492489815	9.180971146	0.037247267	29.1973076	700.7354126	24	18813.10986
	23	482.1073	786.951355	3.483351	14.75876	2.60416698	2.501667023	0.006178333	4.862594604	116.7023	9.361010551	8.993472099	0.036486566	28.7134743	689.1234131	24	18886.83252
	24	485.4121	792.3460693	3.48456	14.75661	3.04948115	2.928566694	0.007232642	5.73093605	137.5425	9.116332054	8.755477905	0.035521045	28.1459465	675.5026855	24	19016.30566
	25	480.4945	784.3190918	3.40812	14.89138	2.7372992	2.687705278	0.006637786	5.20564127	119.7298	9.148881912	8.983694077	0.036446899	28.5805569	657.3527832	24	18823.6582
	26	484.8489	791.4267578	3.432794	14.84788	2.74773049	2.678342819	0.006614665	5.235741615	125.6578	9.313314438	9.081121445	0.036842179	29.1589127	699.8139038	24	18994.24219
	27	488.379	797.18927	3.439663	14.83578	2.99813128	2.916568756	0.007203009	5.745154381	137.8837	9.304886818	9.052900314	0.036727678	29.2795296	702.7086792	24	19132.54248
	28	490.3927	800.4763794	3.429487	14.8537	3.29829216	3.218267441	0.007948114	6.363819599	152.7317	9.207906723	8.984996796	0.036452189	29.1795197	700.3084717	24	19211.43311
	29	488.1649	796.8394775	3.427261	14.85763	3.40195298	3.321998835	0.008204295	6.54040575	156.9697	9.113947868	8.899477005	0.036105238	28.7729416	690.5505981	24	19124.14746
Mar 04	01	482.1424	787.0097046	3.421411	14.86795	2.88922668	2.825686216	0.006978558	5.494414806	131.866	9.217923164	9.016373634	0.036579486	28.788866	690.9328003	24	18888.23291
	02	480.9535	785.0679321	3.433516	14.84662	2.58381629	2.517651558	0.006194443	4.86532402	116.7678	9.506373405	9.266140938	0.037473928	29.4208755	706.1010132	24	18841.63037
	03	483.5742	789.3460693	3.412635	14.88342	3.27094841	3.206380844	0.007803915	6.166531563	147.9968	9.100910187	8.923660278	0.035665676	28.1580124	675.7922974	24	18944.30566
	04	485.7806	792.9470215	3.415433	14.87849	3.62580132	3.552223206	0.008645643	6.858262062	164.5983	9.065137863	8.882094383	0.03549955	28.1498928	675.5974121	24	19030.72852
	05	486.6424	794.3551636	3.425925	14.85999	4.05585527	3.961308241	0.009641306	7.6587677	183.8104	8.736042023	8.53435421	0.034109719	27.0970249	650.3286133	24	19064.52393
	06	482.2972	787.2609253	3.428088	14.85618	3.8327992	3.742518425	0.009108802	7.174828053	172.1959	8.468151093	8.267089844	0.033041522	26.0156212	624.3748779	24	18894.26221
	07	475.4178	776.0318604	3.432922	14.84767	3.39432001	3.30963254	0.008055213	6.257177353	150.1723	8.347164154	8.137399673	0.032523192	25.2435131	605.8442993	24	18624.76465
	08	472.7315	771.6461792	3.434002	14.84575	3.410537	3.323727131	0.008089517	6.242251873	149.814	8.281186104	8.070344925	0.032255195	24.8934078	597.4417725	24	18519.5083
	09	472.9064	771.9332275	3.431459	14.85023	3.57953668	3.491108418	0.008496903	6.562264919	157.4944	8.268943787	8.064583778	0.032232158	24.8828659	597.1887817	24	18526.39746
	10	470.5385	768.0675659	3.45289	14.81245	3.33772087	3.235278368	0.007874247	6.049470901	145.1873	8.372920036	8.115907669	0.032437298	24.9164658	597.9951782	24	18433.62158
	11	471.8986	770.2874756	3.425737	14.86033	3.39225364	3.312653303	0.008062564	6.213527203	149.1246	8.46592617	8.270002365	0.033053167	25.4628162	611.107605	24	18486.89941
	12	473.0109	772.1035156	3.450092	14.81738	3.27826095	3.180797815	0.007741648	5.979624748	143.511	8.612351418	8.354263306	0.033389933	25.7822208	618.7733154	24	18530.48438
	13	474.1706	773.9959717	3.455433	14.80796	3.38986921	3.28283906	0.00799	6.185307503	148.4474	8.539216995	8.270355225	0.033054583	25.5873966	614.0974731	24	18575.90332
	14	474.3685	774.3188477	3.44933	14.81872	3.620713	3.512388706	0.008548696	6.62107563	158.9058	8.372760773	8.123122215	0.032466121	25.1417198	603.4013062	24	18583.65234
	15	471.4479	769.5518188	3.453017	14.81223	3.50417829	3.396090746	0.008265642	6.362805367	152.7073	8.285955429	8.030479431	0.032095853	24.7007084	592.8170166	24	18469.24365
	16	470.4671	767.9510498	3.446848	14.8231	3.43772244	3.337028265	0.008121891	6.239417553	149.746	8.276257515	8.035300255	0.032115124	24.6638126	591.9315186	24	18430.8252
	17	469.489	766.3546753	3.433685	14.84631	3.28016782	3.196352005	0.0077795	5.962830544	143.1079	8.386116982	8.17335701	0.032666899	25.0345001	600.8280029	24	18392.51221
	18	469.8327	766.9152832	3.429806	14.85315	3.18414259	3.106305361	0.00756034	5.800007343	139.2002	8.551618576	8.344122887	0.03334941	25.5770035	613.8480835	24	18405.9668
	19	414.8186	677.1153564	3.055237	13.77186	6.98497915	12.95349312	0.031527065	9.667847633	232.0284	7.809002876	8.007287979	0.032003172	22.99263	551.8231201	23.16667	15686.50662
	20	472.6672	771.5430908	3.441635	14.8323	3.4197576	3.323911667	0.008089967	6.244293213	149.863	8.476419449	8.242300034	0.032942452	25.4169674	610.0072021	24	18517.03418
	21	472.415	771.1303711	3.436546	14.84126	3.37063122	3.280951977	0.007985406	6.160250664	147.846	8.526022911	8.30351162	0.033187117	25.5911007	614.1864014	24	18507.12891
	22	471.0052	768.829895	3.434003	14.84574	3.07921338	3.000462055	0.007302735	5.615973473	134.7834	8.652097702	8.432169914	0.033701316	25.9114704	621.8753052	24	18451.91748
	23	476.9533	778.5387573	3.464337	14.79228	3.29241085	3.180599928	0.007741165	6.027947903	144.6707	8.717759132	8.421696663	0.033659454	26.2059002	628.9415894	24	18684.93018
	24	484.992	791.6601563	3.437182	14.84015	3.80020761	3.70038414	0.009006253	7.131115913	171.1468	8.888190269	8.653922081	0.034587588	27.3823204	657.1757202	24	18999.84375
	25	483.0963	788.5657959	3.441824	14.83196	3.90402365	3.795920849	0.009238776	7.288146496	174.9155	8.827775955	8.5835886	0.0343065	27.0553493	649.3284302	24	18925.5791
	26	487.7694	796.1937256	3.444114	14.82792	4.0615778	3.946233749	0.009604616	7.649271488	183.5825	8.90345192	8.651239395	0.034576882	27.5312119	660.7490845	24	19108.64941
	27	487.2422	795.3329468	3.437627	14.83936	4.19528484	4.083934307	0.009939762	7.907474041	189.7794	8.844308853	8.609850883	0.034411464	27.3700714	656.8817139	24	19087.99072
	28	480.3244	784.0410156	3.428597	14.85528	3.79639125	3.705010414	0.009017515	7.073810101	169.7714	8.710127831	8.501958847	0.033980235	26.6454506	639.4907837	24	18816.98438
	29	476.5717	777.9154053	3.406466	14.8943	3.61912417	3.553089619	0.008647758	6.732166767	161.572	8.817440987	8.663326263	0.034625184	26.9348869	646.4373169	24	18669.96973
	30	478.6348	781.2831421	3.446912	14.823	3.46506739	3.364313841	0.008188303	6.400862217	153.6207	8.903292656	8.644609451	0.03455038	26.9961662	647.90802	24	18750.79541

Unit 3 - CEMS Data

	31	480.4067	784.1755981	3.441825	14.83196	3.60799503	3.508004665	0.008538025	6.696241856	160.7098	8.928573608	8.681302071	0.034697022	27.2091255	653.0189819	24	18820.21436
Apr 04	01	481.8434	786.520813	3.415052	14.87916	3.41451168	3.344603777	0.00814033	6.404410839	153.7059	9.281675339	9.097191811	0.036359236	28.5968742	686.3250122	24	18876.49951
	02	479.8683	783.2965698	3.425927	14.86	3.0106895	2.937949657	0.007150586	5.607389927	134.5774	9.530327797	9.312718391	0.037220653	29.1496372	699.5913086	24	18799.11768
	03	479.0963	782.0365601	3.457151	14.80494	3.5060854	3.393543243	0.008259442	6.461048603	155.0652	9.015694618	8.727166176	0.03488034	27.2792492	654.7020264	24	18768.87744
	04	457.8516	779.8526611	3.4411	14.83324	3.37567043	3.281661749	0.007987135	6.230969429	143.3123	8.975355148	8.72884655	0.034887057	27.2069225	625.7592163	24	18716.46387
	05	479.9997	783.5119019	3.447993	14.82108	3.55521154	3.450472832	0.008397998	6.581002712	157.9441	8.966093063	8.702337265	0.03478111	27.2526741	654.064209	24	18804.28564
	06	481.4809	785.9290161	3.440361	14.83454	3.68208122	3.581553698	0.008717035	6.853317261	164.4796	8.971973419	8.727408409	0.034881309	27.4155827	657.973999	24	18862.29639
	07	480.8079	784.8303223	3.41855	14.87299	3.58303452	3.507324696	0.00853637	6.701448441	160.8348	9.007586479	8.817781448	0.035242498	27.660162	663.8438721	24	18835.92773
	08	477.4534	779.3548584	3.442397	14.83096	3.45298553	3.357293367	0.008171213	6.372420788	152.9381	8.887075424	8.640215874	0.034532811	26.916317	645.9915771	24	18704.5166
	09	468.9337	765.4488525	3.452063	14.81392	2.78684044	2.700287104	0.006572146	5.033041954	120.793	8.83190918	8.562024117	0.034220304	26.1942291	628.661499	24	18370.77246
	10	467.8846	763.7357788	3.439409	14.83622	2.69446921	2.620826244	0.00637875	4.873643875	116.9675	8.915216446	8.675861359	0.034675293	26.4827671	635.5864258	24	18329.65869
	11	470.8681	768.6057739	3.42688	14.8583	2.82451963	2.757363319	0.006711062	5.159131527	123.8192	9.069114685	8.856874466	0.035398744	27.2076206	652.9829102	24	18446.53857
	12	472.9811	772.0542603	3.4244	14.86268	2.92738247	2.85976696	0.006960303	5.376329899	129.0319	9.042403221	8.836833	0.035318658	27.2696953	654.4727173	24	18529.30225
	13	477.8188	779.9512329	3.461094	14.79799	3.22245741	3.115845442	0.00758356	5.915798187	141.9792	9.011879921	8.713749886	0.034826707	27.1640701	651.9376831	24	18718.82959
	14	480.8709	784.9333496	3.438772	14.83735	3.35409617	3.263436317	0.007942777	6.236076832	149.6658	9.045266151	8.802580833	0.03518175	27.6158371	662.7800903	24	18838.40039
	15	478.4668	781.0095215	3.446467	14.82378	3.20163035	3.108705759	0.007566182	5.912840843	141.9082	9.026823044	8.765435219	0.035033293	27.3623791	656.6970825	24	18744.22852
	16	424.2997	692.5909424	3.053584	13.33936	3.05663633	3.513416767	0.008551203	5.561141014	133.4674	8.322045326	8.577847481	0.034283556	25.1467075	603.5209961	23.25	16102.73941
	17															0	0
	18															0	0
	19	84.74183	368.5446777	1.725343	8.569289	8.40584087	15.10826111	0.036771607	9.756131172	87.80518	5.796785355	6.548460007	0.02617261	15.6106224	140.4956055	6.977777	2571.622577
	20	479.2226	782.2427979	3.423382	14.86447	2.71799922	2.65669179	0.006466041	5.062896252	121.5095	9.608390808	9.393037796	0.037541658	29.3606377	704.6552734	24	18773.82715
	21	484.2334	790.4224243	3.419948	14.87054	3.01842713	2.953804493	0.007189172	5.683960438	136.4151	9.507274628	9.303149223	0.037182406	29.3901882	705.364502	24	18970.13818
	22	487.2308	795.3146973	3.435719	14.84272	3.00321841	2.924572945	0.00711803	5.661680698	135.8803	9.70266819	9.452101707	0.037777718	30.0463467	721.1123047	24	19087.55273
	23	486.9947	794.9291382	3.414225	14.88062	3.37015414	3.303139687	0.00803941	6.391104698	153.3865	9.478340149	9.291308403	0.03713508	29.5201836	708.484375	24	19078.29932
	24	484.9423	791.5792236	3.405195	14.89653	3.36856413	3.309164524	0.008054075	6.380183697	153.1244	9.424762726	9.262224197	0.037018839	29.307888	703.3892822	24	18997.90137
	25	479.1289	782.090271	3.40812	14.89137	3.17031074	3.110663652	0.007570951	5.926511288	142.2363	9.259259224	9.092133522	0.03633903	28.4199753	682.0794067	24	18770.1665
	26	478.7416	781.4580688	3.403731	14.89913	3.37524128	3.317586184	0.00807457	6.312268734	151.4944	8.988190651	8.837361336	0.035320766	27.6035843	662.4860229	24	18754.99365
	27	477.9036	780.090271	3.407167	14.89306	3.36586094	3.305538416	0.00804525	6.277531147	150.6608	8.996617317	8.837450027	0.035321113	27.5537872	661.2908936	24	18722.1665
	28	481.3222	785.6687622	3.369265	14.95989	3.17921376	3.155215025	0.007679385	6.03562355	144.855	9.465938568	9.403746605	0.037584476	29.5281868	708.6765137	24	18856.05029
	29	487.5818	795.888855	3.419121	14.87198	3.1505959	3.083909988	0.00750583	5.974736691	143.3937	9.683273315	9.478993416	0.037885208	30.1547241	723.7133789	24	19101.33252
	30	485.3516	792.2474365	3.419757	14.87086	3.00146866	2.933832884	0.007140564	5.658080578	135.7939	9.316970825	9.11716938	0.036439091	28.8725948	692.9423218	24	19013.93848
May 04	01	481.2314	785.520813	3.400743	14.90439	3.28907251	3.235881329	0.007875715	6.188272953	148.5186	9.038906097	8.894241333	0.035548091	27.9274292	670.2583008	24	18852.49951
	02	476.2283	777.3548584	3.403668	14.89924	3.15520668	3.101984978	0.007549827	5.872570515	140.9417	8.911242485	8.762005806	0.035019588	27.2241001	653.378418	24	18656.5166
	03	473.4779	772.8659058	3.407739	14.89205	2.996382	2.942414999	0.007161452	5.536632538	132.8792	8.95194149	8.791545868	0.035137642	27.1567783	651.7626953	24	18548.78174
	04	476.8842	778.4266357	3.398771	14.90786	3.3949554	3.342774153	0.008135874	6.334730625	152.0335	9.010925293	8.872932434	0.035462946	27.6079998	662.59198	24	18682.23926
	05	481.2199	785.5029907	3.370628	14.9575	3.56844258	3.541160345	0.008618723	6.768556595	155.6768	9.080310822	9.015707016	0.036033563	28.2877007	650.6171265	24	18852.07178
	06	484.1206	790.2384033	3.394829	14.9148	3.73899913	3.685790777	0.008970732	7.091017723	170.1844	9.001227379	8.874247551	0.035468191	28.0301495	672.7235718	24	18965.72168
	07	484.2473	790.4447021	3.416579	14.87647	3.83025455	3.750760078	0.009128856	7.221440315	173.3146	8.943357468	8.760138512	0.035012122	27.6779823	664.2716064	24	18970.67285
	08	484.6154	791.0456543	3.412126	14.88432	3.90879321	3.831893682	0.009326323	7.380651474	177.1356	8.723005295	8.555873871	0.034195732	27.0516167	649.2387695	24	18985.0957
	09	481.6319	786.1755981	3.391968	14.91986	3.61165166	3.562808275	0.00867141	6.81850481	163.6441	8.882308006	8.763399124	0.035025157	27.5367298	660.8814697	24	18868.21436
	10	487.9697	796.5210571	3.41308	14.88264	3.78017545	3.706791639	0.009021846	7.186059475	172.4654	9.178017616	8.998766899	0.03596586	28.6489658	687.5751953	24	19116.50537
	11	485.5057	792.4985962	3.401378	14.90326	3.59241509	3.533932924	0.008601132	6.818442345	163.6426	9.158781052	9.011445999	0.036016542	28.5419121	685.0059204	24	19019.96631
	12	485.8409	793.0457764	3.410472	14.88724	3.86555052	3.792880297	0.009231377	7.321631432	175.7191	9.008541107	8.839625359	0.035329822	28.0185051	672.4440918	24	19033.09863
	13	482.8244	788.1218262	3.414097	14.88085	3.84392786	3.767282486	0.009169078	7.231434345	173.5544	8.865931511	8.690396309	0.034733374	27.3766079	657.0385742	24	18914.92383
	14	480.3959	784.1576538	3.411427	14.88556	3.67174792	3.601118803	0.008764652	6.875701904	165.0168	8.805040359	8.637851715	0.034523368	27.0723133	649.7355347	24	18819.78369
	15	479.2469	782.2831421	3.411299	14.88578	3.65839338	3.588694096	0.008734414	6.834654808	164.0317	8.803608894	8.636616707	0.034518439	27.0025883	648.0621338	24	18774.79541
	16	478.8875	781.6958618	3.411935	14.88466	3.46316051	3.395880699	0.008265128	6.465152264	155.1637	8.869428635	8.699492455	0.034769733	27.180275	652.3265991	24	18760.70068
	17	483.1734	788.6913452	3.418994	14.87221	3.6312058	3.554030418	0.008650044	6.822924614	163.7502	8.962276459	8.772204399	0.035060346	27.6528301	663.6679077	24	18928.59229
	18	484.9889	791.6556396	3.389672	14.9239	3.95199728	3.900992155	0.009494502	7.515428543	172.8549	8.75338459	8.642047882	0.034540139	27.3323555	628.6442261	24	18999.73535
	19	483.0637	788.5120239	3.402332	14.90158	3.81705928	3.754015446	0.009136782	7.20641613	172.954	8.785644531	8.642237663	0.034540895	27.2365341	653.6768188	24	18924.28857
	20	481.9252	786.6555176	3.432095	14.84911	3.60370255	3.513872862	0.008552308	6.729714394	161.5131	8.794547081	8.57567215	0.034274854	26.9636326	647.1271973	24	18879.73242
	21	483.7007	789.5522461	3.426053	14.85978	3.70751905	3.620925426	0.008812857	6.959771156	167.0345	8.800271034	8.596119881	0.034356583	27.1264992	651.0360107	24	18949.25391
	22	334.7364	690.1838989	3.052878	13.86769	7.63467216	20.99034309	0.051087864	10.71964264	203.6732	8.282925606	8.898765564	0.035566185	24.8147888	471.4809875	18.40833	12705.13492
	23	482.8822	788.2160034	3.432285	14.84877	2.95027661	2.876257896	0.007000438	5.518380642	132.4411	9.176904678	8.947764397	0.035762008	28.1892624	676.5422974	24	18917.18408
	24	486.3602	793.8931885	3.447993	14.82109	3.02754283	2.938361645	0.007151589	5.678231239	136.2776	9.254489899	8.982088089	0.0358992	28.5027008	684.0648193	24	19053.43652
	25	485.2719	792.1174316	3.451618	14.81468	3.00178719	2.910342932	0.007083396	5.613501549	134.724	9.171975136	8.892854691	0.035542555	28.1612453	675.869873	24	19010.81836
	26	479.8656	783.2920532	3.414202	14.88066	2.96219897	2.902296782	0.007063811	5.532698154	121.7194	8.925680161	8.748244286	0.034964584	27.3757095	602.265625	24	18799.00928
	27	475.2531	775.7628174	3.421474	14.86784	2.90273952	2.839294672	0.006910474	5.362615585	128.7028	8.732225418	8.541452408	0.034138083	26.4842663	635.6223755	24	18618.30762
	28	477.135	778.8347778	3.436863	14.8407	2.95599914	2.877938747	0.007004529	5.456913471	130.9659	8.704086304	8.475427628	0.033874203	26.3822994	633.1752319	24	18692.03467
	29	483.9287	789.9245605	3.436866	14.8407	3.31037593	3.223334074	0.007845175	6.197915077	148.75	8.879286766	8.645913124	0.034555595	27.2991714	655.1801147	24	18958.18945
	30	479.2772	782.3325195	3.428597	14.85528	3.2280221	3.150225401	0.007667236	6.001428604	144.0343	8.678488731	8.47063446	0.033855036	26.4878159	635.7075806	24	18775.98047
	31	475.308	775.8525391	3.421284	14.86817	2.99018168	2.924510479	0.007117877	5.525180817	132.6043	8.675309181	8.485853195	0.03391587	26.314291	631.5429688	24	18620.46094
Jun 04	01	475.0331	775.4040527	3.428915	14.85471	2.85488462	2.786370754	0.006781663	5.258898258	126.2136	8.810605049	8.599096298	0.034368463	26.6497536	639.5941162	24	18609.69727

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	02	473.7915	773.3770752	3.42033	14.86986	2.84380531	2.781847477	0.006770653	5.236281395	120.4345	8.763835907	8.574672699	0.034270857	26.4956436	609.3997803	24	18561.0498
	03	473.3352	772.6328125	3.428152	14.85607	2.94502878	2.875046253	0.006997487	5.407727718	129.7855	8.652415276	8.446782112	0.033759717	26.0856915	626.0565796	24	18543.1875
	04	478.2173	780.6015625	3.410728	14.88678	3.33199787	3.268791676	0.007955812	6.211370945	149.0729	8.625864983	8.463505745	0.033826549	26.4050503	633.7211914	24	18734.4375
	05	477.9948	780.2382202	3.403032	14.90036	3.21403074	3.159904957	0.007690796	6.001465797	144.0352	8.675467491	8.532073975	0.034100592	26.6057549	638.5380859	24	18725.71729
	06	473.1075	772.260437	3.418549	14.873	2.96156383	2.899050951	0.007055908	5.450788021	130.8189	8.577533722	8.39686203	0.03356019	25.9190636	622.0574951	24	18534.25049
	07	478.8133	781.5745239	3.410282	14.88758	2.9625175	2.906773329	0.007074709	5.530300617	132.7272	8.908061981	8.741621017	0.034938101	27.3075008	655.3800049	24	18757.78857
	08	484.7314	791.2339478	3.389868	14.92356	3.15711498	3.116322517	0.007584723	6.001987934	144.0477	9.06450367	8.948060989	0.0357632	28.2985458	679.1651001	24	18989.61475
	09	486.3623	793.8977051	3.427196	14.85775	3.46618032	3.384624481	0.008237734	6.540071487	156.9617	8.90392971	8.695933342	0.034755513	27.5956421	662.2954102	24	19053.54492
	10	481.745	786.359436	3.424589	14.86235	3.40703845	3.328843355	0.008101971	6.372723103	152.9453	8.641922951	8.444877625	0.033752084	26.5420837	637.0100098	24	18872.62646
	11	478.6589	781.3235474	3.413525	14.88187	3.23946881	3.175533295	0.007728833	6.040880203	144.9811	8.638584137	8.46969223	0.033851273	26.4501286	634.8031006	24	18751.76514
	12	479.0466	781.9557495	3.411236	14.88589	3.24455619	3.182471275	0.007745721	6.058258057	145.3982	8.647328377	8.48333168	0.033905789	26.513155	636.3156738	24	18766.93799
	13	475.0909	775.49823	3.425289	14.86111	3.26999331	3.194756746	0.007775618	6.034794331	144.8351	8.423477173	8.229948044	0.032893069	25.5113163	612.2716064	24	18611.95752
	14	471.9429	770.3591309	3.4251	14.86145	3.10385466	3.032314062	0.007380257	5.688342571	136.5202	8.374828339	8.182671547	0.032704134	25.1952877	604.6868896	24	18488.61914
	15	469.2994	766.0452271	3.433048	14.84745	2.83660197	2.768082142	0.00673715	5.15876627	123.8104	8.571015358	8.351577759	0.033379205	25.5806255	613.9349976	24	18385.08545
	16	468.8872	765.3725586	3.416282	14.877	3.03226399	2.970034838	0.007228677	5.531701088	127.2291	8.392061234	8.220302582	0.032854535	25.1392746	578.2033081	24	18368.94141
	17	471.3764	769.4354248	3.437944	14.8388	3.07189846	2.990199089	0.007277756	5.600628376	134.4151	8.322045326	8.100719452	0.032376587	24.9146996	597.9528198	24	18466.4502
	18	472.4339	771.1618652	3.437754	14.83913	3.19479418	3.109842062	0.007568947	5.839842796	140.1562	8.239213943	8.020630836	0.032056488	24.7244873	593.3876953	24	18507.88477
	19	365.3937	681.6437378	3.039493	13.71668	6.2334609	12.07607841	0.029391641	10.92106628	229.3424	8.052492142	9.004714966	0.03598962	24.0232334	504.4878845	20.29722	13835.47436
	20	475.1901	775.659729	3.423382	14.86448	3.11275792	3.042533398	0.007405131	5.744395256	137.8655	8.645419121	8.452155113	0.033781182	26.2027798	628.8666992	24	18615.8335
	21	474.492	774.5206909	3.420584	14.86942	3.02038836	2.954821587	0.00719165	5.571350098	133.7124	8.695342064	8.507368088	0.034001868	26.3354092	632.0498047	24	18588.49658
	22	471.78	770.0945435	3.437311	14.83992	3.0809617	2.999778271	0.007301071	5.625375271	135.009	8.562907219	8.337098122	0.033321325	25.6643295	615.9439087	24	18482.26904
	23	474.4669	774.4803467	3.451576	14.81476	2.91635919	2.831696749	0.006891983	5.329939842	127.9185	8.813152313	8.539185524	0.034129024	26.4507294	634.8175049	24	18587.52832
	24	476.3134	777.4938965	3.435719	14.84272	3.42484426	3.335609198	0.008118437	6.313508034	151.5242	8.436832428	8.217867851	0.032844797	25.5375576	612.9014282	24	18659.85352
	25	477.9502	780.1665039	3.431077	14.85092	3.44265079	3.357336283	0.008171316	6.375943661	153.0226	8.453207016	8.244920731	0.032952916	25.7089882	617.015686	24	18723.99609
	26	474.2777	774.1709595	3.427388	14.85741	3.19034171	3.114903688	0.007581271	5.871228695	140.9095	8.373556137	8.17598629	0.032677405	25.2985916	607.1661987	24	18580.10303
	27	475.1266	775.5565796	3.427389	14.8574	3.19431663	3.118832827	0.007590831	5.888978958	141.3355	8.568789482	8.366849899	0.033440251	25.9357033	622.4569092	24	18613.35791
	28	473.1755	772.3726807	3.440171	14.83487	3.06808376	2.984652996	0.007264256	5.612549782	134.7012	8.508852959	8.277246475	0.03308212	25.5534134	613.2819214	24	18536.94434
	29	474.091	773.8659668	3.449202	14.81895	2.93199301	2.845012188	0.006924388	5.363397121	128.7215	8.481984138	8.229567528	0.032891564	25.4560337	610.9448242	24	18572.7832
	30	474.3761	774.3322754	3.435209	14.84361	3.03739882	2.958783627	0.00720129	5.577338696	133.8561	8.390885353	8.174039841	0.032669626	25.2994576	607.1870117	24	18583.97461
Jul 04	1	474.0222	773.7539063	3.443923	14.82826	3.24757791	3.155498743	0.00768007	5.944355965	142.6645	8.278483391	8.044653893	0.032152511	24.8798866	597.1173096	24	18570.09375
	2	469.7805	766.829895	3.447803	14.82141	3.26776886	3.171448231	0.007718894	5.921463966	142.1151	8.043503761	7.8072896	0.031203818	23.9305077	574.3322144	24	18403.91748
	3	467.9586	763.8568115	3.444431	14.82737	3.20926166	3.117689133	0.007588049	5.796823025	139.1237	8.046206474	7.818161488	0.031247271	23.8693581	572.864624	24	18332.56348
	4	469.8466	766.937561	3.437437	14.8397	3.21085238	3.125757456	0.007607686	5.835896492	140.0615	8.22697258	8.009547234	0.032012198	24.5527992	589.2672119	24	18406.50146
	5	466.7638	761.9060669	3.447166	14.82254	3.26729131	3.171803236	0.007719755	5.882455349	141.1789	8.021883011	7.787755489	0.031125747	23.7177048	569.2249146	24	18285.74561
	6	471.4889	769.6192017	3.473494	14.77612	2.72547174	2.634758711	0.006412657	4.927624226	118.263	9.019350052	8.679768562	0.034690902	26.7138577	641.1326294	24	18470.86084
	7	467.8242	763.637146	3.418339	14.87337	3.25605774	3.186930895	0.007756573	5.923092842	136.2311	8.153168678	7.982076645	0.031902395	24.3592129	560.2619019	24	18327.2915
	8	470.5139	768.0273438	3.42173	14.8674	3.21609831	3.145507097	0.007655752	5.881308556	141.1514	8.322839737	8.140280724	0.032534704	24.9894962	599.7479248	24	18432.65625
	9	471.4834	769.6102905	3.443287	14.82938	3.34980488	3.255567551	0.007923624	6.100852489	146.4205	8.196447372	7.966905117	0.031841766	24.5120258	588.2885742	24	18470.64697
	10	471.1455	769.0587158	3.443287	14.82937	3.45155454	3.354555845	0.008164552	6.283030033	150.7927	8.072598457	7.845966816	0.031358398	24.1234493	578.9627686	24	18457.40918
	11	467.4063	762.9555054	3.437373	14.8398	3.41816759	3.327157021	0.008097864	6.179718494	148.3132	7.953678131	7.743665695	0.030949529	23.6142578	566.7421875	24	18310.93213
	12	468.2995	764.4130249	3.441952	14.83173	3.17714715	3.093599081	0.007529416	5.752931595	138.0704	8.429200172	8.190928459	0.032737128	25.0337543	600.8101196	24	18345.9126
	13	469.1788	765.8479614	3.434956	14.84406	3.4399488	3.3511374	0.008156232	6.24782896	149.9479	8.08738327	7.879192352	0.03149119	24.1186085	578.8466187	24	18380.35107
	14	469.1124	765.7402344	3.420712	14.86919	3.59315634	3.514789581	0.008554537	6.551953793	157.2469	7.991728783	7.818098068	0.031247012	23.9288616	574.2927246	24	18377.76563
	15	470.2664	767.6237183	3.435593	14.84295	3.34392214	3.259326696	0.007932776	6.08722496	146.0934	8.26846981	8.051117897	0.03217835	24.7081661	592.9960327	24	18422.96924
	16	467.1954	762.6099854	3.440871	14.83363	3.20337963	3.115155458	0.007581884	5.782381058	138.7771	8.090245247	7.868728638	0.031449378	23.9837704	575.6104736	24	18302.63965
	17	368.9174	656.9348755	2.973347	13.28291	4.92250824	10.81310844	0.026317703	8.605116844	189.3126	7.584951401	8.322176933	0.033261683	22.3184223	491.0053101	20.81389	13673.36928
	18	468.8271	765.2739258	3.459249	14.80124	3.24010468	3.134327888	0.007628547	5.838242054	140.1178	8.323316574	8.052174568	0.032182563	24.6286755	591.0881958	24	18366.57422
	19	469.368	766.1572266	3.451745	14.81446	3.36045575	3.25804925	0.007929669	6.07554245	145.813	8.340011597	8.085954666	0.032317579	24.7609081	594.2617798	24	18387.77344
	20	471.8954	770.2828979	3.488184	14.75023	2.66140127	2.563504696	0.006239234	4.791699409	115.0008	9.21856308	8.831867218	0.035298813	27.2197495	653.2739868	24	18486.78955
	21	470.5227	768.0406494	3.475063	14.77336	2.74566245	2.651129246	0.006452503	4.940130234	118.5631	9.146273613	8.798911095	0.035167087	27.0427341	649.0255737	24	18432.97559
	22	470.4667	767.9510498	3.479219	14.76603	2.75504327	2.660501957	0.006475315	4.961318016	119.0716	9.203774452	8.840577126	0.035333589	27.1589127	651.8139038	24	18430.8252
	23	469.676	766.6596069	3.479662	14.76525	2.83485365	2.732437611	0.006650395	5.085850716	122.0604	9.070859909	8.714874268	0.034831218	26.7352829	641.6467896	24	18399.83057
	24	465.0689	759.1392212	3.463892	14.79306	3.44010663	3.323444605	0.008088829	6.140632153	147.3752	8.027606964	7.755836487	0.03099818	23.5335827	564.8059692	24	18219.34131
	25	464.4063	758.0584717	3.45219	14.81368	3.53836036	3.429718256	0.008347488	6.329115391	151.8988	7.904234886	7.66222477	0.030624034	23.2161827	557.1884155	24	18193.40332
	26	470.0248	767.2290649	3.465735	14.7898	2.98684239	2.893307447	0.00704193	5.390069008	129.3617	8.935411453	8.61826992	0.034445111	26.4531956	634.876709	24	18413.49756
	27	474.5907	774.6821899	3.46014	14.79967	3.10512662	3.01190877	0.007330593	5.670347691	136.0883	9.145594597	8.836440086	0.035317075	27.3802586	657.1262207	24	18592.37256
	28	475.4731	776.1216431	3.460435	14.79914	3.15912867	3.065501213	0.007461029	5.78737545	138.897	9.174736023	8.863347054	0.035424612	27.5048923	660.1173706	24	18626.91943
	29	474.3104	774.2247314	3.469805	14.78263	2.96426582	2.870429516	0.00698625	5.397509575	129.5402	9.177382469	8.839503288	0.035329334	27.3754406	657.0106201	24	
	30	467.0465	762.3678589	3.451809	14.81436	4.05362892	7.137864113	0.017372683	7.041704655	169.0009	9.581049919	9.628253937	0.038481779	28.238512	677.7243042	24	
	31	126.7491	551.7188721	2.540078	11.77733	8.90242386	24.15054512	0.058779296	15.01256371	135.1131	6.40700531	7.219938755	0.028856333	18.5567894	167.0111084	8.236111	
Aug 04	1	466.6919	761.7895508	3.455116	14.80853	3.10544586	3.007993221	0.007321064	5.57890749	133.8938	8.352093697	8.090249062	0.032334734	24.6368752	591.2850342	24	18282.94922
	2	471.83	770.175415	3.457087	14.80505	3.30035996	3.195013285	0.007776247	5.992601395	143.8224	8.397245407	8.129937172	0.032493368	25.0335007	600.8040161	24	18484.20996
	3	468.7774	765.1932373	3.455689	14.80752	3.29829407	3.193693638	0.007773034	5.949551105	142.7892	8.304079056	8.041735649	0.032140844	24.5950203	590.2805176	24	18364.6377

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	4	467.6013	763.2738037	3.401459	14.90313	3.26166964	3.209323168	0.007811075	5.96633482	131.2594	8.381548882	8.248212814	0.032966085	25.1743584	553.8358765	24	18318.57129
	5	469.5248	766.4130249	3.417022	14.87568	3.49654627	3.42417717	0.008334002	6.388680935	153.3283	8.304876328	8.134569168	0.032511864	24.9181671	598.0360107	24	18393.9126
	6	472.7009	771.5969849	3.424336	14.8628	3.73088956	3.645255327	0.008872076	6.847254276	164.3341	8.351298332	8.161632538	0.03262005	25.1697998	604.0751953	24	18518.32764
	7	470.4561	767.9331665	3.42777	14.85674	3.71387792	3.625207901	0.008823286	6.778903008	162.6937	8.279278755	8.083122253	0.032306246	24.8100758	595.4417725	24	18430.396
	8	467.3327	762.8344116	3.431903	14.84945	3.57254171	3.483600855	0.008478629	6.470769405	155.2985	8.202171326	7.998213291	0.031966891	24.3888798	585.3330688	24	18308.02588
	9	470.0086	767.2021484	3.474576	14.77422	2.82722163	2.732586622	0.006650759	5.088945866	122.1347	9.196941376	8.848116875	0.03536376	27.1556835	651.7363892	24	18412.85156
	10	468.8762	765.3547363	3.465864	14.78959	3.04502964	2.947999477	0.007175049	5.480405807	131.5297	8.955602646	8.638723373	0.03452687	26.4456749	634.696167	24	18368.51367
	11	468.6293	764.9509888	3.492953	14.74182	2.60066915	2.505081654	0.006097042	4.654713631	111.7131	9.51807785	9.106685638	0.0363972	27.8567543	668.5621338	24	18358.82373
	12	469.3631	766.1483154	3.48526	14.75539	2.78874826	2.692239046	0.006552557	5.009375572	120.225	9.246536255	8.864830017	0.035430551	27.1654911	651.9718018	24	18387.55957
	13	472.9428	771.9914551	3.490855	14.74552	2.60623455	2.512360096	0.006114759	4.723290443	113.359	9.660216331	9.250402451	0.036971614	28.5408707	684.980896	24	18527.79492
	14	373.0275	664.2532349	3.002484	14.18154	9.20208454	35.39693451	0.086151801	14.89216614	327.6277	7.517483234	9.030114174	0.036091167	22.1265354	486.783783	21	13949.31793
	15	470.7392	768.3949585	3.443605	14.82882	3.63104749	3.528658867	0.008588295	6.600336552	158.4081	8.211551666	7.980364799	0.031895548	24.5086498	588.2075806	24	18441.479
	16	473.495	772.8928833	3.482652	14.75999	3.01609635	2.908447027	0.00707878	5.455414772	130.93	9.054805756	8.68999958	0.034731802	26.8719749	644.9274292	24	18549.4292
	17	473.5278	772.9467773	3.472857	14.77725	3.18763876	3.080448389	0.00749741	5.781729698	138.7615	8.907747269	8.574173927	0.034268867	26.5123959	636.2974854	24	18550.72266
	18	473.668	773.175354	3.463398	14.79392	2.63427687	2.554290771	0.006216809	4.796126366	110.3109	9.560470581	9.22829628	0.036883216	28.554287	656.7485962	24	18556.2085
	19	473.0079	772.0991821	3.472857	14.77726	2.89590287	2.804312229	0.006825331	5.260671616	126.2561	9.151947975	8.805960655	0.035195287	27.1911926	652.588623	24	18530.38037
	20	474.1648	773.9870605	3.488948	14.74888	2.7145021	2.612984657	0.006359662	4.913074017	117.9138	9.290897369	8.902019501	0.035579178	27.5538998	661.2935791	24	18575.68945
	21	466.7443	761.8746338	3.445321	14.82579	3.40226746	3.304645777	0.008043075	6.12968111	147.1124	8.109960556	7.878027439	0.03148653	23.9917088	575.8010254	24	18284.99121
	22	471.0467	768.8971558	3.441061	14.83331	3.51292157	3.416841984	0.008316149	6.395982265	153.5036	8.185637474	7.961569309	0.031820435	24.4686298	587.2470703	24	18453.53174
	23	470.6949	768.3231812	3.464591	14.79183	3.110533	3.010612965	0.007327438	5.625510693	135.0123	8.526820183	8.229663849	0.032891952	25.2848377	606.8361206	24	18439.75635
	24	469.2697	765.9958496	3.464973	14.79115	3.43645048	3.319415092	0.008079021	6.189825058	148.5558	8.049545288	7.775138855	0.031075325	23.8052502	571.3259888	24	18383.90039
	25	472.5822	771.4039917	3.468476	14.78497	2.84466624	2.748040915	0.006688371	5.148197651	113.2604	8.945509911	8.628781319	0.034487117	26.6450329	586.1906738	24	18513.6958
	26	473.0137	772.1080933	3.456132	14.80674	3.05695462	2.969595909	0.007227611	5.571918964	133.726	8.726664543	8.441166878	0.033737268	26.0641212	625.5388794	24	18530.59424
	27	469.874	766.9823608	3.44564	14.82523	3.54312921	3.441182137	0.00837539	6.425055981	154.2013	8.044775963	7.81344223	0.031228408	23.9525833	574.8619995	24	18407.57666
	28	467.0908	762.4398804	3.43909	14.83678	3.53549886	3.440004587	0.008372521	6.386467934	153.2752	7.938891888	7.725279808	0.03087605	23.5422382	565.0136719	24	18298.55713
	29	466.297	761.1436768	3.442969	14.82994	3.44424176	3.347615719	0.00814766	6.202538013	148.8609	8.039370537	7.814249039	0.031231642	23.772995	570.5518799	24	18267.44824
	30	472.5847	771.4085693	3.486595	14.75303	2.75997114	2.661266327	0.006477174	4.982524872	119.5806	9.202184677	8.820116043	0.035251841	27.2188549	653.2525024	24	18513.80566
	31	469.3325	766.098999	3.464338	14.79228	3.38891506	3.279458284	0.00798177	6.105704308	146.5369	8.385321617	8.093910217	0.032349378	24.8006954	595.2166748	24	18386.37598
Sep 04	1	469.942	767.0946655	3.45373	14.81097	3.17095304	3.078127384	0.007491762	5.734741211	131.899	8.779371262	8.500825882	0.033975702	26.0930862	600.1409912	24	18410.27197
	2	471.5408	769.7044678	3.458486	14.80258	2.97269201	2.891165495	0.00703672	5.400449753	129.6108	9.029364586	8.723068237	0.034863971	26.8638744	644.7329712	24	18472.90723
	3	474.8022	775.0274048	3.431903	14.84946	3.64122295	3.550480366	0.008641405	6.697722435	160.7453	8.443509102	8.233528137	0.032907393	25.5049381	612.1185303	24	18600.65771
	4	473.9616	773.6552734	3.430569	14.85181	3.76745534	3.674827576	0.008944052	6.920893669	166.1015	8.305510521	8.102002144	0.03238171	25.0529957	601.2719116	24	18567.72656
	5	472.7939	771.7493286	3.426244	14.85943	3.78367329	3.695157528	0.008993535	6.945793629	166.6991	8.28643322	8.093548775	0.032347921	24.966383	599.1931763	24	18521.98389
	6	470.8652	768.6013184	3.433112	14.84732	3.77031779	3.675450087	0.008945568	6.8805089	165.1322	8.180549622	7.974375248	0.031871617	24.5002785	588.0067139	24	18446.43164
	7	468.2498	764.3322754	3.43979	14.83554	3.65028405	3.551445961	0.008643757	6.609827995	158.6359	8.112664223	7.892758369	0.031545412	24.1153088	578.767395	24	18343.97461
	8	469.3599	766.1438599	3.436546	14.84125	3.03962421	2.968694687	0.007225415	5.525099754	132.6024	8.935087204	8.69134903	0.034737207	26.6343746	639.2249756	24	18387.45264
	9	469.838	766.9241333	3.463128	14.79441	2.81720543	2.73678422	0.006660976	5.095695019	122.2967	9.227466583	8.902004242	0.035579108	27.3094463	655.4266968	24	18406.1792
	10	470.2064	767.5250854	3.477373	14.76928	2.84025884	2.744580746	0.006679953	5.112428665	122.6983	9.199162483	8.841239929	0.03533626	27.1485043	651.5640869	24	18420.60205
	11	466.0551	760.7491455	3.432031	14.84923	3.61785197	3.5268929	0.008583994	6.531155109	156.7477	8.111867905	7.909977913	0.031614248	24.0507164	577.2172241	24	18257.97949
	12	364.1483	679.3203735	3.076343	13.98345	7.63343811	19.49090004	0.047438379	12.25424576	257.3391	7.616540432	8.378921509	0.03348849	22.3803959	469.9883118	20.45273	13893.9887
	13	475.0166	775.3772583	3.446023	14.82456	3.49575257	3.394994497	0.008262973	6.40977478	153.8346	8.574354172	8.326709747	0.03327981	25.8065834	619.3579712	24	18609.0542
	14	473.6096	773.0811768	3.447675	14.82165	3.83184409	3.719422817	0.009052591	6.999991417	167.9998	8.35813427	8.113262177	0.032426715	25.0702534	601.6860962	24	18553.94824
	15	471.8655	770.2336426	3.431904	14.84945	3.72421336	3.631007433	0.008837398	6.80784893	163.3884	8.320455551	8.113407135	0.032427303	24.9768791	599.4450684	24	18485.60742
	16	470.5025	768.0093994	3.432985	14.84754	3.46013951	3.373033762	0.008209523	6.305958271	151.343	8.374033928	8.163357735	0.032626942	25.058567	601.4055786	24	18432.22559
	17	474.0656	773.8256836	3.471777	14.77915	2.75265884	2.665910006	0.006488478	5.012380123	120.2971	9.343997955	8.994482994	0.035948712	27.8362503	668.0700073	24	18571.81641
	18	477.8023	779.9243164	3.42459	14.86235	3.54249334	3.46158123	0.008425038	6.572335243	157.7361	8.591365814	8.396426201	0.033558447	26.1742172	628.1812134	24	18718.18359
	19	483.89	789.8616943	3.426943	14.85819	4.02835035	3.933322191	0.00957319	7.561936378	181.4865	8.663066864	8.460072517	0.033812832	26.7075996	640.9824219	24	18956.68066
	20	485.0824	791.8080444	3.431777	14.84968	4.54044008	4.427623272	0.01077625	8.53358078	204.8059	8.387547493	8.179042816	0.032689612	25.8850288	621.2407227	24	19003.39307
	21	483.8294	789.7631836	3.416069	14.87737	4.68845463	4.592318535	0.011177104	8.830373764	211.929	8.242871284	8.075176239	0.032274492	25.4896412	611.7514038	24	18954.31641
	22	480.8705	784.9332275	3.353441	14.98778	4.13967943	4.124952316	0.010039593	7.885811329	181.3737	8.318181038	8.30227375	0.033182155	26.0352879	598.8115845	24	18838.39746
	23	479.1728	782.1621094	3.397944	14.90932	4.0866971	4.027061462	0.009801339	7.670313835	184.0875	8.309327126	8.186138153	0.032717973	25.5945663	614.2695923	24	18771.89063
	24	477.1978	778.9378052	3.421602	14.86761	4.07540941	3.986017942	0.009701446	7.559791565	181.435	8.245415688	8.064447403	0.032231614	25.1085415	602.6049805	24	18694.50732
	25	474.1976	774.0408325	3.427198	14.85775	3.86555004	3.77468586	0.009187091	7.114364624	170.7448	8.207098961	8.013916969	0.032029651	24.7948341	595.0759888	24	18576.97998
	26	473.2063	772.421936	3.424655	14.86223	3.79718709	3.710455418	0.009030763	6.978530884	167.4847	8.126654625	7.941387653	0.031739786	24.5179367	588.430481	24	18538.12646
	27	474.2556	774.1350098	3.425036	14.86156	3.86523247	3.777226686	0.009193274	7.121218204	170.9092	8.226336479	8.038061142	0.032126166	24.8717842	596.9227905	24	18579.24023
	28	477.4969	779.4265747	3.432603	14.84823	3.80927086	3.713726759	0.009038723	7.045846462	169.1003	8.28086853	8.07336235	0.03226725	25.1510334	603.6248169	24	18706.23779
	29	476.8707	778.4041138	3.373214	14.95292	3.83254957	3.799083471	0.009246473	7.197902679	165.5518	8.278421402	8.213407516	0.032826982	25.5418873	587.4633789	24	18681.69873
	30	476.8515	778.3727417	3.411554	14.88533	3.51578331	3.449491739	0.008395616	6.535895824	156.8615	8.39978981	8.242268562	0.032942321	25.642992	615.4318237	24	18680.9458
Oct 04	1	477.9477	780.1621094	3.434956	14.84405	3.85076499	3.75178957	0.009131363	7.1282444	171.0779	8.225223541	8.013550758	0.032028195	24.9907284	599.7775269	24	18723.89063
	2	473.1678	772.3591919	3.432858	14.84777	3.83836365	3.741984606	0.009107503	7.037046432	168.8891	7.968145847	7.767753124	0.031045804	23.9814911	575.5557861	24	18536.62061
	3	470.2307	767.5654907	3.429996	14.85282	3.67508531	3.585625887	0.008726948	6.699794292	160.7951	7.930624008	7.737594604	0.030925263	23.7385578	569.7254028	24	18421.57178
	4	471.2803	769.2785645	3.424209	14.86302	3.6841495	3.600757599	0.008763775	6.743848801	161.8524	7.978321552	7.797378063	0.031164208	23.9758873	575.4213257	24	18462.68555
	5	469.2083	765.8972168	3.433303	14.84698	3.55107927	3.461377859	0.008424542	6.452929497	154.8703	7.996444702	7.794448376	0.031152492	23.8606415	572.6553955	24	18381.5332

Unit 3 - CEMS Data

	6	470.162	767.4533081	3.424125	14.86316	3.6343863	3.551751137	0.008644499	6.636315346	159.2716	7.9824543	7.801426888	0.031180378	23.9305801	574.3339233	24	18418.87939
	7	470.5799	768.1351318	3.436101	14.84205	3.5054512	3.414525747	0.00831051	6.384348869	153.2244	8.020450592	7.811664104	0.0312213	23.9828625	575.5886841	24	18435.24316
	8	447.6596	730.7216187	3.274763	14.25567	3.8407495	3.923448801	0.009549159	6.828590393	163.8862	7.653198242	7.495781898	0.029958799	22.8417206	548.2012939	24	17537.31885
	9	76.17869	497.3902588	2.377138	13.22572	20.4670391	64.62289429	0.157283634	14.41331863	86.47991	7.672586918	9.593801498	0.038344081	20.0966949	120.5801697	4.641667	2308.719895
	10	478.9231	781.7540283	3.429678	14.85338	4.00688744	3.909734249	0.009515783	7.440261364	178.5663	8.253522873	8.053516388	0.032187924	25.1637783	603.9307251	24	18762.09668
	11	476.8266	778.3324585	3.4368	14.8408	4.0583992	3.952089548	0.009618869	7.489336491	179.7441	8.286751747	8.069381714	0.032251336	25.1041794	602.5003052	24	18679.979
	12	476.7827	778.2605591	3.436992	14.84047	4.51977062	4.400527477	0.010710316	8.33829689	200.1191	8.135397911	7.921257973	0.031659327	24.6399918	591.3598022	24	18678.25342
	13	474.9892	775.3323975	3.366594	14.9646	4.29003906	4.26069355	0.010369981	8.044781685	193.0748	8.175779343	8.128061295	0.032485861	25.1852341	604.4456177	24	18607.97754
	14	475.6815	776.4625244	3.394893	14.9147	4.04281855	3.987407923	0.009704832	7.538663864	180.9279	8.299628258	8.182131767	0.032701984	25.3925419	609.4210205	24	18635.10059
	15	474.6234	774.7359619	3.416323	14.87691	3.94472456	3.864962578	0.00940681	7.294696331	175.0727	8.369105339	8.198420525	0.032767083	25.3888588	609.3325806	24	18593.66309
	16	475.3982	776.0005493	3.421983	14.86694	3.70879197	3.627827883	0.008829658	6.856570244	164.5577	8.464337349	8.278000832	0.033085126	25.6774826	616.2595825	24	18624.01318
	17	473.1707	772.3636475	3.440298	14.83465	3.74360919	3.641547441	0.00886305	6.845524311	164.2926	8.212345123	7.988683224	0.0319288	24.6605873	591.854126	24	18536.72754
	18	474.2831	774.1799316	3.436355	14.8416	3.86554837	3.764476299	0.009162243	7.093339443	170.2401	8.196925163	7.982657909	0.031904727	24.7005329	592.8128052	24	18580.31836
	19	474.0276	773.7628174	3.425354	14.86098	3.56204796	3.479505539	0.00846866	6.555955887	157.3429	8.413143158	8.219512939	0.032851376	25.420042	610.0809937	24	18570.30762
	20	475.187	775.6551514	3.408841	14.89012	3.55086708	3.486592531	0.00848591	6.584872723	158.037	8.482302666	8.327419281	0.033282645	25.8164215	619.5941162	24	18615.72363
	21	482.5274	787.6375732	3.420012	14.87042	4.42771912	4.332236767	0.010544103	8.305241585	199.3258	8.413780212	8.233159065	0.032905933	25.9183083	622.0394287	24	18903.30176
	22	447.0824	729.7798462	3.159278	14.02386	5.48130989	11.7971344	0.028712725	9.913836479	237.9321	7.798826694	8.099160194	0.032370344	24.0590382	577.4169312	23.75	17332.27135
	23															0	0
	24	432.3111	769.8206787	3.354191	14.98645	6.40638494	14.30918121	0.034826644	11.77325916	259.0117	8.648180962	8.923250198	0.035664033	26.5356236	583.7836914	21.73333	16730.76961
	25	480.3348	784.059021	3.426944	14.8582	3.17714715	3.103099585	0.007552539	5.923154831	142.1557	8.706629753	8.502397537	0.033981994	26.6441212	639.4589233	24	18817.4165
	26	483.033	788.4625244	3.412889	14.88297	3.30306339	3.238590717	0.007882308	6.215422153	149.1701	8.942403793	8.768803596	0.035046741	27.6331463	663.1954956	24	18923.10059
	27	485.0055	791.6824341	3.417595	14.87467	3.22166252	3.154422522	0.007677451	6.079871655	145.9169	9.132230759	8.942373276	0.035740461	28.2958202	679.0997314	24	19000.37842
	28	487.596	795.9111938	3.427389	14.85741	3.86205196	3.771111727	0.009178393	7.306394577	175.3535	8.813306808	8.605350494	0.034393482	27.3739548	656.9749146	24	19101.86865
	29	488.7558	797.8036499	3.407356	14.89273	4.02342081	3.951538324	0.00961752	7.673799515	184.1712	8.735087395	8.579154968	0.034288768	27.3559628	656.5430908	24	19147.2876
	30	486.2608	793.7316895	3.401378	14.90327	3.91133714	3.847933292	0.009365371	7.435147762	178.4435	8.697566986	8.557577133	0.034202535	27.1480827	651.5540161	24	19049.56055
	31	483.3707	789.0141602	3.417405	14.87502	3.60322428	3.527569532	0.008585645	6.775612831	162.6147	8.688186646	8.508917809	0.034008048	26.8321838	643.9724121	24	18936.33984
Nov 04	1	486.3161	793.8215332	3.415498	14.87838	3.97365904	3.893400908	0.009476033	7.523888588	180.5733	8.632064819	8.457705498	0.033803366	26.8341675	644.0200195	24	19051.7168
	2	488.1154	796.758728	3.391776	14.9202	4.21833754	4.161998749	0.010129765	8.072052002	193.7293	8.66847229	8.552949905	0.034184046	27.23843	653.72229	24	19122.20947
	3	487.7914	796.2296143	3.367906	14.96229	3.73515368	3.709856272	0.009029302	7.190797806	158.1976	8.944874763	8.888698578	0.035525952	28.2706223	621.9536743	24	19109.51074
	4	489.0962	798.3597412	3.411172	14.886	3.92151284	3.844569683	0.009357177	7.470991611	179.3038	8.997252464	8.829741478	0.035290308	28.1765461	676.2371216	24	19160.63379
	5	489.8216	799.5435181	3.432985	14.84755	4.07159424	3.968179941	0.009658032	7.72439146	185.3854	8.916647911	8.69212532	0.034740292	27.7762756	666.6306152	24	19189.04443
	6	486.9423	794.8439941	3.422746	14.8656	3.86157537	3.775482893	0.009189036	7.304100513	175.2984	8.964343071	8.764854431	0.035030961	27.8461075	668.3065796	24	19076.25586
	7	483.2529	788.8214111	3.433939	14.84587	3.50703907	3.417070866	0.008316705	6.563968658	157.5352	8.995821953	8.768296242	0.035044726	27.6430664	663.4335938	24	18931.71387
	8	483.5164	789.2520142	3.451491	14.81492	3.8121314	3.696198702	0.008996064	7.101851463	170.4444	8.760047913	8.493964195	0.033948284	26.7949505	643.0787964	24	18942.04834
	9	483.2003	788.7362061	3.445958	14.82468	4.00736427	3.891519547	0.009471446	7.470783234	179.2988	8.539696693	8.293219566	0.033145953	26.1437702	627.4505005	24	18929.66895
	10	481.9887	786.758606	3.419249	14.87177	3.95903373	3.87498045	0.009431195	7.420167446	178.084	8.495020866	8.314207077	0.033229843	26.1444244	627.4661865	24	18882.20654
	11	486.019	793.3370972	3.424145	14.86313	4.18606186	4.091247559	0.009957559	7.900031567	189.6008	8.550665855	8.357230186	0.033401802	26.4993534	635.9844971	24	19040.09033
	12	484.1044	790.2116699	3.441443	14.83264	4.18431377	4.068760872	0.009902833	7.825431347	187.8103	8.525863647	8.290901184	0.033136684	26.1860752	628.4658203	24	18965.08008
	13	483.3187	788.9290771	3.44952	14.81838	4.00434351	3.884292603	0.009453865	7.459222794	179.0213	8.512825966	8.258904457	0.03300881	26.0415287	624.9967041	24	18934.29785
	14	483.4968	789.2203979	3.447994	14.82107	4.11102247	3.990219593	0.009711672	7.665564537	183.9736	8.48897934	8.239242554	0.032930229	25.9899502	623.7587891	24	18941.28955
	15	484.7226	791.22052	3.431712	14.84978	4.3650794	4.256789207	0.010360478	8.198563576	196.7655	8.538901329	8.327163696	0.033281621	26.3348751	632.0369873	24	18989.29248
	16	484.2749	790.489624	3.450157	14.81727	4.36555719	4.234611988	0.010306497	8.148396492	195.5615	8.560046196	8.303055763	0.03318527	26.2343044	629.623291	24	18971.75098
	17	487.3795	795.5568848	3.374876	14.95001	4.42745733	4.388972759	0.010682181	8.498883247	195.4743	8.649699211	8.57889843	0.034287743	27.2756958	627.3410034	24	19093.36523
	18	485.9287	793.1891479	3.388088	14.92672	4.3847928	4.330569744	0.010540042	8.361978531	200.6875	8.628090858	8.523968697	0.034068208	27.0219383	648.5264893	24	19036.53955
	19	485.357	792.2564697	3.407166	14.89307	4.10561562	4.032175541	0.009813794	7.776116848	186.6268	8.856393814	8.699077606	0.034768071	27.5455418	661.0930176	24	19014.15527
	20	485.0356	791.7318115	3.409391	14.88915	3.56586385	3.500316143	0.008519312	6.746086597	161.9061	9.099480629	8.931702614	0.035697822	28.2632084	678.3170166	24	19001.56348
	21	487.1648	795.2072754	3.421601	14.8676	3.47238207	3.395699263	0.008264691	6.575429916	157.8103	9.296142578	9.092564583	0.036340743	28.8991203	693.5789185	24	19084.97461
	22	488.6267	797.5928345	3.420393	14.86975	3.7590301	3.676789045	0.00894882	7.141810894	171.4035	9.211881638	9.013361931	0.036024198	28.7313576	689.5526123	24	19142.22803
	23	489.1071	798.3775635	3.37952	14.94181	3.75325179	3.718120813	0.00904942	7.226556301	166.2108	9.212586403	9.123085976	0.036462739	29.1043262	669.3994751	24	19161.06152
	24	488.4617	797.3239136	3.38758	14.92761	4.16078472	4.111358643	0.010006513	7.98896122	191.7351	9.008858681	8.902136803	0.035579663	28.3721619	680.9318848	24	19135.77393
	25	486.2995	793.7946777	3.401569	14.90294	3.94488454	3.880914927	0.009445639	7.50067997	180.0163	9.038111687	8.891985893	0.035539072	28.2108002	677.0592041	24	19051.07227
	26	486.0936	793.4581909	3.411107	14.88611	4.06873131	3.991910458	0.00971579	7.711860657	185.0847	8.913625717	8.745199203	0.03495241	27.7365837	665.6779785	24	19042.99658
	27	483.3516	788.9827881	3.412699	14.88331	3.65870953	3.587835789	0.008732325	6.893093586	165.4342	9.01108551	8.836315155	0.035316583	27.8668251	668.803772	24	18935.58691
	28	493.2417	805.126709	3.414606	14.87996	4.29131126	4.205023289	0.010234473	8.247045517	197.9291	9.208861351	9.025314331	0.03607196	29.042841	697.0281982	24	19323.04102
	29	497.0577	811.3554077	3.399661	14.90629	5.02645493	4.945301056	0.012036219	9.778699875	234.6888	9.082468033	8.940774918	0.035734076	28.9919205	695.8060913	24	19472.52979
	30	497.9505	812.8128662	3.382681	14.93624	4.9611125	4.907268524	0.011943652	9.718167305	233.236	9.181675911	9.08343029	0.036304239	29.510437	708.2504883	24	19507.50879
Dec 04	1	496.9235	811.1357422	3.389741	14.92377	4.6590414	4.599211216	0.011193893	9.092559814	218.2214	9.32444191	9.205547333	0.036792312	29.8443909	716.2653809	24	19467.25781
	2	493.429	805.4316406	3.405576	14.89587	4.36046743	4.285087109	0.010429343	8.411874771	201.885	9.364348412	9.202246666	0.036779113	29.6257286	711.0175171	24	19330.35938
	3	488.7003	797.7138062	3.408692	14.89037	4.41976976	4.335474491	0.010551973	8.413275719	201.9186	9.350039482	9.179812431	0.036689457	29.2721634	702.5319214	24	19145.13135
	4	486.7366	794.5076294	3.402777	14.9008	3.37158537	3.315361261	0.008069158	6.432786465	154.3869	9.739233971	9.578584671	0.038283251	30.4155369	729.9729004	24	19068.18311
	5	480.7362	784.7136841	3.431713	14.84979	2.95409155	2.879276991	0.007007787	5.501005173	132.0241	9.580089569	9.344279289	0.037346773	29.3055668	703.3336182	24	18833.12842
	6	484.1978	790.3640137	3.438708	14.83745	3.30958247	3.220741749	0.007838866	6.19898653	148.7757	9.361645699	9.110625267	0.036412925	28.7788334	690.6920166	24	18968.73633
	7	482.1316	786.9918213	3.427452	14.8573	3.53359008	3.449647903	0.008395995	6.608211994	158.5971	9.035092354	8.822108269	0.035259794	27.7498379	665.9960938	24	18887.80371

Unit 3 - CEMS Data

	8	482.607	787.7675781	3.425863	14.86009	4.12941074	4.033882618	0.009817936	7.734427929	185.6263	8.652415276	8.451766014	0.033779621	26.6109295	638.6622925	24	18906.42188
	9	481.3459	785.7092285	3.429042	14.85449	4.39067554	4.284348011	0.010427539	8.193903923	196.6537	8.418867111	8.216737747	0.032840289	25.8034172	619.2819824	24	18857.02148
	10	479.5963	782.8527222	3.428914	14.85471	4.18606281	4.085452557	0.00994346	7.785308361	186.8474	8.514415741	8.309926987	0.033212733	26.0011787	624.0283203	24	18788.46533
	11	481.6263	786.166687	3.431013	14.85102	4.10959101	4.008367538	0.009755841	7.671027184	184.1046	8.797726631	8.581115723	0.034296613	26.9641495	647.1395874	24	18868.00049
	12	480.4916	784.3145752	3.449138	14.81906	4.0879693	3.966754675	0.009654565	7.577862263	181.8687	8.791527748	8.530477524	0.034094222	26.743042	641.8330078	24	18823.5498
	13	484.3303	790.5792236	3.450473	14.81671	4.68575048	4.544538975	0.01106081	8.744875908	209.877	8.5816679	8.323005676	0.033265013	26.3007126	631.2171021	24	18973.90137
	14	486.2311	793.6824951	3.426308	14.85931	4.90006256	4.785482407	0.011647234	9.244608879	221.8706	8.529043198	8.330944061	0.033296734	26.4279919	634.2717896	24	19048.37988
	15	486.3956	793.9517212	3.399302	14.90693	4.6465888	4.574633121	0.011134049	8.844270706	212.2625	8.746533394	8.610886574	0.034415595	27.3271961	655.8527222	24	19054.84131
	16	488.8243	797.9157104	3.425354	14.861	5.01484871	4.900507927	0.011927191	9.524468422	228.5872	8.694387436	8.495587349	0.033954769	27.1002998	650.4072266	24	19149.97705
	17	491.9562	803.0279541	3.430504	14.8519	5.55873489	5.421961784	0.013196345	10.60860157	254.6064	8.780555725	8.565759659	0.034235232	27.4941635	659.8599243	24	19272.6709
	18	494.426	807.0592651	3.42885	14.85483	5.61803675	5.482001305	0.013342475	10.78367615	258.8082	8.96068573	8.745493889	0.03495359	28.2124634	677.0991211	24	19369.42236
	19	373.4287	696.6326904	2.969722	14.17143	7.39668751	13.57017708	0.033028062	12.29632282	258.2228	8.340600967	9.305805206	0.037193	25.9736443	545.4465332	20.1	14002.31734
	20	497.0387	811.3240967	3.427451	14.85728	5.77304697	5.634686947	0.013714075	11.1499939	267.5999	9.516496658	9.291657448	0.037136465	30.1343536	723.2244873	24	19471.77832
	21	492.1731	803.3822632	3.449646	14.81816	7.40708971	7.183496475	0.017483683	13.95994186	335.0386	9.288990021	9.011891365	0.036018316	28.9616966	695.0806885	24	19281.17432
	22	482.2418	787.1710205	3.41346	14.88196	8.04108906	7.868429184	0.019150732	14.97941017	329.547	9.087266922	8.909976006	0.035610985	28.0895309	617.9697266	24	18892.10449
	23	479.9154	783.3729248	3.436291	14.84172	9.12364292	8.897565842	0.021655509	16.82442284	403.7861	8.886122704	8.653265953	0.034584969	27.1140213	650.7365112	24	18800.9502
	24	490.7637	801.0817261	3.435528	14.84306	7.62442064	7.41907692	0.01805705	14.39443684	345.4665	9.037475586	8.80302906	0.035183545	28.1989956	676.7758789	24	19225.96143
	25	487.8655	796.3505859	3.41982	14.87075	7.1813302	7.0157094	0.017075334	13.59131813	326.1917	9.138430595	8.943278313	0.035744097	28.4656925	683.1765747	24	19112.41406
	26	483.7717	789.6688843	3.404623	14.89756	4.31913233	4.245900631	0.010333961	8.164902687	195.9577	9.478658676	9.317576408	0.037240054	29.4085293	705.8046875	24	18952.05322
	27	480.8819	784.951355	3.442842	14.83017	4.47827578	4.352573872	0.010593602	8.316260338	199.5903	9.079766273	8.826057434	0.035275597	27.6893368	664.5440674	24	18838.83252
	28	481.2746	785.5927124	3.447739	14.82153	4.31404591	4.187321186	0.010191401	8.006567001	192.1576	9.12173748	8.853992462	0.035387233	27.8019085	667.2457886	24	18854.2251
	29	483.6128	789.4089355	3.421092	14.86851	4.31966352	4.226079941	0.010285726	8.12081337	194.8995	9.212517738	9.011358261	0.036016196	28.4309883	682.343689	24	18945.81445
	30	483.9285	789.9245605	3.405958	14.8952	4.81723166	4.732596874	0.011518515	9.099332809	218.384	9.038747787	8.881193161	0.035495941	28.0405293	672.9727173	24	18958.18945
	31	483.7417	789.6196899	3.411681	14.8851	4.64218855	4.553524494	0.011082682	8.753338814	210.0801	9.093597412	8.919975281	0.03565095	28.1511288	675.6270752	24	18950.87256
Jan 05	1	487.6922	796.0682983	3.408883	14.89004	4.93964911	4.847610474	0.011798433	9.400130272	225.6031	9.194712639	9.026544571	0.036076877	28.7206249	689.2949829	24	19105.63916
	2	486.2497	793.7138062	3.398072	14.9091	5.09211588	5.014451981	0.012204517	9.689173698	232.5402	9.100910187	8.962875366	0.035822418	28.4327621	682.3862915	24	19049.13135
	3	486.7691	794.5614624	3.404495	14.89778	4.76874161	4.687623978	0.011409058	9.066767693	217.6024	9.30329895	9.144866943	0.036549781	29.0413551	696.9924927	24	19069.4751
	4	489.9063	799.6825562	3.425417	14.86089	4.884799	4.771510124	0.011613229	9.288656235	222.9277	9.406478882	9.190567017	0.036732428	29.3746338	704.9912109	24	19192.38135
	5	489.9784	799.7992554	3.412698	14.88331	5.52598476	5.417658806	0.013185891	10.55104446	253.2251	9.057349205	8.881950378	0.03549898	28.3922787	681.4146729	24	19195.18213
	6	489.9971	799.8305664	3.405385	14.8962	5.46477509	5.369788647	0.013069367	10.45542908	250.9303	9.183423042	9.025117874	0.036071189	28.8515949	692.4382935	24	19195.93359
	7	481.1924	785.4581299	3.434576	14.84474	4.31404352	4.202259064	0.010227752	8.03460598	192.8306	9.303138733	9.068671227	0.036245245	28.4730339	683.3527832	24	18850.99512
	8	480.7744	784.7766113	3.450791	14.81615	4.61961317	4.479484081	0.010902484	8.556575775	205.3578	8.976107597	8.705411911	0.034793396	27.3051453	655.3234863	24	18834.63867
	9	477.6151	779.6193237	3.449838	14.81783	4.85952091	4.713808537	0.011472796	8.946703911	214.7209	8.622365952	8.364150047	0.03342944	26.0630417	625.5130005	24	18710.86377
	10	476.2006	777.3099976	3.441252	14.83297	4.68765926	4.557579517	0.01109256	8.62494278	206.9986	8.676739693	8.438209534	0.033725448	26.2152462	629.1658936	24	18655.43994
	11	486.4034	793.9651489	3.426752	14.85853	4.75268364	4.640491009	0.011294357	8.970592499	215.2942	9.218718529	9.00315094	0.035983384	28.5704918	685.6917725	24	19055.16357
	12	492.6154	804.1043091	3.415157	14.87899	5.66143942	5.547924995	0.013502929	10.85914993	260.6196	9.024862289	8.84408474	0.035347637	28.4237461	682.1699219	24	19298.50342
	13	494.1513	806.6110229	3.416641	14.87635	6.08990335	5.964198112	0.014516079	11.71044159	281.0506	9.022850037	8.838061333	0.03532356	28.4929466	683.8306885	24	19358.66455
	14	491.3431	802.0278931	3.426435	14.8591	5.90086937	5.763152599	0.014026758	11.2520752	270.0498	8.959732056	8.750837326	0.034974955	28.0512199	673.2293091	24	19248.66943
	15	488.1124	796.7543335	3.439854	14.83544	5.52042007	5.371848106	0.013074371	10.4268589	250.2446	8.890573502	8.649357796	0.034569353	27.544241	661.0617676	24	19122.104
	16	491.8134	802.7946777	3.435784	14.8426	6.12710524	5.967906475	0.014525108	11.66201973	279.8885	8.88373661	8.652849197	0.034583308	27.7639675	666.3352051	24	19267.07227
	17	490.8874	801.2835083	3.424018	14.86335	5.98862982	5.853034496	0.014245517	11.41641712	273.994	8.932863235	8.730649948	0.034894254	27.9610252	671.0645752	24	19230.8042
	18	488.5054	797.3955688	3.42758	14.85707	5.67002439	5.535731316	0.013473258	10.7467308	257.9215	8.913627625	8.702841759	0.034783114	27.7365913	665.6782227	24	19137.49365
	19	488.9674	828.9570923	3.399745	14.85238	5.86054182	5.717815399	0.014057771	11.65715408	279.7717	8.826928139	8.611330032	0.034764733	28.8177032	691.6248779	24	19894.97021
	20	488.6812	843.9266357	3.421283	14.78663	5.60881472	5.414719105	0.013379538	11.29644299	271.1147	8.932387352	8.621376038	0.034982607	29.5240078	708.5761719	24	20254.23926
	21	487.3434	841.6161499	3.440488	14.7523	5.33377123	5.118753433	0.012648225	10.64704132	255.529	8.963866234	8.602705002	0.034906842	29.3790493	705.097229	24	20198.7876
	22	487.9806	842.7168579	3.441506	14.75048	5.56525373	5.339330673	0.013193263	11.11974716	266.8739	8.867043495	8.507260323	0.034519576	29.0906506	698.1755981	24	20225.20459
	23	487.357	841.6398315	3.441316	14.75083	5.6456995	5.416867256	0.013384846	11.26998425	270.4796	8.840176582	8.481924057	0.034416761	28.9684086	695.2418213	24	20199.35596
	24	482.6946	833.588623	3.439282	14.75446	5.35952902	5.145139694	0.01271343	10.60317612	254.4762	8.800429344	8.448848724	0.034282543	28.5787296	685.8895264	24	20006.12695
	25	473.8434	818.3023682	3.436038	14.76027	4.93026876	4.736354828	0.011703338	9.58180809	229.9634	8.66545105	8.327049255	0.033788335	27.6497498	663.5939941	24	19639.25684
	26	477.4755	824.5744019	3.419884	14.78914	4.52692699	4.370620251	0.010799617	8.905906677	213.7418	8.751779556	8.449868202	0.034286696	28.2726288	678.5430908	24	19789.78564
	27	481.9366	832.2792358	3.417659	14.79311	5.07653475	4.904333591	0.0121184	10.08647823	242.0755	8.783737183	8.486297607	0.034434512	28.6597004	687.8328247	24	19974.70166
	28	484.1404	836.0842285	3.424018	14.78175	5.18559885	4.999004364	0.012352337	10.33521271	248.0451	8.85321331	8.537919998	0.034643989	28.9653702	695.1688843	24	20066.02148
	29	490.1815	846.5170288	3.41467	14.79844	5.78035975	5.588927746	0.013810009	11.69212914	280.6111	8.89136982	8.597802162	0.03488696	29.5323257	708.7758179	24	20316.40869
	30	486.8409	840.7478638	3.39858	14.8272	5.39672995	5.24259758	0.012954238	10.8981123	261.5547	8.882147789	8.629392624	0.035015147	29.4395409	706.5490112	24	20177.94873
	31	484.2502	836.2739258	3.41149	14.80413	4.76190376	4.608966351	0.011388568	9.53044796	228.7308	8.990735054	8.701897621	0.035309345	29.5303326	708.7280273	24	20070.57422
Feb 05	01	486.5493	840.2449951	3.410536	14.80584	5.64236021	5.462928295	0.01349867	11.34972477	272.3934	8.870700836	8.588445663	0.034848999	29.285141	702.8433838	24	20165.87988
	02	485.4946	838.4231567	3.40653	14.813	5.61104107	5.438356876	0.013437962	11.26839447	270.4415	8.871177673	8.598877907	0.03489133	29.256279	702.1506958	24	20122.15576
	03	483.5797	835.116272	3.413779	14.80005	5.37208652	5.195688248	0.012838321	10.72359943	257.3664	8.91632843	8.624978065	0.034997225	29.2299252	701.5181885	24	20042.79053
	04	482.6678	833.5411987	3.420521	14.788	5.23106813	5.048542023	0.012474737	10.40380859	249.6914	8.970702171	8.660038948	0.035139505	29.2912083	702.9890137	24	20004.98877
	05	481.1947	830.9983521	3.40901	14.80855	5.0692215	4.910150528	0.012132783	10.08632374	242.0718	9.064821243	8.780115128	0.035626732	29.6058006	710.5391846	24	19943.96045
	06	480.1538	829.2001343	3.42777	14.77504	4.73265123	4.558016777	0.011262679	9.342187881	224.2125	9.209498405	8.871930122	0.035999283	29.8496037	716.3905029	24	19900.80322
	07	482.6948	833.5886841	3.434573	14.76288	5.04966688	4.854679108	0.011995717	10.00121784	240.0292	9.118081093	8.765836716	0.035568781	29.6504993	711.6119995	24	20006.12842
	08	485.442	838.3330078	3.433748	14.76435	5.29593325	5.092900276	0.012584354	10.55153751	253.2369	9.111721992	8.76194191	0.035552982	29.8085003	715.4039917	24	20119.99219

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09	482.4725	833.2045288	3.278321	15.04209	5.12022686	5.148355961	0.012721373	10.60247326	233.2544	8.954413414	9.027896881	0.036632136	30.5125999	671.2772217	24	19996.90869
10	480.055	829.0292358	3.3292	14.95117	4.87542105	4.836704731	0.011951292	9.910766602	237.8584	9.053375244	8.991172791	0.036483139	30.2494087	725.9857788	24	19896.70166
11	471.3928	814.0703735	3.391457	14.83992	4.11610937	4.007140636	0.009901476	8.05971241	193.4331	9.143199921	8.902150154	0.03612189	29.407526	705.7805786	24	19537.68896
12	469.9696	811.612793	3.421983	14.78539	4.91198587	4.738997459	0.011709879	9.506921768	228.1661	8.805994034	8.497436523	0.034479704	27.9814453	671.5546875	24	19478.70703
13	473.7445	818.1315918	3.409646	14.80742	5.05682135	4.896856785	0.012099929	9.900824547	237.6198	8.746216774	8.469912529	0.034368023	28.1171341	674.8112183	24	19635.1582
14	473.7279	818.1031494	3.395464	14.83276	5.07001734	4.930048943	0.01218195	9.966317177	239.1916	8.790096283	8.548002243	0.034684889	28.3758755	681.0209961	24	19634.47559
15	475.4066	821.0018921	3.3968	14.83037	4.94457769	4.805598736	0.011874429	9.749596596	233.9903	8.912196159	8.663713455	0.035154406	28.8629036	692.7097168	24	19704.04541
16	472.5775	816.1151733	3.379187	14.86185	4.884058	4.771774769	0.011790867	9.624375343	230.985	8.858618736	8.655723572	0.035121989	28.6644249	687.946228	24	19586.76416
17	474.2447	818.9950562	3.404876	14.81595	4.53169394	4.39646101	0.010863488	8.90017128	213.6041	8.940812111	8.6711483	0.035184573	28.8162842	691.5908203	24	19655.88135
18	474.3187	819.1231079	3.425481	14.77913	4.31261444	4.156516075	0.010270587	8.413808823	201.9314	9.046378136	8.720293045	0.035383996	28.9837742	695.6105957	24	19658.95459
19	370.4465	731.0542603	3.039906	13.64349	5.57445478	9.352344513	0.023109281	10.68682861	224.4234	8.226374626	9.031669617	0.036647454	26.3856182	554.0980225	20.27778	14824.15645
20	481.5189	831.5581665	3.420456	14.78812	4.40482521	4.252405643	0.010507526	8.737776756	209.7066	8.72491169	8.422307968	0.034174867	28.4193993	682.0656128	24	19957.396
21	476.5057	822.8995972	3.425925	14.77835	4.27779627	4.123190403	0.010188235	8.385120392	201.2429	8.746692657	8.43009758	0.034206487	28.1497879	675.5949097	24	19749.59033
22	479.912	828.7825928	3.434828	14.76243	4.3080039	4.141130924	0.010232576	8.481020927	203.5445	8.835883141	8.493927002	0.034465484	28.5655327	685.5728149	24	19890.78223
23	482.6126	833.4463501	3.392095	14.83879	4.51484251	4.397152901	0.010865184	9.056059837	217.3454	8.697885513	8.46639061	0.034353733	28.6326332	687.1832275	24	20002.7124
24	482.3133	832.9291382	3.402015	14.82107	5.31676102	5.156618118	0.012741787	10.61082363	254.6598	8.587550163	8.336500168	0.033826679	28.1773586	676.2565918	24	19990.29932
25	479.5958	828.2370605	3.423828	14.78209	4.77144432	4.60137701	0.011369812	9.417416573	226.018	8.643671989	8.335828781	0.033823963	28.0145168	672.3483887	24	19877.68945
26	480.2886	829.4325562	3.427198	14.77606	4.44791079	4.285087109	0.010588287	8.782652855	210.7837	8.760523796	8.44032383	0.034247957	28.4063034	681.7512817	24	19906.38135
27	482.6648	833.5365601	3.418486	14.79163	4.65792894	4.499018192	0.011116896	9.267505646	222.4201	8.720460892	8.422876358	0.034177188	28.4877167	683.7052002	24	20004.87744
28	482.5771	833.3847656	3.407737	14.81084	4.9630208	4.808984756	0.011882791	9.904197693	237.7007	8.523637772	8.258770943	0.033511281	27.9287663	670.2904053	24	20001.23438
Mar 05 1	479.9037	828.7684326	3.422428	14.78458	4.44409466	4.287647247	0.010594595	8.787446976	210.8987	8.638899803	8.33496666	0.033820465	28.0289707	672.6953125	24	19890.44238
2	482.3133	832.9293213	3.441315	14.75082	4.70196724	4.511390686	0.011147463	9.285829544	222.8599	8.619664192	8.270423889	0.033558562	27.9529037	670.8696899	24	19990.30371
3	481.6152	831.7240601	3.438326	14.75618	4.73153973	4.543676376	0.011227233	9.338056564	224.1133	8.576260567	8.235974312	0.033418775	27.7958164	667.0996094	24	19961.37744
4	481.9203	832.2508545	3.441062	14.75128	4.61341333	4.426867008	0.010938604	9.10454464	218.5091	8.609170914	8.261044502	0.033520512	27.8981628	669.5559082	24	19974.02051
5	482.6261	833.4700928	3.448374	14.73822	4.96810818	4.757097244	0.011754596	9.79716301	235.1319	8.50487709	8.143508911	0.033043601	27.5414047	660.9937134	24	20003.28223
6	481.423	831.3920288	3.441379	14.75071	4.77303314	4.579516888	0.0113158	9.407715797	225.7852	8.498042107	8.15370369	0.033084966	27.5087967	660.2111206	24	19953.40869
7	478.7091	826.7046509	3.43769	14.7573	4.78670597	4.596819878	0.011358547	9.393602371	225.4465	8.351299286	8.021242142	0.032547485	26.9095173	645.8284302	24	19840.91162
8	477.5825	824.7593384	3.440425	14.75243	4.74775505	4.556290627	0.01125842	9.290462494	222.9711	8.301060677	7.966815472	0.03232662	26.6656132	639.9747314	24	19794.22412
9	473.8077	818.2407227	3.378789	14.86256	4.51704121	4.410381794	0.010897866	8.911188126	204.9573	8.176228523	7.990751743	0.032423742	26.5008564	609.5197144	24	19637.77734
10	470.4341	812.4145508	3.400426	14.8239	4.06348562	3.949785709	0.009759758	7.932792187	190.387	8.37292099	8.132080078	0.032997217	26.8099174	643.4379883	24	19497.94922
11	468.9837	809.9094849	3.444623	14.74492	3.89543867	3.734120846	0.009226859	7.474285603	179.3828	8.307418823	7.963371754	0.032312647	26.1739712	628.175293	24	19437.82764
12	470.3157	812.2105713	3.441443	14.75059	3.83391166	3.678695917	0.009089907	7.38599205	177.2638	8.436991692	8.095088005	0.032847114	26.6840343	640.4168091	24	19493.05371
13	475.5386	821.2295532	3.444559	14.74502	4.04154587	3.874076366	0.009572686	7.861489296	188.6757	8.541761398	8.188041687	0.033224285	27.2846966	654.8327026	24	19709.50928
14	475.657	821.4337769	3.448947	14.73719	3.97270489	3.802969933	0.009396981	7.719593048	185.2702	8.596293449	8.229801178	0.033393733	27.4307785	658.3386841	24	19714.41064
15	482.4389	833.1473999	3.443987	14.74606	4.36444378	4.184135437	0.010338829	8.618412018	206.8419	8.825707436	8.461733818	0.034334842	28.605217	686.5252075	24	19995.5376
16	482.1759	832.6918945	3.402081	14.82093	4.34567022	4.219200611	0.010425476	8.680798531	199.6584	8.781088829	8.522163391	0.034580052	28.7840958	662.0341797	24	19984.60547
17	480.1593	829.2096558	3.41836	14.79185	4.27191448	4.12380743	0.010189754	8.45109272	202.8262	8.772926331	8.477389336	0.034398362	28.523838	684.5720825	24	19901.03174
18	478.9342	827.093689	3.444495	14.74515	4.10943365	3.939362526	0.009733997	8.051649094	193.2396	8.862434387	8.495779991	0.034472987	28.5132504	684.3179932	24	19850.24854
19	476.9397	823.649292	3.458995	14.71924	3.92596459	3.747397184	0.009259669	7.628484726	183.0836	8.747169495	8.350701332	0.033884313	27.9092331	669.8215942	24	19767.58301
20	482.3186	832.9385986	3.455052	14.72629	4.70244455	4.494447708	0.0111056	9.253189087	222.0766	8.633974075	8.251149178	0.033480354	27.8861256	669.2669678	24	19990.52637
21	482.3431	832.9813843	3.430123	14.77083	4.79878855	4.619212627	0.011413875	9.508565903	228.2056	8.584369659	8.263347626	0.033529859	27.9301949	670.324707	24	19991.55322
22	478.0771	825.6133423	3.430124	14.77084	4.08685446	3.935553789	0.009724592	8.033018112	192.7924	8.796773911	8.468029976	0.03436039	28.3700581	680.8814087	24	19814.72021
23	483.0221	834.1533203	3.448503	14.73799	4.16762066	3.989964962	0.009859043	8.226117134	197.4268	8.961004257	8.580389023	0.034816314	29.0412159	696.9891968	24	20019.67969
24	484.3242	836.4020996	3.449455	14.73629	4.50132847	4.308287144	0.010645594	8.905330658	213.7279	8.840334892	8.462209702	0.034336772	28.7190552	689.2573242	24	20073.65039
25	486.1949	839.6329956	3.447803	14.73923	4.95443439	4.745631695	0.011726256	9.848297119	236.3591	8.754323959	8.383703232	0.034018226	28.5636368	685.5272827	24	20151.19189
26	484.308	836.3735962	3.436483	14.75947	5.33313656	5.124172688	0.012661621	10.59185886	254.2046	8.520298958	8.186738968	0.033219002	27.7859535	666.862915	24	20072.96631
27	478.4209	826.206543	3.424082	14.78162	4.51150322	4.350134373	0.010749012	8.88724041	213.2938	8.62650013	8.318998337	0.033755675	27.8907413	669.3778076	24	19828.95703
28	483.3542	834.727356	3.441125	14.75117	4.67923212	4.489642143	0.011093733	9.261897087	222.2855	8.776264191	8.42137146	0.034171075	28.5234966	684.5639038	24	20033.45654
29	485.6862	838.7553101	3.445259	14.74378	5.11453199	4.901299	0.012110917	10.16006279	243.8415	8.720936775	8.358024597	0.033914026	28.4477119	682.7451172	24	20130.12744
30	485.9615	839.2295532	3.394745	14.83405	5.58412075	5.433060646	0.013424875	11.26690102	270.4056	8.567146301	8.332747459	0.03381145	28.3736839	680.9683838	24	20141.50928
31	482.923	833.9824219	3.418422	14.79174	5.51278973	5.324320316	0.013156163	10.97451496	263.3884	8.457341194	8.171652794	0.033157788	27.6570911	663.7702026	24	20015.57813
Apr 05 01	481.7554	831.9660645	3.430504	14.77015	5.2439456	5.047360897	0.012471821	10.38520145	249.2448	8.514100075	8.194921494	0.033252209	27.668026	664.0325928	24	19967.18555
02	476.9922	823.7393188	3.422365	14.7847	4.66301632	4.499049664	0.011116956	9.166051865	219.9852	8.525544167	8.225533485	0.033376418	27.491888	659.8052979	24	19769.74365
03	457.2005	823.8898315	3.447271	14.74019	4.62304878	4.427968502	0.010941326	9.01564312	207.3598	8.70975399	8.342554092	0.033851251	27.8903484	641.4780273	24	19773.35596
04	480.4313	829.6792603	3.45022	14.73493	4.96460867	4.75088644	0.011739244	9.743244171	233.8379	8.759730339	8.38320446	0.034016199	28.2218037	677.3233032	24	19912.30225
05	480.8759	830.447998	3.442396	14.7489	5.00260735	4.797864437	0.011855321	9.850419998	236.4101	8.533971786	8.185332298	0.033213291	27.5871162	662.0908203	24	19930.75195
06	474.332	819.1468506	3.376302	14.867	4.45087719	4.345570564	0.010737729	8.809277534	211.4227	8.540119171	8.354001045	0.03389769	27.7649078	666.3577881	24	19659.52441
07	479.7722	828.5406494	3.402841	14.81959	4.58829308	4.453300476	0.011003929	9.119291306	218.863	8.719507217	8.464131355	0.034344565	28.4577408	682.9857788	24	19884.97559
08	482.6066	833.4368286	3.416197	14.79572	4.6946559	4.537089825	0.011210967	9.346963882	224.3271	8.851145744	8.554883003	0.034712806	28.9328213	694.3876953	24	20002.48389
09	481.6975	831.8665161	3.422492	14.78448	4.39528608	4.241405487	0.010480335	8.723130226	209.3551	8.951464653	8.636674881	0.035044692	29.1545792	699.7098999	24	19964.79639
10	478.2942	825.9883423	3.434003	14.7639	4.46364975	4.292218685	0.010605892	8.762965202	210.3112	8.660364151	8.32703495	0.033788279	27.9088879	669.8132935	24	19823.72021
11	474.9231	820.1668091	3.424718	14.7805	4.2343936	4.082129955	0.010086776	8.279368401	198.7048	8.66513443	8.354432106	0.033899438	27.8039875	667.2957153	24	19684.00342
12	473.6674	817.9988403	3.423	14.78356	4.24790812	4.096997738	0.010123509	8.284312248	198.8235	8.615213394	8.310688972	0.03372195	27.5842705	662.022522	24	19631.97217

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	13	482.3076	832.9196167	3.415115	14.79764	4.61866045	4.464112759	0.011030644	9.195223808	220.6854	8.952260017	8.655741692	0.035122067	29.2517128	702.0410767	24	19990.0708
	14	483.1699	834.4094849	3.424718	14.7805	4.78813696	4.616100311	0.011406196	9.519843102	228.4762	8.913467407	8.59386158	0.034870975	29.0985336	698.3648071	24	20025.82764
	15	474.64	819.6782227	3.414543	14.79867	3.96237206	3.830686808	0.009465463	7.764486313	186.3477	8.925232887	8.631785393	0.035024859	28.7078629	688.9887085	24	19672.27734
	16	52.49727	435.1220093	1.85226	10.27524	16.6643791	51.30948639	0.126783624	29.76528549	148.8264	5.81578207	9.268717766	0.037609339	17.9502792	89.75139618	4.791667	2084.959766
	17	475.0713	820.4230957	3.43483	14.76242	4.7321744	4.548454762	0.011239043	9.227398872	221.4576	8.341124535	8.018388748	0.032535896	26.6937408	640.6497803	24	19690.1543
	18	485.1263	837.7874756	3.420902	14.78731	4.99513483	4.821037292	0.011912587	9.981958389	239.567	8.67165184	8.37008667	0.033962972	28.4543705	682.9049072	24	20106.89941
	19	486.1375	839.5333252	3.426244	14.77776	4.80212784	4.625200272	0.011428683	9.600131035	230.4032	8.850509644	8.53024292	0.034612842	29.0563908	697.3533936	24	20148.7998
	20	482.6565	833.5223389	3.416451	14.79527	5.17733049	5.003059387	0.012362362	10.308568	247.4056	8.68580246	8.394553185	0.034062244	28.3907337	681.3776245	24	20004.53613
	21	480.5113	829.8168945	3.415433	14.79709	5.27510643	5.098823547	0.012598996	10.46350574	251.1241	8.49851799	8.216225624	0.033338647	27.6684036	664.041687	24	19915.60547
	22	479.1761	827.5111694	3.424527	14.78082	5.17446995	4.989606857	0.012329113	10.20496368	244.9191	8.481983185	8.178151131	0.033184163	27.4619961	659.0878906	24	19860.26807
	23	478.5854	826.4910889	3.427706	14.77514	4.56873798	4.400650024	0.010873835	8.988931656	215.7344	8.602971077	8.287204742	0.03362665	27.7915039	666.9960938	24	19835.78613
	24	481.2637	831.1169434	3.435211	14.76175	5.05713987	4.860732555	0.012010667	9.983400345	239.6016	8.406943321	8.080615044	0.032788403	27.2510376	654.0249023	24	19946.80664
	25	482.1208	832.5971069	3.430061	14.77095	5.27876329	5.081520081	0.012556237	10.4544487	250.9068	8.395018578	8.08132267	0.032791272	27.3031502	655.2755737	24	19982.33057
	26	477.4842	824.5886841	3.425163	14.7797	5.06079626	4.877980232	0.012053291	9.943501472	238.644	8.34350872	8.043182373	0.032636505	26.9124584	645.8989868	24	19790.12842
	27	479.7747	829.9673462	3.352246	14.91195	4.79840136	4.726150513	0.011677139	9.695897102	223.0056	8.474843979	8.351426125	0.033884339	28.104578	646.4052734	24	19919.21631
	28	481.3545	833.4536133	3.409965	14.80978	5.09958887	4.939086914	0.012202767	10.17119598	244.1087	8.314572334	8.057785988	0.032691658	27.2470798	653.9298706	24	20002.88672
	29	479.9205	830.97052	3.437373	14.76084	4.97414827	4.780313969	0.011810479	9.820080757	235.6819	8.218704224	7.898594856	0.032045804	26.6293907	639.1054077	24	19943.29248
	30	478.8437	829.105896	3.411807	14.8065	5.31040144	5.141577721	0.012703038	10.53893375	252.9344	8.153521538	7.894742966	0.032030188	26.5564041	637.3536987	24	19898.5415
May 05	01	476.3126	824.7233276	3.433006	14.76863	4.3909936	4.228584766	0.01044736	8.618185997	206.8365	8.253046036	7.941709518	0.032220729	26.5749454	637.7987061	23.75	19587.17903
	02	478.1347	827.8786011	3.424336	14.78411	5.05443668	4.875741005	0.012046234	9.978333473	239.48	8.244301796	7.953494549	0.032268543	26.7157631	641.1782837	24	19869.08643
	03	473.2256	819.3782349	3.434257	14.7664	4.339324	4.17419529	0.010312977	8.45331955	202.8797	8.232060432	7.918656349	0.03212719	26.324791	631.7949829	24	19665.07764
	04	472.5603	818.2270508	3.415688	14.79957	4.32104111	4.177237988	0.010320494	8.44833374	202.76	8.26274395	7.991956234	0.032424584	26.5293961	636.7055054	24	19637.44922
	05	473.1512	819.2498779	3.431713	14.77093	4.12739706	3.973618746	0.009817419	8.044939995	193.0786	8.333013535	8.022022247	0.032546561	26.6637421	639.9298096	24	19661.99707
	06	474.5577	821.6853638	3.445322	14.74663	4.28765297	4.110147953	0.010154737	8.350165367	200.404	8.35543251	8.011672974	0.032504588	26.7067051	640.9608765	24	19720.44873
	07	478.1149	827.8453369	3.439918	14.75628	4.83217525	4.640320778	0.011464613	9.491696358	227.8007	8.301377296	7.972071648	0.032343909	26.7765293	642.6367188	24	19868.28809
	08	477.3595	826.5372314	3.431712	14.77095	4.93869495	4.754111767	0.011745745	9.713339806	233.1202	8.247163773	7.939026833	0.032209847	26.6234169	638.9619751	24	19836.89355
	09	480.7198	832.3548584	3.434957	14.76514	5.15189409	4.954428196	0.012240662	10.19063377	244.5752	8.296925545	7.979358196	0.032373484	26.9463501	646.7124023	24	19976.5166
	10	485.2278	840.1607666	3.43076	14.77264	5.53059435	5.324923992	0.013156021	11.05415249	265.2997	8.411554337	8.099541664	0.032861084	27.6094418	662.6265869	24	20163.8584
	11	481.2179	833.2173462	3.410728	14.80842	5.20096684	5.037545204	0.012446004	10.37135792	248.9126	8.369369507	8.105921745	0.032886967	27.4033756	657.6810303	23.75	19788.91197
	12	476.143	824.4299927	3.428596	14.77651	4.89720058	4.719884396	0.011661175	9.621681213	230.9203	8.230947495	7.931114674	0.032177746	26.5318623	636.7647095	24	19786.31982
	13	471.94	817.1520996	3.439663	14.75676	4.7557044	4.567406654	0.011284458	9.224234581	221.3816	8.096605301	7.776055813	0.031548642	25.7814007	618.7536011	24	19611.65039
	14	468.8904	811.8720703	3.436737	14.76197	4.64012289	4.458767414	0.011016058	8.953480721	214.8835	7.99406147	7.684548378	0.031177383	25.3110409	607.4650269	24	19484.92969
	15	466.4259	807.6052246	3.430059	14.7739	4.36841774	4.205999374	0.01039155	8.399226189	201.5814	8.02426815	7.728444576	0.031355485	25.3214626	607.7150879	24	19382.52539
	16	472.453	818.041687	3.431055	14.77211	4.41362333	4.249585629	0.010499245	8.592828751	206.2279	8.246421814	7.940010548	0.032213841	26.3567467	632.5618896	24	19633.00049
	17	478.4177	828.3686523	3.437118	14.76128	4.79815435	4.611546993	0.011393521	9.440242767	226.5658	8.395655632	8.069344521	0.032738566	27.1209164	650.9019775	24	19880.84766
	18	473.1129	819.1833496	3.305861	14.99571	4.44607449	4.438457489	0.010965891	8.977229118	197.499	8.34287262	8.343431473	0.033850573	27.6998596	609.3969116	24	19660.40039
	19	469.0056	812.0717773	3.366974	14.88656	4.45840311	4.376539707	0.010812895	8.782831192	210.7879	8.004712105	7.862075806	0.031897645	25.9109039	621.8616943	24	19489.72266
	20	472.1153	817.4564209	3.416641	14.79787	4.75936079	4.601792336	0.011369421	9.295722961	223.0974	8.00073719	7.735900402	0.031385731	25.6574078	615.777771	24	19618.9541
	21	472.1456	817.5088501	3.409201	14.81115	4.41611338	4.281806946	0.010578847	8.653363228	207.6807	8.11647892	7.864547729	0.031907678	26.0855465	626.0531006	24	19620.2124
	22	469.195	812.4000244	3.407674	14.81388	4.62676811	4.485447407	0.011081971	9.007110596	216.1707	8.029830933	7.784274101	0.031581987	25.6589966	615.815918	24	19497.60059
	23	467.9805	810.2973633	3.412063	14.80603	4.16062546	4.028491974	0.009952987	8.066669464	193.6001	8.181502342	7.921136856	0.032137267	26.0411663	624.9879761	24	19447.13672
	24	466.1924	807.2008057	3.420329	14.79128	4.11690474	3.976293325	0.009824026	7.930348873	190.3284	8.123475075	7.846028328	0.031832531	25.6966705	616.7200928	24	19372.81934
	25	468.2637	810.7875366	3.433336	14.76803	3.42776179	3.306119442	0.008168268	6.614531517	152.1342	8.728382111	8.392558098	0.034049895	27.6268482	635.4174805	24	19458.90088
	26	468.4862	811.1727905	3.458358	14.72336	3.21752954	3.088849545	0.007631469	6.17411232	148.1787	8.885960579	8.475995064	0.034388397	27.9178619	670.0286865	24	19468.14697
	27	467.9422	810.230896	3.461475	14.71779	3.46522593	3.317252398	0.00819577	6.623152733	158.9557	8.730161667	8.32329464	0.033768874	27.386446	657.2747192	24	19445.5415
	28	325.792	615.3312988	2.592986	11.67757	6.37551117	13.15729618	0.032507129	11.99482059	263.886	6.825179577	7.609512806	0.030872937	21.6278229	475.8121033	20.34167	12516.86448
	29	479.3332	829.9525757	3.439853	14.7564	4.01912928	3.859488726	0.009535446	7.915667057	189.976	8.558455467	8.218962669	0.033345584	27.6766796	664.2402954	24	19918.86182
	30	477.2005	826.2612305	3.439154	14.75765	4.22724056	4.060079098	0.010031033	8.289884567	198.9572	8.345892906	8.01664257	0.032524742	26.8743076	644.9833984	24	19830.26953
	31	471.8353	816.9713135	3.450218	14.73789	3.72596216	3.571183443	0.008823141	7.210515976	173.0524	8.383571625	8.024544716	0.032556806	26.6063786	638.5531006	24	19607.31152
Jun 05	01	465.8109	806.5395508	3.437627	14.76038	3.02754331	2.911746264	0.007193905	5.799685478	139.1924	8.544782639	8.20872879	0.033304062	26.8679714	644.8312988	23.25	18752.04456
	02	472.1736	817.5563965	3.432477	14.76958	3.28366661	3.160971642	0.007809653	6.386372089	153.2729	8.639219284	8.315176964	0.03373595	27.581995	661.9678955	24	19621.35352
	03	471.7939	816.8999634	3.442968	14.75085	3.26569963	3.133270502	0.007741213	6.325483322	151.8116	8.591684341	8.243649483	0.033445742	27.3222923	655.7349854	24	19605.59912
	04	469.7442	813.3512573	3.443861	14.74925	3.31768918	3.182704926	0.007863347	6.397992611	153.5518	8.505672455	8.159137726	0.033102866	26.925642	646.2153931	24	19520.43018
	05	476.5307	825.100708	3.437182	14.76118	3.73232126	3.587119579	0.008862516	7.314303875	175.5433	8.555276871	8.222480774	0.03335987	27.5261002	660.6264038	24	19802.41699
	06	482.36	835.194519	3.438644	14.75856	4.28367853	4.115298748	0.010167465	8.492525101	203.8206	8.537946701	8.202066422	0.033277035	27.7944164	667.065979	24	20044.66846
	07	482.846	836.0366211	3.434892	14.76527	4.35538149	4.188260078	0.010347731	8.653306007	207.6794	8.448596001	8.12521553	0.032965239	27.5616798	661.4802856	24	20064.87891
	08	478.264	828.102356	3.401569	14.82477	4.02856159	3.910063744	0.009660395	8.007247925	192.174	8.353152275	8.1117239	0.0329105	27.2558212	654.1397095	24	19874.45654
	09	470.8735	815.3063965	3.428216	14.77719	3.59034657	3.460925817	0.008550733	6.973945618	167.3747	8.203602791	7.906201839	0.032076661	26.154129	627.6990967	24	19567.35352
	10	467.6645	809.7504883	3.450473	14.73744	3.30560541	3.164649248	0.007818738	6.332904339	151.9897	8.170056343	7.822179794	0.031735789	25.6982536	616.7581177	24	19434.01172
	11	467.7642	809.9216919	3.451045	14.73641	3.18334794	3.047214508	0.007528597	6.098459721	146.363	8.296926498	7.942577362	0.032224249	26.101059	626.425415	24	19438.12061
	12	466.4864	807.7097168	3.467263	14.70745	3.30973959	3.153386116	0.007790914	6.292868137	151.0288	8.136670113	7.752396107	0.03145266	25.4053879	609.7293091	24	19385.0332
	13	468.3024	810.8540649	3.478518	14.68735	2.92324924	2.782116652	0.006873634	5.564696312	133.5527	8.707102776	8.262637138	0.033522785	27.1987171	652.7692261	24	19460.49756
	14	466.7967	808.2473755	3.499187	14.65042	2.49669337	2.37150836	0.005859168	4.725057125	113.4014	9.229689598	8.70003891	0.035297383	28.547184	685.1323853	24	19397.93701

Unit 3 - CEMS Data

	15	468.4233	811.0632324	3.436992	14.76151	3.37253881	3.241258621	0.008008013	6.49532032	155.8877	8.351457596	8.026982307	0.0325667	26.4140415	633.9370117	24	19465.51758
	16	474.8051	822.1134644	3.428024	14.77752	3.77079463	3.634037971	0.008978433	7.38305521	177.1933	8.393746376	8.088996887	0.032818291	26.9812622	647.550293	24	19730.72314
	17	473.6783	820.163208	3.440171	14.75583	3.70068336	3.553806543	0.008780209	7.202406883	172.8578	8.281027794	7.952176094	0.032263193	26.4623089	635.0953979	24	19683.91699
	18	476.1349	824.4157715	3.436737	14.76196	3.88049507	3.729922533	0.009215335	7.601494789	182.4359	8.34271431	8.019209862	0.032535162	26.8238792	643.7730713	24	19785.97852
	19	471.8156	816.9380493	3.4375	14.7606	3.76777506	3.620852947	0.00894586	7.310002327	175.4401	8.222998619	7.90259552	0.032062043	26.1942406	628.6618042	24	19606.51318
	20	468.8133	811.7387695	3.434955	14.76515	3.78399181	3.638903379	0.008990455	7.301501274	175.236	8.087861061	7.778236389	0.031557493	25.6195049	614.868103	24	19481.73047
	21	468.088	810.4829712	3.441507	14.75345	3.83263969	3.679205894	0.009090032	7.370723724	176.8974	8.009322166	7.688866615	0.031194896	25.2886047	606.9265137	24	19451.59131
	22	465.6485	806.2590332	3.436991	14.76152	3.60322499	3.463068247	0.008556029	6.899782658	165.5948	7.99421978	7.683475971	0.031173024	25.1351128	603.2426758	24	19350.2168
	23	468.3132	810.8729248	3.457468	14.72494	3.16490531	3.034707546	0.007497699	6.069828987	145.6759	8.631748199	8.238206863	0.03342367	27.1210861	650.9060669	24	19460.9502
	24	470.8188	815.2111816	3.438072	14.75958	3.71769452	3.572916746	0.008827425	7.201136589	172.8273	8.224429131	7.903098106	0.032064077	26.1451664	627.4840088	24	19565.06836
	25	381.7885	721.1537476	3.030373	13.58774	4.25338125	5.841236115	0.014431639	8.184329987	180.0553	7.912051678	8.553940773	0.034704614	25.1568317	553.4502563	21.30278	15362.57836
	26	470.7912	815.1636353	3.448247	14.74142	3.36935997	3.227989674	0.007975233	6.503195286	156.0767	8.385162354	8.0333004	0.032592323	26.5705967	637.6942749	24	19563.92725
	27	469.0576	812.1621094	3.455624	14.72824	3.1691978	3.030506134	0.007487319	6.085587025	146.0541	8.36751461	7.999344826	0.032454565	26.3610497	632.6652222	24	19491.89063
	28	473.0412	819.0594482	3.445386	14.74653	3.66459322	3.513651609	0.008681001	7.11231184	170.6955	8.294222832	7.952637196	0.032265075	26.4286423	634.2874146	24	19657.42676
	29	431.2009	746.6133423	3.177211	13.91935	3.63995337	4.275434017	0.010563093	6.901143551	165.6274	8.152248383	8.20631218	0.033294268	25.6059666	614.5432129	24	17918.72021
	30	469.437	812.8185425	3.495562	14.65691	2.31560922	2.199609518	0.005434463	4.402900219	105.6696	9.332393646	8.8085289	0.035737552	29.0727959	697.7470703	24	19507.64502
Jul 05	01	467.8459	810.0645142	3.503383	14.64295	2.35281205	2.228717566	0.00550638	4.444097042	106.6583	9.295508385	8.754051208	0.035516527	28.8011951	691.2286987	24	19441.54834
	02	464.0353	803.4667969	3.458296	14.72346	3.25441408	3.108610868	0.00768029	6.171020031	148.1045	8.014410973	7.655937195	0.031061303	24.9578876	598.9893188	24	19283.20313
	03	466.9117	808.4471436	3.451617	14.7354	3.28223586	3.141127825	0.007760628	6.274592876	150.5902	8.207258224	7.855313778	0.031870201	25.7659206	618.3820801	24	19402.73145
	04	469.6646	813.2133789	3.446786	14.74403	3.63120747	3.480278254	0.008598547	6.993115425	167.8348	8.164809227	7.825748444	0.031750266	25.8229961	619.7518921	24	19517.12109
	05	471.6238	816.6050415	3.477946	14.68837	2.92388511	2.787519693	0.006886988	5.611521244	134.6765	9.012197495	8.54991436	0.034688305	28.3499756	680.3994141	24	19598.521
	06	470.1783	814.1029053	3.456133	14.72733	2.94805169	2.824595451	0.006978585	5.667029858	136.0087	8.824433327	8.427253723	0.034190658	27.8601875	668.6444702	24	19538.46973
	07	469.118	812.2667847	3.48774	14.67089	2.65949416	2.532577991	0.006257112	5.0649333	121.5584	9.01346302	8.525047302	0.034587409	28.1236458	674.9675293	24	19494.40283
	08	468.42	811.0584717	3.482778	14.67974	2.98477578	2.83891511	0.007013964	5.670018673	136.0804	8.603769302	8.152119637	0.033074386	26.8598957	644.6375122	24	19465.40332
	09	465.1762	805.440918	3.445768	14.74584	3.54932952	3.402611732	0.008406661	6.77329874	162.5592	7.85987711	7.535355091	0.030572079	24.6243076	590.9833984	24	19330.58203
	10	468.1235	810.5447998	3.446021	14.74539	3.43120408	3.28922534	0.008126525	6.588055611	158.1133	8.072758675	7.739246368	0.031399306	25.4526463	610.8635254	24	19453.0752
	11	469.4038	812.7614746	3.502302	14.64486	2.55583549	2.427062988	0.005996425	4.876426697	117.0342	9.0528965	8.528459549	0.034601264	28.1272411	675.053833	24	19506.27539
	12	461.8983	799.7659912	3.520682	14.61204	2.22324085	2.097587824	0.005182403	4.134154797	99.21972	8.882307053	8.323009491	0.033767715	27.0250874	648.6021118	24	19194.38379
	13	459.8712	796.2553101	3.503956	14.64192	2.19319129	2.074792147	0.005126084	4.068733692	97.64961	8.974518776	8.452466011	0.03429294	27.334446	656.0266724	24	19110.12744
	14	464.2142	803.7759399	3.50561	14.63897	2.18651366	2.07216382	0.005119589	4.107441425	98.5786	9.191847801	8.649251938	0.035091337	28.2215538	677.3173218	24	19290.62256
	15	461.9889	799.9229736	3.518647	14.61569	2.3280108	2.195446968	0.00542418	4.318618774	103.6469	9.099481583	8.53027153	0.03460861	27.7300663	665.5216064	24	19198.15137
	16	453.2943	784.8676758	3.465735	14.71018	3.40624285	3.246656656	0.00802135	6.295590401	151.0942	7.490396976	7.139975071	0.028967984	22.7390995	545.7384033	24	18836.82422
	17	453.3626	784.9865723	3.462874	14.71528	3.45393825	3.294840097	0.008140395	6.389818668	153.3557	7.488647461	7.14399147	0.028984258	22.7534714	546.083313	24	18839.67773
	18	462.5275	800.8553467	3.524052	14.60603	2.47777343	2.333271265	0.0057647	4.603456974	110.483	9.204730988	8.615152359	0.034952987	28.0205917	672.4942017	24	19220.52832
	19	462.8986	801.4973755	3.521825	14.61	2.48095417	2.333726645	0.005765823	4.603434563	110.4824	9.263079643	8.679768562	0.035215147	28.2675743	678.421814	24	19235.93701
	20	461.8768	799.7278442	3.502366	14.64476	2.55790162	2.420260429	0.005979618	4.765443802	114.3707	9.099954605	8.573033333	0.034782108	27.8540497	668.4971924	24	19193.46826
	21	462.1591	800.2177734	3.501794	14.64578	2.67968464	2.538150072	0.00627088	4.999720097	119.9933	9.01696682	8.493618965	0.034459919	27.6161251	662.7869873	24	19205.22656
	22	462.4916	800.793457	3.52208	14.60955	2.46966672	2.324574947	0.00574321	4.582942486	109.9906	8.987874031	8.418977737	0.034157075	27.3894463	657.3466797	24	19219.04297
	23	363.0307	718.374939	3.127798	13.82089	5.89841557	10.72533226	0.026498508	10.29488945	216.1927	7.086895943	7.160133839	0.029049752	21.7608929	456.9787598	20.96389	15059.93188
	24	460.3133	797.0213013	3.459885	14.72062	4.03836679	3.855557203	0.009525732	7.591560364	182.1974	7.819972515	7.466930389	0.03029448	24.1479588	579.5510254	24	19128.51123
	25	467.3353	809.1796265	3.484242	14.67712	3.38748384	3.217346191	0.007948935	6.418806076	154.0513	8.785007477	8.322206497	0.033764478	27.3537407	656.4898071	24	19420.31104
	26	468.9919	812.0479736	3.478392	14.68758	3.51769161	3.347762585	0.008271148	6.704698086	160.9128	8.657024384	8.214529037	0.033327613	27.087225	650.0933838	24	19489.15137
	27	469.3872	812.7329712	3.441189	14.75403	3.16409564	3.042053938	0.007515851	6.093539238	140.1514	9.017105103	8.651061058	0.035098668	28.5590572	656.8582764	24	19505.59131
	28	467.2036	808.9512939	3.466753	14.70836	3.15918136	3.023677588	0.007470449	6.035698891	144.8568	8.899315834	8.468657494	0.034358643	27.8133831	667.5211792	24	19414.83105
	29	464.4369	804.1611328	3.507262	14.636	2.88175416	2.721487999	0.006723843	5.398786545	129.5709	8.892159462	8.365778923	0.033941239	27.3126717	655.5040894	24	
	30	461.1513	798.4720459	3.463063	14.71495	3.82818866	3.651977539	0.009022756	7.203112602	172.8747	7.7848382	7.42603159	0.030128522	24.0598869	577.4373169	24	
	31	204.5303	653.7954712	2.858317	12.9822	4.92538929	8.88667202	0.021955878	8.939064026	116.2078	7.234138489	8.391121864	0.034044053	21.9742775	285.6655884	12.83889	
Aug 05	01	467.9838	810.302124	3.498296	14.65203	2.95790744	2.805574894	0.006931595	5.585391045	134.0494	9.368645668	8.835848808	0.035848387	29.0951424	698.2833862	24	19447.25098
	02	468.2281	810.7255859	3.480172	14.68439	3.16506457	3.011927843	0.007441419	6.019665241	144.472	9.028735161	8.561063766	0.03473356	28.1887798	676.5307007	24	19457.41406
	03	468.5328	811.25354	3.452775	14.73334	3.50055099	3.352906466	0.00828386	6.714429855	147.7175	8.704839706	8.324344635	0.033773124	27.4264812	603.3826294	24	19470.08496
	04	470.498	814.6547852	3.48208	14.68099	3.04725718	2.904686689	0.007176463	5.832154274	139.9717	9.271178246	8.783443451	0.035635781	29.0548077	697.3153687	24	19551.71484
	05	468.7498	811.6293335	3.500776	14.64759	3.22452331	3.056159496	0.007550703	6.110504627	146.6521	9.006152153	8.487460136	0.034434922	27.9760456	671.4251099	24	19479.104
	06	460.2665	796.9404907	3.452445	14.73391	4.20148468	4.020081043	0.009932213	7.915409088	189.9698	7.748270512	7.414210796	0.030080572	23.9726372	575.3433228	24	19126.57178
	07	462.4286	800.6841431	3.443224	14.75038	4.23757553	4.065363884	0.010044098	8.042082787	193.01	7.961785316	7.639044762	0.030992771	24.8155842	595.5739746	24	19216.41943
	08	468.588	811.3488159	3.504084	14.6417	3.085572	2.922519922	0.007220521	5.838927746	140.1343	9.432076454	8.878949165	0.036023267	29.2585449	702.2050781	24	19472.37158
	09	469.7578	813.3751221	3.503002	14.64362	3.07205796	2.909064293	0.007187277	5.827913284	139.8699	9.209972382	8.673418045	0.035189372	28.6527576	687.6661987	24	19521.00293
	10	469.1838	812.3810425	3.458693	14.72276	3.46129465	3.312177658	0.008183225	6.63040638	145.8689	8.865610123	8.461267471	0.034328647	27.9502964	614.9064941	24	19497.14502
	11	469.442	812.828186	3.428215	14.7772	4.51388931	4.347723961	0.010741709	8.732622147	209.5829	8.191360474	7.893529892	0.032025255	26.0314789	624.7554932	24	19507.87646
	12	471.269	815.991394	3.47343	14.69644	3.30719614	3.158378839	0.007803246	6.361533642	152.6768	9.187397957	8.725282669	0.035399821	28.9021378	693.6513062	24	19583.79346
	13	465.2033	805.4884033	3.446404	14.7447	3.66586471	3.514315367	0.008682642	6.997173909	167.9322	8.296607971	7.952902317	0.032266136	25.9935284	623.8447266	24	19331.72168
	14	466.0036	806.8725586	3.446404	14.74471	3.86570835	3.705665112	0.009155397	7.389272213	177.3425	8.172758102	7.834396839	0.031785328	25.6520424	615.6489868	24	19364.94141
	15	466.5712	807.8572998	3.4941	14.65951	3.21784759	3.054920435	0.007547637	6.076465607	145.8352	8.704088211	8.217240334	0.033338584	26.9670677	647.2095947	24	19388.5752
	16	467.6375	809.7028809	3.514194	14.62363	2.63946056	2.493137598	0.006159673	4.970204353	119.2849	9.306800842	8.738012314	0.035451461	28.7315578	689.557373	24	19432.86914

Unit 3 - CEMS Data

	17	470.2666	814.255249	3.507305	14.63593	2.11428261	1.996445417	0.004932518	4.008361816	96.20068	9.982905388	9.398123741	0.038129617	31.0618706	745.4849243	24	19542.12598	
	18	470.4482	814.5691528	3.478963	14.68655	3.12261534	2.98134613	0.007365861	5.985182285	143.6444	9.031273842	8.561778069	0.034736454	28.3187008	679.6488037	24	19549.65967	
	19	468.4124	811.0443115	3.471652	14.6996	4.0892415	3.892206669	0.009616283	7.801484585	187.2356	7.992947102	7.606382847	0.030860249	25.0317917	600.7630005	24	19465.06348	
	20	363.9092	720.114502	3.079975	13.65749	5.90640783	9.77995491	0.024162838	10.91398811	229.1938	7.606908798	8.281991005	0.033601314	23.7223568	498.1694946	20.81389	14988.38299	
	21	466.8521	808.3424072	3.444877	14.74743	4.22437859	4.050974369	0.010008539	8.091188431	194.1885	7.898670197	7.574495792	0.030730892	24.8414536	596.1948853	24	19400.21777	
	22	469.0576	812.1621094	3.484306	14.67702	3.12023163	2.970994234	0.007340288	5.947313309	142.7355	9.056081772	8.574373245	0.034787524	28.2775211	678.6605225	24	19491.89063	
	23	467.0276	808.6469116	3.474957	14.69371	3.89353132	3.702440739	0.009147435	7.397334576	177.536	8.222521782	7.818305969	0.031720072	25.6517162	615.6411743	24	19407.52588	
	24	473.5632	819.9632568	3.421923	14.78841	3.13694477	3.031989574	0.007490989	6.130280972	140.9965	9.262349129	8.938757896	0.036265887	29.7618523	684.522583	24	19679.11816	
	25	471.9209	817.1188354	3.430251	14.77356	4.08622074	3.946068048	0.00974936	7.967282295	191.2148	8.339694023	8.027565956	0.032569058	26.6170368	638.8088989	24	19610.85205	
	26	468.6242	811.4105225	3.452637	14.73357	4.38209009	4.193620205	0.010360966	8.410639763	201.8554	7.925538063	7.583370209	0.030766901	24.9667912	599.2030029	24	19473.85254	
	27	463.7833	803.0291138	3.442842	14.75107	4.15696955	3.988581181	0.009854387	7.915044785	189.9611	7.771959305	7.457805157	0.030257454	24.2993507	583.1843872	24	19272.69873	
	28	461.2916	798.7147217	3.444113	14.74879	4.01149797	3.848007202	0.009507076	7.594885826	182.2773	7.791831493	7.474047661	0.030323358	24.2217369	581.3217163	24	19169.15332	
	29	469.4506	812.8424683	3.493145	14.66123	2.80480504	2.667106628	0.006589486	5.33526659	128.0464	9.375959396	8.852940559	0.035917733	29.2305698	701.5336914	24	19508.21924	
	30	472.5331	818.1795654	3.449328	14.73948	3.66268492	3.514046669	0.00868198	7.094193459	170.2606	8.61537075	8.245149612	0.033451848	27.385458	657.2509766	24	19636.30957	
	31	469.4639	812.8660278	3.444132	14.74876	4.00182152	3.83925271	0.00948545	7.711373806	177.3616	8.178828239	7.845659256	0.03183103	25.875948	595.1467896	24	19508.78467	
Sep 05	01	469.7143	813.2990112	3.480934	14.68303	3.12452292	2.981040478	0.007365104	5.97557354	143.4138	9.052740097	8.578193665	0.034803037	28.3321705	679.9721069	24	19519.17627	
	02	471.2803	816.010498	3.492827	14.6618	3.20163131	3.039112091	0.007508579	6.112831593	146.708	9.046693802	8.546502113	0.034674458	28.3179626	679.6311035	24	19584.25195	
	03	469.9447	813.6986084	3.450156	14.73801	4.06825447	3.895331621	0.009623998	7.833335876	188.0001	8.207099915	7.858548164	0.031883337	25.9466991	622.7208252	24	19528.7666	
	04	473.8104	820.3914185	3.450663	14.7371	4.22787571	4.047961235	0.010001096	8.208573341	197.0058	8.241916656	7.890610218	0.032013413	26.265192	630.364624	24	19689.39404	
	05	471.1701	815.8201294	3.450156	14.738	4.15839911	3.981519938	0.009836941	8.027713776	192.6651	8.153520584	7.807004929	0.031674214	25.8412495	620.1900024	24	19579.68311	
	06	471.2636	815.9819336	3.451873	14.73494	4.15649128	3.978562355	0.009829642	8.023569107	192.5657	8.16973877	7.819000244	0.031722873	25.887516	621.300415	24	19583.56641	
	07	470.9153	814.4833984	3.438729	14.76784	4.08362436	3.929155111	0.009704404	7.907418728	189.778	8.230098724	7.91904068	0.032117847	26.1611118	627.8666992	24	19547.60156	
	08	472.9147	817.6061401	3.439216	14.77085	4.0372529	3.887923241	0.009601093	7.852952957	188.4709	8.304080009	7.9947896	0.03242052	26.5096626	636.2318726	24	19622.54736	
	09	472.7421	817.3067627	3.456133	14.74072	3.86284709	3.700581551	0.009138457	7.469433308	179.2664	8.281027794	7.93286705	0.032169417	26.2933006	631.0391846	24	19615.3623	
	10	474.187	819.8050537	3.460204	14.73346	3.92898536	3.759608269	0.009284222	7.611879349	182.6851	8.270375252	7.913099289	0.032089267	26.3069878	631.3676758	24	19675.32129	
	11	476.7307	824.2033081	3.454925	14.74287	4.10243607	3.931137562	0.009707807	8.002339363	192.0562	8.372126579	8.022553444	0.03253312	26.814209	643.5410156	24	19780.87939	
	12	477.3766	825.319519	3.454416	14.74378	4.38463593	4.20214653	0.010377055	8.565869331	205.5809	8.279755592	7.935296059	0.032179274	26.558176	637.3961792	24	19807.66846	
	13	476.1756	823.2437744	3.447739	14.75567	5.04600906	4.84555912	0.011965929	9.849668503	236.392	8.329677582	7.998555183	0.032435805	26.7029247	640.8701782	24	19757.85059	
	14	474.4644	820.2848511	3.44774	14.75567	5.32423401	5.112832546	0.012625954	10.35567474	248.5362	8.268467903	7.939794064	0.032197524	26.4115047	633.8760986	24	19686.83643	
	15	471.9285	815.9008789	3.454352	14.74388	5.26747561	5.048442364	0.012466963	10.17563248	244.2152	8.231107712	7.888965607	0.031991385	26.1033783	626.4810791	24	19581.62109	
	16	473.4806	818.5845947	3.407191	14.82793	5.28696918	5.135362148	0.012681596	10.3793478	238.725	8.259177208	8.025432587	0.032544795	26.6309052	612.5108032	24	19646.03027	
	17	473.4209	818.4799194	3.428533	14.7899	3.86761665	3.745774269	0.009250052	7.58507967	182.0419	8.21504879	7.933834553	0.032173347	26.3342838	632.0228271	24	19643.51807	
	18	472.8328	817.463562	3.453907	14.74468	3.80243254	3.644407511	0.008999738	7.357931137	176.5903	8.245573997	7.903970718	0.032052241	26.2026844	628.8643799	24	19619.12549	
	19	471.2335	814.6992798	3.472223	14.71204	4.33344126	4.135035992	0.010211327	8.31302166	199.5125	8.418230057	8.022556305	0.032533124	26.5121498	636.291626	24	19552.78271	
	20	466.0389	805.7177734	3.449769	14.75206	3.3635931	3.226996899	0.007968953	6.415502071	141.1411	8.709926605	8.358201027	0.033894241	27.342041	601.5249023	24	19337.22656	
	21	466.7303	806.9146729	3.430442	14.7865	3.83375406	3.702110529	0.009142231	7.378013611	177.0723	7.941596031	7.665857792	0.031086637	25.0857792	602.0587158	24	19365.95215	
	22	469.1349	811.0706787	3.484368	14.6904	2.90003633	2.768333435	0.006836304	5.532456398	132.779	9.024757385	8.564478874	0.034730732	28.1877575	676.5062256	24	19465.69629	
	23	466.2416	806.0693359	3.464846	14.72518	3.15981698	3.027536154	0.007476395	6.016963005	144.4071	8.657504082	8.264924049	0.033515979	27.031929	648.7662964	24	19345.66406	
	24	477.0549	824.7636719	3.439217	14.77085	4.11563301	3.961838722	0.00978362	8.069932938	193.6784	8.467357635	8.150934219	0.03305373	27.2621174	654.2907715	24	19794.32813	
	25	389.302	734.2374878	3.123335	13.67131	5.83322811	8.538638115	0.021085862	9.325598717	205.1632	7.790126324	7.683306694	0.031157399	24.4713039	538.3687134	21.66667	15908.47984	
	26	471.0137	814.3192749	3.45289	14.7465	3.93963718	3.777258396	0.009327807	7.598011494	182.3523	8.258132935	7.918068886	0.03210941	26.150259	627.6062012	24	19543.6626	
	27	474.093	819.6436157	3.455815	14.74127	3.80656624	3.647249699	0.009006756	7.38446188	177.2271	8.335400581	7.985663891	0.032383524	26.5468369	637.1240845	24	19671.44678	
	28	470.6928	813.7635498	3.410983	14.82119	4.03979683	3.920282602	0.009681004	7.87931776	189.1036	8.177847862	7.937718391	0.032189097	26.1942425	628.6618042	24	19530.3252	
	29	472.6266	817.1072998	3.461538	14.73108	3.06808376	2.961926222	0.00731437	5.959200382	143.0208	9.266570091	8.844758034	0.03586733	29.3291378	703.899292	24	19610.5752	
	30	471.6929	815.4924316	3.500712	14.66127	2.76728582	2.635294676	0.006507769	5.292479515	127.0195	9.614272118	9.077557564	0.036811389	30.0408421	720.9802246	24	19571.81836	
Oct 05	01	466.6264	806.7341919	3.462748	14.72893	3.82326174	3.65557909	0.009027323	7.284719944	174.8333	8.347959518	7.981544971	0.03236682	26.1127243	626.7053833	24	19361.62061	
	02	468.6923	810.3058472	3.462492	14.72939	3.97969961	3.805101633	0.009396568	7.615205288	182.7649	8.295812607	7.932287693	0.032167066	26.066246	625.5899048	24	19447.34033	
	03	480.368	830.4917603	3.448375	14.75453	4.70991755	4.521990299	0.011166904	9.27587986	222.6211	8.493431091	8.154285431	0.033067323	27.4621925	659.0925903	24	19931.80225	
	04	482.3105	833.8497314	3.444876	14.76077	4.97271872	4.779030323	0.01180165	9.843294144	236.2391	8.490092278	8.159428596	0.033088185	27.5918159	662.2036133	24	20012.39355	
	05	479.4507	828.9055176	3.430059	14.78719	4.65713406	4.49430418	0.011098526	9.206124306	220.947	8.505195618	8.209261894	0.03329026	27.5956955	662.2966919	24	19893.73242	
	06	477.1672	824.9584351	3.446086	14.75863	4.41547632	4.244242191	0.010481013	8.654974937	207.7194	8.499155045	8.165966034	0.03311469	27.3214836	655.7155762	24	19799.00244	
	07	474.7335	820.7503052	3.471015	14.71419	3.52532411	3.372415781	0.008328059	6.831853867	163.9645	9.13699913	8.706707001	0.035307508	28.9889507	695.7348022	24	19698.00732	
	08	480.5415	830.7910767	3.455433	14.74195	4.21785831	4.041162491	0.009979509	8.295686722	199.0965	8.697566986	8.333407402	0.033793699	28.0751419	673.8034058	24	19938.98584	
	09	476.3326	823.5144653	3.470505	14.7151	3.97191048	3.788778782	0.00935626	7.708501339	185.004	8.597406387	8.201379776	0.033258293	27.3912411	657.3897705	24	19764.34717	
	10	473.1348	817.986145	3.468726	14.71828	3.78875995	3.616480827	0.00893077	7.309056282	175.4173	8.53635788	8.147549629	0.033039998	27.0279255	648.6702271	24	19631.66748	
	11	472.9642	817.6915894	3.46332	14.72791	3.7262795	3.562360048	0.008797123	7.198404312	172.7617	8.550983429	8.174142838	0.033147845	27.106245	650.5499268	24	19624.59814	
	12	471.2828	814.78479	3.464253	14.72625	3.84403467	3.673967838	0.009072736	7.393929005	177.4543	8.39104557	8.019202232	0.032519519	26.4977379	635.9456787	24	19554.83496	
	13	471.1786	814.604187	3.476801	14.70388	3.41975665	3.265429258	0.008063867	6.562607765	157.5026	8.814105034	8.385364532	0.034004405	27.7124119	665.0979004	23.99722	19548.23825	
	14	470.297	813.0797119	3.48138	14.69572	2.92706323	2.792975426	0.006897156	5.602013111	134.4483	9.275636673	8.811420441	0.035732139	29.0666656	697.5999756	24	19513.91309	
	15	474.4456	820.2515869	3.458359	14.73674	3.43804121	3.2915833	0.00812845	6.668824196	160.0518	8.695977211	8.325284958	0.033760749	27.6925545	664.6212769	24	19686.03809	
	16	468.9864	810.8140259	3.481253	14.69595	3.19431758	3.038063288	0.007502392	6.083930969	146.0143	8.610443115	8.189253807	0.03320913	26.9285908	646.2861938	24	19459.53662	
	17	467.7987	808.7623291	3.463128	14.72825	3.56665921	3.409361601	0.0084193	6.809922695	163.4381	8.372283936	8.003886223	0.03245743	26.2528744	630.0689697	24	19410.2959	
	18	465.5766	804.9197998	3.479726	14.69867	3.66141462	3.482876539	0.008600843	6.925195694	166.2047	8.198832512	7.800920486	0.031634338	25.4617672	611.0823975	24	19318.0752	

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	19	471.9312	815.9057617	3.466436	14.72236	4.28240681	4.090068817	0.010100288	8.24102211	197.7845	8.12267971	7.757572651	0.031458549	25.6685753	616.0457764	24	19581.73828
	20	468.2966	809.6219482	3.456069	14.74082	4.04838133	3.877677441	0.009575794	7.753820419	186.0917	8.092154503	7.751813889	0.031435203	25.4503841	610.8092041	24	19430.92676
	21	468.8571	810.5908203	3.455624	14.74162	4.21022797	4.034338474	0.009962657	8.077331543	193.856	8.122997284	7.782917023	0.031561341	25.5854454	614.0507202	24	19454.17969
	22	465.0471	804.0032349	3.459249	14.73516	3.84790158	3.683062077	0.009095197	7.313830376	175.5319	8.178641319	7.827694416	0.03174293	25.5234032	612.5617065	24	19296.07764
	23	463.3545	801.0773926	3.46421	14.7263	3.78717136	3.619255781	0.008937626	7.16084671	171.8603	8.148752213	7.787525654	0.031580023	25.2995586	607.1893921	24	19225.85742
	24	468.6019	810.1491089	3.494416	14.67249	3.11975384	2.967965364	0.007329284	5.923823357	142.1718	8.935409546	8.455839157	0.034290195	27.7994843	667.1876221	24	19443.57861
	25	470.2116	812.932373	3.4658	14.72349	3.98462963	3.806266785	0.009399441	7.641895294	183.4055	8.209643364	7.842103004	0.031801358	25.8532658	620.4783936	24	19510.37695
	26	471.7858	815.6538086	3.444495	14.76145	4.21992683	4.055222511	0.010014229	8.170432091	196.0904	8.292791367	7.970855713	0.03232348	26.3650742	632.7617798	24	19575.69141
	27	475.3462	821.8094482	3.452444	14.74728	4.11261177	3.943174601	0.009737529	8.003236771	192.0777	8.461316109	8.114391327	0.032905526	27.0415325	648.9968262	24	19723.42676
	28	477.3348	825.2481689	3.459822	14.73414	4.27366304	4.089426041	0.010098693	8.335898399	200.0616	8.466880798	8.101885796	0.032854825	27.1143627	650.7446899	24	19805.95605
	29	476.0717	823.0633545	3.463256	14.72802	4.31340981	4.123345375	0.010182452	8.38194561	201.1667	8.381505013	8.01228714	0.032491487	26.7439632	641.8551025	24	19753.52051
	30	472.9648	817.6915283	3.469298	14.71726	4.14822483	3.958135128	0.009774479	7.995676994	191.8963	8.218863487	7.842939377	0.031804744	26.0076084	624.1826172	24	19624.59668
	31	473.4392	818.5132446	3.450728	14.75035	4.6801877	4.489925861	0.011087717	9.079023361	217.8966	8.070372581	7.7428298	0.031398788	25.7007999	616.8192139	24	19644.31787
Nov 05	01	468.6347	810.2060547	3.456324	14.74037	3.60704088	3.464836597	0.008556292	6.937660694	166.5039	8.675625801	8.30389595	0.033673994	27.2858467	654.8602905	24	19444.94531
	02	471.6292	815.3831787	3.412809	14.81792	3.7894721	3.675689936	0.009076987	7.404312611	170.2992	8.524723053	8.269306183	0.033533756	27.3385963	628.7877197	24	19569.19629
	03	478.6103	827.4520264	3.42777	14.79125	4.38113689	4.230746269	0.010447684	8.646399498	207.5136	8.518708229	8.228159004	0.033366892	27.6088619	662.6126709	24	19858.84863
	04	477.4091	825.3764648	3.44068	14.76825	4.25871849	4.097863197	0.010119539	8.354809761	200.5154	8.522047043	8.2003088	0.033253945	27.4481659	658.7559814	24	19809.03516
	05	142.4285	590.9753418	2.398351	11.40082	5.60363007	9.546471596	0.02357471	10.97340965	109.7341	7.08142519	9.161396027	0.037151411	23.3015213	233.0151978	9.061111	5354.893436
	06	483.3079	835.5739746	3.435212	14.778	4.69974232	4.530126572	0.011186988	9.349096298	224.3783	8.511713982	8.203615189	0.033267368	27.7978878	667.149292	24	20053.77539
	07	480.1073	830.0405273	3.453589	14.74525	4.1323266	3.966539621	0.009795231	8.1293993	195.1056	8.673086166	8.310863495	0.033702265	27.9815712	671.5576782	24	19920.97266
	08	475.5409	822.1466675	3.446531	14.75782	3.98908091	3.829393864	0.009456556	7.774990559	186.5998	8.62300396	8.284013748	0.033593372	27.6159248	662.7822266	24	19731.52002
	09	478.1183	826.6019287	3.369411	14.89527	5.15104342	5.045589447	0.012459904	10.27366066	236.2942	8.300928116	8.159399986	0.033088055	27.3512306	629.0783081	24	19838.44629
	10	480.9967	831.5793457	3.393366	14.85257	4.88193798	4.76978159	0.011778814	9.793315887	235.0396	8.240487099	8.040350914	0.032605287	27.1138668	650.7327881	24	19957.9043
	11	482.3133	833.8545532	3.439091	14.77109	4.81818628	4.63838625	0.011454342	9.551852226	229.2445	8.271806717	7.962912083	0.032291248	26.9265251	646.2365723	24	20012.50928
	12	484.8244	838.1956177	3.428979	14.7891	5.20769739	5.02781868	0.012416016	10.40866947	249.8081	8.265129089	7.980010033	0.032360587	27.1254005	651.0095825	24	20116.69482
	13	483.7143	836.2769165	3.426817	14.79297	5.20547152	5.028547287	0.012417817	10.38606834	249.2656	8.228720665	7.949831963	0.032238215	26.9602871	647.046875	24	20070.646
	14	467.4315	808.1257935	3.419312	14.80633	6.48656893	6.27229023	0.015489191	12.2335186	293.6044	8.216320992	7.95609951	0.032263629	26.1154423	626.7705688	24	19395.01904
	15	478.2692	826.8630981	3.42847	14.79001	5.19449997	5.021286488	0.012399882	10.2433567	245.8406	8.24446106	7.960742474	0.032282457	26.6959839	640.7036133	24	19844.71436
	16	479.0774	828.2594604	3.429044	14.78898	5.61367464	5.413384914	0.01336816	11.01864338	253.4288	8.201997757	7.919760227	0.032116264	26.5702877	611.1165771	24	19878.22705
	17	480.4373	830.6105347	3.433558	14.78095	4.43582726	4.275345802	0.010557808	8.772536278	210.5409	8.506784439	8.204613686	0.033271406	27.635416	663.25	24	19934.65283
	18	478.9892	828.1074219	3.445577	14.75953	4.39480972	4.222628593	0.010427632	8.643137932	207.4353	8.492159843	8.159812927	0.033089723	27.399992	657.5997925	24	19874.57813
	19	440.9698	762.3773193	3.163602	13.95579	3.9750905	5.548255444	0.013701233	7.528645515	180.6875	8.670859337	9.298693657	0.0377081	27.9403286	670.5678711	24	18297.05566
	20	478.0685	826.5163574	3.474449	14.70807	1.50939918	1.437906265	0.003550858	2.937079191	70.4899	9.038269997	8.612678528	0.034926195	28.8662663	692.7904053	24	19836.39258
	21	467.151	807.6412354	3.481189	14.69606	2.14772344	2.042397976	0.005043628	4.037891865	96.9094	8.961162567	8.522413254	0.034560159	27.9168091	670.003418	24	19383.38965
	22	480.5329	830.7767334	3.43483	14.77868	1.78317082	1.721437097	0.00425103	3.533689976	84.80856	8.970542908	8.644199371	0.035054028	29.1220913	698.9301758	24	19938.6416
	23	481.0581	831.68396	3.428279	14.79035	1.88507879	1.818599582	0.004490969	3.737285852	89.69486	8.932387352	8.630003929	0.034996446	29.1057758	698.5385742	24	19960.41504
	24	480.753	831.1566162	3.45149	14.74899	1.7353158	1.664141655	0.004109539	3.416548729	81.99717	9.057826042	8.688808441	0.035234917	29.285429	702.8502808	24	19947.75879
	25	471.5852	815.307312	3.462365	14.7296	2.03436589	1.945627451	0.004804658	3.893821716	93.45172	8.809808731	8.424339294	0.034162436	27.8551216	668.5228882	24	19567.37549
	26	488.1184	843.8904419	3.457658	14.73799	2.02641797	1.940085053	0.004790972	4.046908379	97.1258	9.087080002	8.701324463	0.035285678	29.7793503	714.7044067	24	20253.37061
	27	491.2938	849.3809814	3.433113	14.78175	2.21036196	2.129965067	0.005259875	4.473316193	107.3596	9.171022415	8.844207764	0.035865091	30.4628963	731.1094971	24	20385.14355
	28	491.0056	848.8822632	3.421347	14.8027	2.1954174	2.123760939	0.005244553	4.456706047	106.9609	9.178495407	8.881703377	0.036017142	30.574192	733.7805786	24	20373.17432
	29	483.7032	836.2579346	3.44564	14.75941	1.9537617	1.876746297	0.004634558	3.877069235	93.04966	8.890256882	8.544176102	0.034648396	28.9759789	695.4235229	24	20070.19043
	30	470.9037	814.1293945	3.465851	14.72339	2.5091908	2.39358902	0.005910887	4.72092104	108.5812	8.769475937	8.377674103	0.033973206	27.6481304	635.9069824	24	19539.10547
Dec 05	01	478.0053	826.4070435	3.459821	14.73414	1.65693712	1.5859375	0.003916416	3.238036633	77.71288	8.955598831	8.570418358	0.034754824	28.7244377	689.3864746	24	19833.76904
	02	483.6125	836.1010742	3.471587	14.71318	1.94072461	1.848715425	0.00456534	3.831362486	91.9527	8.928412437	8.515163422	0.034530755	28.8657169	692.7772217	24	20066.42578
	03	489.4448	846.1845093	3.478898	14.70014	1.97760797	1.881272078	0.004645734	3.935055494	94.44133	9.112994194	8.672079086	0.035167079	29.7586422	714.2073975	24	20308.42822
	04	490.3218	847.699707	3.462111	14.73006	2.08635497	1.994402051	0.004925109	4.180692196	100.3366	9.032546997	8.637574196	0.035027154	29.6907005	712.5767822	24	20344.79297
	05	490.0135	847.1677246	3.458549	14.73642	2.10940671	2.018607855	0.004984881	4.229795933	101.5151	9.101863861	8.712562561	0.035331257	29.9340172	718.4163818	24	20332.02539
	06	487.6923	843.1541748	3.454098	14.74433	1.89223373	1.813336611	0.00447797	3.782272816	90.77455	9.259577751	8.875063896	0.035990227	30.3455505	728.2932129	24	20235.7002
	07	483.9836	836.7421875	3.452466	14.74724	1.67076838	1.602052093	0.00395621	3.313204527	79.51691	9.339598656	8.95629406	0.036319625	30.3903751	729.3690186	24	20081.8125
	08	465.6622	805.0669556	3.489584	14.68111	2.05090046	1.947146297	0.004808409	3.793984652	91.05563	9.18374157	8.712906837	0.035332639	28.4647369	683.1536865	24	19321.60693
	09	479.5661	829.1049194	3.489201	14.68178	1.63118207	1.547058702	0.003820407	3.17171669	76.1212	9.107905388	8.641944885	0.035044875	29.0540752	697.2977905	24	19898.51807
	10	481.1459	831.8359375	3.486341	14.68688	1.74930668	1.661213279	0.00410231	3.415119648	81.96287	9.144153595	8.683467865	0.035213254	29.2926083	703.022583	24	19964.0625
	11	477.7086	825.894104	3.489265	14.68167	1.57712626	1.496379614	0.003695256	3.053400517	73.28161	9.318083763	8.841126442	0.035852607	29.6109543	710.6629028	24	19821.4585
	12	462.8028	800.1226196	3.494289	14.67271	1.9890554	1.883222938	0.004650556	3.626774549	87.04259	9.184218407	8.702012062	0.035288461	28.2725372	678.5408936	24	19202.94287
	13	478.7638	827.7180176	3.466347	14.7225	1.57184851	1.500875473	0.00370636	3.064494133	61.28988	9.296779633	8.879658699	0.03600885	29.7529354	595.0587158	24	19865.23242
	14	477.9779	826.3594971	3.460776	14.73245	1.50192714	1.436933279	0.003548456	2.934221745	70.42132	9.361485481	8.955573082	0.036316711	30.010149	720.2435913	24	19832.62793
	15	481.4673	832.3916016	3.427615	14.79154	1.61383724	1.557959557	0.00384733	3.202623129	70.45771	9.548090935	9.223778725	0.03740434	31.1224136	684.6931152	24	19977.39844
	16	483.9066	836.609375	3.45626	14.74049	1.62275505	1.55517292	0.003840446	3.216853857	77.20449	9.914751053	9.498542786	0.038518563	32.2283936	773.4813843	24	20078.625
	17	272.4678	706.5620728	2.969354	13.21344	4.4251709	7.254590034	0.017914992	8.109508514	129.7521	8.660684586	9.4141922	0.038176473	27.4469757	439.1516113	15.55278	10989.00323
	18	472.1151	816.223938	3.476229	14.7049	1.28348351	1.222234249	0.003018265	2.466215372	59.18917	8.658297539	8.246553421	0.033441484	27.2972412	655.1337891	24	19589.37451
	19	474.7802	820.8310547	3.482588	14.69356	1.70288336	1.618239641	0.003996187	3.282251596	78.77404	8.275939941	7.867511749	0.031904388	26.1877251	628.5053711	24	19699.94531
	20	473.7362	819.0261841	3.454479	14.74367	1.60574341	1.538494587	0.003799262	3.119157076	74.85977	8.435400963	8.084576607	0.032784626	26.8492508	644.382019	24	19656.62842

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	21	476.2204	823.3197632	3.466817	14.72166	1.69604707	1.619541645	0.003999402	3.294880867	79.07714	8.435560226	8.055680275	0.032667454	26.8961124	645.5067139	24	19759.67432
	22	473.0247	817.7960205	3.443598	14.76305	1.55356872	1.492845654	0.003686534	3.015716076	69.36147	8.359378815	8.036549568	0.032589868	26.6398602	612.7167969	24	19627.10449
	23	472.7086	817.2496338	3.481635	14.69525	1.63483787	1.554724932	0.003839339	3.139165401	75.33997	8.158291817	7.758255959	0.031461343	25.712883	617.1091919	24	19613.99121
	24	474.9201	821.0732422	3.478329	14.70116	1.61337459	1.535306215	0.003791384	3.114350796	74.74442	8.398516655	7.993946075	0.0324171	26.6159172	638.7819824	24	19705.75781
	25	476.1455	823.1916504	3.471205	14.71385	1.5930258	1.519319534	0.003751909	3.089541197	74.14899	8.535562515	8.141216278	0.033014309	27.1780624	652.2734985	24	19756.59961
	26	479.3026	828.6489868	3.49588	14.66988	1.79096127	1.696095824	0.00418845	3.475142956	83.40343	8.386752129	7.942428112	0.032208186	26.690237	640.5656738	24	19887.57568
	27	485.9064	840.0670166	3.459059	14.7355	2.30734158	2.208269119	0.005453245	4.582269192	109.9745	8.444146156	8.082201004	0.032775007	27.5330715	660.7937012	24	20161.6084
	28	483.2447	831.9366455	3.429297	14.82069	2.25509048	2.188189507	0.005405974	4.499795914	107.9951	8.37631321	8.129464149	0.032980207	27.4394531	658.546875	24	19966.47949
	29	487.022	837.1125488	3.450727	14.79463	2.26902628	2.192461252	0.005417313	4.536286354	108.8709	8.496769905	8.210977554	0.033316318	27.8898907	669.3574219	24	20090.70117
	30	485.5029	834.5015259	3.459249	14.77955	2.07840538	2.003340483	0.004950016	4.136221886	99.26933	8.712192535	8.398708344	0.034078047	28.4374008	682.4976196	24	20028.03662
	31	482.2965	828.9906006	3.497024	14.71271	1.80606544	1.721546292	0.004253738	3.529066563	84.6976	8.573877335	8.177867889	0.033181965	27.5017128	660.0410767	24	19895.77441
Jan '06	01	489.9506	842.1463623	3.515275	14.68043	1.88937294	1.791947126	0.00442769	3.731645823	89.5595	8.567835808	8.127912521	0.032979276	27.7740917	666.578186	24	20211.5127
	02	490.379	842.8829956	3.558773	14.60343	1.67728662	1.571069598	0.003881928	3.273975849	78.57542	8.504878044	7.970791817	0.032341763	27.2596741	654.2321777	24	20229.19189
	03	496.4092	853.2481079	3.547708	14.62303	2.30018711	2.162849903	0.005344146	4.560388565	109.4493	8.284525871	7.787467957	0.031597909	26.9607086	647.0570068	24	20477.95459
	04	499.681	858.8720703	3.497439	14.71199	2.6986444	2.573050976	0.006357704	5.462028503	125.6267	8.148524284	7.769095421	0.031523366	27.078495	622.8054199	24	20612.92969
	05	496.4391	853.2999878	3.51216	14.68595	2.59415078	2.464098692	0.006088498	5.203704357	124.8889	8.043503761	7.637813568	0.030990683	26.4483452	634.7603149	24	20479.19971
	06	495.1955	851.1608887	3.531173	14.65229	2.36044383	2.230107546	0.005510331	4.698111057	112.7547	8.226337433	7.768577576	0.031521264	26.8317127	643.9611206	24	20427.86133
	07	499.5138	858.5840454	3.547837	14.62281	2.40941072	2.264283657	0.005594778	4.806056976	115.3454	8.281981468	7.785196304	0.031588692	27.1240253	650.9766235	24	20606.01709
	08	501.4753	861.9554443	3.539059	14.63834	2.70448661	2.548365116	0.006296707	5.430350304	130.3284	8.164491653	7.693037987	0.031214762	26.9060669	645.7456055	24	20686.93066
	09	499.6589	858.8342285	3.529902	14.65455	2.68747449	2.538692951	0.006272808	5.39213419	129.4112	8.223792076	7.768985271	0.031522926	27.0740051	649.776123	24	20612.02148
	10	496.253	852.9788818	3.503129	14.70193	2.62324381	2.496700048	0.00616905	5.268018246	126.4324	8.373555183	7.971206665	0.032343436	27.5866756	662.0802002	24	20471.49316
	11	500.585	860.4257202	3.49033	14.72457	2.58699679	2.471208572	0.006106063	5.256136894	115.635	8.515789986	8.135919571	0.033011768	28.390028	624.5806274	24	20650.21729
	12	496.3792	853.1959839	3.512202	14.68586	2.39218664	2.271697998	0.005613097	4.790284634	114.9668	8.260994911	7.843771458	0.031826358	27.1559715	651.7432861	24	20476.70361
	13	492.1207	845.8768921	3.510082	14.68962	2.18921757	2.07986927	0.005139112	4.357019901	104.5685	8.483521461	8.059977531	0.032703631	27.6643085	663.9434204	24	20301.04541
	14	494.6866	850.2872925	3.516356	14.67852	2.08142543	1.973767519	0.004876946	4.148319244	99.55966	8.493749619	8.055290222	0.032684613	27.7922707	667.0145264	24	20406.89502
	15	502.9779	864.5384521	3.510569	14.68876	2.66076541	2.526992559	0.006243899	5.402243137	129.6538	8.477214813	8.052681923	0.032674037	28.2474213	677.9381104	24	20748.92285
	16	507.6587	872.5848999	3.492282	14.72111	4.21772289	4.030537128	0.009958969	8.66903019	182.0496	8.547371864	8.161476135	0.033115458	28.8512001	605.8751831	24	20942.0376
	17	497.7801	855.6043701	3.471077	14.75863	4.44504833	4.268698215	0.010547451	9.043542862	217.045	8.653049469	8.313165665	0.033730954	28.8592796	692.6226807	24	20534.50488
	18	486.5823	836.3570557	3.494925	14.71644	2.76331043	2.64319706	0.006531024	5.464215279	131.1412	8.495815277	8.109358788	0.03290398	27.5195217	660.4685059	24	20072.56934
	19	494.8707	850.6037598	3.51502	14.68089	2.79288125	2.649078846	0.00654556	5.571537971	133.7169	8.488184929	8.052609444	0.03267372	27.792284	667.0147705	24	20414.49023
	20	498.4121	856.6904297	3.499822	14.70778	2.98429871	2.842220068	0.00702279	6.02218771	144.5325	8.541921616	8.138484955	0.033022176	28.2919884	679.0076904	24	20560.57031
	21	493.0468	847.4682007	3.494734	14.71677	2.79208708	2.663152456	0.006580334	5.588726044	134.1294	8.507261276	8.117678642	0.032937758	27.9115505	669.8771973	24	20339.23682
	22	489.522	841.4096069	3.498232	14.71059	2.60082793	2.478756189	0.006124715	5.158172131	123.7961	8.46258831	8.067166328	0.0327328	27.5409203	660.9821167	24	20193.83057
	23	494.3412	849.6922607	3.497469	14.71194	2.87746072	2.742378235	0.006776093	5.764453888	138.3469	8.480074883	8.085280418	0.032806296	27.8774662	669.0592041	24	20392.61426
	24	491.6401	845.0504761	3.411311	14.86435	3.42799592	3.357092381	0.008294975	6.992937088	153.8446	8.763631821	8.568160057	0.03476559	29.3360863	645.3939209	24	20281.21143
	25	491.5163	844.8379517	3.451872	14.7926	3.75950789	3.633476734	0.008977892	7.585152149	182.0437	8.822527885	8.525444984	0.034592278	29.2236996	701.3687744	24	20276.11084
	26	493.0356	847.4492188	3.473686	14.75401	4.09575939	3.93182826	0.009715074	8.234398842	197.6256	8.574193954	8.230957031	0.033397388	28.3027496	679.2659912	24	20338.78125
	27	493.088	847.5390015	3.463192	14.77258	4.17890835	4.022953033	0.009940242	8.430044174	202.3211	8.681826591	8.359737396	0.033919908	28.7476749	689.9442139	24	20340.93604
	28	381.893	750.1858521	3.032154	13.54474	6.90301466	12.61163044	0.031161837	14.54657173	305.478	7.918158054	9.011296272	0.036563642	26.625967	559.1453247	20.30556	15232.94034
	29	497.8569	855.7366333	3.481891	14.7395	4.19210386	4.015050888	0.00992072	8.492383003	203.8172	8.408374786	8.053137779	0.03267587	27.9633579	671.1206055	24	20537.6792
	30	489.8073	841.9008179	3.45944	14.77921	3.80402374	3.66630125	0.009058993	7.632569313	183.1817	8.572763443	8.264247894	0.033532467	28.2264423	677.4346313	24	20205.61963
	31	489.7365	841.7781372	3.450219	14.79552	4.06730127	3.930546284	0.009711917	8.17835331	196.2805	8.653846741	8.364146233	0.033937804	28.5678577	685.6286011	24	20202.67529
Total		343,434	581,187							126,101					468,205	17,309	13,765,202	
Average		471.7496	798.3335746	3.419446	14.73653	3.8896829	4.110865813	0.010086351	7.358502664	173.2152	8.651771834	8.407748102	0.033883775	27.0747845	643.1389121	23.67826	18986.48618	
Ann Avg.		171,717								63,050					234,103	8654.403	6,882,601	

6747.648273 mmscf/yr

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
Feb 04	01	487.816	796.2700195	3.44227	14.83118	2.88111782	2.800351143	0.006915991	5.509739876	132.2337	7.891834259	7.672380924	0.031126909	24.7853661	594.8488159	24	19110.48047
	02	479.1758	782.166687	3.449456	14.81851	2.3332572	2.264064074	0.005591528	4.374664783	104.992	7.790083885	7.558806419	0.030666133	23.9906502	575.7755737	24	18772.00049
	03	481.7147	786.3101807	3.462938	14.79472	2.33277965	2.254192591	0.005567147	4.377961159	105.0711	7.847476482	7.583683014	0.030767053	24.1925831	580.6220093	24	18871.44434
	04	486.014	793.328186	3.436123	14.84201	2.90684533	2.83130002	0.006992421	5.54886961	127.624	7.648344994	7.449389935	0.03022223	23.9752216	551.4301147	24	19039.87646
	05	488.1434	796.8036499	3.439598	14.83588	3.12547708	3.040699959	0.007509575	5.985851765	143.6604	7.57688427	7.371693134	0.02990702	23.832346	571.9763184	24	19123.2876
	06	430.3603	732.9653931	3.170423	13.72209	3.2685008	2.957383394	0.007303807	5.72502327	131.6755	7.0735116	6.892599106	0.02796332	22.1784191	510.1036377	22.75	16674.96269
	07															0	0
	08	462.8654	788.392395	3.36492	14.96754	4.66485643	8.055830956	0.019895351	8.015439987	184.3551	7.350063324	7.462726116	0.030276317	23.2530079	534.8192139	22.87778	18036.66548
	09	493.8131	806.0593262	3.423763	14.8638	3.52102995	3.441246271	0.008498796	6.852538586	164.4609	7.340315342	7.174761295	0.029108055	23.4647923	563.1550293	24	19345.42383
	10	491.6376	802.5078125	3.406859	14.89361	3.42516208	3.364606142	0.008309525	6.670458317	153.4205	7.274468422	7.145458698	0.028989179	23.2657394	535.1119995	24	19260.1875
	11	489.5831	799.1534424	3.41416	14.88074	3.45489383	3.385119677	0.008360181	6.6829319	160.3904	7.303589821	7.159698963	0.029046938	23.2137375	557.1296997	24	19179.68262
	12	488.3326	797.1130371	3.430315	14.85224	3.75203419	3.659213781	0.009037115	7.204631805	172.9112	7.208836079	7.033189774	0.028533705	22.7446823	545.8723755	24	19130.71289
	13	491.8545	802.8619995	3.432985	14.84755	3.68367124	3.590490341	0.008867385	7.121088028	170.9061	7.244926453	7.062536716	0.02865277	23.0052204	552.1253052	24	19268.68799
	14	486.2057	793.6420898	3.435148	14.84374	2.64852428	2.579534531	0.006370639	5.058590412	121.4062	7.41853714	7.227735043	0.029322967	23.2689037	558.4536743	24	19047.41016
	15	484.7638	791.2877808	3.43839	14.83801	2.87650752	2.798487186	0.006911382	5.470606327	131.2946	7.253828526	7.060735226	0.028645447	22.6659832	543.9835815	24	18990.90674
	16	482.25	787.1846924	3.454162	14.81021	3.04089785	2.944991112	0.007273202	5.726333618	137.432	7.048102379	6.829348564	0.027706716	21.8107338	523.4575806	24	18892.43262
	17	481.6428	786.1934814	3.450409	14.81682	3.21562123	3.118688345	0.007702179	6.052983761	145.2716	6.997068405	6.786485672	0.027532816	21.6493874	519.5853271	24	18868.64355
	18	481.3322	785.6867676	3.42103	14.86862	2.78429675	2.72379756	0.006726925	5.285638809	126.8553	7.037291527	6.883955956	0.027928257	21.9467964	526.7230835	24	18856.48242
	19	482.8876	788.2249146	3.434956	14.84407	2.64629841	2.577912569	0.006366632	5.019135475	120.4593	7.178309441	6.993655205	0.028373308	22.3641548	536.7396851	24	18917.39795
	20	480.9695	785.0949707	3.442333	14.83107	2.47236824	2.403753757	0.005936515	4.660597801	111.8543	7.276404381	7.074117661	0.028699746	22.5322304	540.7734985	24	18842.2793
	21	478.9885	781.8616333	3.440235	14.83476	2.38508582	2.319979906	0.005729623	4.480221272	107.5253	7.287373543	7.088980675	0.028760053	22.4861031	539.6665039	24	18764.6792
	22	476.9557	778.5431519	3.451173	14.81548	2.36394119	2.292217493	0.005661059	4.407299995	105.7752	7.262413979	7.042858601	0.028572921	22.2452583	533.8861694	24	18685.03564
	23	479.088	782.0230713	3.478138	14.76795	2.53119206	2.435252905	0.006014312	4.703727245	112.8895	7.226005554	6.952672005	0.028207034	22.0587254	529.4094238	24	18768.55371
	24	482.3602	787.3640137	3.477183	14.76963	2.85917783	2.751600742	0.006795591	5.350667953	128.416	7.133159637	6.865331173	0.027852692	21.9308376	526.3400879	24	18896.73633
	25	477.0304	778.6641846	3.40374	14.89909	2.67641425	2.632284641	0.006500916	5.061231613	116.4083	7.13522625	7.014874935	0.0284594	22.1612301	509.7082825	24	18687.94043
	26	481.6456	786.1980591	3.430377	14.85214	2.54073215	2.47797823	0.006119829	4.811794281	115.4831	7.248105049	7.072064877	0.028691426	22.5581169	541.3947754	24	18868.75342
	27	486.4176	793.9874268	3.438772	14.83734	2.57666206	2.507277489	0.00619219	4.918095112	118.0343	7.314719677	7.118561745	0.02888005	22.9304371	550.3305054	24	19055.69824
	28	488.4755	797.3461914	3.428787	14.85494	2.79383492	2.726901293	0.006734591	5.370650291	128.8956	7.277994156	7.103402138	0.02881855	22.9783459	551.4802856	24	19136.30859
	29	485.2996	792.1622925	3.425926	14.85998	2.93246961	2.864546776	0.007074531	5.605254173	134.5261	7.196434975	7.029760838	0.028519792	22.5948334	542.276001	24	19011.89502
Mar 04	01	479.2637	782.3100586	3.418358	14.87333	2.67348409	2.617105484	0.006463427	5.057514668	121.3803	7.170361519	7.019739151	0.028479138	22.2806664	534.7360229	24	18775.44141
	02	478.201	780.574585	3.43203	14.84923	2.26457667	2.20751214	0.005431379	4.240250587	101.766	7.386209965	7.202613354	0.029128438	22.7385864	545.7260742	24	18733.79004
	03	480.6623	784.5925293	3.407993	14.89161	3.1448729	3.089250803	0.007518831	5.897981644	141.5516	7.064636707	6.936357498	0.027722904	21.7561455	522.147522	24	18830.2207
	04	483.0529	788.4940796	3.410728	14.88679	3.45711827	3.391946793	0.008255555	6.510465145	156.2512	7.052554131	6.919783115	0.027656663	21.8076382	523.3833008	24	18923.85791
	05	483.5052	789.2340698	3.42141	14.86795	3.87747383	3.791610479	0.009228283	7.283191204	174.7966	6.843170643	6.693945885	0.026754059	21.1165676	506.7976074	24	18941.61768
	06	479.0354	781.9378052	3.419248	14.87177	3.7189672	3.640002012	0.00885929	6.929493427	166.3078	6.643805504	6.502812386	0.025990142	20.3258629	487.8207092	24	18766.50732
	07	471.9069	770.3009033	3.423001	14.86515	3.50672245	3.4284513	0.008344402	6.430485725	154.3317	6.484819412	6.340081692	0.025339758	19.5251369	468.603302	24	18487.22168
	08	467.8018	763.6011353	3.420075	14.8703	3.92246628	3.838138342	0.00934153	7.128560543	171.0854	6.32535696	6.189323902	0.024737203	18.8938923	453.4533997	24	18326.42725
	09	468.0385	763.9868774	3.412826	14.88307	4.33789158	4.253037453	0.010351334	7.910278797	189.8467	6.279094219	6.157413483	0.024609666	18.8036366	451.2872925	24	18335.68506
	10	465.2309	759.4038696	3.432794	14.84787	4.09114981	3.987950325	0.00970615	7.372118473	176.9308	6.316931725	6.158821106	0.024615299	18.6948586	448.6766052	24	18225.69287
	11	466.5191	761.506958	3.405639	14.89575	4.08606243	4.014512062	0.009770795	7.441629887	178.5991	6.389271736	6.27809	0.025091976	19.1101494	458.6436157	24	18276.16699
	12	467.33	762.829895	3.429806	14.85314	3.9494946	3.853927135	0.00937996	7.156914234	171.7659	6.510098457	6.352514744	0.025389433	19.3688507	464.852417	24	18307.91748
	13	468.3188	764.4442749	3.43076	14.85147	4.03137064	3.932015419	0.009570006	7.314654827	175.5517	6.464311123	6.30573988	0.025202483	19.269434	462.4664001	24	18346.6626
	14	468.2147	764.2738647	3.424717	14.86213	4.31102467	4.212657452	0.010253052	7.835225105	188.0454	6.33012867	6.185398102	0.024721516	18.8968754	453.5249939	24	18342.57275
	15	465.7442	760.2424316	3.430059	14.8527	4.32406187	4.21822691	0.01026662	7.806214333	187.3491	6.207551479	6.0564785	0.024206258	18.4039593	441.6950073	24	18245.81836
	16	464.3213	757.9194336	3.420774	14.86907	4.3456831	4.250807762	0.010345912	7.842815876	188.2276	6.17845726	6.044294357	0.024157558	18.3106117	439.4547119	24	18190.06641
	17	463.459	756.5113525	3.404622	14.89755	4.12819242	4.057260513	0.009874836	7.471442699	179.3146	6.262559414	6.155789375	0.024603171	18.6127586	446.7062073	24	18156.27246
	18	463.6706	756.8566895	3.402842	14.90069	3.88669538	3.821617842	0.009301322	7.041127205	168.987	6.402783871	6.297070026	0.025167838	19.0490131	457.1763	24	18164.56055
	19	465.228	759.399231	3.419502	14.87131	3.99830198	3.912070751	0.009521473	7.231328964	173.5519	6.392290592	6.256671429	0.025006387	18.9907169	455.7771912	24	18225.58154
	20	465.0136	759.0494995	3.409964	14.88812	4.37859297	4.296179295	0.010456337	7.938193321	190.5166	6.256795364	6.134432316	0.024517834	18.6109924	446.6637878	24	18217.18799
	21	464.8165	758.7266846	3.402333	14.90158	4.31500006	4.242788315	0.010326393	7.836912155	188.0859	6.283228874	6.180755615	0.024702966	18.7427635	449.8262939	24	18209.44043
	22	463.4175	756.4440918	3.40017	14.9054	3.92151117	3.859380484	0.009393228	7.105997086	170.5439	6.365263462	6.265134811	0.025040207	18.9424877	454.6196899	24	18154.6582
	23	469.6702	766.6505737	3.431459	14.85023	4.07525015	3.9739995	0.009672197	7.416104794	177.9865	6.44666338	6.287410259	0.025129242	19.2660789	462.3858948	24	18399.61377
	24	478.4911	781.0499878	3.41607	14.87737	4.00720549	3.926269293	0.009556031	7.463185787	179.1165	6.747780323	6.610517502	0.026420612	20.6370506	495.2891846	24	18745.19971
	25	476.9725	778.5701294	3.419631	14.87109	4.03884315	3.952138901	0.00961899	7.488440514	179.7226	6.689115524	6.546337605	0.0261641	20.3736744	488.9682007	24	18685.68311
	26	481.9948	786.7675781	3.426053	14.85976	3.8863771	3.795657873	0.009238136	7.269376278	174.465	6.812646866	6.654490948	0.026596362	20.9271793	502.2522888	24	18882.42188
	27	481.4231	785.8348999	3.41874	14.87266	3.9679358	3.884381294	0.009454081	7.427974701	178.2714	6.78339386	6.639874458	0.026537959	20.8567257	500.5614014	24	18860.0376
	28	473.8273	773.4354858	3.400934	14.90405	4.13280153	4.066419601	0.009897126	7.652135372	183.6512	6.527586937	6.423023701	0.025671238	19.8611546	476.6676941	24	18562.45166
	29	468.5796	764.8703613	3.375559	14.94879	3.99400902	3.958165884	0.009633654	7.371397495	176.9135	6.546029568	6.490262508	0.025939984	19.8413296	476.1918945	24	18356.88867
	30	471.5057	769.6461792	3.417977	14.87401	3.82008076	3.740187407	0.009103125	7.006924629	168.1662	6.616140842	6.478163242	0.025891624	19.9303589	478.3286133	24	18471.5083

Unit 4 - CEMS Data

	31	474.0109	773.7359009	3.416578	14.87646	3.92898488	3.848441124	0.009366607	7.247357845	173.9366	6.643964767	6.507688999	0.026009634	20.1255283	483.0126953	24	18569.66162
Apr 04	01	476.159	777.2426758	3.398516	14.90832	3.47365379	3.418720961	0.008320722	6.468151093	155.2356	6.966861725	6.861657619	0.027424367	21.3164215	511.5940857	24	18653.82422
	02	474.313	774.229248	3.413971	14.88105	3.06998992	3.00671196	0.007317945	5.670912266	136.1019	7.150965691	7.011642933	0.02802382	21.6945038	520.6680908	24	18581.50195
	03	472.7034	771.6014404	3.437819	14.83903	3.70402217	3.605575323	0.008775503	6.771615982	162.5188	6.756048203	6.576498985	0.026284646	20.2828369	486.7880859	24	18518.43457
	04	453.0769	771.7199097	3.4267	14.85862	3.06660485	2.994794846	0.007288939	5.625182152	129.3792	6.937644482	6.775127888	0.027078517	20.8980217	480.6545105	24	18521.27783
	05	475.1872	775.6552734	3.434384	14.84507	3.12293386	3.042980909	0.007406218	5.744496346	137.8679	6.943171501	6.765590191	0.027040409	20.97575	503.4179993	24	18615.72656
	06	477.0054	778.6239014	3.429106	14.85437	3.19113755	3.114206791	0.007579574	5.901522636	141.6365	6.943013191	6.775852203	0.027081417	21.0879631	506.1111145	24	18686.97363
	07	475.8955	776.8120117	3.406785	14.89374	3.16712999	3.111049175	0.007571886	5.882388592	141.1773	6.949531078	6.826517582	0.027283913	21.1963158	508.7116089	24	18643.48828
	08	471.7145	769.9869995	3.425607	14.86054	3.27969241	3.203849077	0.007797754	6.005552292	144.1333	6.779101372	6.622963905	0.026470367	20.3851376	489.2433167	24	18479.68799
	09	462.9285	755.6459351	3.428343	14.85573	2.67332411	2.608634949	0.006349076	4.79910183	115.1785	6.675124645	6.515862465	0.026042309	19.6793251	472.3038025	24	18135.50244
	10	367.4366	685.4089355	3.075978	13.73632	4.98502827	10.46833706	0.025478519	7.730245113	162.3351	6.324314117	6.657941341	0.026610143	18.7442932	393.6301575	20.69722	14186.06073
	11	472.5963	771.4263916	3.421156	14.8684	2.49748826	2.443206549	0.00594645	4.58708334	110.09	7.000724792	6.84833765	0.027371138	21.1152287	506.7655029	24	18514.2334
	12	475.1264	775.5564575	3.419885	14.87065	2.53310037	2.479465723	0.006034697	4.679638386	112.3113	7.002950191	6.852209091	0.0273866	21.2423992	509.8175964	24	18613.35498
	13	480.5276	784.3729248	3.458231	14.80303	2.60623288	2.522026777	0.006138282	4.81454134	115.549	7.011535168	6.785185814	0.027118713	21.2722416	510.5338135	24	18824.9502
	14	484.137	790.2652588	3.440615	14.83408	2.56012917	2.490087986	0.00606055	4.789262295	114.9423	7.104382992	6.909945965	0.027617358	21.8262157	523.8292236	24	18966.36621
	15	481.4447	785.8707275	3.446784	14.82321	2.53850579	2.464411736	0.005998054	4.715055943	113.1613	7.050009251	6.845227242	0.027358692	21.501545	516.0371094	24	18860.89746
	16	482.5852	787.7316895	3.448819	14.81962	2.34549928	2.275657892	0.005538655	4.363591671	104.7262	7.231093884	7.016811371	0.028044462	22.0915413	530.1970215	24	18905.56055
	17	483.5525	789.3102417	3.459949	14.8	2.25789928	2.183163643	0.005313535	4.194807529	100.6754	7.299139023	7.060819626	0.028220367	22.273716	534.5692139	24	18943.4458
	18	486.5524	794.2071533	3.461857	14.79664	2.54454827	2.459834576	0.005986916	4.754928589	114.1183	7.134113789	6.896563053	0.027563863	21.891592	525.3981934	24	19060.97168
	19	483.6535	789.4760132	3.455943	14.80708	2.51672506	2.436742544	0.005930715	4.683315754	112.3996	7.005812168	6.784039021	0.027114142	21.4064121	513.7539063	24	18947.42432
	20	477.8487	780.0006104	3.436038	14.84216	2.59065294	2.523299932	0.006141382	4.790593147	114.9742	6.97449255	6.792581081	0.027148295	21.176733	508.2416077	24	18720.01465
	21	480.8378	784.8795776	3.424105	14.86321	2.72557831	2.664097548	0.006484061	5.089735985	122.1537	6.953453064	6.795657158	0.027160566	21.3191166	511.6588135	24	18837.10986
	22	484.3769	790.6555176	3.443478	14.82905	2.67125869	2.59504509	0.006316001	4.993916988	119.854	7.106926441	6.907814503	0.027608845	21.8304005	523.9296265	24	18975.73242
	23	483.1265	788.6151733	3.415879	14.8777	3.16919804	3.106060743	0.007559744	5.960186958	143.0445	6.887209892	6.747563362	0.026968341	21.2693958	510.4654846	24	18926.76416
	24	480.7805	784.7854614	3.407866	14.89184	3.24312615	3.184297085	0.007750162	6.083010674	145.9922	6.821549416	6.697784424	0.026769396	21.0154037	504.3696899	24	18834.85107
	25	473.8351	773.4488525	3.405194	14.89655	3.14980173	3.093961239	0.007530295	5.82805872	139.8734	6.644122601	6.529099464	0.026095213	20.185358	484.4486084	24	18562.77246
	26	472.2363	770.8389893	3.392285	14.9193	3.44964671	3.402319193	0.008280799	6.38492012	153.2381	6.435693741	6.348723888	0.025374295	19.5625458	469.5010986	24	18500.13574
	27	470.0746	767.3096924	3.392793	14.9184	3.4922545	3.443571568	0.008381203	6.432202339	154.3728	6.447776318	6.360749722	0.02542235	19.5076294	468.1831055	24	18415.43262
	28	474.7966	775.0183716	3.36068	14.97503	3.1232512	3.107761621	0.007563884	5.864446163	140.7467	6.893091202	6.864984035	0.02743765	21.2643967	510.3454895	24	18600.44092
	29	484.1042	790.2115479	3.423191	14.86482	2.83469248	2.771386147	0.006745194	5.33052206	127.9325	7.132205963	6.973283291	0.027870495	22.0251675	528.6040039	24	18965.07715
	30	481.8492	786.5299072	3.424401	14.86267	2.71752262	2.654598236	0.006460946	5.085642338	122.0554	6.820118427	6.66314888	0.026630962	20.9481373	502.7553101	24	18876.71777
May 04	01	477.338	779.1665039	3.40246	14.90135	3.04423594	2.994543314	0.007288326	5.678344727	136.2803	6.651436329	6.540819645	0.026142046	20.3740253	488.976593	24	18699.99609
	02	472.003	770.4577637	3.403033	14.90034	2.99924421	2.949147463	0.007177838	5.531409264	132.7538	6.493403912	6.38565731	0.025521917	19.6663551	471.9924927	24	18490.98633
	03	468.7227	765.1035767	3.404241	14.89822	2.888273	2.838983297	0.006909715	5.287951469	126.9108	6.514231682	6.40414381	0.025595788	19.5843334	470.0239868	24	18362.48584
	04	472.4175	771.1350098	3.398517	14.9083	3.27985001	3.229369164	0.007859861	6.062009811	145.4882	6.558588028	6.458602428	0.025813445	19.908741	477.8097839	24	18507.24023
	05	477.0576	778.7091064	3.372661	14.95389	3.36848164	3.341321707	0.008132346	6.330180168	145.5941	6.673202991	6.621230602	0.02646343	20.5959873	473.7077026	24	18689.01855
	06	479.8734	783.305603	3.396926	14.91111	3.40338254	3.352272511	0.008158994	6.392082691	153.41	6.666380882	6.568392754	0.026252259	20.5659752	493.5834045	24	18799.33447
	07	480.4587	784.2608032	3.416833	14.87603	3.46793008	3.39618969	0.008265883	6.483976364	155.6154	6.621547222	6.484928131	0.025918663	20.3322124	487.973114	24	18822.25928
	08	480.612	784.5117798	3.413524	14.88185	3.49908996	3.429993629	0.008348157	6.549306393	157.1833	6.484660625	6.35709095	0.02540772	19.9356461	478.4555054	24	18828.28271
	09	477.7666	779.8660889	3.395083	14.91436	3.22611427	3.180613756	0.007741198	6.037004948	144.8881	6.573215008	6.478899479	0.025894567	20.1961594	484.7077942	24	18716.78613
	10	484.9174	791.5389404	3.419504	14.87132	3.19145584	3.124112606	0.007603684	6.017417431	144.418	6.846827984	6.700435638	0.026780004	21.1986465	508.7674866	24	18996.93457
	11	482.2965	787.2608643	3.40653	14.89419	3.0493238	2.995519876	0.007290706	5.74095726	137.783	6.820118904	6.700118542	0.026778724	21.0806789	505.9363098	24	18894.26074
	12	482.6484	787.8348389	3.415496	14.87838	3.26713252	3.201133251	0.007791142	6.138368607	147.3208	6.6970644	6.561712742	0.026225546	20.6619759	495.8873901	24	18908.03613
	13	479.3074	782.3817749	3.41556	14.87827	3.33899283	3.270985365	0.007961151	6.230629444	149.5351	6.561450481	6.428691387	0.025693892	20.1065998	482.5584106	24	18777.1626
	14	476.1815	777.2786865	3.411618	14.88521	3.23120165	3.169504642	0.007714164	5.996551991	143.9173	6.486250877	6.362397671	0.025428934	19.7672825	474.4147949	24	18654.68848
	15	255.297	624.9731445	2.745727	12.46836	3.98160696	4.125201225	0.010040193	7.001582623	112.0253	5.712715149	6.561538696	0.026224865	17.3793812	278.0700989	14.75278	9220.090091
	16	476.8518	778.3728027	3.410472	14.88723	3.95919251	3.884209633	0.009453659	7.361280441	176.6707	6.465105534	6.343841553	0.025354775	19.7376251	473.7030029	24	18680.94727
	17	481.7667	786.3953247	3.418867	14.87243	3.8367734	3.755815029	0.009141163	7.187879562	172.5091	6.620593548	6.480302811	0.02590018	20.3690548	488.8572998	24	18873.48779
	18	483.8351	789.7720337	3.395247	14.91409	4.08869505	4.031049252	0.009811042	7.744752884	178.1293	6.518918514	6.424920559	0.02567883	20.2718525	466.252594	24	18954.52881
	19	481.7941	786.4402466	3.40494	14.89699	4.00720501	3.937903643	0.00958434	7.538018227	180.9124	6.516457558	6.405099392	0.025599618	20.1338825	483.2131958	24	18874.56592
	20	480.9177	785.0096436	3.43413	14.84552	3.8374095	3.739155769	0.009100617	7.145256519	171.4862	6.483388901	6.318271637	0.025252575	19.8252411	475.8057861	24	18840.23145
	21	482.3374	787.328064	3.430696	14.85158	3.86650419	3.771412373	0.009179124	7.22789669	173.4695	6.514867783	6.354958057	0.025399204	19.9982128	479.9570923	24	18895.87354
	22	479.1371	782.1038208	3.433112	14.84733	3.79957128	3.703147411	0.009012979	7.05103302	169.2248	6.369874001	6.209236622	0.024816787	19.4108047	465.859314	24	18770.4917
	23	478.231	780.6238403	3.426625	14.85875	3.54614949	3.462733746	0.008427842	6.580053806	157.9213	6.454135895	6.303406239	0.025193172	19.6673336	472.0159912	24	18734.97217
	24	481.701	786.2877808	3.442907	14.83006	3.54281092	3.443564177	0.008381185	6.590379238	158.1691	6.561609268	6.377810478	0.025490534	20.0451164	481.0827942	24	18870.90674
	25	480.5167	784.3549805	3.44634	14.824	3.49034595	3.389095783	0.008248614	6.470458984	155.291	6.505171299	6.316583157	0.025245834	19.8088074	475.4114075	24	18824.51953
	26	474.4258	774.4130859	3.403726	14.89913	3.58420539	3.523607254	0.008575999	6.640677929	146.0949	6.24537611	6.139535904	0.024538213	18.9999084	417.9979858	24	18585.91406
	27	470.2311	767.5654297	3.411108	14.88612	3.62580132	3.556658745	0.008656444	6.646620274	159.5189	6.088312149	5.973520756	0.0238747	18.3264427	439.8345947	24	18421.57031
	28	472.4177	771.1348877	3.428024	14.85628	3.57747006	3.491478443	0.008497803	6.55518961	157.3246	6.122971535	5.9775877	0.02389095	18.4231491	442.1556091	24	18507.2373
	29	480.5987	784.4894409	3.435338	14.84339	3.47301674	3.382878304	0.008233484	6.459835529	155.0361	6.440462589	6.273946285	0.025075421	19.6738834	472.1732178	24	18827.74658
	30	475.3463	775.9153442	3.425481	14.86077	3.58684993	3.503379107	0.008526767	6.618841171	158.8522	6.234102249	6.090297222	0.024341434	18.8883781	453.321106	24	18621.96826
	31	470.8159	768.5206909	3.415942	14.87759	3.30163288	3.234000921	0.007871134	6.051225662	145.2294	6.235690594	6.109109879	0.024416622	18.7653122	450.3674927	24	18444.49658
Jun 04	01	470.4871	767.9824829	3.422492	14.86605	3.13819575	3.068266153	0.007467758	5.736028194	137.6647	6.347457409	6.206838131	0.0248072	19.0514622	457.2351074	24	18431.57959

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	02	469.5798	766.5026855	3.414158	14.88074	3.13677955	3.0739851	0.00748168	5.735307693	131.9121	6.312543392	6.18742609	0.024729613	18.9518833	435.8933105	24	18396.06445
	03	469.8025	766.8657837	3.423891	14.86357	3.21530342	3.142328739	0.007648016	5.86668539	140.8004	6.228854656	6.088515759	0.024334304	18.6623383	447.8960876	24	18404.77881
	04	474.1263	773.9241943	3.406402	14.89442	3.63486385	3.570361137	0.008689795	6.727145672	161.4515	6.25063467	6.140816212	0.024543334	18.9942169	455.8612061	24	18574.18066
	05	473.3076	772.5878906	3.398263	14.90877	3.47635579	3.422551632	0.008330042	6.436713219	154.4811	6.300557613	6.205173969	0.024800563	19.1600704	459.8417053	24	18542.10938
	06	468.3954	764.5697632	3.411809	14.88488	3.29781532	3.234387398	0.007872078	6.020358086	144.4886	6.172573566	6.054518223	0.024198413	18.5026627	444.0639038	24	18349.67432
	07	474.6459	774.7717285	3.406657	14.89397	3.10687447	3.051591635	0.007427176	5.755310535	138.1274	6.486568928	6.372204304	0.025468154	19.7327671	473.5863953	24	18594.52148
	08	481.0521	785.2294312	3.390569	14.92233	3.13692379	3.096172571	0.00753568	5.917789936	142.027	6.646825314	6.560226917	0.026219625	20.58885	494.1324158	24	18845.50635
	09	483.5223	789.2609863	3.429742	14.85326	3.40910625	3.325563669	0.008093989	6.388475895	153.3234	6.562245369	6.404265881	0.025596283	20.2039661	484.8952026	24	18942.26367
	10	477.9533	780.1710205	3.425671	14.86044	3.55092001	3.468237877	0.008441241	6.586882114	158.0852	6.323292732	6.177239418	0.0246889	19.2622375	462.2937012	24	18724.10449
	11	474.7174	774.8884888	3.41079	14.88667	3.37699032	3.312516212	0.008062229	6.248920918	149.9741	6.308982849	6.190714836	0.024742767	19.1743832	460.1852112	24	18597.32373
	12	354.6648	694.6671143	3.051892	13.69175	3.8427186	3.846873045	0.009362783	6.768560886	135.3712	6.125227451	6.723824978	0.026873503	18.7012348	374.0246887	19.75	13719.67551
	13	473.2009	772.413147	3.423699	14.86391	4.20196104	4.105950356	0.009993348	7.723491669	185.3638	6.173528671	6.034381866	0.024117934	18.6332207	447.1972961	24	18537.91553
	14	469.7775	766.8253784	3.422173	14.86661	4.10577536	4.01329565	0.009767842	7.496816158	179.9236	6.042048454	5.908477306	0.023614733	18.1090298	434.6166992	24	18403.80908
	15	468.8465	765.3053589	3.442142	14.8314	3.24503255	3.164278269	0.007701443	5.884937286	141.2385	6.591976166	6.401029587	0.025583338	19.595129	470.2831116	24	18367.32861
	16	469.0663	765.6640015	3.438912	14.8371	3.04686213	2.973889589	0.007238057	5.531488419	127.2242	6.820518017	6.629031181	0.026494604	20.3064785	467.0490112	24	18375.93604
	17	470.3601	767.7762451	3.452254	14.81357	3.25934243	3.167260885	0.007708697	5.91465807	141.9518	6.556363106	6.349471569	0.025377275	19.4930992	467.8344116	24	18426.62988
	18	471.7722	770.0812378	3.45696	14.80528	3.26252127	3.168542862	0.007711819	5.935245037	142.4459	6.582437038	6.36491394	0.025439	19.5968132	470.3234863	24	18481.94971
	19	468.5638	764.8433228	3.425799	14.86021	3.85299015	3.763556242	0.009160006	7.007371426	168.1769	5.890537262	5.754172325	0.022998009	17.5931664	422.2359924	24	18356.23975
	20	469.2643	765.9868164	3.410346	14.88746	3.85760045	3.784127951	0.009210072	7.056592464	169.3582	6.025195122	5.913323879	0.0236341	18.1031456	434.4754944	24	18383.68359
	21	467.9782	763.8882446	3.408502	14.89071	3.70767784	3.639189959	0.008857314	6.768587589	162.4461	6.077978611	5.967825413	0.023851926	18.2202168	437.2851868	24	18333.31787
	22	465.2035	759.3589478	3.426371	14.8592	3.86062169	3.770256281	0.009176312	6.971563816	167.3175	5.987517357	5.84859705	0.023375412	17.7536659	426.0880127	24	18224.61475
	23	466.5826	761.6100464	3.42794	14.85643	4.03428507	3.937637091	0.009583691	7.301436901	175.2345	5.908023834	5.767743111	0.023052238	17.5567131	421.361084	24	18278.64111
	24	470.228	767.5609741	3.424592	14.86236	4.23995829	4.142183781	0.010081538	7.741087914	185.7861	5.946975231	5.811553955	0.023227358	17.8287868	427.8908997	24	18421.46338
	25	471.8433	770.1976929	3.420838	14.86896	4.2078433	4.115537643	0.010016688	7.716889381	185.2054	6.001348495	5.871139526	0.023465505	18.0728283	433.7478943	24	18484.74463
	26	468.4921	764.7268066	3.416387	14.87681	3.86284876	3.783798695	0.009209272	7.043532848	169.0448	5.949518681	5.827819347	0.023292366	17.8133335	427.519989	24	18353.44336
	27	469.0605	765.6550293	3.421538	14.86773	3.78255987	3.699019194	0.009002928	6.894788742	165.4749	6.086246014	5.952914715	0.023792341	18.2179337	437.2304077	24	18375.7207
	28	468.8737	765.3501587	3.44227	14.83117	3.29431915	3.209450722	0.007811385	5.973232746	143.3576	6.410256386	6.226716518	0.024886662	19.0564213	457.3540955	24	18368.40381
	29	468.198	764.2469482	3.441061	14.8333	3.44710302	3.352269888	0.008158987	6.241057396	149.7854	6.077820301	5.911022663	0.023624904	18.0577049	433.3848877	24	18341.92676
	30	468.7335	765.1213989	3.429996	14.85281	3.56808877	3.481054068	0.00847243	6.482568264	155.5816	5.998009205	5.851861954	0.023388449	17.8970585	429.5293884	24	18362.91357
Jul 04	1	467.9557	763.852356	3.434257	14.8453	3.87047911	3.770842075	0.009177739	7.012440681	168.2986	5.905798912	5.755364418	0.023002775	17.5718498	421.7243958	24	18332.45654
	2	467.9698	763.8747559	3.472857	14.77725	2.93199325	2.83868742	0.006908992	5.266797543	126.4031	6.614233971	6.365195274	0.025440142	19.4459877	466.7037048	24	18332.99414
	3	461.1128	752.6817627	3.432731	14.84799	3.96857262	3.868001699	0.009414214	7.087433338	170.0984	5.75444603	5.610536575	0.022423942	16.8786659	405.0880127	24	18064.3623
	4	463.6429	756.8118896	3.428343	14.85573	3.84599447	3.753493786	0.00913551	6.916455269	165.9949	5.874955177	5.734978676	0.022921309	17.3482628	416.3583069	24	18163.48535
	5	460.7888	752.1525269	3.432158	14.849	3.9975071	3.897012949	0.009484825	7.135613441	171.2547	5.712633133	5.570204735	0.022262733	16.7469921	401.9277954	24	18051.66064
	6	461.1649	752.7669678	3.438327	14.83812	4.16444063	4.052289963	0.009862744	7.426301479	178.2312	5.709134579	5.557096004	0.022210358	16.7204666	401.2911987	24	18066.40723
	7	464.5744	758.3321533	3.425506	14.86073	3.34481311	3.274844885	0.007970545	6.033155441	138.7626	6.394994259	6.241674423	0.02494644	18.9350471	435.5061035	24	18199.97168
	8	467.3984	762.9420166	3.43273	14.848	3.21784663	3.147031307	0.007659463	5.835354328	140.0485	6.561291218	6.389276981	0.025536368	19.4943676	467.8648071	24	18310.6084
	9	468.4449	764.6505737	3.460331	14.79933	3.28986716	3.191693783	0.007768169	5.9363451	142.4723	6.535536289	6.314321518	0.025236797	19.3047199	463.3132935	24	18351.61377
	10	348.396	682.4302368	3.08051	13.64021	3.93696594	4.018174171	0.009779708	7.070445538	141.4089	5.944941044	6.447253704	0.025768066	17.5990868	351.98172	19.99444	13644.81308
	11	465.937	760.5563354	3.436228	14.84183	4.11595106	4.007055759	0.00975265	7.42086935	178.1009	6.120109081	5.960654259	0.023823274	18.1189957	434.855896	24	18253.35205
	12	470.376	767.8031006	3.469107	14.78386	3.10703468	3.012207985	0.007331315	5.613652706	134.7277	7.126004219	6.863865852	0.027433176	21.0827255	505.9853821	24	18427.27441
	13	470.904	768.6640625	3.458104	14.80325	3.43088579	3.329360485	0.00810323	6.21654892	149.1972	6.858433723	6.629796505	0.026497671	20.3851128	489.2427063	24	18447.9375
	14	471.0688	768.9331055	3.44973	14.81804	3.48817325	3.392181635	0.008256124	6.334562302	152.0295	6.896695137	6.684006214	0.026714329	20.5598202	493.4356995	24	18454.39453
	15	467.7469	763.5114746	3.432922	14.84766	4.07381916	3.969537497	0.009661335	7.381131649	177.1472	6.328697681	6.169974804	0.024659859	18.8272953	451.8551025	24	18324.27539
	16	465.7419	760.237854	3.443414	14.82916	3.65203381	3.548330784	0.008636178	6.567738533	157.6257	6.411051273	6.231100559	0.024904167	18.9324951	454.3798828	24	18245.7085
	17	462.9613	755.6997681	3.447166	14.82254	3.78128743	3.670188665	0.00893276	6.752744675	162.0659	6.240459919	6.058966637	0.024216192	18.3010921	439.2261963	24	18136.79443
	18	462.7477	755.3498535	3.447294	14.82231	3.85648751	3.742825747	0.009109549	6.883435249	165.2024	6.145706654	5.966346741	0.023846021	18.0112591	432.2702026	24	18128.39648
	19	463.1512	756.0091553	3.447548	14.82187	3.88542295	3.773990393	0.009185401	6.940335751	166.5681	6.262400627	6.077207088	0.024289096	18.3696423	440.8713989	24	18144.21973
	20	464.3186	757.9150391	3.467453	14.78677	3.456007	3.344796658	0.008140807	6.156103611	147.7465	6.610895157	6.374033928	0.025475442	19.3244743	463.7874146	24	18189.96094
	21	463.5932	756.7311401	3.465714	14.78984	3.22107959	3.121081114	0.007596306	5.725860119	137.4206	6.841316223	6.598331928	0.02637192	19.9826584	479.5838013	24	18161.54736
	22	461.0277	752.5427246	3.456896	14.80539	3.83311701	3.714404106	0.009040379	6.799426556	163.1862	6.361130714	6.156188011	0.024604779	18.5247078	444.5929871	24	18061.02539
	23	459.8739	750.6592407	3.453144	14.812	3.93295884	3.812034607	0.009277994	6.963644981	167.1275	6.228059769	6.035130501	0.024120932	18.1104698	434.6513062	24	18015.82178
	24	458.5878	748.5605469	3.451999	14.81402	4.09512424	3.969084024	0.00966023	7.232909203	173.5898	6.030442715	5.846646309	0.023367601	17.4923592	419.8165894	24	17965.45313
	25	457.95	747.5201416	3.438072	14.83858	4.25999022	4.145733833	0.010090182	7.544744968	181.0739	5.938388824	5.78037262	0.023102725	17.270195	414.4847107	24	17940.4834
	26	465.5606	759.9420166	3.471904	14.77893	3.03596926	2.93568635	0.007145072	5.405539989	129.733	7.128389359	6.863809109	0.027432954	20.8835373	501.204895	24	18238.6084
	27	465.6812	760.1392822	3.433049	14.84743	3.95505905	3.854476213	0.009381293	7.132599354	171.1824	6.452228546	6.290943146	0.025143346	19.1155586	458.773407	24	18243.34277
	28	468.9371	765.453186	3.451957	14.8141	3.43608046	3.341285467	0.00813225	6.219349861	149.2644	6.955573559	6.736513138	0.026924184	20.6193409	494.8641968	24	18370.87646
	29	468.2306	764.3008423	3.463063	14.79452	3.18604994	3.087483406	0.007514528	5.73503685	137.6409	7.059231281	6.815056801	0.027238101	20.831337	499.9520874	24	18343.22021
	30	455.7064	743.8564453	3.418613	14.87289	4.07493401	10.35192204	0.02519517	6.932002068	166.3681	6.312957287	6.543984413	0.026154701	18.3527756	440.4666138	24	17852.55469
	31	143.6951	562.9338989	2.610196	11.5978	6.0950861	13.15250206	0.032011367	8.348930359	83.48931	5.997784138	6.243545055	0.024953909	16.9360695	169.3607025	9.291667	5230.594323
Aug 04	1	464.2993	757.8835449	3.451047	14.8157	3.7339108	3.620105743	0.008810867	6.679436207	160.3065	6.518048286	6.321310043	0.025264718	19.1519661	459.6471863	24	18189.20508
	2	469.2224	765.9196777	3.456132	14.80673	3.85982633	3.736230373	0.009093493	6.966933727	167.2064	6.591975689	6.38412714	0.025515797	19.5526829	469.2644043	24	18382.07227
	3	466.6183	761.668396	3.461283	14.79765	3.71769452	3.597791195	0.008756555	6.666247368	159.9899	6.584502697	6.362929344	0.02543108	19.3776627	465.0639038	24	18280.0415

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	4	464.8788	758.8296509	3.400975	14.90398	3.77816582	3.717610836	0.00904818	6.870042324	151.1409	6.500617981	6.39820385	0.025572045	19.4097462	427.0144043	24	18211.91162
	5	466.7061	761.8118896	3.412126	14.88432	4.03725386	3.958764553	0.009635113	7.342826843	176.2278	6.400876522	6.278738976	0.025094571	19.1177578	458.8262024	24	18283.48535
	6	470.077	767.31427	3.420266	14.86998	4.25935459	4.166437626	0.010140559	7.783326149	186.7998	6.468603611	6.32924366	0.025296437	19.4105701	465.8536987	24	18415.54248
	7	467.5606	763.206543	3.420901	14.86884	4.22231054	4.129384518	0.010050385	7.674772263	184.1945	6.411528587	6.272316456	0.025068916	19.133276	459.1986084	24	18316.95703
	8	463.7201	756.937439	3.427135	14.85785	4.05489969	3.95905447	0.00963582	7.29728508	175.1348	6.37830019	6.228532314	0.024893908	18.8457203	452.2973022	24	18166.49854
	9	466.5471	761.5518188	3.47006	14.78219	3.08191514	2.984349489	0.007263517	5.513689041	132.3285	7.166864395	6.903365612	0.027591063	21.0331535	504.7956848	24	18277.24365
	10	465.2227	759.3904419	3.460394	14.79922	3.39654541	3.295073748	0.008019779	6.077784061	145.8668	6.89992857	6.665623665	0.026640872	20.2461452	485.9075012	24	18225.37061
	11	464.6732	758.4935303	3.487611	14.75123	2.86013222	2.759472132	0.006716196	5.081952095	121.9669	7.327120781	7.021365643	0.028062658	21.2987118	511.1690979	24	18203.84473
	12	464.8376	758.7626343	3.472922	14.77713	3.25520921	3.150239229	0.007667271	5.808698177	139.4088	6.953505993	6.692282677	0.026747409	20.3066006	487.3583984	24	18210.30322
	13	469.8765	766.9869385	3.490537	14.74608	2.67062211	2.573932171	0.006264617	4.808464527	115.4032	7.578793526	7.258799553	0.029011641	22.2508202	534.0197144	24	18407.68652
	14	461.7194	753.6727295	3.42866	14.85518	3.86555052	3.772589922	0.009181991	6.920781136	166.0988	6.352068424	6.199803829	0.024779096	18.6809578	448.3429871	24	18088.14551
	15	463.3904	756.399353	3.433938	14.84587	3.90736294	3.806959629	0.009265645	7.010855198	168.2605	6.285452366	6.125921726	0.0244838	18.519537	444.4689026	24	18153.58447
	16	461.5828	753.4486694	3.436545	14.84126	4.07890654	3.971108437	0.009665165	7.284236908	174.8217	6.206119537	6.043811798	0.02415563	18.1998329	436.79599	24	18082.76807
	17	466.5656	761.583252	3.4665	14.78846	3.13135958	3.036396265	0.007390195	5.606791496	134.563	7.067817211	6.813511848	0.027231934	20.7657375	498.3776855	24	18277.99805
	18	466.2691	761.098877	3.454903	14.80889	2.58035994	2.50758338	0.006103133	4.635213375	106.6099	7.559093475	7.315878868	0.029239774	22.2837353	512.5258789	24	18266.37305
	19	465.8106	760.3500366	3.466564	14.78834	2.87682509	2.791536331	0.006794234	5.157263756	123.7743	7.252873421	6.992056847	0.027945533	21.2597256	510.2333984	24	18248.40088
	20	464.4536	758.1347656	3.459567	14.80068	3.29463625	3.196200371	0.007779134	5.88432312	141.2238	6.823299408	6.593267918	0.026351666	19.9957333	479.897583	24	18195.23438
	21	459.1433	749.4663696	3.43203	14.84923	3.66888595	3.577505827	0.008707182	6.527234554	156.6536	6.314072132	6.157020569	0.024608092	18.4456997	442.6968079	24	17987.19287
	22	464.1262	757.6010742	3.429613	14.85349	3.89305425	3.798544645	0.009245166	7.005482674	168.1316	6.338554382	6.185650349	0.024722513	18.7314911	449.5557861	24	18182.42578
	23	466.4784	761.4396973	3.474384	14.77455	2.914505	2.820410728	0.006864508	5.216945648	125.2067	7.084032536	6.813797474	0.027233072	20.7497787	497.9946899	24	18274.55273
	24	464.9565	758.9553833	3.475975	14.77175	3.26951694	3.159478426	0.007689757	5.824259281	139.7822	6.743487835	6.484961033	0.025918795	19.6857166	472.4571838	24	18214.9292
	25	461.3596	753.0853882	3.424516	14.86248	4.02410078	3.932929516	0.009572238	7.209323406	158.6051	6.206987381	6.066354275	0.024245728	18.258482	401.6865845	24	18074.04932
	26	467.2721	762.7356567	3.460393	14.79921	3.0246799	2.938281536	0.007151396	5.443841934	130.6522	7.059072495	6.818933487	0.0272536	20.7992802	499.1827087	24	18305.65576
	27	467.0356	762.3499756	3.473811	14.77557	2.8850925	2.790112495	0.006790771	5.164321899	123.9437	7.167499065	6.897361755	0.027567072	21.0313759	504.7529907	24	18296.39941
	28	459.2941	749.7131348	3.430124	14.85259	3.93264198	3.83638835	0.009337275	7.002399445	168.0576	6.225199699	6.073421478	0.024273971	18.2003784	436.809082	24	17993.11523
	29	458.6267	748.623291	3.432604	14.84822	3.80656743	3.710609674	0.009031141	6.761842728	162.2842	6.295628548	6.137922287	0.024531763	18.3663292	440.7919006	24	17966.95898
	30	462.5656	755.0540771	3.455434	14.80797	3.45505261	3.353907108	0.008162974	6.154500961	147.708	6.713280678	6.495995998	0.025962897	19.6160336	470.78479	24	18121.29785
	31	459.8789	750.6682739	3.439727	14.83567	4.1425004	4.029811859	0.009808037	7.363860607	176.7327	6.249206066	6.079903126	0.024299888	18.2414913	437.7958069	24	18016.03857
Sep 04	1	458.8713	749.022522	3.412034	14.88447	4.24015856	4.157273293	0.010118265	7.579884529	174.3373	6.172305107	6.054030418	0.024196483	18.1198788	416.7572021	24	17976.54053
	2	460.7751	752.1300659	3.424528	14.86246	3.76109743	3.677602053	0.008950802	6.726802349	161.4433	6.527746201	6.377793789	0.02549047	19.1829205	460.3901062	24	18051.12158
	3	468.4178	764.6057129	3.43203	14.84922	3.6285038	3.537534237	0.008609897	6.58441782	158.026	6.755730629	6.587587833	0.02632897	20.1313591	483.1525879	24	18350.53711
	4	347.7664	681.197998	3.061203	13.67573	6.17864895	11.80219364	0.028724978	9.07459259	181.4919	6.861835957	7.461762905	0.02982283	20.1239319	402.4786377	19.8	13487.71984
	5	471.0195	768.852478	3.436102	14.84206	4.24266195	4.131632328	0.010055856	7.733963966	185.6151	6.869085789	6.689834118	0.026737621	20.5601158	493.4428101	24	18452.45947
	6	469.4807	766.3411865	3.438009	14.83868	4.34663773	4.230714321	0.010297008	7.893945694	189.4547	6.732200146	6.553097248	0.026191112	20.0756874	481.8164978	24	18392.18848
	7	466.371	761.2647705	3.440425	14.83442	4.26968908	4.152666569	0.010107054	7.695689201	184.6965	6.629972458	6.448998928	0.025775058	19.6259289	471.0223083	24	18270.35449
	8	467.2172	762.6460571	3.438898	14.83712	3.59018874	3.503088236	0.008526055	6.48792696	155.7103	7.168771744	6.969184399	0.027854113	21.261837	510.2841187	24	18303.50537
	9	469.036	765.6148071	3.474639	14.7741	3.05918002	2.963865519	0.007213655	5.506539345	132.1569	7.647632122	7.353530407	0.029390259	22.5212669	540.510376	24	18374.75537
	10	465.5437	759.9150391	3.458422	14.8027	3.77604294	3.662441254	0.008913905	6.7614007	162.2736	6.937927246	6.707025528	0.026806325	20.387558	489.3013916	24	18237.96094
	11	464.4893	758.1931152	3.437818	14.83901	4.05903387	3.950509548	0.009615025	7.291153431	174.9877	6.667016029	6.490272045	0.025940012	19.6676712	472.0241089	24	18196.63477
	12	463.6316	756.7938843	3.438391	14.83801	3.98844528	3.881457567	0.009446954	7.151878357	171.6451	6.598017216	6.421822548	0.025666449	19.4275551	466.2612915	24	18163.05322
	13	469.5278	766.4173584	3.444559	14.82713	3.78240085	3.674527168	0.008943318	6.857169628	164.5721	6.869721413	6.674189091	0.026675092	20.4472008	490.7327881	24	18394.0166
	14	467.6207	763.3053589	3.44774	14.82153	4.18081713	4.057506561	0.009875442	7.539699554	180.9528	6.645553589	6.450936317	0.025782812	19.6818619	472.3647156	24	18319.32861
	15	465.8106	760.3499756	3.430505	14.85192	4.02485275	3.926055431	0.009555503	7.267151356	174.4116	6.633629799	6.471195221	0.02586377	19.6658459	471.9802856	24	18248.39941
	16	468.6592	765.0003052	3.463509	14.79374	3.02070665	2.929822922	0.007130804	5.438612938	130.5267	7.449061871	7.188277245	0.028729787	22.0031128	528.074707	24	18360.00732
	17	464.1347	757.614563	3.438644	14.83755	3.6874876	3.588313341	0.008733486	6.618813515	158.8515	6.668924332	6.49044323	0.025940703	19.6567917	471.7630005	24	18182.74951
	18	472.6129	771.4533081	3.427134	14.85786	3.62468886	3.53875494	0.008612867	6.645589828	159.4942	6.931885242	6.76971674	0.027056878	20.8744507	500.9868164	24	18514.87939
	19	478.9287	781.7630005	3.431586	14.85001	3.94901705	3.850103855	0.009370646	7.327827454	175.8679	7.057006359	6.882434368	0.0275074	21.5035667	516.0855713	24	18762.31201
	20	480.5721	784.4445801	3.436992	14.84048	4.44584274	4.328209877	0.010534283	8.265534401	198.3728	6.864316463	6.683629513	0.026712826	20.9549122	502.9179077	24	18826.66992
	21	479.0079	781.8930054	3.421665	14.8675	4.51993036	4.419492722	0.010756467	8.413042068	201.913	6.76240778	6.614121914	0.026435021	20.6693115	496.0635071	24	18765.43213
	22	476.2782	777.4354858	3.358129	14.97952	4.03450155	4.015471935	0.009773136	7.600131989	174.803	6.837884426	6.815238953	0.027238825	21.1632786	486.7554016	24	18658.45166
	23	474.3957	774.3637695	3.406466	14.8943	4.06269073	3.989954948	0.00971103	7.522359848	180.5366	6.802629471	6.685695648	0.026721071	20.6964588	496.7149963	24	18584.73047
	24	472.0579	770.5475464	3.423382	14.86448	4.18669891	4.091899872	0.009959148	7.676131248	184.2271	6.705967903	6.555475235	0.026200633	20.1909294	484.5823059	24	18493.14111
	25	468.9646	765.49823	3.42796	14.85641	4.01277018	3.917221308	0.009534003	7.300289631	175.207	6.659226894	6.501027107	0.025983004	19.8930416	477.4329834	24	18371.95752
	26	467.5331	763.1616821	3.42459	14.86233	3.92882586	3.838782072	0.009343094	7.132663727	171.1839	6.578461647	6.428688049	0.025693888	19.6107178	470.657196	24	18315.88037
	27	470.2419	767.583313	3.435848	14.8425	3.61658001	3.528218031	0.008587222	6.589608192	158.1506	6.946035385	6.761836052	0.027025392	20.7502365	498.0057068	24	18421.99951
	28	472.2777	770.906189	3.435784	14.84262	3.80481744	3.705332518	0.009018299	6.95355463	166.8853	6.730928898	6.556332111	0.026204042	20.2016373	484.8392944	24	18501.74854
	29	471.8275	770.1707764	3.378125	14.94427	3.76254225	3.725411654	0.009067167	6.984272003	160.6382	6.737073898	6.674319267	0.026675621	20.5396614	472.4122009	24	18484.09863
	30	471.6101	769.8166504	3.415434	14.87847	3.55378127	3.48193121	0.008474564	6.524929047	156.5983	6.768289566	6.6336236	0.026512962	20.4111538	489.8677063	24	18475.59961
Oct 04	1	472.9973	772.0811768	3.440234	14.83477	3.86952424	3.763838768	0.009160691	7.075139523	169.8033	6.644441128	6.463462353	0.025832875	19.9485378	478.7648926	24	18529.94824
	2	468.1154	764.1123047	3.4375	14.83959	4.04440832	3.936976671	0.009582089	7.323526859	175.7646	6.424088478	6.254134655	0.024996234	19.1025791	458.4618835	24	18338.69531
	3	464.9698	758.9779053	3.431522	14.85012	3.99321413	3.893972158	0.009477419	7.194576263	172.6698	6.351432323	6.19415617	0.024756517	18.7906628	450.9758911	24	18215.46973
	4	465.9786	760.6234741	3.423763	14.8638	3.89066958	3.803013802	0.00925604	7.04099226	168.9838	6.414072037	6.2693367	0.025056995	19.0611839	457.4683838	24	18254.96338
	5	463.7612	757.0046387	3.432985	14.84754	3.73041296	3.636289597	0.008850256	6.700082779	160.802	6.427268505	6.265430927	0.025041388	18.9573002	454.9751892	24	18168.11133

Unit 4 - CEMS Data

	6	464.4781	758.1751709	3.420986	14.8687	3.8503933	3.766187429	0.009166412	6.951488018	166.8357	6.403579712	6.264023304	0.025035758	18.9829712	455.5913086	24	18196.2041
	7	465.2249	759.3947754	3.435784	14.84261	3.67747116	3.581979513	0.008718071	6.621144772	158.9075	6.450797081	6.283511639	0.02511365	19.0717335	457.7215881	24	18225.47461
	8	441.9344	721.3762207	3.264016	14.27461	4.82009411	6.431069851	0.015652373	8.134620667	195.2309	6.315820217	6.413417816	0.025632851	18.5597534	445.4341125	24	17313.0293
	9	64.93781	508.7947998	2.346054	11.19696	14.748929	39.1498642	0.095285662	15.68074036	78.4037	6.947502136	7.764810085	0.031034039	19.5228195	97.61410522	4.047222	2059.205577
	10	474.4861	774.5117188	3.4361	14.84205	3.35346031	3.265933752	0.007948858	6.157693386	147.7846	6.857481003	6.678860664	0.026693774	20.6758118	496.2194824	24	18588.28125
	11	471.978	770.4174805	3.439662	14.83577	3.4259572	3.332978725	0.008112035	6.251116753	150.0268	6.877353668	6.691303253	0.026743492	20.6056328	494.5351868	24	18490.01953
	12	472.5111	771.2874756	3.442332	14.83107	3.73963547	3.635215044	0.008847637	6.825772285	163.8185	6.765904903	6.577610493	0.026289096	20.2776871	486.6644897	24	18510.89941
	13	470.2005	767.5159912	3.370408	14.95788	3.7332747	3.706480503	0.009021093	6.925056934	166.2014	6.796270847	6.748429298	0.026971817	20.7005329	496.8128052	24	18420.38379
	14	470.6379	768.229187	3.40125	14.9035	3.63915539	3.581572533	0.008717081	6.698467731	160.7632	6.929182053	6.818474293	0.027251771	20.9367752	502.482605	24	18437.50049
	15	470.1652	767.4576416	3.421793	14.86728	3.501158	3.424073696	0.008333748	6.398198128	153.5568	6.981169701	6.827754498	0.02728885	20.9477787	502.7467041	24	18418.9834
	16	471.2395	769.2112427	3.427453	14.8573	3.24280739	3.166162491	0.00770603	5.930570602	142.3337	7.039675713	6.873758316	0.027472712	21.136158	507.2677917	24	18461.06982
	17	468.1539	764.175354	3.443541	14.82894	3.36776948	3.272624254	0.007965139	6.087326527	146.0958	6.776875496	6.586180687	0.02632335	20.1154423	482.7705994	24	18340.2085
	18	469.7476	766.776062	3.443096	14.82972	3.41149116	3.31543541	0.00806934	6.188337326	148.5201	6.765428543	6.575755119	0.026281679	20.1523495	483.6564026	24	18402.62549
	19	469.3046	766.0540771	3.433367	14.84688	3.00289917	2.92640543	0.007122489	5.458953381	131.0149	6.960819244	6.784703255	0.027116796	20.7741337	498.5791931	24	18385.29785
	20	470.1949	767.5070801	3.416895	14.87592	3.02987409	2.967632532	0.007222831	5.546268463	133.1104	6.994101048	6.850260735	0.027378812	21.0141411	504.3394165	24	18420.16992
	21	477.8102	779.9378662	3.43006	14.8527	3.563797	3.476541996	0.00846145	6.60051012	158.4122	7.050805569	6.87925148	0.027494671	21.4441032	514.6585083	24	18718.50879
	22	443.055	723.2058716	3.171042	13.7854	3.65235162	3.590591669	0.008739032	6.738275528	161.7186	6.457315922	6.317193508	0.025248278	19.7001629	472.803894	23.75	17176.13945
																0	0
	23																
	24	414.5416	738.177124	3.264652	15.14432	6.1110754	23.99431038	0.058399085	9.830494881	216.2709	7.177024364	8.157672882	0.032604218	21.6036415	475.2801208	21.14167	15606.29451
	25	475.6786	776.4579468	3.4382	14.83835	3.06601667	2.984717846	0.007264417	5.64310503	135.4345	7.353353024	7.157420635	0.028606454	22.2117004	533.0808105	24	18634.99072
	26	478.4643	781.0050659	3.428533	14.85538	3.03072286	2.958305359	0.007200129	5.623915672	134.974	7.567028522	7.386129379	0.029520528	23.0561962	553.3486938	24	18744.12158
	27	481.3572	785.7272949	3.431713	14.84979	2.914505	2.841999531	0.006917055	5.436114311	130.4667	7.720607281	7.529066086	0.030091833	23.6442719	567.4625244	24	18857.45508
	28	484.0056	790.0502319	3.445194	14.82603	3.43899584	3.340415001	0.008130136	6.42502594	154.2006	7.508203983	7.293251038	0.029149329	23.0290165	552.6964111	24	18961.20557
	29	485.3214	792.1981201	3.42459	14.86234	3.47381163	3.39440918	0.00826155	6.546125412	157.107	7.509157181	7.337944508	0.029327966	23.2338867	557.6132813	24	19012.75488
	30	482.7693	788.0321655	3.418231	14.87356	3.40210915	3.329835415	0.008104385	6.388751507	153.33	7.443338394	7.287547588	0.029126545	22.9531212	550.8748779	24	18912.77197
	31	479.6921	783.0096436	3.431651	14.84989	3.15107369	3.071916342	0.007476643	5.856501579	140.556	7.396596909	7.213890076	0.028832141	22.5749035	541.7977295	24	18792.23145
Nov 04	1	482.9203	788.2788086	3.431459	14.85024	3.34010673	3.25720048	0.007927604	6.250934601	150.0224	7.413608074	7.230110645	0.02889698	22.7794628	546.7070923	24	18918.69141
	2	485.2557	792.0906372	3.410473	14.88725	3.6103797	3.542730093	0.00862254	6.830273151	163.9266	7.43348074	7.294044018	0.0291525	23.0938702	554.2529297	24	19010.17529
	3	485.0305	791.7226563	3.389828	14.92364	3.34636307	3.302465916	0.00803777	6.365662098	140.0446	7.565928936	7.469659805	0.029854387	23.6249371	519.7485962	24	19001.34375
	4	485.4947	792.4807129	3.431013	14.85101	3.3032217	3.219997168	0.007837053	6.211083412	149.066	7.638730049	7.452803612	0.029787034	23.6074009	566.5775757	24	19019.53711
	5	430.8103	733.7235107	3.187542	13.69169	3.79738045	3.428023577	0.008343363	6.564567089	150.985	7.009477139	6.784391403	0.027115535	21.5249729	495.0744019	23	16875.64075
	6															0	0
	7															0	0
	8	212.8157	757.9263916	3.34693	14.99925	4.37166929	7.137125492	0.017370827	8.022115707	88.24327	9.523463249	10.32706738	0.041274756	28.7929459	316.7224121	10.99167	8330.874351
	9	482.1012	786.9425049	3.442523	14.83072	4.02882767	3.915991783	0.00953101	7.501451492	180.0348	9.359419823	9.098493576	0.036364432	28.6166534	686.7996826	24	18886.62012
	10	479.0387	781.9422607	3.415879	14.8777	3.51642036	3.444105864	0.008382503	6.560869217	157.4609	9.624288559	9.42930603	0.037686612	29.4635162	707.1243896	24	18766.61426
	11	486.1429	793.5390625	3.429869	14.85303	3.79035044	3.697846174	0.009000076	7.142755508	171.4261	9.606322289	9.373530388	0.037463695	29.7289543	713.494873	24	19044.9375
	12	483.8272	789.758728	3.445513	14.82545	3.78192377	3.673122883	0.008939901	7.060804844	169.4593	9.581681252	9.306638718	0.037196357	29.3768616	705.0446777	24	18954.20947
	13	338.4524	697.8459473	3.061392	13.85267	4.20348358	6.875337601	0.016733686	7.66009903	145.5419	8.73658371	9.93646431	0.039713614	26.5451202	504.3572998	18.73611	13074.91891
	14	483.7282	789.597168	3.446911	14.82299	4.34266186	4.216030121	0.010261268	8.104309082	194.5034	9.185014725	8.917596817	0.035641443	28.1423874	675.4172974	24	18950.33203
	15	484.4124	790.7138062	3.430633	14.85169	4.76174545	4.644386292	0.011303825	8.94140625	214.5938	9.133663177	8.910113335	0.035611525	28.1586494	675.8076172	24	18977.13135
	16	482.827	788.1264038	3.449265	14.81884	5.25221443	5.094713211	0.012399875	9.773266792	234.5584	8.984375	8.717128754	0.034840226	27.4586658	659.0079956	24	18915.03369
	17	482.0468	786.8527222	3.380716	14.9397	5.84803247	5.782838345	0.014074674	11.07679367	254.7663	8.929234505	8.842792511	0.035342477	27.8198872	639.8574219	24	18884.46533
	18	487.5302	795.8035278	3.391205	14.9212	4.43534946	4.377374649	0.010653959	8.478819847	203.4917	9.39264679	9.270319939	0.037051186	29.4858875	707.6613159	24	19099.28467
	19	487.7805	796.2116089	3.408247	14.89116	4.2898798	4.212320805	0.010252238	8.161915779	195.886	9.544319153	9.371600151	0.03745598	29.8242035	715.7808838	24	19109.07861
	20	486.4316	794.0098877	3.410154	14.8878	3.81705928	3.746202469	0.009117767	7.239709854	173.753	9.75942421	9.577296257	0.038278099	30.3936424	729.4473877	24	19056.2373
	21	488.1866	796.8753662	3.425291	14.86111	3.58192205	3.499092102	0.008516334	6.786975861	162.8874	10.03287697	9.80257225	0.039178476	31.2224503	749.3388062	24	19125.00879
	22	489.4978	799.0144043	3.423953	14.86347	3.7370913	3.651974678	0.008888429	7.10423851	170.5017	9.98900032	9.763313293	0.039021567	31.1784	748.2816162	24	19176.3457
	23	490.6431	800.8843384	3.382373	14.93677	3.77962875	3.741090775	0.009105327	7.29238224	167.7248	9.997443199	9.891985893	0.039535861	31.6581135	728.1365967	24	19221.22412
	24	490.5492	800.7318726	3.39292	14.91818	4.23582506	4.176417828	0.010164853	8.138786316	195.3309	9.830801964	9.699069023	0.038764782	31.0467796	745.1226807	24	19217.56494
	25	487.8135	796.265564	3.402969	14.90047	4.12453508	4.055768967	0.009871211	7.86023283	188.6456	9.818408966	9.65574646	0.038591642	30.7308044	737.5393066	24	19110.37354
	26	488.2943	797.0502319	3.414798	14.87962	4.31150055	4.224972248	0.010283033	8.196178436	196.7083	9.671030045	9.47792244	0.037880916	30.1980495	724.7531738	24	19129.20557
	27	485.1072	791.8483276	3.411299	14.88578	3.97699881	3.901616335	0.009496022	7.519777298	180.4747	9.697735786	9.51331234	0.038022362	30.11343	722.72229	24	19004.35986
	28	478.5469	781.1395874	3.443604	14.82882	4.99688482	4.851294041	0.011807419	9.196231842	220.7096	9.905367851	9.627301216	0.038477954	30.0687618	721.6503296	24	18747.3501
	29	481.1729	785.4268188	3.435274	14.84352	5.00594664	4.866360664	0.011844078	9.249889374	221.9973	10.04019356	9.783542633	0.039102402	30.7381706	737.7161255	24	18850.24365
	30	501.6647	818.8757324	3.397564	14.91	4.20084858	4.137723923	0.010070679	8.246807098	197.9234	10.34656334	10.19063663	0.040729478	33.3579979	800.59198	24	19653.01758
Dec 04	1	495.9398	809.5302124	3.408057	14.89149	4.53630543	4.449074268	0.010828465	8.736897469	209.6855	10.28201294	10.09794521	0.04035902	32.6891861	784.5404663	24	19428.7251
	2	497.4121	811.9338989	3.417532	14.87479	4.02898645	3.944296598	0.0095999	7.796160698	187.1079	10.32333946	10.10882187	0.040402502	32.8115654	787.4776001	24	19486.41357
	3	495.4449	808.7231445	3.416068	14.87737	3.95601177	3.875124216	0.009431546	7.629264355	183.1024	10.30712318	10.09638977	0.040352769	32.6442032	783.4608765	24	19409.35547
	4	490.2888	800.3057861	3.407738	14.89206	3.55839133	3.493989944	0.008503917	6.812861443	163.5087	10.50395393	10.31526756	0.041227557	33.0022774	792.0546875	24	19207.33887
	5	482.3159	787.2922363	3.434512	14.84486	3.45600677	3.366508245	0.00819364	6.451878548	154.8451	10.20442486	9.945151329	0.039748337	31.2939625	751.0551147	24	18895.01367
	6	486.0745	793.4267578	3.442906	14.83005	3.68160629	3.578414202	0.008709391	6.912140846	165.8914	10.07295132	9.791008949	0.039132267	31.0488033	745.1713257	24	19042.24219
	7	483.5248	789.2652588	3.426943	14.8582	4.0797019	3.983289957	0.009694812	7.65193224	183.6464	9.652428627	9.426325798	0.037674714	29.736475	713.675415	24	18942.36621

Unit 4 - CEMS Data

	8	483.7665	789.6600342	3.42705	14.85801	4.70000648	4.590197086	0.011171938	8.821709633	211.721	9.217340469	9.000405312	0.035972416	28.4055786	681.7338867	24	18951.84082
	9	482.6677	787.866272	3.428851	14.85483	5.06842661	4.945642948	0.012037046	9.483976364	227.6154	8.950670242	8.736351967	0.034917049	27.5113125	660.2714844	24	18908.79053
	10	481.3706	785.7496338	3.430503	14.8519	4.90276575	4.782572746	0.011640167	9.14682579	219.5238	9.066569328	8.844765663	0.03535036	27.7774715	666.6593018	24	18857.99121
	11	483.7858	789.6914063	3.431458	14.85023	4.70483017	4.588422775	0.011167621	8.81863308	211.6472	9.376272202	9.144174576	0.03654702	28.8634872	692.7236938	24	18952.59375
	12	482.0027	786.7808838	3.449646	14.81817	4.74234915	4.600531578	0.011197096	8.811356544	211.4726	9.329053879	9.050871849	0.036174119	28.4662628	683.1903076	24	18882.74121
	13	487.8904	796.3909912	3.455053	14.80864	4.99354553	4.836722851	0.011771946	9.374639511	224.9913	9.276111603	8.984571457	0.035909116	28.5995579	686.3894043	24	19113.38379
	14	488.8983	798.0368042	3.428089	14.85618	5.04998446	4.929436684	0.011997612	9.573133469	229.7552	9.281198502	9.061017036	0.036214657	28.9025707	693.6616821	24	19152.8833
	15	489.5412	799.0862427	3.403265	14.89994	4.89110565	4.809468746	0.011705613	9.354182243	224.5004	9.523916245	9.365467072	0.037431467	29.9139118	717.9338989	24	19178.06982
	16	485.4836	792.4627075	3.439662	14.83578	5.15284824	5.011240959	0.0121967	9.643576622	231.4458	9.54177475	9.286006927	0.03711389	29.4426498	706.6235962	24	19019.10498
	17	495.0828	808.1311035	3.438836	14.83723	5.21771288	5.076944828	0.012356613	9.989265442	239.7424	9.73462677	9.473171234	0.037861936	30.6040382	734.4968872	24	19395.14648
	18	498.283	813.3555298	3.437563	14.83946	5.12963486	4.993442059	0.012153383	9.888872147	237.3329	9.897591591	9.634778023	0.038507834	31.3297844	751.9147949	24	19520.53271
	19	500.8649	817.5708618	3.442142	14.83138	5.01071596	4.870294094	0.011853675	9.699209213	232.781	10.12763596	9.84576416	0.039351087	32.1788139	772.2915039	24	19621.70068
	20	494.9998	807.996521	3.430759	14.85146	4.56476402	4.452396393	0.010836546	8.758947372	210.2147	10.15147686	9.90164566	0.039574441	31.9869175	767.6859741	24	19391.9165
	21	491.7036	802.6153564	3.455498	14.80786	5.30531454	5.136778831	0.012502259	9.998466492	239.9632	9.948466301	9.635313988	0.038509972	30.9317455	742.3618774	24	19262.76855
	22	488.6069	797.5614624	3.419636	14.87108	4.81306887	4.708146095	0.011459013	9.086835861	199.9104	10.03891754	9.823155403	0.039260726	31.2580357	687.6768188	24	19141.4751
	23	479.1512	782.1261597	3.453526	14.81133	5.88656139	5.703052998	0.013880496	10.81618118	259.5883	9.712046623	9.411554337	0.037615679	29.431284	706.3508301	24	18771.02783
	24	494.3191	806.8844604	3.444368	14.82747	5.05252743	4.908627033	0.011946958	9.641736984	231.4017	9.973418236	9.688593864	0.038722921	31.2585125	750.2042847	24	19365.22705
	25	486.9862	794.9156494	3.427325	14.85752	5.73616266	5.590936184	0.013607603	10.8039875	259.2957	9.798057556	9.568181038	0.03824167	30.4068508	729.7644043	24	19077.97559
	26	480.4754	784.2875977	3.407866	14.89184	4.14901924	4.074044704	0.009915692	7.781663418	186.7599	9.992014885	9.812781334	0.039219286	30.7620754	738.2897949	24	18822.90234
	27	476.7361	778.1844482	3.446721	14.82333	4.18828917	4.066343307	0.009896951	7.702211857	184.8531	9.575161934	9.297245026	0.037158802	28.9161339	693.9871826	24	18676.42676
	28	477.1866	778.9198608	3.452445	14.81323	4.15935326	4.031365395	0.009811824	7.644380093	183.4651	9.609343529	9.31486702	0.037229229	29.0002995	696.0072021	24	18694.07666
	29	480.1813	783.8078613	3.422387	14.86623	4.24504566	4.15137291	0.0101039	7.920231342	190.0856	9.696466446	9.481291771	0.037894394	29.7013035	712.8312988	24	18811.38867
	30	481.1182	785.3369141	3.406975	14.8934	4.64028215	4.557919025	0.011093377	8.710318565	209.0476	9.578979492	9.408955574	0.037605282	29.5370922	708.8901978	24	18848.08594
	31	480.1347	783.7315063	3.411172	14.886	4.43598652	4.351491451	0.010590966	8.301719666	199.2413	9.599327087	9.417533875	0.037639573	29.4998455	707.9962769	24	18809.55615
Jan 05	1	484.8545	791.4358521	3.410535	14.88712	4.6008544	4.513979912	0.010986437	8.696577072	208.7179	9.752592087	9.569180489	0.038245667	30.2724075	726.5377808	24	18994.46045
	2	482.3136	787.2877808	3.395655	14.91337	4.78893185	4.719167709	0.011485829	9.04473114	217.0735	9.62508297	9.485804558	0.037912436	29.8482628	716.3582764	24	18894.90674
	3	484.0137	790.0635376	3.403159	14.90013	4.55220413	4.47662878	0.01089553	8.608654022	206.6077	9.781841278	9.619013786	0.038444828	30.3747253	728.9934082	24	18961.5249
	4	487.948	796.4851074	3.42847	14.85551	4.53264809	4.424165249	0.010767837	8.576926231	205.8462	9.942890167	9.705810547	0.038791735	30.8973827	741.5371704	24	19115.64258
	5	487.8763	796.3685913	3.41607	14.87736	4.89529371	4.795580387	0.011671821	9.296392441	223.1134	9.68470192	9.487416267	0.037918884	30.1994667	724.7871704	24	19112.84619
	6	488.1949	796.888855	3.407993	14.8916	4.91007805	4.820652485	0.011732825	9.350824356	224.4198	9.792970657	9.616635323	0.038435325	30.6297379	735.1137085	24	19125.33252
	7	477.7645	779.8616333	3.435338	14.84338	4.30402899	4.19187355	0.010202474	7.95755434	190.9813	9.720154762	9.473207474	0.037862077	29.5317783	708.7626953	24	18716.6792
	8	477.3213	779.1396484	3.446848	14.8231	4.60991478	4.474994183	0.010891542	8.487216949	203.6932	9.374204636	9.101880074	0.036377966	28.3432198	680.2373047	24	18699.35156
	9	474.0932	773.8704834	3.445514	14.82546	4.99259186	4.848742008	0.011801196	9.134097099	219.2183	8.956710815	8.699384689	0.0347693	26.9084091	645.8018188	24	18572.8916
	10	472.3904	771.0901489	3.4375	14.83958	4.92200184	4.790562153	0.011659604	8.992336273	215.8161	8.984694481	8.747130394	0.034960125	26.9583378	647.0001221	24	18506.16357
	11	482.915	788.2697754	3.427897	14.8565	4.58940601	4.479448318	0.010902395	8.59630394	206.3113	9.736690521	9.505523682	0.037991256	29.9471035	718.7305298	24	18918.47461
	12	491.8734	802.8934326	3.42139	14.86798	5.01050282	4.901216984	0.011928921	9.577183723	229.8524	9.712578773	9.500832558	0.037972491	30.4888172	731.7316284	24	19269.44238
	13	493.4047	805.3912354	3.4237	14.86392	5.35475826	5.233674049	0.012738079	10.25829411	246.1991	9.758311272	9.53866291	0.038123693	30.7053165	736.9276123	24	19329.38965
	14	489.4812	798.9876099	3.432222	14.8489	5.56461763	5.425201893	0.013204229	10.54570007	253.0968	9.663874626	9.422701836	0.037660215	30.0916004	722.1984253	24	19175.70264
	15	379.9449	708.7789917	3.080315	13.7297	8.30426121	16.18441391	0.039390739	11.29900646	237.2791	9.48674202	9.599405289	0.038366448	28.823698	605.2976685	20.33333	14411.8386
	16	495.6375	809.0369873	3.452636	14.81289	5.38750935	5.222559452	0.012711029	10.28299904	246.792	9.796151161	9.494851112	0.037948597	30.7033501	736.8803711	24	19416.8877
	17	494.401	807.0189209	3.436164	14.84194	5.47383738	5.331326485	0.012975758	10.47057438	251.2938	9.77182579	9.516770363	0.038036186	30.6982384	736.7576904	24	19368.4541
	18	491.1208	801.6647339	3.437628	14.83935	5.33234119	5.191006184	0.012634234	10.12913036	243.0991	9.646704674	9.390987396	0.037533462	30.0914421	722.1945801	24	19239.95361
	19	490.725	831.9124146	3.40742	14.83878	5.44712925	5.303028107	0.013039592	10.85342503	260.4822	9.570391655	9.315585136	0.0376078	31.2861996	750.8687744	24	19965.89795
	20	490.7336	847.4706421	3.432031	14.76743	5.21135378	5.014962673	0.012391771	10.50276566	252.0664	9.659741402	9.294044495	0.037712082	31.9620075	767.0881958	24	20339.29541
	21	489.269	844.9419556	3.451808	14.73209	5.21023989	4.98368454	0.012314484	10.40503597	249.7209	9.627943993	9.20972538	0.037369937	31.5770168	757.8483887	24	20278.60693
	22	489.6842	845.6582031	3.448819	14.73742	5.34442329	5.116322517	0.012642225	10.69163418	256.5992	9.548293114	9.141469002	0.037092965	31.3685589	752.8453979	24	20295.79688
	23	488.6953	843.9503174	3.447993	14.7389	5.39577532	5.166941166	0.012767292	10.7758503	258.6204	9.516179085	9.112689972	0.036976192	31.2099037	749.0377197	24	20254.80762
	24	484.1593	836.1173096	3.444559	14.74503	5.40483809	5.181005478	0.012802046	10.70447922	256.9075	9.411088943	9.021103859	0.036604568	30.6092491	734.6220093	24	20066.81543
	25	476.1099	822.2163086	3.434957	14.7622	5.46843147	5.255248547	0.0129855	10.68168354	256.3604	9.114901543	8.761556625	0.035551418	29.2342491	701.6220093	24	19733.19141
	26	477.5414	824.6882324	3.420393	14.78821	5.01055622	4.836549759	0.011950925	9.856898308	236.5656	9.194870949	8.87637043	0.036017299	29.7041912	712.9005737	24	19792.51758
	27	482.5744	833.3798828	3.420458	14.78811	5.27590132	5.092580318	0.012583562	10.48824978	251.718	9.300754547	8.978406906	0.036431324	30.3618202	728.6837158	24	20001.11719
	28	484.6147	836.9050293	3.428025	14.77459	5.07462692	4.886861324	0.012075233	10.10777569	242.5866	9.435732841	9.088873863	0.036879566	30.866354	740.7924805	24	20085.7207
	29	492.5086	850.5355225	3.423891	14.78197	5.12438917	4.941655159	0.012210629	10.3861599	249.2678	9.60441494	9.262356758	0.037583489	31.9658794	767.1810913	24	20412.85254
	30	487.9616	842.6835938	3.407675	14.81095	5.05618525	4.899570465	0.012106637	10.20246601	244.8592	9.545431137	9.248728752	0.037528202	31.6271839	759.0524292	24	20224.40625
	31	485.5548	838.5275879	3.421474	14.7863	4.59624147	4.43543148	0.010959758	9.190193176	220.5646	9.639868736	9.302700996	0.037747197	31.6567326	759.7615967	24	20124.66211
Feb 05	01	487.7471	842.3135986	3.418929	14.79084	5.360641	5.176659107	0.012791317	10.77295017	258.5508	9.512998581	9.187362671	0.037279189	31.4064255	753.7542114	24	20215.52637
	02	486.9808	840.9898682	3.413143	14.80116	5.41151524	5.234964848	0.01293538	10.87384319	260.9722	9.493442535	9.183847427	0.037264936	31.34795	752.3508301	24	20183.75684
	03	484.5661	836.8196411	3.420838	14.78743	5.37113237	5.182890415	0.012806708	10.71452045	257.1485	9.488037109	9.158871651	0.037163582	31.1046753	746.512207	24	20083.67139
	04	483.8324	835.5529175	3.428151	14.77435	5.41914654	5.218592167	0.012894916	10.77365494	258.5677	9.522220612	9.171579361	0.037215151	31.100584	746.4140015	24	20053.27002
	05	481.7255	831.9140015	3.413969	14.7997	5.30038452	5.12601614	0.012666187	10.53922939	252.9415	9.582474709	9.268055916	0.03760663	31.2868042	750.8833008	24	19965.93604
	06	480.7667	830.2581787	3.433176	14.76538	5.14760065	4.949943542	0.012231109	10.15708637	243.7701	9.636053085	9.268185616	0.037607137	31.2232208	749.3572998	24	19926.19629
	07	483.6483	835.2349854	3.440616	14.75208	5.35380411	5.137461185	0.01269445	10.60377693	254.4906	9.591854095	9.205143929	0.03735134	31.198288	748.7589111	24	20045.63965
	08	485.7251	838.8218384	3.438326	14.75618	5.35141945	5.139057636	0.0126984	10.64827824	255.5587	9.640820503	9.258197784	0.037566621	31.518734	756.449585	24	20131.72412

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	09	482.868	833.8875732	3.285049	15.03006	5.38558722	5.419442654	0.013391223	11.16331387	245.5929	9.405698776	9.460494041	0.038387459	32.0050049	704.1101074	24	20013.30176
	10	479.8708	828.7114258	3.33308	14.94424	5.41501379	5.362870216	0.013251425	10.9831686	263.596	9.441137314	9.365646362	0.038002636	31.4996662	755.9920044	24	19889.07422
	11	474.5689	819.5549927	3.390758	14.84117	4.77987051	4.653771877	0.011499275	9.425487518	226.2117	9.44336319	9.196360588	0.037315715	30.5821667	733.9719849	24	19669.31982
	12	476.0721	822.1500244	3.424272	14.78129	5.65778255	5.454349041	0.013477479	11.08176708	265.9624	9.10663414	8.781794548	0.035633534	29.2965508	703.1171875	24	19731.60059
	13	476.8796	823.5447388	3.40901	14.80857	5.69816446	5.518545151	0.013636075	11.23194981	269.5668	9.07626915	8.79121685	0.035671774	29.3770466	705.0490723	24	19765.07373
	14	477.4147	824.4701538	3.396292	14.83128	5.67511177	5.517139435	0.013632629	11.23923779	269.7417	9.111721039	8.858573914	0.035945088	29.6363907	711.2733765	24	19787.28369
	15	477.495	824.607605	3.400552	14.82367	5.59593773	5.432081699	0.013422442	11.070117	265.6828	9.238113403	8.970646858	0.036399834	30.0165367	720.3969116	24	19790.58252
	16	475.4534	821.0825195	3.379905	14.86056	5.67558813	5.544898987	0.013701216	11.24986649	269.9968	9.122426987	8.911364555	0.036159296	29.6905632	712.5734863	24	19705.98047
	17	473.7006	818.0557251	3.405321	14.81516	5.3396554	5.17873764	0.012796454	10.47118568	251.3085	9.172772408	8.895134926	0.036093436	29.5275745	708.6618042	24	19633.3374
	18	473.5305	817.7614136	3.425735	14.77868	5.07192421	4.887784958	0.012077512	9.877506256	237.0602	9.28310585	8.947809219	0.03630716	29.6914291	712.5942993	24	19626.27393
	19	474.5691	819.5548096	3.432985	14.76572	5.05936527	4.864954472	0.012021112	9.853531837	236.4848	9.357670784	9.001191139	0.036523771	29.9339714	718.4152832	24	19669.31543
	20	475.4667	821.1062622	3.420139	14.78868	5.35809708	5.172665596	0.012781434	10.49567032	251.8961	9.277066231	8.956341743	0.036341794	29.8411541	716.1876831	24	19706.55029
	21	473.4531	817.6286011	3.427897	14.77481	5.20674372	5.015053749	0.012391996	10.13333321	243.2	9.294395447	8.953072548	0.036328524	29.7046413	712.911377	24	19623.08643
	22	477.6566	824.8875732	3.432985	14.76572	5.27097368	5.069021702	0.012525341	10.33287716	247.9891	9.36943531	9.011797905	0.036566816	30.1647415	723.9537964	24	19797.30176
	23	477.3459	824.3515015	3.390059	14.84242	5.53822613	5.397983551	0.013338191	10.9958601	263.9007	9.189623833	8.950145721	0.036316659	29.9384117	718.5219116	24	19784.43604
	24	477.1044	823.93396	3.402078	14.82096	5.91215801	5.73534441	0.014171796	11.67718315	280.2524	9.049399376	8.784742355	0.035645496	29.3718166	704.923584	24	19774.41504
	25	474.4562	819.3603516	3.419695	14.78948	5.7611227	5.56213522	0.013743808	11.26315403	270.3157	9.115219116	8.80128479	0.035712618	29.2613373	702.2720947	24	19664.64844
	26	475.1899	820.6270142	3.424654	14.78061	5.53377438	5.334837437	0.013182154	10.81970787	259.673	9.154010773	8.825955391	0.035812724	29.3887043	705.3289185	24	19695.04834
	27	477.6179	824.8209839	3.414988	14.79789	5.76255274	5.571132183	0.013766034	11.35730076	272.5752	9.119830132	8.817696571	0.035779219	29.511795	708.2830811	24	19795.70361
	28	477.3494	824.3560791	3.3968	14.83037	6.18958759	6.016663074	0.014866933	12.257267	294.1744	8.89152813	8.642981529	0.035070274	28.9113579	693.8726196	24	19784.5459
Mar 05	1	474.7415	819.8537598	3.403604	14.81821	5.77988338	5.607040882	0.013854758	11.36390877	272.7338	8.972928047	8.705255508	0.035322979	28.9609909	695.0637817	24	19676.49023
	2	476.6866	823.2127075	3.421983	14.78537	5.90627527	5.698594093	0.014080992	11.59277534	278.2266	8.968159676	8.653569221	0.035113242	28.9065742	693.7578125	24	19757.10498
	3	476.0604	822.1311035	3.420712	14.78765	6.06653118	5.855386734	0.014468408	11.89586639	285.5008	8.912989616	8.603443146	0.034909856	28.7008915	688.8214111	24	19731.14648
	4	476.5331	822.9470825	3.423891	14.78198	5.94395542	5.731711388	0.014162821	11.65630436	279.7513	8.926187515	8.608226776	0.034929257	28.7455158	689.892395	24	19750.72998
	5	477.077	823.8864746	3.430313	14.7705	6.35079527	6.112753868	0.015104375	12.44473362	298.6736	8.814579964	8.484506607	0.034427259	28.3650665	680.7615967	24	19773.27539
	6	475.4727	821.1157227	3.423446	14.78277	6.16303539	5.943086147	0.01468512	12.05843353	289.4024	8.803769112	8.491555214	0.034455851	28.2946701	679.0720825	24	19706.77734
	7	473.0109	816.8647461	3.422112	14.78515	6.35222721	6.127732277	0.015141379	12.37257481	296.9418	8.612668991	8.310200691	0.033719976	27.5477829	661.1467896	24	19604.75391
	8	471.7008	814.6018066	3.425672	14.7788	6.52393103	6.287020683	0.015534971	12.65901661	303.8164	8.50726223	8.200104713	0.033273242	27.1098957	650.6375122	24	19550.44336
	9	466.8928	806.2991333	3.361933	14.89268	6.4027915	6.289371014	0.015540774	12.52482128	288.0709	8.314918518	8.166057587	0.033135086	26.7073479	614.2689819	24	19351.1792
	10	464.0085	801.3174438	3.389676	14.84311	5.86652946	5.716880322	0.01412617	11.32423306	271.7816	8.48977375	8.272204399	0.033565812	26.8998909	645.5974121	24	19231.61865
	11	462.5435	798.7887573	3.42669	14.77696	5.80579758	5.59332037	0.013820871	11.04138374	264.9932	8.39358902	8.088348389	0.032819763	26.2203007	629.2871704	24	19170.93018
	12	348.5772	722.3115234	3.076924	13.5743	7.540061	10.2690649	0.025374446	12.63341999	252.6684	7.95100832	8.006984711	0.032489635	24.8198223	496.3964233	19.89167	14367.97987
	13	476.4423	822.7905273	3.433367	14.76503	5.9466567	5.718286037	0.01412965	11.6276083	279.0626	8.822051048	8.484270096	0.034426279	28.3255539	679.8132935	24	19746.97266
	14	475.9645	821.9649048	3.436293	14.75981	5.69259977	5.469919682	0.01351595	11.10968781	266.6325	8.885964394	8.538408279	0.034645963	28.478054	683.4732666	24	19727.15771
	15	482.86	833.8733521	3.427707	14.77515	5.61533403	5.408711433	0.013364691	11.14857101	267.5657	9.301388741	8.960231781	0.036357578	30.3184204	727.6420898	24	20012.96045
	16	483.8074	835.5100708	3.387217	14.84751	5.70220852	5.559643269	0.013737643	11.47661591	263.9622	9.248918533	9.015658379	0.036582477	30.5576382	702.8256836	24	20052.2417
	17	481.412	831.3731079	3.401379	14.8222	5.7420435	5.569418907	0.013761804	11.44284344	274.6282	9.191849709	8.926451683	0.036220513	30.1137753	722.7305908	24	19952.95459
	18	479.5302	828.1231689	3.427134	14.77617	5.58226395	5.378152847	0.013289192	11.00580025	264.1392	9.215698242	8.879165649	0.036028624	29.8371334	716.0911865	24	19874.95605
	19	477.7555	825.0583496	3.442271	14.74913	5.55301142	5.325527668	0.013159167	10.85861206	260.6067	9.036998749	8.669388771	0.035177443	29.0243702	696.5848999	24	19801.40039
	20	483.6978	835.3204346	3.438135	14.75652	6.1517477	5.908102512	0.014598675	12.19796276	292.7511	9.035568237	8.677495003	0.035210334	29.4114838	705.8756104	24	20047.69043
	21	483.8898	835.6524048	3.413843	14.79994	6.16160536	5.959922314	0.014726717	12.30519581	295.3247	9.020941734	8.724880219	0.035402589	29.5859375	710.0625	24	20055.65771
	22	478.7586	826.7901001	3.411935	14.80335	5.56080151	5.382483959	0.013299895	10.99994087	263.9986	9.12428093	8.830191612	0.035829924	29.6270542	711.0493164	24	19842.9624
	23	483.9944	835.8328247	3.432668	14.76628	5.49641323	5.285372734	0.013059942	10.91966248	262.0719	9.346065521	8.990534782	0.036480531	30.4913998	731.7935791	24	20059.98779
	24	485.4749	838.3899536	3.432413	14.76674	5.64331436	5.428451061	0.013413483	11.2463789	269.9131	9.27038765	8.917881966	0.036185727	30.3382339	728.1176147	24	20121.35889
	25	488.4121	843.4616089	3.43394	14.76402	6.00118876	5.771400452	0.014260892	12.02759171	288.6622	9.269433022	8.912680626	0.036164638	30.5063496	732.1524048	24	20243.07861
	26	485.4834	838.4041138	3.422747	14.78402	6.60151434	6.368001938	0.015735067	13.19025803	316.5662	8.972290993	8.655444145	0.035120849	29.4507084	706.8170166	24	20121.69873
	27	478.7471	826.7710571	3.4113	14.80447	6.06287575	5.867276669	0.014497804	11.98952961	287.7487	8.938746452	8.652703285	0.035109732	29.0307617	696.7382813	24	19842.50537
	28	484.3021	836.3641357	3.427389	14.77571	6.15651798	5.930291653	0.014653504	12.25672054	294.1613	9.121419907	8.787657738	0.035657339	29.8234158	715.7620239	24	20072.73926
	29	487.1871	841.3456421	3.434193	14.76356	6.28704453	6.044909477	0.014936717	12.56431293	301.5435	9.168954849	8.81536293	0.035769742	30.09972	722.3933105	24	20192.29541
	30	487.0881	841.1749268	3.380859	14.85887	6.6866765	6.53468132	0.01614693	13.58099556	325.9439	9.050406456	8.838729858	0.035864554	30.1707458	724.0979004	24	20188.19824
	31	483.8355	835.5576172	3.408183	14.81004	6.81391859	6.597987652	0.016303359	13.61968327	326.8724	8.894231796	8.620414734	0.034978721	29.2348003	701.6351929	24	20053.38281
Apr 05	01	482.1238	832.6019287	3.412952	14.80152	6.5838666	6.369240284	0.015738133	13.10350037	314.484	8.924595833	8.634066582	0.035034098	29.1774158	700.2579956	24	19982.44629
	02	477.7007	824.963501	3.41556	14.79686	6.13537264	5.930788517	0.014654733	12.09351254	290.2443	8.918079376	8.621538162	0.03498327	28.8604298	692.6502686	24	19799.12402
	03	459.9151	828.7809448	3.438247	14.75632	6.19011021	5.9440341	0.014687461	12.17376518	279.9966	9.042210579	8.683713913	0.035235558	29.2036095	671.6829834	24	19890.74268
	04	485.5907	838.5892944	3.441062	14.75129	6.08735943	5.840444088	0.014431496	12.10563374	290.5352	9.221102715	8.848266602	0.035903253	30.1077576	722.5861816	24	20126.14307
	05	481.7614	831.9755249	3.432985	14.76572	6.41232252	6.167430401	0.015239467	12.67597103	304.2233	8.91839695	8.577194214	0.034803335	28.9666958	695.2006836	24	19967.4126
	06	474.2696	819.0377808	3.368268	14.88136	6.02694464	5.902863979	0.014585742	11.95579147	286.939	8.816910744	8.644320488	0.035075705	28.7271576	689.4517822	24	19656.90674
	07	480.0413	829.0056152	3.403669	14.81811	5.902143	5.724749565	0.014145613	11.72869587	281.4887	9.071816444	8.803936958	0.035723373	29.6180382	710.8328857	24	19896.13477
	08	484.173	836.1411743	3.41079	14.80538	5.78194952	5.59770298	0.013831696	11.56367874	277.5283	9.271342278	8.974854469	0.036416914	30.4550667	730.9216309	24	20067.38818
	09	483.0656	834.229187	3.423064	14.78345	5.43949604	5.24666214	0.012964283	10.81574631	259.5779	9.378020287	9.046739578	0.036708597	30.6282501	735.0780029	24	20021.50049
	10	479.154	827.4731445	3.429296	14.77231	5.92964649	5.709093571	0.014106933	11.67691612	280.246	8.971338272	8.63809967	0.03505047	29.0039635	696.0950928	24	19859.35547
	11	475.5355	821.2249146	3.421093	14.78697	5.80722857	5.60407877	0.013847438	11.3781929	273.0766	8.919350624	8.608603477	0.034930795	28.6890202	688.536499	24	19709.39795
	12	473.8381	818.2928467	3.418422	14.79173	5.96557713	5.760811329	0.014234717	11.65164566	279.6395	8.814103127	8.513801575	0.034546137	28.2692623	678.4622803	24	19639.02832

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	13	483.4452	834.8839111	3.411363	14.80435	5.70134354	5.517178059	0.013632729	11.38673687	273.2817	9.333187103	9.033927917	0.036656607	30.6031075	734.4746094	24	20037.21387
	14	484.8706	837.3463135	3.421283	14.78662	5.70118475	5.501811028	0.013594754	11.38174152	273.1618	9.366253853	9.039359093	0.036678646	30.7189255	737.2542114	24	20096.31152
	15	474.6399	819.6782227	3.407803	14.81073	5.56843376	5.39392662	0.013328175	10.92914772	262.2996	9.124281883	8.841617584	0.035876274	29.4078293	705.7879028	24	19672.27734
	16	471.621	814.4642334	3.427199	14.77607	5.73234653	5.522672176	0.013646296	11.12037945	266.8891	8.853370667	8.529690742	0.034610581	28.1945953	676.6702881	24	19547.1416
	17	469.8189	811.3518066	3.427452	14.77561	5.99705553	5.776156425	0.014272638	11.58508778	278.0421	8.693909645	8.375470161	0.033984806	27.5752506	661.8059692	24	19472.44336
	18	480.0848	829.0814819	3.415369	14.7972	5.9693923	5.770480633	0.014258621	11.82373714	283.7697	9.136363983	8.83300209	0.035841316	29.7160835	713.1859741	24	19897.95557
	19	481.9394	832.2839355	3.422365	14.78469	5.64935589	5.44767046	0.013460967	11.20965958	269.0318	9.353378296	9.025011063	0.036620419	30.4765244	731.4365845	24	19974.81445
	20	480.7499	830.2297974	3.411871	14.80345	6.04681826	5.851137638	0.014457917	12.00792503	288.1902	9.194075584	8.897654533	0.036103651	29.9732876	719.3588867	24	19925.51514
	21	478.4917	826.329834	3.410981	14.80504	6.27941275	6.076820374	0.015015579	12.41217518	297.8922	8.961640358	8.675185204	0.035200968	29.0928001	698.2271729	24	19831.91602
	22	476.8715	823.5305786	3.415814	14.7964	6.18942642	5.983074665	0.014783929	12.17662907	292.2391	8.914103508	8.616768837	0.034963921	28.7958546	691.1005249	24	19764.73389
	23	478.1016	825.656189	3.419948	14.78902	5.58305931	5.389584541	0.013317445	10.99790573	263.9497	9.036839485	8.724876404	0.035402585	29.2306423	701.5354004	24	19815.74854
	24	478.4153	826.1970215	3.42688	14.77664	6.19499111	5.968518734	0.014747959	12.18602085	292.4645	8.783576965	8.463191032	0.034340747	28.3723831	680.9371948	24	19828.72852
	25	477.3024	824.2755127	3.417467	14.79345	6.24697924	6.034381866	0.014910713	12.293993	295.0558	8.817598343	8.51944828	0.034569025	28.4953251	683.8878174	24	19782.6123
	26	474.6649	819.7208862	3.413907	14.79982	6.19530916	5.990912437	0.014803291	12.14045429	291.3709	8.677375793	8.392453194	0.034053728	27.9177132	670.0250854	24	19673.30127
	27	475.4423	822.4732666	3.34249	14.92937	5.7441802	5.675299644	0.014022235	11.53754425	265.3635	8.833512306	8.729944229	0.035420112	29.1247349	669.8688965	24	19739.3584
	28	477.1263	826.1328125	3.402269	14.82352	6.07623053	5.898138523	0.014572233	12.04046249	288.9711	8.692796707	8.443196297	0.034255337	28.2988453	679.1723022	24	19827.1875
	29	475.9506	824.0970459	3.426116	14.78093	5.81485987	5.60630703	0.013851217	11.4196043	274.0705	8.610445023	8.302334785	0.033683836	27.7600918	666.2421875	24	19778.3291
	30	9.197802	127.4059982	0.539276	7.758806	29.3562012	120.3390961	0.297315747	53.90136337	161.7041	2.89097333	9.40779686	0.038168766	8.8551836	26.56555176	2.422222	308.605599
May 05	01	476.2226	824.5679321	3.422747	14.78696	6.31883955	6.096632481	0.015062641	12.41580868	297.9794	8.647327423	8.346487999	0.033862974	27.9234962	670.1638794	24	19789.63037
	02	477.6212	826.9891357	3.417149	14.79695	6.243958	6.034950256	0.01491025	12.33364964	296.0076	8.663385391	8.375432968	0.033980411	28.1044006	674.5056152	24	19847.73926
	03	472.3463	817.8560181	3.427072	14.77924	5.6263032	5.422780037	0.013397783	10.96099091	263.0638	8.593113899	8.283238411	0.033606358	27.4861584	659.6677856	24	19628.54443
	04	471.2169	815.901062	3.405576	14.81763	5.63615942	5.464622974	0.013501175	11.02012825	264.4831	8.608375549	8.350953102	0.033881102	27.6433086	663.4393921	24	19581.62549
	05	472.3542	817.8704224	3.427643	14.77821	5.46239042	5.265434742	0.01300905	10.64051628	255.3724	8.686278343	8.37206459	0.033966742	27.7813301	666.7518921	24	19628.89014
	06	474.6595	821.8613892	3.438708	14.75846	5.49498272	5.278040409	0.013040196	10.72169304	257.3206	8.761796951	8.417357445	0.034150504	28.066988	673.6077271	24	19724.67334
	07	476.0825	824.3252563	3.431205	14.77185	5.76223469	5.547082424	0.013704896	11.29992104	271.1981	8.753689766	8.427829742	0.034193005	28.1864452	676.4746704	24	19783.80615
	08	475.6815	823.6308594	3.42122	14.78968	6.04109335	5.832313061	0.014409604	11.87053299	284.8928	8.639537811	8.342521667	0.033846889	27.8779755	669.0714111	24	19767.14063
	09	480.6844	832.2929077	3.429043	14.77572	6.17591286	5.948825836	0.014697459	12.23506641	293.6416	8.720460892	8.401288986	0.03408533	28.3690872	680.8580933	24	19975.02979
	10	485.7114	840.9979858	3.430124	14.77379	6.1161356	5.889656067	0.014551274	12.2376833	293.7044	8.933181763	8.603453636	0.034905534	29.3569832	704.567627	24	20183.95166
	11	481.3463	833.4395142	3.406827	14.81539	6.07644176	5.89248991	0.014558279	12.13310814	291.1946	8.830636978	8.562386513	0.034738906	28.9538574	694.8925781	23.75	19794.18846
	12	475.5112	823.3358765	3.421729	14.78877	6.06207895	5.852638721	0.014459825	11.90774536	285.7859	8.573875427	8.278271675	0.033586212	27.65905	663.8171997	24	19760.06104
	13	471.0551	815.6203003	3.432093	14.77027	6.18227291	5.949867249	0.014700046	11.99224567	287.8139	8.364495277	8.050970078	0.032664005	26.6433964	639.4415283	24	19574.88721
	14	469.6238	813.1420288	3.434385	14.76617	6.43203735	6.184160233	0.015278892	12.43345165	298.4028	8.209960938	7.897597313	0.032041762	26.0531826	625.2764282	24	19515.40869
	15	481.354	833.4536133	3.422555	14.78729	6.30103397	6.079351425	0.015019946	12.51233387	300.296	8.200104713	7.915260792	0.032113429	26.7697716	642.4744873	24	20002.88672
	16	520.8242	901.7943115	3.426308	14.7806	5.98232317	5.767647743	0.014249837	12.84195805	308.207	8.505302429	8.200575829	0.033270996	29.9221745	718.1322021	24	21643.06348
	17	476.8906	825.7238159	3.436674	14.76208	5.99387598	5.760868549	0.014233096	11.75267887	282.0643	8.758298874	8.4190588	0.034157403	28.2074547	676.9788818	24	19817.37158
	18	471.4758	816.3481445	3.304681	14.99782	5.87364006	5.880828857	0.01452945	11.84438229	260.5764	8.651765823	8.652968407	0.035106421	28.6243629	629.7360229	24	19592.35547
	19	466.0961	807.0343628	3.363349	14.89305	6.3727355	6.254899025	0.015453675	12.47128296	299.3108	8.202647209	8.065419197	0.032722637	26.4174538	634.0189209	24	19368.82471
	20	469.0855	812.2098389	3.410346	14.8091	6.54825449	6.342515469	0.015670141	12.72977543	305.5146	8.231106758	7.973388195	0.032349247	26.2755508	630.6132202	24	19493.03613
	21	469.2607	812.5141602	3.409837	14.81	6.87035608	6.653799534	0.01643922	13.35650444	320.5561	8.335398674	8.07527256	0.032762613	26.6201	638.8823853	24	19500.33984
	22	466.1953	807.2055054	3.404749	14.81911	6.35000086	6.160223961	0.015219755	12.28787518	294.909	8.286910057	8.040488243	0.032621492	26.3340416	632.0170288	24	19372.93213
	23	465.9174	806.7251587	3.407675	14.81388	5.83377886	5.655099869	0.013971771	11.27404594	270.5771	8.372443199	8.11651516	0.032929935	26.5657749	637.5786133	24	19361.40381
	24	463.7964	803.0529175	3.419248	14.7932	5.78449297	5.588085651	0.0138062	11.08722496	266.0934	8.306304932	8.025299072	0.03255986	26.1489964	627.5759277	24	19273.27002
	25	463.1154	801.87323	3.405267	14.81818	5.55290127	5.391439915	0.013320354	10.67555618	245.5378	8.515210152	8.256095886	0.033496235	26.8648262	617.8909912	24	19244.95752
	26	465.143	805.383667	3.45664	14.72642	3.94710922	3.798929214	0.009385816	7.533429146	180.8023	10.15147877	9.676811218	0.039260287	31.6610584	759.8654175	24	19329.20801
	27	461.511	799.0952148	3.438008	14.75971	5.64840269	5.426055908	0.013405884	10.71468735	257.1525	8.350504875	8.02490139	0.032558259	26.0177002	624.4248047	24	19178.28516
	28	465.5218	806.0401611	3.432349	14.7698	5.46811485	5.261740685	0.012999908	10.48082161	251.5397	8.510284424	8.190945625	0.033231925	26.7879829	642.9116211	24	19344.96387
	29	473.2142	819.3591919	3.432985	14.76868	5.38385201	5.18069315	0.012799675	10.48836708	251.7208	8.770064354	8.439014435	0.034238376	28.0558834	673.3411865	24	19664.62061
	30	470.7912	815.1638184	3.425481	14.78208	5.85714865	5.647933483	0.013954067	11.37611675	273.0268	8.50090313	8.198115349	0.033261016	27.1147289	650.753479	24	19563.93164
	31	467.8108	810.0025635	3.458613	14.7229	4.50228357	4.318936348	0.010670582	8.639077187	207.3378	9.587405205	9.141059875	0.037086654	30.0518742	721.2449951	24	19440.06152
Jun 05	01	457.4174	792.0076294	3.426117	14.78093	5.00992012	4.829811096	0.011932771	9.453771591	226.8905	8.293746948	7.997271538	0.03244615	25.6991291	616.7791138	23.25	18414.17738
	02	465.4888	805.9830933	3.420647	14.7907	4.77478313	4.610336781	0.011390537	9.183334351	220.4	8.777535439	8.477746964	0.034395508	27.7238255	665.3718262	24	19343.59424
	03	465.2309	805.5358887	3.434193	14.76651	4.71262026	4.532263279	0.011197633	9.023251534	216.558	8.728569031	8.396460533	0.034065723	27.4421082	658.6105957	24	19332.86133
	04	370.0797	699.0371704	2.985002	13.90813	6.02158546	12.69050884	0.031353813	11.2175169	246.7854	7.949690819	9.280245781	0.037651375	24.901619	547.8356323	21.22778	14839.0055
	05	473.8516	820.4627075	3.433684	14.76743	5.1766963	4.979956627	0.012303733	10.0971899	242.3326	8.923960686	8.58568573	0.034833431	28.5808372	685.9401245	24	19691.10498
	06	480.1841	831.4271851	3.431077	14.77209	5.63218641	5.422567368	0.013397271	11.13879204	267.331	8.974677086	8.64074707	0.035056841	29.1497173	699.5932007	24	19954.25244
	07	481.214	833.2110596	3.426244	14.78072	5.71374559	5.508502483	0.013609579	11.34032059	272.1677	8.876264572	8.558143616	0.03472168	28.9331665	694.3959961	24	19997.06543
	08	475.832	823.8925171	3.399472	14.82853	5.70229721	5.54039526	0.013688379	11.28134155	270.7522	8.672924995	8.426738739	0.034188554	28.1747169	676.1931763	24	19773.42041
	09	467.8495	810.0690918	3.423509	14.7856	5.4151721	5.225827217	0.012911191	10.46327209	251.1185	8.416005135	8.122133255	0.032952726	26.6959743	640.7033691	24	19441.6582
	10	464.3681	804.0422363	3.443096	14.75062	5.03869629	4.833334446	0.011941466	9.604417801	230.506	8.39676857	8.056497574	0.03268645	26.2817669	630.7623901	24	19297.01367
	11	464.3521	804.013855	3.447739	14.74232	4.77923441	4.57854557	0.011311984	9.095550537	218.2932	8.526021957	8.169840813	0.033146285	26.6534672	639.6832275	24	19296.33252
	12	463.1126	801.8684692	3.462938	14.71517	5.03694773	4.804471016	0.011870166	9.519072533	228.4577	8.342237473	7.958193302	0.032287613	25.8916416	621.3994141	24	19244.84326
	13	462.1815	800.2558594	3.450791	14.73685	5.15268898	4.932078362	0.012185438	9.753565788	234.0856	8.294859886	7.940701962	0.032216642	25.7831459	618.7954712	24	19206.14063
	14	462.665	801.0930176	3.4899	14.66702	3.83136845	3.649914265	0.009017671	7.198348522	172.7604	9.85021019	9.299417496	0.03772914	30.2748718	726.5969238	24	19226.23242

Unit 4 - CEMS Data

	15	465.1099	805.3265991	3.428851	14.77605	5.09974623	4.912740231	0.012137654	9.776536942	234.6369	8.585324287	8.271359444	0.033558168	27.0248032	648.5952759	24	19327.83838
	16	472.3351	817.8370361	3.427325	14.77878	5.32614231	5.133293629	0.012682571	10.37325096	248.958	8.734768867	8.419411659	0.034158841	27.9386005	670.5264282	24	19628.08887
	17	471.1237	815.7393188	3.438072	14.75958	5.36429644	5.153527737	0.012732571	10.38803482	249.3128	8.59390831	8.257832527	0.033503294	27.3318748	655.9650269	24	19577.74365
	18	473.89	820.5293579	3.435782	14.76367	5.37113428	5.163654327	0.012757584	10.47215366	251.3317	8.709013939	8.37361145	0.033973016	27.8784752	669.083374	24	19692.70459
	19	469.3322	812.6378174	3.434257	14.76639	5.33965445	5.135720253	0.012688559	10.31213474	247.4912	8.558614731	8.232851028	0.033401936	27.1458797	651.5010986	24	19503.30762
	20	466.0933	807.0296021	3.432729	14.76913	5.53965616	5.330227852	0.013169125	10.63039207	255.1294	8.362745285	8.047870636	0.032651439	26.355154	632.5236816	24	19368.71045
	21	467.7995	809.9835205	3.456769	14.72619	4.7512517	4.555755615	0.011255675	9.103259087	218.4782	9.237159729	8.813609123	0.035758164	28.9914913	695.7957764	24	19439.60449
	22	462.2969	800.4556274	3.435783	14.76367	5.40324831	5.194580078	0.012833984	10.27580547	246.6193	8.230311394	7.913268089	0.032105345	25.7008495	616.8203735	24	19210.93506
	23	464.1593	803.6809082	3.447484	14.74277	4.80419493	4.615013123	0.011402082	9.150535583	219.6129	8.920779228	8.536460876	0.034633741	27.8613834	668.6732178	24	19288.3418
	24	468.0743	810.4592285	3.437755	14.76015	5.30722094	5.098870754	0.012597512	10.21137524	245.073	8.523636818	8.191342354	0.033233523	26.9448509	646.6763916	24	19451.02148
	25	469.0386	812.1288452	3.431649	14.77105	5.48480844	5.279256344	0.013043196	10.59880638	254.3714	8.490093231	8.173484802	0.033161085	26.9394417	646.5465698	24	19491.09229
	26	465.1702	805.4312134	3.439788	14.75652	5.45650768	5.239741802	0.012945566	10.42768288	250.2644	8.328564644	7.998600483	0.032451555	26.1417503	627.4019775	24	19330.34912
	27	466.3951	807.5528564	3.47006	14.70246	4.19766903	4.014707565	0.009918926	8.000570297	192.0137	9.634777069	9.154273987	0.03714031	30.0158215	720.3796997	24	19381.26855
	28	467.2118	808.9655151	3.4354	14.76436	5.93234968	5.703876019	0.014092292	11.40247536	273.6594	8.225542068	7.909763813	0.032091115	25.9628162	623.107605	24	19415.17236
	29	463.7473	802.9672241	3.452317	14.73414	4.68956709	4.502718925	0.011124643	8.906908989	213.7658	9.221577644	8.809548378	0.035741702	28.7456703	689.8961182	24	19271.21338
	30	461.1819	798.524353	3.471077	14.70064	4.41865635	4.223734856	0.010435364	8.304581642	199.31	9.392486572	8.922344208	0.036199301	28.9503918	694.8093872	24	19164.58447
Jul 05	01	460.755	797.7871704	3.487421	14.67144	3.83995342	3.658563852	0.009039023	7.173589706	172.1662	9.899804115	9.358433723	0.037968621	30.3490448	728.3770752	24	19146.89209
	02	359.0826	710.5630493	3.081284	13.65514	6.5011034	9.131278038	0.022560181	12.59744263	264.5463	7.46300745	7.702916145	0.0312519	23.0414028	483.8694458	20.96944	14900.11227
	03	463.2476	802.1014404	3.443287	14.75027	5.5013423	5.277458668	0.013038746	10.4594326	251.0264	8.416800499	8.075296402	0.032762699	26.2801533	630.7236938	24	19250.43457
	04	465.8598	806.6252441	3.438962	14.75801	6.23155689	5.98528862	0.01478755	11.92764187	286.2634	8.33730793	8.009374619	0.03249526	26.2162533	629.1901245	24	19359.00586
	05	463.833	803.1146851	3.44831	14.74131	6.20166826	5.940215111	0.014676192	11.78883362	282.932	8.247005463	7.901226997	0.032056488	25.7497005	617.9927979	24	19274.75244
	06	462.4889	800.7888184	3.422681	14.78708	6.13918781	5.924494743	0.014637354	11.72340012	281.3616	8.152567863	7.868676662	0.031924415	25.5654373	613.5704956	24	19218.93164
	07	463.0552	801.7684937	3.468408	14.7054	5.05872822	4.838047504	0.011953117	9.556441307	229.3546	9.07595253	8.627540588	0.035003245	28.10812	674.5949097	24	19242.44385
	08	461.176	798.5147705	3.447104	14.74345	6.16907692	5.911200047	0.014604504	11.66460419	279.9505	7.996764183	7.66381979	0.031093288	24.8284664	595.8831787	24	19164.35449
	09	461.0766	798.34375	3.43502	14.76502	5.98847008	5.758489132	0.014227221	11.36283875	272.7081	7.984361649	7.678715229	0.031153722	24.8718414	596.9241943	24	19160.25
	10	464.3298	803.975769	3.438645	14.75857	5.51819324	5.300559044	0.013095833	10.52987289	252.7169	8.252092361	7.928267002	0.032166183	25.8635159	620.7244263	24	19295.41846
	11	464.9126	804.9841309	3.489075	14.6685	4.11102152	3.916954994	0.009677432	7.78530407	186.8473	9.65242672	9.120248795	0.037002217	29.8066673	715.3599854	24	19319.61914
	12	456.9698	791.2322388	3.510507	14.63023	3.47587872	3.292614222	0.0081349	6.418216705	154.0372	9.816019058	9.218235016	0.037399776	29.6206551	710.8956909	24	18989.57373
	13	455.2913	788.3259888	3.494798	14.65828	3.32754707	3.159360886	0.007805679	6.12598896	147.0237	10.03001213	9.466773033	0.038408153	30.3267632	727.8422852	24	18919.82373
	14	459.5776	795.746521	3.493208	14.66112	3.39972591	3.238081694	0.008000162	6.349700451	152.3928	10.08073616	9.511078835	0.038587924	30.7354794	737.6514893	24	19097.9165
	15	457.4315	792.0314331	3.511715	14.62806	3.38636994	3.203546286	0.007914833	6.232102394	149.5705	10.15386581	9.531654358	0.038671374	30.698988	736.7756958	24	19008.75439
	16	448.7332	776.9713135	3.457215	14.7254	5.38750935	5.147304058	0.012717175	9.881973267	237.1674	7.717110157	7.374255657	0.029918471	23.2482834	557.9588013	24	18647.31152
	17	448.5139	776.5908813	3.455497	14.72847	5.48321819	5.241482258	0.012949871	10.05801868	241.3925	7.702323914	7.363632679	0.029875387	23.2018967	556.84552	24	18638.18115
	18	457.9916	793.00177	3.511396	14.62864	3.63931584	3.443883657	0.00850863	6.722788811	161.3469	10.14448071	9.522746086	0.038635239	30.681633	736.3591919	24	19032.04248
	19	456.2116	789.9193115	3.500904	14.64737	4.25045061	4.019713879	0.009931312	7.819417	187.666	9.433506966	8.891153336	0.036072787	28.5463295	685.1118774	24	18958.06348
	20	455.5631	788.7967529	3.482715	14.67986	4.32501507	4.11453104	0.010165572	7.997598648	191.9424	9.388030052	8.892065048	0.036076445	28.4960709	683.9057007	24	18931.12207
	21	457.8273	792.7163696	3.494416	14.65895	3.92580509	3.73099947	0.009217991	7.271006584	174.5042	9.985489845	9.419869423	0.038217872	30.3600121	728.6403198	24	19025.19287
	22	457.5823	792.2929688	3.505545	14.63908	3.90911126	3.699637175	0.009140505	7.208396912	173.0015	9.668800354	9.094210625	0.036896616	29.2933674	703.0407715	24	19015.03125
	23	453.4618	785.157959	3.445322	14.74665	6.22138262	5.964578629	0.014736392	11.57207966	277.7299	7.672275543	7.356445789	0.029846225	23.435379	562.4490967	24	18843.79102
	24	452.2802	783.1123047	3.442524	14.75163	6.23219442	5.979448318	0.014773125	11.5696249	277.671	7.681814671	7.372181892	0.029910071	23.4251747	562.2042236	24	18794.69531
	25	456.2141	789.9241943	3.455307	14.7288	6.01947308	5.755064964	0.014218746	11.2340374	269.6169	7.941437244	7.592748165	0.030804945	24.3344421	584.0266113	24	18958.18066
	26	461.5659	799.1903076	3.470823	14.70109	4.93265438	4.712388515	0.01164266	9.277636528	222.6633	9.134461403	8.677124023	0.035204429	28.1806793	676.3363037	24	19180.56738
	27	460.2582	796.9261475	3.424223	14.78433	4.99747896	4.829170227	0.011931193	9.481331825	218.0706	9.01798439	8.691951752	0.035264593	28.1467094	647.3743286	24	19126.22754
	28	458.4895	793.862854	3.450282	14.73777	4.90149546	4.713168144	0.011644578	9.233919144	221.6141	8.927140236	8.532067299	0.034615897	27.5044746	660.1074219	24	19052.7085
	29	456.382	790.2142334	3.491747	14.66373	4.38813305	4.165159225	0.010290649	8.117009163	194.8082	9.127939224	8.620386124	0.034974214	27.6655922	663.9741821	24	18965.1416
	30	453.1975	784.7012329	3.445386	14.74653	6.07479954	5.824326515	0.014389875	11.28981304	270.9555	7.613451004	7.299821854	0.029616492	23.2434006	557.8416138	24	18832.82959
	31	451.973	782.5796509	3.438517	14.75879	6.32837963	6.079280376	0.015019779	11.75540829	282.1298	7.540000439	7.244195461	0.029390812	23.0013409	552.0322266	24	18781.91162
Aug 05	01	459.0362	794.8093262	3.479089	14.68633	4.50434828	4.29506731	0.010611607	8.383111954	201.1947	9.468472481	8.974287987	0.036410041	29.016613	696.3986816	24	19075.42383
	02	456.6128	790.6138916	3.446784	14.74403	5.63155079	5.39672184	0.013333408	10.54434872	253.0644	8.018543243	7.685103416	0.031179633	24.6530876	591.6741333	24	18974.7334
	03	458.4809	793.8485107	3.424562	14.78372	5.87236834	5.662895203	0.013991014	11.10830021	244.3826	7.991313934	7.709183693	0.031277332	24.8229408	546.1046753	24	19052.36426
	04	462.2996	800.4603882	3.471269	14.70029	4.47748137	4.277309418	0.010567727	8.437702179	202.5049	9.4637146	8.991153717	0.036478497	29.2352505	701.6459961	24	19211.04932
	05	461.1348	798.4435425	3.488248	14.66997	4.36205816	4.154843807	0.010265155	8.169348717	196.0644	9.62937355	9.100255966	0.036921095	29.5170708	708.409668	24	19162.64502
	06	452.058	782.7272339	3.438581	14.75867	6.35238647	6.101783276	0.015075367	11.80212498	283.251	7.575136185	7.277875423	0.029527446	23.1117325	554.6815796	24	18785.45361
	07	454.4669	786.8988647	3.431205	14.77185	6.29340315	6.057837009	0.014966783	11.77930832	282.7034	7.789129257	7.499823093	0.030427929	23.9433918	574.6414185	24	18885.57275
	08	460.4673	797.2876587	3.488566	14.66942	4.44775105	4.233471394	0.010459424	8.303979874	199.2955	9.748448372	9.211544991	0.037372679	29.8504906	716.4118042	24	19134.90381
	09	457.6181	792.3548584	3.470186	14.70224	5.80150509	5.529831886	0.013662277	10.81208038	259.4899	8.196447372	7.796257973	0.031630594	25.0870743	602.0897827	24	19016.5166
	10	461.3875	798.8811035	3.440657	14.75496	5.22272873	5.025988102	0.012417447	9.892149925	217.6273	8.982858658	8.614256859	0.034949347	27.993145	615.8491821	24	19173.14648
	11	462.2495	800.3748169	3.421474	14.78924	6.54157829	6.312687397	0.015596446	12.48827553	299.7186	8.050976753	7.77398634	0.031540241	25.2437134	605.8491211	24	19208.99561
	12	463.3988	802.3630981	3.452508	14.7338	4.85061693	4.657100201	0.011506073	9.223801613	221.3712	9.209178925	8.795580864	0.035685025	28.6523991	687.6575928	24	19256.71436
	13	457.8847	792.8162231	3.433685	14.76742	5.4722476	5.264296055	0.013006242	10.31423569	247.5417	8.154158592	7.845488548	0.031830337	25.2410202	605.7844849	24	19027.58936
	14	371.0768	700.9208984	3.059372	13.77345	7.48071432	13.09659386	0.0323571	12.18267727	268.0189	7.469612598	7.643629551	0.031011365	22.7268105	499.9898376	21.13056	14810.84837
	15	463.2307	802.072876	3.486722	14.6727	4.65093422	4.42741251	0.010938581	8.738796234	209.7311	9.507278442	8.989531517	0.036471896	29.3043671	703.3048096	24	19249.74902
	16	464.0603	803.5094604	3.501857	14.64567	3.88971496	3.691193819	0.009119639	7.293715	175.0492	10.25799274	9.658420563	0.039185688	31.5348167	756.8355713	24	19284.22705

Unit 4 - CEMS Data

	17	467.8351	810.0453491	3.509298	14.63237	2.44581842	2.304404259	0.005693376	4.610402107	110.6497	11.77708721	11.08496094	0.044973411	36.4344215	874.4260864	24	19441.08838	
	18	467.8463	810.0645142	3.473241	14.69678	4.42565203	4.237878323	0.010470309	8.447277069	202.7346	9.851317406	9.343258858	0.037907042	30.7637005	738.3287964	24	19441.54834	
	19	465.2172	805.5120239	3.461601	14.71756	6.21502352	5.930522919	0.014652254	11.80410862	283.2986	8.160199165	7.78826189	0.031598158	25.4564743	610.9553833	24	19332.28857	
	20	462.7116	801.1738892	3.441188	14.75402	6.46606064	6.207019806	0.015335375	12.28702927	294.8887	7.96782732	7.648963928	0.031033013	24.8633251	596.7197876	24	19228.17334	
	21	461.1017	798.3864136	3.435528	14.76413	6.49404097	6.24349165	0.015425479	12.31857872	295.6459	7.898670197	7.595126152	0.030814592	24.6022701	590.4544678	24	19161.27393	
	22	459.2941	795.2564087	3.449837	14.73857	5.79037523	5.545836449	0.013701821	10.90022945	261.6055	8.084522247	7.741619587	0.031408932	24.978075	599.4738159	24	19086.15381	
	23	463.7722	803.0100708	3.476355	14.69121	4.94791603	4.717813969	0.011656067	9.339296341	224.1431	9.131437302	8.661660194	0.035141662	28.2543335	678.1040039	24	19272.2417	
	24	466.0961	807.0342407	3.392062	14.84177	5.1718359	5.045693874	0.012466145	10.04633617	231.0657	9.082853317	8.839404106	0.035862803	28.9565659	666.0009766	24	19368.82178	
	25	465.5829	806.1447754	3.419185	14.79332	6.38179827	6.166771889	0.015235937	12.28683281	294.884	8.190089226	7.916223049	0.032117318	25.8961372	621.5073242	24	19347.47461	
	26	466.3735	807.5147705	3.4637	14.71381	5.38528347	5.152682781	0.012730472	10.25705242	246.1693	9.128097534	8.691305161	0.035261959	28.5153294	684.3679199	24	19380.35449	
	27	458.1128	793.2111206	3.432921	14.76878	6.28402281	6.046291351	0.014938254	11.85221672	284.4532	7.802642345	7.508833408	0.030464483	24.1659374	579.9824829	24	19037.06689	
	28	455.6674	788.977478	3.433621	14.76753	6.06987	5.839448929	0.014427233	11.38609982	273.2664	7.808684349	7.513152122	0.030482	24.0505543	577.2133179	24	18935.45947	
	29	464.5634	804.3800049	3.488694	14.66917	3.81260753	3.634033203	0.008978425	7.185928822	172.4623	10.26530743	9.697366714	0.039343689	31.7086163	761.0068359	24	19305.12012	
	30	465.8625	806.6300659	3.428851	14.77605	5.78640032	5.574131489	0.013771721	11.11030865	266.6474	8.376259804	8.070139885	0.032741789	26.4109993	633.8640137	24	19359.12158	
	31	464.2662	803.866272	3.432694	14.76918	5.891994	5.66920948	0.014006631	11.25880432	258.9525	8.273720741	7.962975025	0.032306999	25.9719601	597.3551025	24	19292.79053	
Sep 05	01	460.8108	797.8822632	3.450537	14.73733	5.56445789	5.32740593	0.01316215	10.50518608	252.1245	8.267037392	7.915637493	0.032114949	25.6255207	615.0125122	24	19149.17432	
	02	461.9367	799.8325195	3.461857	14.71711	5.81613159	5.549075127	0.013709825	10.96727085	263.2145	8.202487946	7.827989578	0.031759344	25.403862	609.692688	24	19195.98047	
	03	465.1155	805.3360596	3.445321	14.74664	5.86716604	5.625007629	0.013897421	11.19260406	268.6225	8.303127289	7.961563587	0.032301273	26.017334	624.4160156	24	19328.06543	
	04	468.5551	811.291748	3.443794	14.74937	6.04745388	5.800165176	0.014330179	11.62916279	279.0999	8.348278999	8.008552551	0.032491915	26.3637924	632.7310181	24	19471.00195	
	05	465.9427	806.7679443	3.443986	14.74902	6.03982162	5.792656898	0.014311629	11.54830837	277.1594	8.217433929	7.875510216	0.03195215	25.7867699	618.8825073	24	19366.99658	
	06	466.0522	806.9581909	3.44723	14.74323	6.05953693	5.805963993	0.014344496	11.57859612	277.8863	8.217433929	7.875510216	0.03195215	25.7867699	618.8825073	24	19366.99658	
	07	465.7833	805.6074829	3.420987	14.79947	5.92747355	5.731094837	0.014154767	11.40650368	273.7561	8.284525871	8.012637138	0.032497481	26.1822414	628.3737793	24	19334.57959	
	08	469.7941	812.2103882	3.448693	14.75397	5.11516809	4.925384998	0.012163069	9.865231514	236.7656	9.067523003	8.69209671	0.035248253	28.6552505	687.7260132	24	19493.04932	
	09	467.5441	808.3205566	3.44933	14.75284	5.56509447	5.340033531	0.013187025	10.66090393	255.8617	8.371490479	8.035515785	0.03258568	26.3414421	632.1945801	24	19399.69336	
	10	469.0494	810.9233398	3.45092	14.75001	5.57940292	5.351417065	0.013215133	10.71878338	257.2508	8.393429756	8.052649498	0.032655168	26.4811592	635.5477905	24	19462.16016	
	11	472.2588	816.4708252	3.447993	14.75522	5.57654047	5.353972435	0.013221454	10.71878338	257.2508	8.393429756	8.052649498	0.032655168	26.4811592	635.5477905	24	19462.16016	
	12	472.4289	816.7653809	3.446466	14.75794	5.96796179	5.731816292	0.014154521	11.56354141	277.525	8.452412605	8.119479179	0.032926168	26.8936176	645.4467773	24	19602.36914	
	13	471.7028	815.5115356	3.439662	14.77007	6.50866699	6.26400423	0.015468733	12.61375046	302.73	8.495973587	8.177458763	0.033161275	27.0444126	649.065918	24	19572.27686	
	14	469.5826	811.8445435	3.439471	14.77041	6.80056286	6.545110226	0.016162921	13.12179184	314.923	8.391839027	8.077684402	0.032756686	26.5939293	638.2543335	24	19484.26904	
	15	466.7504	806.947937	3.447738	14.75567	6.79627132	6.524506092	0.016112041	13.00610161	312.1464	8.321249962	7.990816593	0.032404426	26.1509743	627.6234131	24	19366.75049	
	16	468.2525	809.5458984	3.398365	14.84366	6.81736755	6.64047718	0.01639843	13.27229977	305.2629	8.356891632	8.141136169	0.033013996	26.7157173	614.4614868	24	19429.10156	
	17	468.148	809.3654175	3.419312	14.80634	5.61390352	5.442895889	0.013441042	10.89078045	261.3787	8.291837692	8.029729843	0.032562222	26.3564911	632.5557861	24	19424.77002	
	18	361.5797	714.4257813	3.040221	13.74128	7.91597414	16.25428391	0.04013934	14.7023344	308.749	7.751359463	8.393882751	0.034038913	24.4238396	512.9006348	20.21667	14443.30824	
	19	468.1595	809.3844604	3.45677	14.73959	6.2652626	6.000198364	0.014817279	11.98722458	287.6934	8.334763527	7.982456207	0.032370515	26.2037868	628.8909302	24	19425.22705	
	20	465.1315	804.1501465	3.454831	14.74303	4.21349525	4.042787075	0.009983514	8.012242317	176.2693	9.897676468	9.480582237	0.038445704	30.9673138	681.2808838	24	19299.60352	
	21	464.3492	802.7966919	3.422936	14.79988	5.95476484	5.760321617	0.014224908	11.42178726	274.1229	8.029673576	7.767845154	0.03150022	25.2900543	606.9613037	24	19267.12061	
	22	466.7198	806.8956299	3.477501	14.70263	4.40800476	4.214379787	0.010407262	8.376239777	201.0298	9.535257339	9.062431335	0.036750007	29.687746	712.5059204	24	19365.49512	
	23	464.5081	803.0721436	3.464209	14.72632	4.63773775	4.442028522	0.010969426	8.782841682	210.7882	9.096615791	8.682364464	0.035208799	28.3262291	679.8294678	24	19273.73145	
	24	476.2415	823.357666	3.436863	14.77505	5.55205774	5.347771168	0.013206134	10.87364483	260.9675	8.78468895	8.462168694	0.034315847	28.255579	678.1339111	24	19760.58398	
	25	472.2939	816.5326538	3.446785	14.75737	5.64204311	5.418311596	0.013380325	10.93256283	262.3815	8.654800415	8.313268661	0.033712026	27.5312824	660.7507935	24	19596.78369	
	26	467.8432	808.8382568	3.447485	14.75613	5.60229588	5.379169941	0.013283662	10.74677467	257.9226	8.339852333	8.008832932	0.032477483	26.2738914	630.5734253	24	19412.11816	
	27	470.4509	813.34552	3.45181	14.74841	5.41533041	5.192895889	0.012823666	10.4306879	250.3365	8.402013779	8.059132576	0.032681447	26.5878792	638.1091309	24	19520.29248	
	28	466.8165	807.0619507	3.402843	14.83568	5.70961189	5.554463387	0.013716554	11.07219982	265.7328	8.169101715	7.947393894	0.032228317	26.0130825	624.3140259	24	19369.48682	
	29	467.5716	808.3682251	3.448438	14.75443	4.37064314	4.22519207	0.010433963	8.40974617	201.8339	9.376426697	8.977362633	0.036405053	29.4679909	707.2318115	24	19400.8374	
	30	465.2665	804.3829346	3.478073	14.70161	4.20164299	4.017424583	0.009920891	7.961613178	191.0787	9.461324692	8.987923622	0.036447905	29.3531799	704.4763184	24	19305.19043	
Oct 05	01	462.6372	799.8376465	3.456389	14.74025	5.06349945	4.849721909	0.011976217	9.58025074	229.926	8.405511856	8.051305771	0.032649711	26.1173916	626.8173828	24	19196.10352	
	02	464.7332	803.4616089	3.457087	14.73902	5.18480396	4.964689255	0.012260125	9.851636887	236.4393	8.34923172	7.995870113	0.032424904	26.0539417	625.2946167	24	19283.07861	
	03	477.4781	825.4951172	3.448375	14.75454	5.56684351	5.344180107	0.013197258	10.89668751	261.5205	8.748918533	8.399605751	0.034062129	28.1188583	674.8526001	24	19811.88281	
	04	480.2501	830.2875366	3.445768	14.75918	5.75619268	5.529828548	0.013655704	11.34076691	272.1784	8.778014183	8.434028625	0.034201726	28.3989334	681.5744019	24	19926.90088	
	05	476.8242	824.3646851	3.431077	14.78536	5.51581001	5.321030617	0.0131401	10.83734894	260.0964	8.761795998	8.454310417	0.03428397	28.2636909	678.3286133	24	19784.75244	
	06	474.1129	819.6769409	3.447801	14.75557	5.32025862	5.108738899	0.01261585	10.34652138	248.3165	8.714897156	8.369377136	0.033939555	27.8242245	667.7813721	24	19672.24658	
	07	469.4036	811.5360107	3.452254	14.74763	4.93074608	4.728010178	0.011675654	9.478935242	227.4944	8.749872208	8.391093254	0.034027621	27.6183338	662.8399658	24	19476.86426	
	08	477.5116	825.5521851	3.456959	14.73925	4.97589731	4.76499033	0.011766979	9.719909668	233.2778	8.936997414	8.559114456	0.034708995	28.6543331	687.7039795	24	19813.25244	
	09	473.2419	818.1712646	3.470187	14.71568	4.73551321	4.51768589	0.011156275	9.127991676	219.0718	8.812036514	8.406721115	0.034090985	27.8971996	669.5327759	24	19636.11035	
	10	469.6205	811.9111938	3.467644	14.72021	4.69004393	4.477259636	0.011056425	8.979961395	215.5191	8.694386482	8.301018715	0.033662338	27.3337746	656.0106201	24	19485.86865	
	11	469.4536	811.621521	3.463574	14.72745	4.6549077	4.448801041	0.010986154	8.920223236	214.0853	8.703450203	8.319371223	0.033736762	27.3850746	657.2418213	24	19478.9165	
	12	467.2251	807.7695923	3.45749	14.7383	4.85369253	4.646949768	0.011475479	9.270816803	222.4996	8.492106438	8.131439209	0.032974664	26.6381035	639.3145142	24	19386.47021	
	13	468.1397	809.3513794	3.478518	14.70082	4.06523609	3.883571148	0.009590348	7.750843525	186.0202	9.442724228	8.971418381	0.036380965	29.4682884	707.2388916	23.99722	19422.18546	
	14	463.6236	801.5427246	3.462492	14.72937	4.16253233	3.981767893	0.009832838	7.883121967	189.1949	8.876106262	8.484601974	0.034406811	27.5840912	662.0181885	24	19237.02539	
	15	471.0028	814.300293	3.459185	14.73528	4.20593548	4.024634361	0.009938693	8.094633102	194.2712	8.920145035	8.537970543	0.034623228	28.1946754	676.6721802	24	19543.20703	
	16	465.0687	804.0410156	3.479537	14.699	4.01578999	3.820531607	0.009434666	7.585943699	182.0627	8.791686058	8.365688324	0.033924602	27.2795544	654.7092896	24	19296.98438	
	17	463.53	801.3811646	3.456706	14.7397	4.60864353	4.413727283	0.010899548	8.733622551	209.6069	8.47164917	8.11373806	0.032902889	26.3716335	632.9191895	24	19233.14795	
	18	461.2116	797.3724976	3.475466	14.70626	4.92708969	4.692062378	0.011586875	9.243338585	221.8401	8.231105804	7.841209412	0.031797729	25.3538876	608.4932861	24	19136.93994	

Unit 4 - CEMS Data

	19	467.9341	808.9949341	3.459186	14.73528	5.52423668	5.287273407	0.013056742	10.56258869	253.5021	8.207099915	7.854567528	0.031851899	25.7701206	618.4829102	24	19415.87842	
	20	463.6872	801.6520996	3.449074	14.75328	5.35443974	5.138306141	0.012688858	10.17533302	244.208	8.129037857	7.803017616	0.031642858	25.3659248	608.7822266	24	19239.65039	
	21	464.1902	802.5211792	3.448565	14.75421	5.51962519	5.298185825	0.01308368	10.50236225	252.0567	8.160040855	7.834549904	0.031770729	25.4989452	611.9746704	24	19260.5083	
	22	227.7034	674.8600464	2.932694	13.06105	6.21293497	10.29290009	0.025417972	11.5845356	162.1835	7.133590221	7.571446419	0.030703796	22.0230961	308.3233337	13.96944	9427.419811	
	23	461.151	797.2681885	3.455498	14.74185	5.49307442	5.262601376	0.01299582	10.36195278	248.6869	8.136034012	7.79502058	0.031610414	25.2033386	604.880127	24	19134.43652	
	24	466.9229	807.2470703	3.488121	14.6837	4.38240862	4.179196358	0.010320386	8.306334496	199.352	9.431601524	8.934220314	0.036230095	29.2842503	702.8220215	24	19373.92969	
	25	468.7331	810.3771362	3.458358	14.73675	5.72073984	5.476385593	0.013523746	10.95992088	263.0381	8.221884727	7.870652676	0.031917118	25.8658619	620.7807007	24	19449.05127	
	26	470.2417	812.9846802	3.439154	14.77098	5.90850067	5.686781883	0.014043316	11.4192791	274.0627	8.341917992	8.030599594	0.03256575	26.4759216	635.4221191	24	19511.63232	
	27	473.8352	819.1972656	3.447421	14.75625	5.78719616	5.555922031	0.013720158	11.24310017	269.8344	8.50487709	8.168107033	0.033123363	27.1338825	651.2131958	24	19660.73438	
	28	476.3603	823.5620117	3.458105	14.7372	5.89085245	5.639203072	0.013925817	11.47101307	275.3043	8.561952591	8.197003365	0.033240553	27.3762875	657.0308838	24	19765.48828	
	29	474.6015	820.5222778	3.460138	14.73357	5.85412931	5.600773811	0.013830917	11.348629	272.3671	8.478963852	8.112791061	0.032899044	26.9969711	647.9273071	24	19692.53467	
	30	471.4916	815.145752	3.462302	14.72972	5.8054781	5.550527096	0.013706829	11.17599964	268.224	8.26258564	7.900580883	0.032038499	26.1176758	626.8242188	24	19563.49805	
	31	472.2336	816.4281006	3.444432	14.76157	6.53076649	6.277127743	0.015501145	12.65944195	303.8266	8.094856262	7.780426025	0.031551242	25.7601242	618.242981	24	19594.27441	
Nov 05	01	469.478	811.6641235	3.456515	14.74003	4.66428852	4.487818241	0.011082512	8.993818283	215.8516	9.33986187	8.929301262	0.036210168	29.3989506	705.5748291	24	19479.93896	
	02	471.3104	814.8322754	3.410508	14.82202	5.35952044	5.202473164	0.012847322	10.46771049	240.7574	8.568077087	8.316887856	0.033726707	27.4701176	631.8126831	24	19555.97461	
	03	478.0827	826.5400391	3.424337	14.79738	5.91883421	5.720866203	0.014127479	11.68008327	280.322	8.601381302	8.316382408	0.033724658	27.8736324	668.9672241	24	19836.96094	
	04	476.9645	824.6070557	3.435719	14.7771	5.86128283	5.646999836	0.013945066	11.5010128	276.0243	8.572445869	8.260954857	0.033499885	27.6252594	663.0062256	24	19790.56934	
	05	476.9832	824.6402588	3.427834	14.79115	5.91978788	5.717166901	0.014118342	11.64342117	279.4421	8.457818985	8.168536186	0.033125099	27.318058	655.6334229	24	19791.36621	
	06	473.5305	818.6699829	3.436929	14.77495	5.29831839	5.102944851	0.012601546	10.31863689	247.6473	8.625546455	8.309405327	0.033696357	27.58638	662.0731201	24	19648.07959	
	07	469.481	811.6688843	3.448819	14.75374	5.0809865	4.877084732	0.012043783	9.778087616	234.6741	8.574354172	8.2310009	0.033378407	27.0942917	650.2630005	24	19480.05322	
	08	465.4009	804.6157837	3.442778	14.7645	4.72533798	4.540659904	0.011213004	9.037071228	216.8897	8.630157471	8.299869537	0.033657696	27.0762005	649.8287964	24	19310.77881	
	09	458.5026	792.6895142	3.388854	14.86062	5.09801149	4.985713005	0.012312052	9.759799004	224.4754	8.628298759	8.426713943	0.034172073	27.0459995	622.0579834	24	19024.54834	
	10	459.0849	793.6965332	3.413334	14.81699	5.28814363	5.12790823	0.012663192	10.05713558	241.3712	8.516801834	8.262326241	0.033505451	26.5602703	637.4465332	24	19048.7168	
	11	471.8739	815.8059692	3.431712	14.78423	5.60086584	5.403067112	0.013342683	10.8859539	261.2629	8.351458549	8.056870461	0.032672275	26.654871	639.7169189	24	19579.34326	
	12	474.8347	820.9259644	3.426435	14.79365	5.86477995	5.666060925	0.013992146	11.48728752	275.6949	8.404399872	8.120558739	0.032930546	27.035017	648.8403931	24	19702.22314	
	13	473.4398	818.5130615	3.421728	14.80202	5.98004436	5.785316944	0.014286625	11.6958046	280.6993	8.316482544	8.04658699	0.032630585	26.7088089	641.0114136	24	19644.31348	
	14	471.4263	815.0316772	3.409645	14.82357	5.45666695	5.297364712	0.013081654	10.66477299	255.9545	8.476737976	8.231081009	0.033378743	27.2058792	652.9411011	24	19560.76025	
	15	456.8131	789.7684326	3.448819	14.75375	5.27653837	5.063468933	0.012504058	9.880355835	237.1285	8.611715317	8.266080856	0.033520665	26.4467087	634.7210083	24	18954.44238	
	16	473.4288	818.4942017	3.422962	14.79983	5.52375937	5.340930462	0.013189235	10.78238201	247.9948	8.467820168	8.189896584	0.033211723	27.1389084	624.1948853	24	19643.86084	
	17	470.3958	813.2506104	3.428407	14.79012	5.11182976	4.931987762	0.012179371	9.910374641	237.849	8.586753845	8.29502964	0.033638064	27.3539925	656.4957886	24	19518.01465	
	18	469.2476	811.2651978	3.436928	14.77493	5.18528128	4.992808342	0.012329566	10.01321507	240.3172	8.552732468	8.239113808	0.03341132	27.1038208	650.4916992	24	19470.36475	
	19	470.0826	812.7091675	3.433176	14.78162	5.22884178	5.03738451	0.01243965	10.11051273	242.6523	8.723799706	8.414912224	0.034124222	27.7326508	665.5836182	24	19505.02002	
	20	467.6015	808.4202271	3.449902	14.75182	4.37620735	4.197630882	0.010365905	8.384379387	201.2251	8.77244854	8.419334412	0.034142144	27.5994205	662.3861084	24	19402.08545	
	21	468.5551	810.0684814	3.454225	14.74411	4.7130971	4.514855862	0.011149293	9.035908699	216.8618	8.822528839	8.457107544	0.034295328	27.7799835	666.7196045	24	19441.64355	
	22	459.7472	794.8410034	3.432582	14.78268	5.04871321	4.883266926	0.012059059	9.625713348	231.0171	8.824807167	8.506439209	0.034495376	27.3912258	657.3894043	24	19076.18408	
	23	469.9785	812.5286255	3.407484	14.82742	5.18035221	5.028495789	0.012417695	10.09459496	242.2703	8.669109344	8.426384926	0.034170739	27.7632542	666.3181152	24	19500.68701	
	24	470.489	813.4120483	3.429741	14.78775	5.0169158	4.840960503	0.011954592	9.727314949	233.4556	8.770222664	8.466572762	0.03433371	27.9261417	670.227417	24	19521.88916	
	25	468.3459	809.7073364	3.435148	14.77811	5.08957148	4.903254509	0.012108404	9.807605743	235.3825	8.625388145	8.314071655	0.033715293	27.301075	655.2258301	24	19432.97607	
	26	477.8575	826.1506348	3.436609	14.77551	5.04648781	4.860789776	0.01200355	9.918640137	238.0474	8.952735901	8.625312805	0.034977429	28.9014549	693.6348877	24	19827.61523	
	27	481.1978	831.9262695	3.414479	14.81494	5.26381826	5.102243423	0.012599804	10.48622704	251.6694	9.145108223	8.867111206	0.03595797	29.917017	718.0084229	24	19966.23047	
	28	481.1236	831.7979736	3.402969	14.83547	5.21262598	5.069907188	0.012519958	10.41953278	250.0688	9.131912231	8.884187698	0.036027215	29.9690075	719.2562256	24	19963.15137	
	29	473.2231	818.1379395	3.42141	14.8026	5.37002087	5.192949295	0.012823816	10.49327374	251.8386	8.641921997	8.365063667	0.033922061	27.7542343	666.1016235	24	19635.31055	
	30	472.1843	816.3425293	3.434066	14.78004	5.55074501	5.350608349	0.013213118	10.78434181	248.0399	8.553646088	8.246456146	0.033441085	27.29006	627.6713867	24	19592.2207	
Dec 05	01	467.7502	808.6767578	3.437881	14.77323	5.13138437	4.941275597	0.012202309	9.868852615	236.8525	8.583256721	8.266308784	0.033521593	27.1106911	650.6566162	24	19408.24219	
	02	472.6786	817.1975098	3.446084	14.75862	5.36000443	5.146470547	0.012709038	10.40465641	249.7117	8.618868828	8.280137062	0.033577666	27.4409161	658.5819702	24	19612.74023	
	03	479.9282	829.7318115	3.459249	14.73516	4.64680004	4.447133064	0.010982029	9.112863541	218.7087	9.076586723	8.68642807	0.035225257	29.2303581	701.5286255	24	19913.56348	
	04	480.3465	830.4537354	3.445068	14.76042	4.75649977	4.570509911	0.011286712	9.374616623	224.9908	9.058144569	8.704610825	0.035298992	29.3165092	703.5961914	24	19930.88965	
	05	480.1539	830.1212769	3.438328	14.77245	4.70260286	4.527830124	0.011181316	9.282450676	222.7788	9.097571373	8.759133339	0.035520103	29.4920883	707.8101196	24	19922.91064	
	06	477.7254	825.9227905	3.436165	14.7763	4.39067507	4.22974968	0.010445217	8.629957199	207.119	9.223487854	8.886425018	0.036036294	29.7658253	714.3798218	24	19822.14697	
	07	473.4012	818.4467773	3.432794	14.78231	4.12612343	3.978732824	0.009825342	8.043739319	193.0497	9.24956131	8.920580864	0.0361748	29.6081047	710.5944824	24	19642.72266	
	08	463.7281	801.7233887	3.46917	14.71749	4.27096033	4.075435162	0.010064141	8.074574471	193.7898	9.155919075	8.737750053	0.035433393	28.3975658	681.541626	24	19241.36133	
	09	468.2694	809.5744019	3.467326	14.72075	4.65824652	4.447773933	0.010983612	8.896461487	213.5151	8.945423126	8.541320801	0.034636825	28.0409164	672.9819946	24	19429.78564	
	10	324.8983	709.5227051	3.0223	13.58886	4.59682989	5.311172485	0.013115752	8.751953125	166.2871	8.371490479	9.391236305	0.038083442	26.3604412	500.8483887	18.24722	12946.81895	
	11	470.475	813.3884277	3.461601	14.73097	4.45061255	4.256275654	0.010510726	8.55147171	205.2353	9.016171455	8.623108864	0.034968495	28.4438744	682.6530151	24	19521.32227	
	12	465.8985	805.4754639	3.471395	14.71351	4.47986555	4.271070957	0.010547263	8.491177559	203.7883	8.996934891	8.580592155	0.034796074	28.0265083	672.6362305	24	19331.41113	
	13	471.7368	815.5685425	3.442003	14.76589	4.42021513	4.250889778	0.010497405	8.549088478	170.9818	9.026443481	8.682415009	0.035208989	28.6663704	573.3273926	24	19573.64502	
	14	470.6894	813.758728	3.436928	14.77494	4.24536419	4.089040756	0.010097744	8.219484329	197.2676	9.07722187	8.743954659	0.035458554	28.8547497	692.5139771	24	19530.20947	
	15	474.338	820.0663452	3.403888	14.83383	4.17464447	4.059164047	0.010023966	8.216067314	180.7535	9.280650139	9.02768898	0.03660915	30.0009193	660.0202026	24	19681.59229	
	16	477.2199	825.0487061	3.439344	14.77063	3.97540808	3.827805758	0.009452629	7.802806854	187.2674	9.53938961	9.183830261	0.037242331	30.7296257	737.5109863	24	19801.16895	
	17	469.5933	811.8637085	3.459122	14.73539	3.77508759	3.61206007	0.008919856	7.252571106	174.0617	9.319991112	8.919768333	0.036171518	29.3689995	704.8560181	24	19484.729	
	18	457.0744	790.2196655	3.457214	14.73879	3.66109538	3.504923344	0.008655287	6.842285156	164.2148	8.758935928	8.38825798	0.034016114	26.883009	645.1921997	24	18965.27197	
	19	461.8818	798.5315552	3.462302	14.72973	4.79068136	4.580490589	0.011311352	9.035424232	216.8502	8.322999001	7.958235741	0.03227229	25.7713051	618.5112915	24	19164.75732	
	20	461.374	797.652771	3.436228	14.77619	4.4684186	4.303321838	0.010626899	8.490441322	203.7706	8.50153923	8.191221237	0.033217099	26.4945793	635.869873	24	19143.6665	

Unit 4 - CEMS Data

	21	465.6073	804.9721069	3.450537	14.75067	4.72152328	4.529778004	0.011186125	9.006198883	216.1488	8.520298958	8.175051689	0.03315153	26.6877117	640.505127	24	19319.33057
	22	461.8386	798.4555054	3.426899	14.7928	4.5605607	4.405827522	0.010880034	8.682674408	199.7015	8.394493103	8.109016418	0.032883726	26.2437172	603.6054688	24	19162.93213
	23	459.805	794.9408569	3.46103	14.73199	4.73614883	4.530383587	0.011187625	8.895029068	213.4807	8.191996574	7.836591244	0.031778987	25.2643661	606.3447876	24	19078.58057
	24	462.7858	800.0941772	3.456071	14.74082	4.5593586	4.36711216	0.010784429	8.629506111	207.1081	8.49215889	8.135005951	0.032989133	26.3945618	633.4694824	24	19202.26025
	25	464.2034	802.545105	3.455816	14.74127	4.45347548	4.265798092	0.010534245	8.454526901	202.9086	8.662589073	8.299064636	0.033654418	27.0109749	648.2634277	24	19261.08252
	26	467.291	807.883667	3.479982	14.69821	4.9795537	4.736554146	0.01169675	9.459240913	227.0218	8.502810478	8.089157104	0.032803204	26.5038033	636.0913086	24	19389.20801
	27	475.2662	821.6716919	3.447229	14.75658	5.9534936	5.717988491	0.014120371	11.60430431	278.5033	8.642876625	8.300672531	0.033660945	27.6584759	663.8034058	24	19720.12061
	28	471.7775	812.1971436	3.414203	14.84741	6.01507473	5.862748146	0.014484129	11.76415157	282.3396	8.534130096	8.318656921	0.033747703	27.4139996	657.9359741	24	19492.73145
	29	473.7751	814.3426514	3.431587	14.82849	5.68560457	5.525295734	0.013652358	11.11966228	266.8719	8.69836235	8.452417374	0.034295969	27.9292965	670.3031006	24	19544.22363
	30	473.7667	814.3285522	3.442142	14.80981	5.31723833	5.150076866	0.012725238	10.37007904	248.8819	8.902498245	8.624884605	0.034995757	28.4985714	683.9656982	24	19543.88525
	31	470.2471	808.2796021	3.477563	14.74715	5.05221033	4.842425823	0.011965075	9.677286148	232.2549	8.674354553	8.320077896	0.033758983	27.2818489	654.7644043	24	19398.71045
Jan '06	01	477.8221	821.2983398	3.49677	14.71317	5.02899885	4.795412064	0.011848892	9.734012604	233.6163	8.733020782	8.32843399	0.033792898	27.7565994	666.1583862	24	19711.16016
	02	478.742	822.8803101	3.540777	14.63528	4.81389284	4.532246113	0.011198654	9.218297958	221.2392	8.631748199	8.13078022	0.032990906	27.1474075	651.5377808	24	19749.12744
	03	484.7967	833.2878418	3.529393	14.65543	5.89721346	5.574261189	0.013773333	11.47752476	275.4606	8.456228256	7.990045071	0.032419868	27.0151043	648.3624878	24	19998.9082
	04	487.6097	838.123291	3.479787	14.74322	6.73956108	6.458700657	0.015958669	13.37877846	307.7119	8.344449043	7.996108055	0.03244447	27.1945782	625.4752808	24	20114.95898
	05	484.8352	833.3538208	3.494163	14.71779	6.94428587	6.627270222	0.016375205	13.64860821	327.5666	8.131105423	7.760950565	0.031490311	26.2522373	630.0537109	24	20000.4917
	06	483.1265	830.4165649	3.506499	14.69596	6.37575674	6.062857151	0.014980604	12.44584179	298.7002	8.327768326	7.919930458	0.032135397	26.6922588	640.6141968	24	19929.99756
	07	488.1645	839.0770874	3.52666	14.66029	6.56399488	6.204582214	0.015330791	12.86557102	308.7737	8.390089989	7.934096813	0.032192875	27.0164661	648.3952026	24	20137.8501
	08	489.7499	841.8016968	3.519347	14.67324	6.86034107	6.500378132	0.016061662	13.52175045	324.522	8.340010643	7.902431011	0.032064375	26.9937592	647.8502197	24	20203.24072
	09	488.044	838.8692017	3.508471	14.69248	6.95271158	6.608139038	0.016327932	13.69677925	328.7227	8.3730793	7.958168507	0.032290526	27.0913124	650.1915283	24	20132.86084
	10	484.1185	832.1213989	3.483351	14.73691	6.8555727	6.562438965	0.016215021	13.49666691	323.92	8.510601997	8.147473335	0.033058647	27.5091743	660.2202148	24	19970.91357
	11	488.8353	840.229248	3.472154	14.75672	6.46332884	6.206755638	0.01533615	12.87868595	283.3311	8.663211823	8.319633484	0.03375718	28.3537178	623.7817993	24	20165.50195
	12	484.0742	832.0458984	3.489818	14.72547	6.5375495	6.246584415	0.015434579	12.84597492	308.3034	8.385004044	8.012657166	0.032511629	27.0541	649.2984009	24	19969.10156
	13	480.879	826.5540771	3.490602	14.72408	5.92424154	5.659576893	0.013984142	11.56371212	277.5291	8.63068676	8.24521637	0.033455245	27.6577091	663.7849731	24	19837.29785
	14	482.8404	829.9255981	3.495115	14.7161	5.7633481	5.498231888	0.013585479	11.27717876	270.6523	8.664179802	8.266760826	0.03354267	27.8400497	668.1611938	24	19918.21436
	15	492.1783	845.9760132	3.492128	14.72139	6.05142832	5.778555393	0.01427812	12.08060837	289.9346	8.813466072	8.416166306	0.034148872	28.8904991	693.3720093	24	20303.42432
	16	497.4702	855.0708618	3.486321	14.73166	6.39463043	6.11791563	0.015116652	12.89147663	270.721	8.868611336	8.481698036	0.034414772	29.3707943	616.7866821	24	20521.70068
	17	488.3109	839.3272705	3.462619	14.77359	6.27352953	6.041312695	0.014927375	12.52819538	300.6767	8.827299118	8.500789642	0.034492239	28.9565258	694.956604	24	20143.85449
	18	481.5356	827.6825562	3.478201	14.74603	6.20469046	5.945940495	0.014691712	12.16201687	291.8884	8.62952137	8.275659561	0.033578761	27.7940083	667.0562134	24	19864.38135
	19	489.9953	842.2219238	3.497216	14.71239	6.30914164	6.015690327	0.01486405	12.51935387	300.4645	8.828251839	8.417759895	0.034155346	28.7680168	690.432373	24	20213.32617
	20	491.805	845.3338623	3.48316	14.73725	6.34507227	6.075426579	0.015011658	12.68594551	304.4627	8.917760849	8.536592484	0.034637515	29.2874126	702.8978882	24	20288.0127
	21	386.0526	758.2807617	3.130414	13.62149	6.44877625	6.825341702	0.0168646	12.28674316	258.0216	8.223949432	8.479233742	0.034404781	26.9150295	565.2156372	20.73889	15725.90107
	22	489.1376	840.7486572	3.483924	14.7359	6.13886929	5.875395298	0.0145174	12.20687103	292.9649	8.706947327	8.334105492	0.033815913	28.4330292	682.3927002	24	20177.96777
	23	490.5027	843.0956421	3.484751	14.73444	6.34618616	6.072332859	0.015004008	12.65025043	303.606	8.710762024	8.33527565	0.033820651	28.5186501	684.4476318	24	20234.29541
	24	487.8463	838.5292969	3.403818	14.87761	5.99313879	5.873037815	0.014511577	12.15264988	267.3583	8.788087845	8.609138489	0.034931876	29.2562542	643.6375732	24	20124.70313
	25	485.6731	834.7940674	3.448565	14.79845	5.99912357	5.798503399	0.014327421	11.96326065	287.1183	8.729523659	8.444280624	0.034262944	28.6042461	686.5018921	24	20035.05762
	26	485.7721	834.9639893	3.4658	14.76796	6.35731411	6.117440224	0.015115467	12.62132931	302.9119	8.503129005	8.181233406	0.033195615	27.7177372	665.225708	24	20039.13574
	27	489.64	841.612854	3.457913	14.78191	6.13696194	5.917496681	0.014621433	12.30817509	295.3962	8.687392235	8.377804756	0.033993229	28.6096249	686.6309814	24	20198.7085
	28	494.4733	849.9190063	3.471523	14.75784	6.35572481	6.104431629	0.015083329	12.81999207	307.6798	8.600268364	8.26113224	0.033519823	28.4928417	683.828186	24	20398.05615
	29	488.549	839.7381592	3.476483	14.74906	6.19069862	5.936722755	0.014668938	12.31867123	295.6481	8.470696449	8.125728607	0.03297041	27.6905785	664.5739136	24	20153.71582
	30	478.9427	823.2249756	3.452127	14.79215	5.84013796	5.642431736	0.013941779	11.47255039	275.3412	8.572764397	8.281442642	0.033602238	27.6607418	663.8577881	24	19757.39941
	31	478.3163	822.1483765	3.443414	14.80756	5.9700284	5.780990601	0.014284146	11.74435043	281.8644	8.697885513	8.423221588	0.034177508	28.0999794	674.3994751	24	19731.56104
Total		340,766	576,496							152,854					435,214	17,302	13,751,278
Average		468.7285	792.9795301	3.418246	14.7585	4.71122527	4.851118973	0.01191918	8.926255689	210.2532	8.073410916	7.844168046	0.031632746	25.1913311	598.6444274	23.66857	18811.59744
Ann Avg.		170,383								76,427					217,607	8650.862	6,875,639

6740.822416 mmscf/yr