# PETITION FOR VARIANCE
# BEFORE THE HEARING BOARD OF THE
# SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT



PETITIONER: Eco Services Operations Corp.

CASE NO: 6258-2
FACILITY ID: 180908

FACILITY ADDRESS: 20720 S. Wilmington Avenue. Long Beach, CA 90810

1. TYPE OF VARIANCE REQUESTED (more than one box may be checked; see Attachment A, Item 1, before selecting)

☐ INTERIM ☒ SHORT ☐ REGULAR ☒ EMERGENCY ☐ EX PARTE EMERGENCY

2. CONTACT: Name, title, company (if different than Petitioner), address, and phone number of persons authorized to receive notices regarding this Petition (no more than two authorized persons).

Sandeep Som
Operations Manager (Interim Plant Manager)
20720 S. Wilmington Ave.
Long Beach, CA 90810
310-885-6788
Sandeep.Som@eco-services.com

Aron Potash
Latham & Watkins LLP
355 S. Grand Avenue, Suite 100
Los Angeles, CA 90071-1560
213-485-1234
aron.potash@lw.com

3. RECLAIM Permit ☒ Yes ☐ No Title V Permit ☒ Yes ☐ No

4. **GOOD CAUSE: Explain** why your petition was not filed in sufficient time to issue the required public notice. (Required only for Emergency and Interim Variances; see Attachment A, Item 4)

Good cause exists to grant the emergency variance petition. If the Board does not grant the emergency variance petition, the Petitioner (Eco-Services) would be, through no fault of its own, in violation of District Rules and Facility Permit conditions requiring it to operate SO2 and NOx stack emissions analyzers because both such analyzers unexpectedly failed and are currently being repaired by the Petitioner (Eco-Services).

The circumstances leading to the potential violation of District Rules and Facility Permit conditions, including Rule 2011(c)(2)(A) and Rule 2012(c)(2)(A), could not reasonably have been avoided by Eco-Services because an SO2 analyzer and NOx analyzer unexpectedly failed calibration. Aware of the 96-hour repair period in Rules 2011 and 2012, the Petitioner immediately took action to troubleshoot, attempt to repair, and address the cause of the analyzer failure, as further described herein.

An SO2 analyzer at the facility (located at Stack S151 at the outlet of Scrubber C148, which controls emissions from the facility's Sulfuric Acid Plant No. 4 (Process 1, System 1)) unexpectedly failed calibration at approximately 5:17 a.m. on June 22, 2025. The analyzer was passing the calibration based on the analyzer display reading, but the value displayed on the continuous emissions monitoring system ("CEMS") data acquisition system ("CEMDAS") was 100 ppm off the actual value. The Petitioner could not have reasonably anticipated the failure of the analyzer, and despite extensive efforts by the Petitioner, the Petitioner has been unable to repair the analyzer to avoid a potential violation.

Beginning immediately after the failed calibrations, the Petitioner's instrumentation and electrical (I&E) technicians immediately initiated attempts to diagnose and repair the analyzers, including multiple attempts at calibration, analyzer component checks, calibration gas cylinder replacements and programmable logic controller ("PLC")/communication equipment diagnostics. The Petitioner made unsuccessful attempts to obtain an SCAQMD-approved temporary SO2 analyzer during the diagnostic and repair period. The Petitioner also received remote support from third-party equipment service technicians from ESC Spectrum and CEMTEK

KVB-Enertec, but the remote support did not resolve the issue.

The Petitioner's I&E technician cleaned the I/O board on the SO2 analyzer in an attempt to repair that analyzer. This step resulted in an SO2 High passing calibration on June 24, 2025 at 2:52 pm. Unfortunately, for reasons currently unknown to Petitioner, the NOx Zero and SO2 Low Span failed calibration at that time. Petitioner noticed an elevated drift for the NOx analyzer during calibration on June 23rd, although the data remained valid until the calibration failed on June 24th. There had been no previous issues with the NOx calibration. This was followed with purging of the system and continuous calibrations with no progress on the new issue. The ESC technician, based in Indianapolis, arrived onsite on June 25, 2025 to continue troubleshooting. The Petitioner could not have reasonably anticipated the failure of the NOx analyzer, and despite extensive efforts by the Petitioner, the Petitioner has been unable to repair the NOx analyzer to avoid a potential violation.

The Petitioner has taken additional steps to ensure that SO2 and NOx emissions are adequately monitored and controlled in the absence of the analyzer. Specifically, the Petitioner is continuously monitoring the exhaust gas flow rate and will continue to do so during the period when the variance is in effect. As to SO2, the Petitioner is also continuously monitoring the pH of the scrubber solution in Scrubber C148, based on the strong correlation between scrubber pH and SO2 emissions control. As shown in the attached figure (Exhibit 1), over six years of data at the facility demonstrates that when scrubber pH exceeds 7 s.u., SOx concentrations are almost always below 10 ppm. Petitioner will continue to monitor the scrubber solution pH to ensure it remains at or above 7 s.u. during the variance period.

To monitor NOx emissions, the Petitioner will monitor the air-fuel ratio in the combustion equipment (furnace) venting through stack S151. The Petitioner is controlling the air-gas ratio within a narrow band to minimize NOx emissions associated with combustion. As shown in the attached figure (Exhibit 2), when maintaining the air-gas ratio within this band, NOx emissions remain relatively constant.

The Petitioner respectfully requests that this short/emergency variance petition be granted as good cause exists for the reasons stated herein. If the Petitioner does not receive a short/emergency variance to temporarily operate without its SO2 and NOx analyzers while repairs are made, there would be an unreasonable and unavoidable adverse impact to the Petitioner as it would be forced to shut down, which would disrupt gasoline production at our customers' refineries, including those local refineries owned and operated by Chevron Corporation and Marathon Petroleum Corporation, and could result in a subsequent disruption in gasoline distribution to consumers. This shutdown would be without a corresponding benefit in reducing air contaminants as there will be no excess emissions if the facility operates under variance coverage while adhering to the conditions proposed in this petition. Without a variance, the Petitioner would suffer significant economic losses through no fault of its own because shutting down the facility would result in a breach of longstanding contracts with various customers, who will in turn likely suffer their own economic losses. These economic losses are explained in further detail in response to Question #17, below.

5. Briefly describe the type of business and processes at your facility.

The Eco Services' Dominguez facility is a sulfuric acid production and regeneration facility. Our sulfuric acid products are used by petroleum refineries, including refineries within the SCAQMD footprint, to produce alkylate, a key blending stock for cleaner burning gasoline.

6. List the equipment and/or activity(s) that are the subject of this petition (see Attachment A, Item 6, Example #1). **Attach copies of the Permit(s) to Construct and/or Permit(s) to Operate for the subject equipment. For RECLAIM or Title V facilities, attach *only* the relevant sections of the Facility Permit showing the equipment or process and conditions that are subject to this petition. You must bring the entire Facility Permit to the hearing.**

| Equipment/Activity | Application/ Permit No. | RECLAIM Device No. | Date Application/Plan Denied (if relevant)* |
|---|---|---|---|
| SO2 analyzer located at Stack S151 downstream of Scrubber C148 | 180908 | | |

[YOU MAY ATTACH ADDITIONAL PAGES IF NECESSARY]

| | | | |
|---|---|---|---|
| NOx analyzer located at Stack S151 downstream of Scrubber C148 | 180908 | | |
| | | | |

*Attach copy of denial letter

7. Briefly describe the activity or equipment, and why it is necessary to the operation of your business. A schematic or diagram may be attached, in addition to the descriptive text.

The stack SO2 analyzer is a necessary component of the sulfur dioxide continuous emissions monitoring required by Rule 2011 and RECLAIM Permit No. 180908, dated December 9th, 2022 ("Facility Permit"). The SO2 analyzer at issue monitors emissions from Stack S151, which vents emissions from the facility's Sulfuric Acid Plant No. 4 (Process 1, System 1) after being controlled by Scrubber C148. The SO2 analyzer is located after Scrubber C148 at Stack S151. The NOx analyzer is a necessary component of the nitrogen oxide continuous emissions monitoring required by Rule 2012 and the Facility Permit. The NOx analyzer at issue monitors emissions from Stack S151, which vents emissions from the facility's Sulfuric Acid Plant No. 4 (Process 1, System 1) after being controlled by Scrubber C148. The NOx analyzer is located after Scrubber C148 at Stack S151.

The relevant sections of the Facility Permit, copies of which are attached to this Petition as Exhibit 3, further identify and describe this equipment.

8. Is there a regular maintenance and/or inspection schedule for this equipment? Yes ☒ No ☐

If yes, how often: Daily

Date of last maintenance and/or inspection: June 25, 2025

Describe the maintenance and/or inspection that was performed.

Petitioner conducts daily calibration on the SO2 and NOx analyzers at issue to verify proper operation. In addition to daily calibrations, the Petitioner performs routine inspections and maintenance on the SO2 and NOx CEMS, including the analyzers. Further, ESC Spectrum performs on-site quality assurance/quality control and preventative maintenance on the SO2 and NOx CEMS, including the analyzers.

9. List all District rules, and/or permit conditions [indicating the specific section(s) and subsection(s)] from which you are seeking variance relief (if requesting variance from Rule 401 or permit condition, see Attachment A). Briefly explain how you are or will be in violation of each rule or condition (see Attachment A, Item 9, Example #2).

| Rule | Explanation |
|---|---|
| Rule 2011(c)(2)(A) | Rule 2011(c)(2)(A) requires that the Facility Permit holder of a major SOx source install, maintain, and operate a direct monitoring device for each major SOx source to continuously measure the concentration of SOx emissions or fuel sulfur content. While the facility is actively working on repair, it will likely be unable to meet the requirements of Rule 2011 for a period exceeding 96 hours because the SO2 analyzer failed and repair efforts will extend beyond this timeframe. |

| | |
|---|---|
| Rule 2012(c)(2)(A) | Rule 2012(c)(2)(A) requires that the Facility Permit holder of a major NOx source install, maintain, and operate a direct monitoring device for each major NOx source to continuously measure the concentration of NOx emissions or fuel nitrogen content. While the facility is actively working on repair, it will likely be unable to meet the requirements of Rule 2012 for a period exceeding 96 hours because the NOx analyzer failed and repair efforts will extend beyond this timeframe. |
| Section F(III), Condition D(I) | Section F(III), Condition D(1) requires that Petitioner install, maintain, and operate a monitoring device or an approved alternative monitoring device for each major SOx source to continuously measure the concentration of SOx emissions or fuel sulfur content and all other applicable variables specified in Rule 2011, Table 2011-1 and Rule 2011, Appendix A, Table 2-A to determine the SOx emissions rate from each source. The Facility will not be able to operate the SOx analyzer until it has been repaired, so emissions from a SOx major source (Furnace D1, a device that is part of Sulfuric Acid Plant No. 4) cannot be monitored. |
| District Rules 203(b), 2004(f)(1) and 3002(c)(1) | District Rule 203(b) states that permitted equipment "shall not be operated contrary to the conditions specified in the permit to operate." Similarly, RECLAIM Rule 2004(f)(1) requires compliance with all facility permit conditions. In addition, Rule 3002(c)(1) requires compliance with Title V permit conditions. The Facility Permit includes conditions requiring operation of the SO2 analyzer. The Facility will not be able to operate the analyzer until it has been repaired. |
| Administrative Condition No. 2 (Section E) | The Facility Permit includes Administrative Condition No. 2, which requires that the operator maintain all equipment and ensure proper operation of the equipment. The Facility will not be able to operate the SO2 or NOx analyzers in compliance with all applicable rules and permit conditions while the repair is being performed. |
| Condition No. S42.1 (Section D) | Facility Permit Condition No. S42.1 requires the SO2 analyzer at Stack S151 to show compliance with the Plant 4 SO2 emissions limit of 3.5 lbs./ton of sulfuric acid produced on a 3-hour rolling average. The Facility will not be able to operate the SO2 analyzer until it has been repaired. |
| Condition No. D82.3 (Section D) | Facility Permit Condition No. D82.3 requires the operator to install and maintain a CEMS at Stack S151 to demonstrate compliance with Condition No. S42.1. The condition also requires the CEMS to remain in operation at all times. The CEMS cannot be used to demonstrate compliance with Condition No. S42.1 while the analyzer is being repaired. |

| | |
|---|---|
| Section F.I (RECLAIM Monitoring and Source Testing Requirements) | Facility Permit Section F.I requires the operator to install and maintain a monitoring device or an approved monitoring device for each major NOx source to continuously measure the concentration of NOx emissions and all other applicable variables specified in Rule 2012. The Facility will not be able to operate the NOx analyzer until it has been repaired, so emissions from the NOx major source (Furnace D1, a device that is part of Sulfuric Acid Plant No. 4) cannot be directly monitored during the time the analyzer is out of service. |

10. Are the equipment or activities subject to this request currently under variance coverage? Yes ☐ No ☒

| Case No. | Date of Action | Final Compliance Date | Explanation |
|---|---|---|---|
| | | | |
| | | | |

11. Are any other equipment or activities at this location currently (or within the last six months) under variance coverage? Yes ☐ No ☒

| Case No. | Date of Action | Final Compliance Date | Explanation |
|---|---|---|---|
| | | | |
| | | | |

12. Were you issued any Notice(s) of Violation or Notice(s) to Comply concerning this equipment or activity within the past year? Yes ☒ No ☐

If yes, you must attach a copy of each notice.

Please find attached as Exhibit 4 a copy of Notice of Violation P73837, issued November 8, 2024. Notice of Violation P73837 alleges a failure to complete SOx RATA testing in a timely manner, which was promptly addressed.

13. Have you received any complaints from the public regarding the operation of the subject equipment or activity within the last six months? Yes ☐ No ☒

If yes, you should be prepared to present details at the hearing.

14. Explain why it is beyond your reasonable control to comply with the rule(s) and/or permit condition(s). Provide specific event(s) and date(s) of occurrence(s), if applicable.

As explained above, the circumstances leading to the potential violation of the above-described rules and Facility Permit conditions are beyond the Petitioner's reasonable control because the SO2 analyzer at the facility unexpectedly failed calibration at approximately 5:17 a.m. on 6/22/25 and the NOX analyzer at the facility unexpectedly failed calibration at approximately 2:23 p.m. on 6/24/25. Since the failed calibration, the Petitioner has made various attempts at repairing the analyzers to bring it back online within the timeframe allowed by Rule 2011 and Rule 2012. Those attempts include efforts by the Petitioner's I&E technicians as well as its third-party equipment service technician, ESC Spectrum and CEMTEK KBV-Enertec.

15. When and how did you first become aware that you would not be in compliance with the rule(s) and/or permit condition(s)? Provide specific event(s) and date(s) of occurrence(s).

The SO2 analyzer failed its calibration on June 22, 2025, at approximately 5:17 a.m. On June 24, 2025, the NOX analyzer failed its calibration at approximately 2:23 p.m. After internal attempts at repair beginning on 22, 2025, the facility's third-party technician arrived onsite at approximately 2:00 p.m. on June 25, 2025, and attempted a repair of both analyzers. It became clear on June 25, 2025, that onsite repair would not be possible in the required timeframe, and Petitioner determined it may be out of compliance with Rule 2011(c)(2)(A) and Rule 2012(c)(2)(A).

16. List date(s) and action(s) you have taken since that time to achieve compliance. That the Petition Form HB-V, and any related instructions, include requirement that the Petitioner include a timeline in suitable, chronological format to address the events, dates, and actions called for by Questions 15 and 16, including the dates of communication with the South Coast AQMD to notify them of the occurrence(s) giving rise to the requested variance.

**6/22/2025**

- At 5:17am, the Stack S151 SO2 Analyzer failed calibration.
- Facility I&E technician immediately began troubleshooting the analyzer.
- Facility staff called local CEMS service provider CEMTEK who gave over the phone support to site personnel. A potential for sample tube leak was investigated and ruled out.

**6/23/2025**

- Facility I&E technician contacted ESC Spectrum (ESC) for technical support and forwarded the calibration results while double checking tubing and analyzer functionality.
- ESC assisted with calibration and troubleshooting assistance.
- ESC hypothesized that that the output in the analyzer might be failing or it could be an I/O board issue.

**6/24/2025**

- Facility I&E technician continued working with ESC to determine if the issue is related to the output signal or the I/O card.
- Facility I&E technician replaced calibration gas cylinder.
- Facility staff emailed District (reclaim_q&a@aqmd.gov, Marissa Osaki, Ryan Maxwell and Ryan Richards) with explanation of the situation, notification that variance filing will be pursued if needed.
- RECLAIM data reporting directed facility staff to Ryan Maxwell and Fredric Chung of Compliance & Enforcement.
- 2:52 pm High Span SO2 Analyzer passed Cal after the I/O Card was removed and cleaned; unfortunately for reasons unknown the NOx Zero & SO2 Low Span failed calibration at this time.
- ESC deployed technician to Facility for further troubleshooting.

**6/25/2025**

- ESC technical specialist arrived on site at approximately 2:00 p.m. to assist in troubleshooting the analyzers, including output and hardware changes.

[YOU MAY ATTACH ADDITIONAL PAGES IF NECESSARY]

17. What would be the harm to your business during **and/or after** the period of the variance if the variance were not granted?

Economic losses: The facility would suffer a loss in sales of approximately $200,000 per day if the variance were not granted.
Number of employees laid off (if any): At least 10 employees (if there is an extended shutdown period because the variance was not granted).

Provide detailed information regarding economic losses, if any, (anticipated business closure, breach of contracts, hardship on customers, layoffs, and/or similar impacts).

As explained above, the facility's product is used by various refineries, including nearby refineries owned and operated by Chevron Corporation and Marathon Petroleum Corporation, to produce alkylate for cleaner burning gasoline. Disruptions to the supply of the facility's product will affect gasoline prices and availability as the product is needed by refineries to produce alkylate. Eco Services' failure to supply its product to its customers is a breach of contract, and estimated losses for Eco Services are approximately $200,000 per day. The economic loss to the Chevron Corporation and Marathon Petroleum Corporation refineries is estimated to be over $1,000,000 per day per refinery.

18. Can you curtail or terminate operations in lieu of, or in addition to, obtaining a variance? Please explain.

The Petitioner has considered curtailment or termination of operations, and although the facility could terminate operations if directed by SCAQMD, it would lead to significant economic losses without any air emissions benefit. Specifically, as noted above, the plant will ensure there are no excess SOx emissions by utilizing scrubber pH as a control parameter such that there would not be a corresponding benefit in reducing air contaminants in the event of curtailment or closing. Further, the plant will ensure that there are no excess NOx emissions by maintaining the air-fuel ratio in the equipment venting to S151 within a narrow range. Please see the response to Question #4 above. Also, the facility and its customers would suffer significant economic loss as a result of any shutdown. Further, we expect that local gasoline customers will also be negatively impacted by a cessation of production at the facility, as we understand that shutting down production at our facility could reduce gasoline supply and increase prices.

19. Estimate excess emissions, if any, on a daily basis, including, if applicable, excess opacity (the percentage of total opacity above 20% during the variance period). If the variance will result in no excess emissions, insert "N/A" here and skip to No. 20.

| Pollutant | (A) Total Estimated Excess Emissions (lbs/day) | (B) Reduction Due to Mitigation (lbs/day) | (C)* Net Emissions After Mitigation (lbs/day) |
|---|---|---|---|
| N/A | | | |
| | | | |
| | | | |

* Column A minus Column B = Column C

Excess Opacity: _____ %

[YOU MAY ATTACH ADDITIONAL PAGES IF NECESSARY]

20. Show calculations used to estimate quantities in No. 19 or explain why there will be no excess emissions.

Eco Services does not expect any excess emissions. While the facility's stack analyzers are being repaired, the Petitioner is requesting a variance from the SO2 continuous emissions monitoring provision of Rule 2011 and permit conditions requiring operation of the SO2 analyzer as well as the NOx continuous emissions monitoring provision of Rule 2012 and permit condition requiring operation of the NOx analyzer. During the stack analyzer downtime, the facility will estimate SO2 and NOx emissions using approved SCAQMD data substitution methods pursuant to Rule 2011, Appendix A, Chapter 2 (Major Sources). As such, Eco Services does not expect any excess emissions during the variance period.

The facility operates an SO2 analyzer and a NOx analyzer. The facility's caustic scrubber effectively controls SO2 using scrubber pH as a control parameter. As discussed above in response to Question #4, the facility has established a strong correlation between scrubber pH and SO2 emissions. Based on this correlation and its experience, the Petitioner is continuously monitoring the pH of the scrubber solution to ensure that it is at or above 7 s.u. Petitioner is also minimizing NOx emissions associated with combustion by maintaining the air-fuel ratio in a narrow band.

21. Explain how you plan to reduce (mitigate) excess emissions during the variance period to the maximum extent feasible, or why reductions are not feasible.

Not applicable (there will be no excess emissions).

Nonetheless, we will apply RECLAIM missing data procedures pursuant to Rule 2011, Appendix A, Chapter 2 (Major Sources) and Rule 2012, Appendix A, Chapter 2 (Major Sources). As such, we will be overreporting actual emissions and be obligated to than we would if our analyzer were functioning, which will decrease the credit supply in the market.

22. How do you plan to monitor or quantify emission levels from the equipment or activity(s) during the variance period, and to make such records available to the district? **Any proposed monitoring does not relieve RECLAIM facilities from applicable missing data requirements.**

We will quantify and report emissions using RECLAIM missing data procedures pursuant to Rule 2011, Appendix A, Chapter 2 (Major Sources) and Rule 2012, Appendix A, Chapter 2. In addition, as discussed above, Petitioner is continuously monitoring exhaust gas flow rate from Scrubber C148. The Petitioner is also continuously monitoring the pH of the scrubber solution in Scrubber C148. There is a strong correlation between scrubber pH and SO2 emissions control. As shown in the attached figure (Exhibit 1), over six years of data at the facility demonstrates this strong correlation: when scrubber pH exceeds 7 s.u., SOx concentrations are almost always below 10 ppm. Petitioner will continue to monitor the scrubber solution pH to ensure it remains at or above 7 s.u. on a one hour rolling average basis. Petitioner is also minimizing NOx emissions associated with combustion by maintaining the air-fuel ratio in a narrow band. As shown in Exhibit 2, the ratio almost always ranges between 6 and 10, and when this ratio is maintained NOx concentrations are almost always between 10 and 20 ppm.

23. How do you intend to achieve compliance with the rule(s) and/or permit condition(s)? Include a detailed description of any equipment to be installed, modifications or process changes to be made, permit conditions to be amended, etc., dates by which the actions will be completed, and an estimate of total costs.

The facility will return to compliance with Rule 2011, Rule 2012, and (C)(iii) when the analyzers are repaired. At this time, we are uncertain how long this will take.

[YOU MAY ATTACH ADDITIONAL PAGES IF NECESSARY]

The Petitioner proposes that this matter be heard on the consent calendar, and the Petitioner intends to contact District counsel to discuss the preparation of consent calendar documents. If the agreement is reached with the district as to consent calendar documents, the Petitioner intends to work with District counsel to submit such documents to the Hearing Board.

Petitioner proposes the following variance conditions:

1. The petitioner shall maintain the scrubber solution pH in Scrubber C148 to ensure it remains at or above 7 s.u. on a one hour rolling average basis during the variance period.
2. Petitioner shall notify South Coast AQMD within 60 minutes via 1-800-CUT-SMOG if Scrubber C148 pH levels fall below 7 s. u., based on a one-hour rolling average, during the variance period.
3. The petitioner shall keep records of scrubber solution pH in Scrubber C148 during the variance period and provide them to the district upon request
4. The petitioner shall conduct and document daily system inspections to confirm that the pH analyzer is operating and that continuous feedback is received during the variance period.
5. The petitioner shall control the air-fuel ratio within the range of 6 to 10 over a 24 hour rolling basis in order toto minimize NOx emissions vented to stack S151.
6. The petitioner shall maintain records showing air-fuel ratio and make such records available to the South Coast AQMD upon request.
7. The petitioner shall report RECLAIM SOx and NOx emissions using the Missing Data Procedures outlined in Rule 2011, Appendix A, Chapter 2, and Rule 2012, Appendix A, Chapter 2, respectively.
8. The petitioner shall immediately notify the South Coast AQMD of any complaints received during the variance period by calling 1-800-CUT-SMOG.
9. In the event that pH in Scrubber C 148 drops below 7 s.u. on a one hour rolling average basis during the variance period, Petitioner shall notify the district within 60 minutes via 1-800-CUT-SMOG.
10. The petitioner shall achieve final compliance no later than July 25, 2025.
11. The petitioner shall notify the Clerk of the Hearing Board (ClerkofBoard@aqmd.gov) and District by calling 1-800-CUT-SMOG within twenty-four (24) hours after achieving final compliance.

Petitioner shall pay all applicable fees, including excess emissions fees if applicable, to the Clerk of the Hearing Board within fifteen days upon notification in writing that the fees are due or the variance shall be invalidated pursuant to Rule 303 — Hearing Board Fees, subsection k.

24. State the date you are requesting the variance to begin June 26, 2025; and the date by which you expect to achieve final compliance: Eco Services expects the SO2 and NOx analyzers to return to normal operation within 30 days.

If the regular variance is to extend beyond one year, you **must** include a **Schedule of Increments of Progress**, specifying dates or time increments for steps needed to achieve compliance. See District Rule 102 for definition of Increments of Progress (see Attachment A, Item 24, Example #3).

List Increments of Progress here:

25. List the names of any District personnel with whom facility representatives have had contact concerning this variance petition or any related Notice of Violation or Notice to Comply.

On June 24, 2025, we emailed Fredric Chung, Marissa Osaki, Ryan Maxwell, and Ryan Richards regarding the analyzer outage, describing our intent to file this variance petition..

If the petition was completed by someone other than the petitioner, please provide their name and title below.

Name | Company | Title

The undersigned, under penalty of perjury, states that the above petition, including attachments and the items therein set forth, is true and correct.

Executed on JUNE 25, 2025, at ECOSERVICES LONG BEACH, California

Signature | SANDEEP SOM Print Name

Title: Operations Manager (Interim Plant Manager)

26. SMALL BUSINESS and TABLE III SCHEDULE A FEES: To be eligible for reduced fees for small businesses, individuals, or entities meeting small business gross receipts criterion [see District Rule 303(h)], you must complete the following:

***Declaration Re Reduced Fee Eligibility***

1. The petitioner is
   a) ☐ an individual, or
   b) ☐ an officer, partner or owner of the petitioner herein, or a duly authorized agent of the petitioner authorized to make the representations set forth herein.

***If you selected 1a, above, skip item 2.***

2. The petitioner is
   a) ☐ a business that meets the following definition of Small Business as set forth in District Rule 102:
   SMALL BUSINESS means a business which is independently owned and operated and meets the following criteria, or if affiliated with another concern, the combined activities of both concerns shall meet these criteria:
   (a) the number of employees is 10 or less; **AND**
   (b) the total gross annual receipts are $500,000 or less **or**
   (iii) the facility is a not-for-profit training center.

   **-OR-**

   b) ☐ an entity with total gross annual receipts of $500,000 or less.

3. Therefore, I believe the petitioner qualifies for reduced fees for purpose of filing fees and excess emission fee calculations, in accordance with Rule 303(h).

I declare under penalty of perjury that the foregoing is true and correct.

Executed on_____, at _____, California

Signature | Print Name

Title _____

(Petition for Variance: Revised February 22, 2011)

[YOU MAY ATTACH ADDITIONAL PAGES IF NECESSARY]

**Exhibit 1**

***Correlation Between Tailgas Scrubber pH and SO2 Concentration***

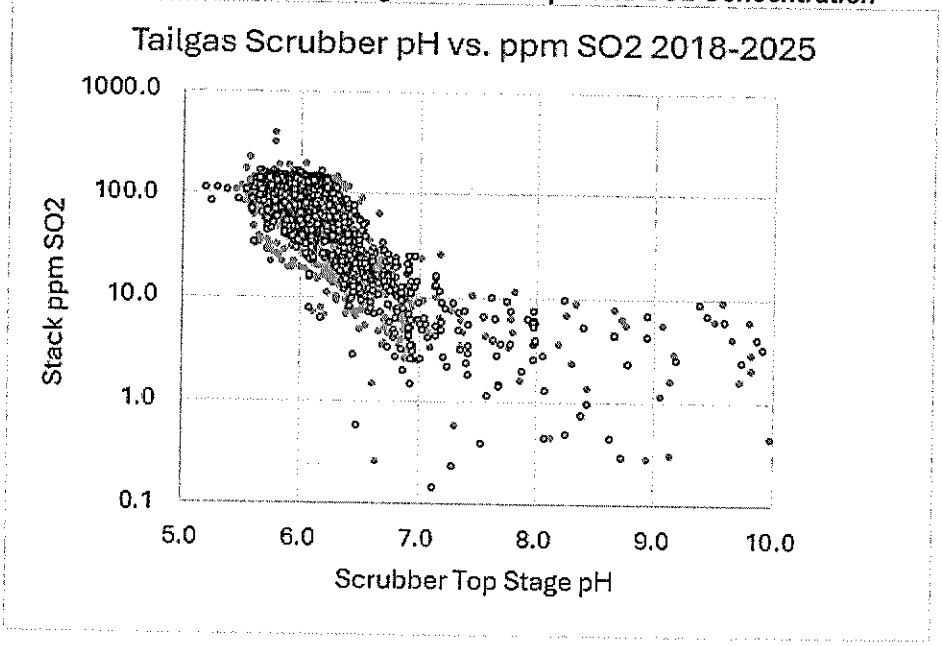


**Exhibit 2**

***Correlation Between Air-Fuel Ratio and NOx Concentration***

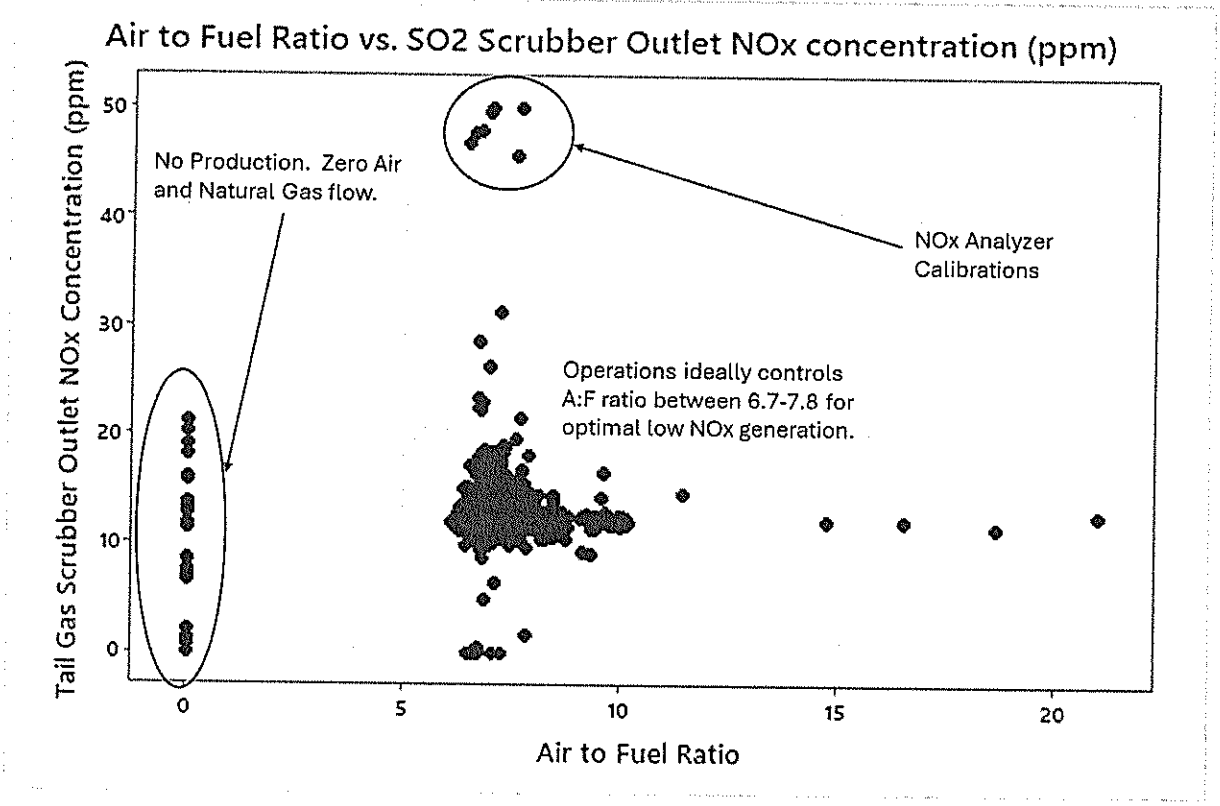

**Exhibit 3**
***Relevant Facility Permit Sections***

# FACILITY PERMIT TO OPERATE
# ECO SERVICES OPERATIONS CORP.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions* And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 1: CHEMICAL MANUFACTURING, INORGANIC CHEMICAL** | | | | | |
| **System 1: SULFURIC ACID PLANT NO.4** | | | | | S13.1, S42.1, S42.2 |
| FURNACE, WITH TWO LOW NOX BURNERS, FUEL OIL, NATURAL GAS, 2 SULFUR,13 ACID BURNERS,1 NOZZLE FOR VENT GAS FROM THE SPENT H2SO4 TANKS WITH A/N: 585633<br><br>BURNER, FUEL OIL, NATURAL GAS, JOHN ZINK, TWO LOW NOX BURNERS, 75 MMBTU/HR EACH | D1 | D18 D19 D20 D21 D86 D87 D88 D89 D90 D91 D115 D116 C124 | NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE** | CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; H2SO4 MIST: 0.15 LBS/TON PRODUCED (8A) [40CFR 60 Subpart H, 10-17-2000]; H2SO4 MIST: 0.3 LBS/TON PRODUCED (4) [RULE 469, 5-7-1976; *RULE 469, 2-13-1981*]; H2SO4 MIST: 10 PERCENT OPACITY (8B) [40CFR 60 Subpart H, 10-17-2000]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 2011, 5-6-2005; *RULE 2011, 12-4-2015;* RULE 409, 8-7-1981]; SO2: 3.5 LBS/TON PRODUCED (4) [RULE 2005, 6-3-2011; RULE 2005, 12-4-2015] SO2: 4 LBS/TON PRODUCED (8A) [40CFR 60 Subpart H, 10-17-2000] | D82.1, D323.1, E448.4 |
| BOILER, WASTE HEAT AND 12 SOOT BLOWERS A/N: 585633 | D2 | | | | |
| TOWER, GAS QUENCH A/N: 585633 | D3 | | | | |
| COLUMN, STRIPPER, QUENCH ACID A/N: 585633 | D6 | | | | |

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

# FACILITY PERMIT TO OPERATE
# ECO SERVICES OPERATIONS CORP.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions* And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 1: CHEMICAL MANUFACTURING, INORGANIC CHEMICAL** | | | | | |
| TOWER, GAS COOLING,PACKED TYPE<br>A/N: 585633 | D4 | | | | |
| COLUMN, STRIPPER, EFFLUENT WATER<br>A/N: 585633 | D5 | | | | |
| ELECTROSTATIC PRECIPITATOR, IN SERIES WITH DEVICE NO 8<br>A/N: 585633 | D7 | D8 | | | |
| ELECTROSTATIC PRECIPITATOR, IN SERIES WITH DEVICE NO 7, COMBINED LOAD 160 KW<br>A/N: 585633 | D8 | D7 | | | |
| ABSORBER, DRYING,PACKED TYPE, WITH INTERNAL MIST ELIMINATOR<br>A/N: 585633 | D10 | C149 | | | |
| COMPRESSOR, MAIN PROCESS, CENTRIFUGAL<br>A/N: 585633 | D9 | | | | D82.2 |
| REACTOR, CATALYTIC CONVERTER, HEIGHT: 66 FT ; DIAMETER: 32 FT 6 IN<br>A/N: 585633 | D15 | | | | |
| ABSORBER, INTERMEDIATE, PACKED TYPE WITH INTERNAL MIST ELIMINATOR<br>A/N: 585633 | D11 | | | | |
| COLUMN, STRIPPER, PACKED TYPE, PRODUCT ACID<br>A/N: 585633 | D14 | | | | |
| ABSORBER, FINAL, PACKED TYPE, WITH INTERNAL MIST ELIMINATOR<br>A/N: 585633 | D13 | C148 | | | |

* (1) (1A) (1B) Denotes RECLAIM emission factor
(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
(10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

# FACILITY PERMIT TO OPERATE
# ECO SERVICES OPERATIONS CORP.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions* And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 1: CHEMICAL MANUFACTURING, INORGANIC CHEMICAL** | | | | | |
| COOLING TOWER, WATER<br>A/N: 585633 | D16 | | | | |
| PIT, SULFUR, WIDTH: 24 FT ; DEPTH: 6 FT 6 IN; LENGTH: 26 FT<br>A/N: 585633 | D130 | | | | |
| **System 2: HEAVY SLUDGE/FUEL OIL LOADING/UNLOADING** | | | | | |
| LOADING AND UNLOADING ARM, BOTTOM, TANK TRUCK, HEAVY SLUDGE, WITH NITROGEN BLANKET<br>A/N: 585631 | D18 | D1 C121 | | | E57.2 |
| LOADING AND UNLOADING ARM, BOTTOM, TANK TRUCK, HEAVY SLUDGE, WITH NITROGEN BLANKET<br>A/N: 585631 | D19 | D1 C121 | | | E57.2 |
| LOADING AND UNLOADING ARM, TANK TRUCK, TOP, HEAVY SLUDGE, WITH NITROGEN BLANKET<br>A/N: 585631 | D20 | D1 C121 | | | E57.2 |
| LOADING AND UNLOADING ARM, TANK TRUCK, TOP, HEAVY SLUDGE, WITH NITROGEN BLANKET<br>A/N: 585631 | D21 | D1 C121 | | | E57.2 |
| **System 4: ACID LOADING/UNLOADING FACILITY** | | | | | |
| UNLOADING ARM, BOTTOM, SPENT ACID, DIAMETER: 3 IN<br>A/N: 585628 | D24 | C124 | | | |
| UNLOADING ARM, TOP, SPENT ACID, DIAMETER: 3 IN<br>A/N: 585628 | D25 | C124 | | | |

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

# FACILITY PERMIT TO OPERATE
# ECO SERVICES OPERATIONS CORP.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions* And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 1: CHEMICAL MANUFACTURING, INORGANIC CHEMICAL** | | | | | |
| TANK, SCRUBBER SEAL POT SP-2, HEIGHT: 6 FT 7 IN; DIAMETER: 3 FT 6 IN<br>A/N: 585614 | C125 | D87 D88 D89 D90 D91 D115 D116 C121 | | | |
| SCRUBBER, VENTURI, ENVIRONMENTAL SYSTEMS TECHNOLOGY<br>A/N: 585614 | C121 | D18 D19 D20 D21 D86 C122 C124 C125 | | | A72.1, C8.3, C8.4 |
| SCRUBBER, PACKED BED, SCR-246, ENVIRONMENTAL SYSTEMS TECHNOLOGY<br>A/N: 585614 | C122 | C121 C123 | | | A72.1, C8.3, C8.5 |
| MIST ELIMINATOR<br>A/N: 585614 | C123 | C122 C126 | | PM: (9) [RULE 404, 2-7-1986] | D323.1 |
| FLARE, ELEVATED WITHOUT STEAM, F-2, NATURAL GAS, NAO INC., WITH ONE BURNER, CENTER GAS ASSISTED TYPE, LENGTH: ; 1.09 MMBTU/HR<br>A/N: 585614 | C126 | C123 | | CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981] | D90.1, D323.1 |
| **System 9: AIR POLLUTION CONTROL SYSTEM** | | | | | |
| SCRUBBER, SO2 SCRUBBER, 2 PACKED BEDS TOTAL, FIBER REIFORCED PLASTIC VESSEL, WITH MIST ELIMINATOR, HEIGHT: 61 FT ; DIAMETER: 15 FT<br>A/N: 585634 | C148 | D13 | | | A63.1, E193.1, H23.2 |
| STACK, 130 FT ABOVE GRADE, 6 FT DIAMETER<br>A/N: 585634 | S151 | | | | D82.3, E448.4 |

* (1) (1A) (1B) Denotes RECLAIM emission factor
(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
(10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

# FACILITY PERMIT TO OPERATE
# ECO SERVICES OPERATIONS CORP.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions* And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 1: CHEMICAL MANUFACTURING, INORGANIC CHEMICAL** | | | | | |
| SCRUBBER, PACKED BED, ACIDULATION STRIPPER, FIBER REINFORCED PLASTIC VESSEL, WITH MIST ELIMINATOR, HEIGHT: 43 FT ; DIAMETER: 3 FT 8 IN<br>A/N: 585634 | C149 | D10 | | | C8.7, C12.1, D12.3, E57.3, E193.1 |
| TANK, CAUSTIC SOLUTION, ELECTRICALLY HEATED, 7000 GALS; DIAMETER: 10 FT ; HEIGHT: 12 FT<br>A/N: 585634 | C150 | | | | E193.1 |
| **Process 2: CHEMICAL MANUFACTURING, ALUMINUM SULFATE** | | | | | |
| **System 1: ALUMINUM SULFATE MANUFACTURING** | | | | | |
| HOPPER, WEIGH, 17 TONS<br>A/N: 585624 | D37 | | | PM: (9) [RULE 405, 2-7-1986] | D323.2 |
| COOKER, R-101, CAPACITY 25,000 GALLONS<br>A/N: 585624 | D38 | C54 | | PM: (9) [RULE 405, 2-7-1986] | C6.2, D323.2 |
| TANK, HOLDING, T-102, FLOCCULENT ADDITIVE, 300 GALS<br>A/N: 585624 | D39 | | | | |
| TANK, HOLDING, T-115, SLUICE WATER, 3500 GALS<br>A/N: 585624 | D40 | | | | |
| TANK, HOLDING, T-109, PRECOAT, 300 GALS<br>A/N: 585624 | D41 | | | | |
| TANK, HOLDING, T-103, LIQUOR, LIQUOR, 120000 GALS<br>A/N: 585624 | D43 | | | | |
| TANK, HOLDING, T-120, 16000 GALS<br>A/N: 585624 | D44 | | | | |

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

# FACILITY PERMIT TO OPERATE
# ECO SERVICES OPERATIONS CORP.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

| | | |
|---|---|---|
| Sulfuric Acid Mist | 40CFR60, SUBPART | A |
| Sulfuric Acid Mist | 40CFR60, SUBPART | H |

except when superseded by alternative requirements and/or procedures specified in the EPA-approved Alternative Monitoring Plan (AMP).

**[40CFR 60 Subpart A, 6-3-2016; 40CFR 60 Subpart H, 10-17-2000]**

[Systems subject to this condition : Process 1, System 1]

S13.2 All devices under this system are subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| VOC | District Rule | 1166 |

**[RULE 1166, 7-14-1995;** RULE 1166, 5-11-2001]

[Systems subject to this condition : Process 11, System 1]

S42.1 The operator shall limit emissions from this system as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| SO2 | Less than or equal to 3.50 lbs/ton of 100% sulfuric acid produced (3-hr rolling average) |

# FACILITY PERMIT TO OPERATE
# ECO SERVICES OPERATIONS CORP.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

For the purposes of this condition, the emission limit(s) shall not apply to periods of Startup, Shutdown, and Malfunction.

"Startup" means the 24-hour period beginning when the feed of sulfur or sulfur-bearing materials (excluding conventional fossil fuels such as natural gas or fuel oils) to the furnace commences after a main gas blower shutdown.

"Shutdown" means the cessation of operation of the sulfuric acid plant for any reason, and begins at the time sulfur or sulfur-bearing feeds (excluding conventional fossil fuels such as natural gas or fuel oils) to the furnace ceases.

"Malfunction" shall have the same meaning as found in 40 CFR 60.2.

For the purpose of this condition, "100% sulfuric acid produced" (which includes scrubber byproduct) means the stoichiometric quantity of sulfuric acid that would be produced at the sulfuric acid plant if all sulfur trioxide exiting the converter were used to produce anhydrous sulfuric acid.

For the purposes of this condition, the emission limit(s) shall not be relaxed.

Compliance with the SO2 emission limit shall be demonstrated using SO2 analyzers at the converter inlet and exit stack using the following equations in accordance with the requirements of the facility's EPA-approved Alternative Monitoring Plan:

$Xe = (M1 - M2) / (M1 - 1.5 \times M1 \times M2)$

$E = (K / Xe) - K$

Where:

Xe = the rolling 3 hour average fractional conversion efficiency

M1 = the fractional concentration of SO2 entering the converter (3-hour arithmetic average)

# FACILITY PERMIT TO OPERATE
# ECO SERVICES OPERATIONS CORP.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

M2 = the fractional concentration of SO2 at the stack (3-hour arithmetic average)

E = the rolling 3 hour average SO2 emission rate in lb/ton of 100% sulfuric acid produced

K = 1306

**[RULE 2005, 6-3-2011; RULE 2005, 12-4-2015; RULE 2011, 5-6-2005;** RULE 2011, 12-4-2015]

[Systems subject to this condition : Process 1, System 1]

S42.2 The operator shall limit emissions from this system as follows::

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| H2SO4 MIST | Less than or equal to 0.15 lbs/ton of 100% sulfuric acid produced |

For the purposes of this condition, the emission limit(s) shall not be relaxed.

**[RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 1303(b)(2)-Offset, 5-10-1996;** RULE 1303(b)(2)-Offset, 12-6-2002; **40CFR 60 Subpart H, 10-17-2000]**

[Systems subject to this condition : Process 1, System 1]

## DEVICE CONDITIONS

### A. Emission Limits

# FACILITY PERMIT TO OPERATE
# ECO SERVICES OPERATIONS CORP.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

D82.3 The operator shall install and maintain a CEMS to measure the following parameters:

SO2 concentration (by volume on a dry basis, 3-hour arithmetic average)

The SO2 concentration shall be used to demonstrate compliance with Condition S42.1

The operator shall sample stack emissions in accordance with the requirements of the facility's EPA-approved Alternative Monitoring Plan.

The operator shall take all steps necessary to avoid CEMS breakdowns and minimize CEMS downtime. This shall include, but is not limited to, operating and maintaining the CEMS in accordance with best practices and maintaining an on-site inventory of spare parts or other supplies necessary to make rapid repairs of the equipment.

The CEMS shall be in operation at all times during which sulfur or sulfur-bearing compounds, excluding conventional fossil fuels such as natural gas or fuel oil, are being fed to the device D1, except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments).

The CEMS shall be installed, certified, calibrated, operated and maintained in accordance with the applicable requirements of 40 CFR 60.11, 60.13, and Part 60, Appendices B and F (except as otherwise provided in the EPA-approved Alternative Monitoring Plan), and SCAQMD Rule 2011 Appendix A.

For every hour of invalid data, missing data must be substituted following the procedures in District Rule 2011, Appendix A, Chapter 2, Section E - Missing Data Procedures.

**[RULE 2005, 6-3-2011; RULE 2005, 12-4-2015; RULE 2011, 5-6-2005;** RULE 2011, 12-4-2015]

# FACILITY PERMIT TO OPERATE
# ECO SERVICES OPERATIONS CORP.

## SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
   a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
   b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
   c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the SCAQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]

# FACILITY PERMIT TO OPERATE
# ECO SERVICES OPERATIONS CORP.

## SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

The Facility shall comply with all applicable monitoring and source testing requirements in Regulation XX. These requirements may include but are not limited to the following:

I. NOx Monitoring Conditions

A. The Operator of a NOx Major Source, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate an SCAQMD certified direct or time-shared monitoring device or an approved alternative monitoring device for each major NOx source to continuously measure the concentration of NOx emissions and all other applicable variables specified in Rule 2012, Table 2012-1 and Rule 2012, Appendix A, Table 2-A to determine the NOx emissions rate from each source. The time-sharing of CEMS among NOx sources may be allowed by the Executive Officer in accordance with the requirements for time sharing specified in Appendix A. [2012]

2. Install, maintain, and operate a totalizing fuel meter approved by the Executive Officer for each major source. [2012]

3. If the facility is operating existing CEMS and fuel meters, continue to follow recording and reporting procedures required by SCAQMD Rules and Regulations in effect prior to October 15, 1993 until the CEMS is certified pursuant to Rule 2012. [2012]

4. Use valid data collected by an SCAQMD certified or provisionally certified CEMS in proper operation that meets all the requirements of Appendix A of Rule 2012, unless final certification of the CEMS is denied, to determine mass emissions for all purposes, including, but not limited to, determining: [2012]
   a. compliance with the annual Allocation;
   b. excess emissions;
   c. the amount of penalties; and
   d. fees.

# FACILITY PERMIT TO OPERATE
# ECO SERVICES OPERATIONS CORP.

## SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

5. Follow missing data procedures as specified in Rule 2012 Appendix A whenever valid data is not available or collected to determine mass emissions for all purposes, including, but not limited to, determining: [2012]
   a. compliance with the annual Allocation;
   b. excess emissions;
   c. the amount of penalties; and
   d. fees.

B. The Operator of a NOx Large Source, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate a totalizing fuel meter and any device specified by the Executive Officer as necessary to determine monthly fuel usage or other applicable variables specified in Rule 2012, Appendix A, Table 3-A. The sharing of totalizing fuel meter may be allowed by the Executive Officer if the fuel meter serves large sources which have the same emission factor, concentration limit, or emission rate. The sharing of totalizing fuel meters shall not be allowed for large sources which are required to comply with an annual heat input limit. [2012]

2. Comply at all times with the specified NOx concentration limit in PPM measured over any continuous 60 minutes for that source or establish an equipment-specific emission rate that is reliable, accurate, representative of that sources emissions, and in accordance with the requirements specified in Rule 2012, Appendix A, Chapter 5. [2012]

C. The Operator of a NOx Process Unit, as defined in Rule 2012, shall, as applicable:

# FACILITY PERMIT TO OPERATE
# ECO SERVICES OPERATIONS CORP.

## SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

1. Install, maintain, and operate a totalizing fuel meter or any device approved by the Executive Officer to measure quarterly fuel usage or other applicable variables specified in Rule 2012, Table 2012-1, and Rule 2012, Appendix A, Table 4-A. The sharing of totalizing fuel meters may be allowed by the Executive Officer if the fuel meter serves process units which have the same emission factor or emission rate. The sharing of totalizing meter shall not be allowed for process units which are required to comply with an annual heat input limit. [2012]

II. NOx Source Testing and Tune-up conditions

1. The operator shall conduct all required NOx source testing in compliance with an SCAQMD-approved source test protocol. [2012]

2. The operator shall, as applicable, conduct source tests for every large NOx source no later than December 31, 1996 and every 3 years thereafter. The source test shall include the determination of NOx concentration and a relative accuracy audit of the exhaust stack flow determination (e.g. in-stack flow monitor or fuel flow monitor based F-factor calculation). Such source test results shall be submitted per the schedule described by APEP. In lieu of submitting the first source test report, the facility permit holder may submit the results of a source test not more than 3 years old which meets the requirements when conducted. [2012]

3. All NOx large sources and NOx process units shall be tuned-up in accordance with the schedule specified in Rule 2012, Appendix A, Chapter 5, Table 5-B. [2012]

III. SOx monitoring conditions

D. The Operator of a SOx Major Source, as defined in Rule 2011, shall, as applicable:

# FACILITY PERMIT TO OPERATE
# ECO SERVICES OPERATIONS CORP.

## SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

1. Install, maintain, and operate an SCAQMD certified direct or time-shared monitoring device or an approved alternative monitoring device for each major SOx source to continuously measure the concentration of SOx emissions or fuel sulfur content and all other applicable variables specified in Rule 2011, Table 2011-1 and Rule 2011, Appendix A, Table 2-A to determine the SOx emissions rate from each source. The time-sharing of CEMS among SOx sources may be allowed by the Executive Officer in accordance with the requirements for time sharing specified in Appendix A. [2011]

2. Install, maintain, and operate a totalizing fuel meter approved by the Executive Officer for each major source. [2011]

3. If the facility is operating existing CEMS and fuel meters, continue to follow recording and reporting procedures required by SCAQMD Rules and Regulations in effect prior to October 15, 1993 until the CEMS is certified pursuant to Rule 2011. [2011]

4. Use valid data collected by an SCAQMD certified or provisionally certified CEMS in proper operation that meets all the requirements of Appendix A of Rule 2011, unless final certification of the CEMS is denied, to determine mass emissions for all purposes, including, but not limited to, determining: [2011]
   a. compliance with the annual Allocation;
   b. excess emissions;
   c. the amount of penalties; and
   d. fees.

5. Follow missing data procedures as specified in Rule 2011 Appendix A whenever valid data is not available or collected to determine mass emissions for all purposes, including, but not limited to, determining: [2011]
   a. compliance with the annual Allocation;

Exhibit 4
Notice of Violation P73837

South Coast Air Quality Management District
21865 COPLEY DRIVE, DIAMOND BAR, CA 91765-4178

P 73837

# NOTICE OF VIOLATION

| DATE OF VIOLATION | | |
|---|---|---|
| Month: | Day: | Year: |
| 10 | 01 | 2023 |

| Facility Name | Facility ID#: | Sector: |
|---|---|---|
| ECO SERVICES OPERATIONS CORP. | 180908 | LA |

| Location Address | City | Zip: |
|---|---|---|
| 20720 S. WILMINGTON AVE. | CARSON | 90810 |
| **Mailing Address:** | **City** | **Zip:** |
| 20720 S. WILMINGTON AVE. | LONG BEACH | 90810 |

YOU ARE HEREBY NOTIFIED THAT YOU HAVE BEEN CITED FOR ONE OR MORE VIOLATIONS OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULES, STATE LAW OR FEDERAL LAW. IF PROVEN, SUCH VIOLATION(S) MAY RESULT IN THE IMPOSITION OF CIVIL OR CRIMINAL PENALTIES.

EACH DAY A VIOLATION OCCURS MAY BE HANDLED AS A SEPARATE OFFENSE REGARDLESS OF WHETHER OR NOT ADDITIONAL NOTICES OF VIOLATION ARE ISSUED.

## DESCRIPTION OF VIOLATIONS

| # | Authority* | Code Section or Rule No. | SCAQMD Permit to Operate or CARB Registration No. | Condition No. (If Applicable) | Description of Violation |
|---|---|---|---|---|---|
| 1 | ☑ SCAQMD<br>☐ CH&SC<br>☐ CCR<br>☐ CFR | 2011<br>Appx. A<br>Attch.<br>C-B29 | | | Failure to perform SOx RATA within six months of the end of the calendar quarter in which the CEMS was last tested. |
| 2 | ~~☑ SCAQMD~~<br>☐ CH&SC<br>☐ CCR<br>☐ CFR | ~~2011~~<br>~~Appx. A~~<br>~~Chapter 2~~<br>~~(b)(3)(F)~~ | | | ~~Failure to apply Missing Data Procedure.~~ MD 11/8/24 |
| 3 | ☑ SCAQMD<br>☐ CH&SC<br>☐ CCR<br>☐ CFR | ~~2004~~<br>~~(e)~~ | | | ~~Inaccurate QCER for Quarter 3.~~ MDB 1/17/25 |
| 4 | ☑ SCAQMD<br>☐ CH&SC<br>☐ CCR<br>☐ CFR | ~~2004~~<br>~~(b)(4)~~ | | | ~~Inaccurate APEP~~ MDB 1/17/25 |
| 5 | ☐ SCAQMD<br>☐ CH&SC<br>☐ CCR<br>☐ CFR | | | | |

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| ARIN ARAKELIAN | (310) 885-6788 | MARISSA OSAKI | 10/17/2024<br>11/08 MD |

| Title: | Email: | Phone No: | Email: |
|---|---|---|---|
| ENVIRONMENTAL SPECIALIST | ARIN.ARAKELIAN@ECO-SERVICES.COM | ☑ 909-396-2547<br>☐ 310-233- | MOSAKI @aqmd.gov |

*Key to Authority Abbreviations:
SCAQMD – South Coast Air Quality Management District
CCR – California Code of Regulations
CH&SC – California Health and Safety Code
CFR – Code of Federal Regulations

Method of Service:
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