



Republic of the Philippines
Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU
Regional Office No. VIII
DENR 8 Compound, Brgy. 2, Jones Extension, Tacloban City
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April 26, 2022

RELEASED BY: 4-28-2022
DATE: 1:28
TIME: 1

MR. JOHN JOVEN S. CHIONG

Manager

Philippine Associated Smelting and Refining Corp. (PASAR)

LIDE Libertad Isabel Leyte

Subject: Approval of Source Emission Test (SET) Plan

Sir,

This refers to your letter requesting for the approval of SET plan for **One (1) unit 1000 KW Cummins Genset & Three (3) Units 2060 KW MTU Diesel Genset (Twin Stack) for NO_x & CO and One (1) Unit Refinery Plant for PM, SO₂, NO₂ and CO** to be tested by **SGS Philippines Incorporated**. Please be informed that same is approved with a directive to comply with the facility's requirements and sampling methodology as stated in the test plan and strictly observe the fuel used as indicated in its "Permit to Operate" APSIs. Change of fuel during testing is not allowed; results will be invalid.

Further, your Pollution Control Officer shall observe/check the conduct of the test and ensure that the DENR Accredited Third-Party Sampler strictly follows the following sampling requirements throughout the test:

- Equipment/apparatus available e.g., pumps, flasks, stop-cocks, and impingers are clean, operational, functional, and properly maintained;
- Chemicals used are not expired;
- Time of sampling must be strictly observed;
- No laptop or similar gadgets should be used during the sampling period; and
- The accredited QA/QC and the Team Leader, as the authorized personnel, should be at the facility during the conduct of actual sampling.

This Office will send technical personnel to witness the conduct of the test and observe the conditions of the facilities to be tested scheduled on **May 4, 5 & 6, 2022**.

Please be reminded that the SET Report shall be submitted within thirty (30) days from the date of testing to include the operating condition of the source at the time of sampling (e.g., fuel consumed, temp., and mode of operation).

Be guided accordingly.

Very truly yours,


REYNALDO B. BARRA, PME
OIC-Regional Director



EVALUATION OF SOURCE SPECIFIC TEST PLAN

Date Received: April 18, 2022

Date Evaluated: April 20, 2022

I. FACILITY INFORMATION

Name of Industry: **Philippine Associated Smelting and Refining Corp. (PASAR)**

Industry Category: **SMELTING PLANTS**

Plant Address: **LIDE Libertad Isabel Leyte**

Contact Person: **Mr. Estela Cuadrado**

Position: **Pollution Control Officer**

Contact Number: **0977-6943-676**

Email Address: **estela.cuadrado@pasar.com.ph**

Permit to Operate Reference No: **PTO-OL-R08-2022-02218-TR**

Issued On: **Mar. 17, 2022** Valid Until: **June 17, 2022**

Permit to Operate Reference No: **PTO-OL-R08-2022-02221-R**

Issued On: **Mar. 17, 2022** Valid Until: **June 17, 2022**

Permit to Operate Reference No: **PTO-OL-R08-2022-02226-TR**

Issued On: **Mar. 17, 2022** Valid Until: **June 17, 2022**

II. PRODUCTION INFORMATION and REQUIREMENT

The One (1) unit 1000 KW Cummins Genset & Three (3) Units 2060 KW MTU Diesel Genset (Twin Stack) should operate at a minimum required load/operating capacity of 30% and or greater of permitted capacity and the One (1) Unit Refinery Plant should operate at least 90% or at the normal operating capacity during the time of testing.

III. AIR POLLUTION SOURCE INFORMATION

A. APSI: **One (1) unit Cummins Genset**

Rated Capacity: **1000 KW**

Type of Fuel Used: **Diesel**

Fuel Consumption:

No. of Stack: **1**

Stack Diameter:

Stack Height:

Ave. Annual Operating Hours:

Year Installed:

B. APSI: **Three (3) Units MTU Genset (Twin Stack)**

Rated Capacity: **2060 KW**

Type of Fuel Used: **Diesel**

Fuel Consumption:

No. of Stack: **6**

Stack Diameter:

Stack Height:

Ave. Annual Operating Hours:

Year Installed:

C. APSI: **One (1) Unit Refinery Plant**

Rated Capacity:

Type of Fuel Used:

Fuel Consumption:

No. of Stack: **1**

Stack Diameter:



EVALUATION OF SOURCE SPECIFIC TEST PLAN

Stack Height:
Ave. Annual Operating Hours:
Year Installed:

IV. TEST METHODOLOGY

| Particulars | Test Date | Parameters | Test Method | Test Duration | Notes |
|--|--------------------|------------------------------------|--------------------------|----------------------------|--|
| One (1) Unit Refinery Plant | May 4, 5 & 6, 2022 | Volumetric Flow rate (VFR) | USEPA Method 1-4 | Three (3) runs per exhaust | Performed concurrent with Method 5 |
| | | Carbon Dioxide (CO ₂) | USEPA Method 3 by Fyrite | Three (3) runs per exhaust | Integrated Tedlar Bag sample during M5 Test |
| | | Oxygen (O ₂) | USEPA Method 3 by Fyrite | Three (3) runs per exhaust | Integrated Tedlar Bag sample |
| | | Particulate Matter (PM) | USEPA Method 5 | Three (3) runs per exhaust | Performed with Method 5 set-up |
| | | Nitrogen Oxides (NO _x) | USEPA Method 7 | Three (3) runs per exhaust | Three grab samples in flasks collected per run |
| | | Carbon Monoxide (CO) | USEPA Method 10 by NDIR | Three (3) runs per exhaust | Integrated Tedlar bag sample during M5 Test |
| | | Sulfur Dioxide (SO _x) | USEPA Method 6 | Three (3) runs per exhaust | Simultaneous with Method 5 |
| One (1) unit 1000 KW Cummins Genset & Three (3) Units 2060 KW MTU Diesel Genset (Twin Stack) | May 4, 5 & 6, 2022 | Carbon Dioxide (CO ₂) | USEPA Method 3 by Fyrite | Three (3) runs per exhaust | Integrated Tedlar Bag sample during M5 Test |
| | | Oxygen (O ₂) | USEPA Method 3 by Fyrite | Three (3) runs per exhaust | Integrated Tedlar Bag sample |
| | | Nitrogen Oxides (NO _x) | USEPA Method 7 | Three (3) runs per exhaust | Three grab samples in flasks collected per run |
| | | Carbon Monoxide (CO) | USEPA Method 10 by NDIR | Three (3) runs per exhaust | Integrated Tedlar bag sample during M5 Test |

V. THIRD PARTY INFORMATION

Name of Accredited Third Party: SGS Philippines Inc.

Address: 2/F Alegria Bldg., Chino Roces Ave., Makati City

Name of QA/QC: Rocky Marcus O. Reyes

Name of Team Leader: Wilson U. Parzuelo

SAT Accreditation No.: 2022-62

Valid until: April 06, 2025

Name of Members:

John Eric F. Baluyot

Team Member



EVALUATION OF SOURCE SPECIFIC TEST PLAN

Marlon H. Menes
Jerick P. Valenton

Team Member
Team Member

VI. REMARKS/RECOMMENDATIONS

1. Recommended for the approval of test plan with condition of operating the One (1) unit 1000 KW Cummins Genset & Three (3) Units 2060 KW MTU Diesel Genset (Twin Stack) should operate at a minimum required load/operating capacity of 30% and or greater of permitted capacity and the One (1) Unit Refinery Plant should operate at least 90% or at the normal operating capacity during the time of testing.
2. Emission test report shall be submitted to this office within thirty (30) days after the conduct of the test
3. Equipment/apparatus available e.g. pumps, flasks, stop-cocks and impingers are clean, operational, functional and properly maintained.
4. Chemicals used are not expired.
5. Time of sampling must be strictly observed.
6. No laptop or similar gadgets should be used during the entire sampling period.
7. The accredited QA/QC and the Team Leader, as authorized personnel, should be at the facility during the conduct of sampling.

Prepared by:

JOSEPH R. AURE / JANET T. POLEA
Source Emission Monitoring Specialist / Engineer IV

Recommending Approval:

ENGR. CARLOS A. CAYANONG
Chief, WAQMS

Approved by:

FOR. MANUEL J. SACEDA JR.
OIC-Chief, EMED

Noted by:

REYNALDO B. BARRA, PME
OIC-Regional Director