



DEPARTMENT OF NATURAL
AND ENVIRONMENTAL
RESOURCES

DNER

GOVERNMENT OF PUERTO RICO

JUL 13 2026

MR. MICHAEL MARTUCCI

Regional Administrator

U.S. Environmental Protection Agency – Region 2

290 Broadway, 25th Floor

New York, NY 10007-1866

Dear Mr. Martucci:

RE: Puerto Rico Annual Emissions Report for the 1-Hour SO₂ NAAQS – Guayanilla Area (2023–2025)

As required by **40 CFR § 51.1205**, for any area where sulfur dioxide (SO₂) air dispersion modeling served as the basis for designation, the state or local air agency must submit an annual report to the EPA Regional Administrator documenting the actual SO₂ emissions from applicable sources within the designated area.

The Puerto Rico Department of Natural and Environmental Resources (DNER) hereby submits the **Annual SO₂ Emissions Report for the Guayanilla Area** covering calendar years **2023 through 2025**, in compliance with the requirements of the 1-hour Sulfur Dioxide National Ambient Air Quality Standard (NAAQS).

This report includes updated annual SO₂ emissions data for the Guayanilla area, with particular emphasis on the PREPA Costa Sur facility, whose actual emissions served as the primary basis for the original SO₂ modeling and area designation. The emissions inventory contains the most recent three years of verified SO₂ emissions data.

The report is available for public inspection and download on the Department's website at www.drna.pr.gov/acai/muestreo.

Should you require additional information, please contact me at (787) 999-2200, extension 2104, or by email at waldemar.quiles@drna.pr.gov. You may also contact Mr. César O. Rodríguez, Acting Manager of the Air Quality Area, at cesarrodriguez@drna.pr.gov or by telephone at (787) 999-2200, extension 5810.

Cordially,

Waldemar Quiles Pérez
Secretary



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**PUERTO RICO
ANNUAL EMISSION REPORT FOR THE 1-HOUR SO₂ NAAQS
GUAYANILLA AREA
2023-2025**

Department of Natural and Environmental Resources
Air Quality Area

July 2026

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1.0 Introduction and Background

On June 2010, the EPA promulgated the new 1-hour primary sulfur dioxide (SO₂) National Ambient Air Quality Standard (NAAQS) of 75 parts per billion (ppb), which is met at an ambient air quality monitoring site, when the 3-year average of the 99th percentile of 1-hour daily maximum concentrations does not exceed 75 ppb. On January 2018, the EPA published in the Federal Register (83 FR 1098), the Air Quality Designations for the 2010 Sulfur Dioxide (SO₂) Primary National Ambient Air Quality Standard-Round 3. The 1-Hour SO₂ NAAQS final rule, direct the designation of attainment/unclassified for the Guayanilla area, that includes the municipalities of Guayanilla and Peñuelas. The facility in Guayanilla area that was identified by EPA, as needed to be documented their emissions, was PREPA Costa Sur.

As required by the 40 CFR 51.1205¹, any area where modeling of SO₂ served as the basis for designation, their Air Program in the Agency must submit an annual report and recommendations to the EPA Regional Administrator by July 1 of each year, that documents the annual SO₂ emissions in each such area. DNER presents in this report the updated SO₂ annual emissions in the Guayanilla area, for the period of 2023-2025.

The Guayanilla area attains the 1-Hour SO₂ standard, using three years of PREPA Costa Sur actual emission data from 2013-2015. The final designation for Guayanilla area (Guayanilla and Peñuelas municipalities) was attainment/unclassified.

Following the 40 CFR 51.1205, DNER fulfill the annual revision of the 1-Hour SO₂ emissions for Guayanilla area, including the most recent three years of SO₂ actual emissions from PREPA Costa Sur. The annual SO₂ emissions used in this document are from PREPA Costa Sur certified annual emission reports, from 2023-2025.

2.0 Annual SO₂ Emissions

This report includes the PREPA Costa Sur actual SO₂ emissions from the years 2023-2025. No other sources in the area were identified to emit significant SO₂ emissions.

¹ Code of Federal Regulations, Title 40. Subchapter C, Subpart BB, Section 51.1205. Ongoing Data Requirements.

Table 1: Annual SO₂ Emissions in Guayanilla Area (TPY)

PREPA Costa Sur Emission Unit	2023	2024	2025
Boiler SC3/SC4	0	0	0
Boiler SC5	551	1476	1116
Boiler SC6	3344	2354	2662
Gas Turbines 1-1, 1-2	0	0	0
TOTAL	3895	3830	3778

*Data from PREPA Costa Sur Annual Emission Report.

According to PREPA Costa Sur annual report, the SO₂ annual emissions for 2023 were 3895 TPY, decreased to 3830 TPY during 2024 and to 3778 TPY in 2025.

The total emissions from the years 2023 to 2025 are lower in comparison with the years modeled for the 1- hour SO₂ designation, using the SO₂ emissions from 2013-2015 (6977 TPY in 2013, 8335 TPY in 2014, 9331 TPY in 2015).

After the area designation, DNER modeled the PREPA Costa Sur annual SO₂ emissions from 2016 to 2018, and the results attain the 1- hour SO₂ NAAQS of 196 µg/m³. Refer to the Guayanilla Area 2016-2018 SO₂ annual modeling report for more information².

3.0 Monitoring Data

The nearest SO₂ monitoring station that is currently active is in Salinas municipality (72-123-0004). The other monitor is in Guayama (72-057-011) but is out of service and the latest data is from 2023. The data from both monitors is presented in Tables 2 and 3, and the design values are below the 1- hour SO₂ NAAQS of 75 ppb.

There is no recent data from the previous monitors that were operated in Guayanilla area. The latest available monitoring data from the monitors nearby Guayanilla is from 2010.

Table 2: 1-Hour SO₂ Design Values Monitor 72-0657-011 (2017-2024)

Monitor	Municipality	1-Hour SO ₂ Design Values (ppb)							
		2017	2018	2019	2020**	2021	2022	2023	2024**
72-057-011	Guayama	3.0	7.0	6.0	-	3.4	3.0	8.0	-

*Data from the EPA <https://www.epa.gov/outdoor-air-quality-data/monitor-values-report>

**No monitoring data available for 2020 and 2024.

² Puerto Rico Modeling Revision for the 1-Hour SO₂ NAAQS Guayanilla Area. DNER, May 2019.

Table 3: 1-Hour SO₂ Design Values Monitor 72-123-0004 (2023-2025)

Monitor	Municipality	1-Hour SO ₂ Design Values (ppb)		
		2023	2024	2025
72-123-0004	Salinas	7.0	12.0	4.0

Data from the EPA <https://www.epa.gov/outdoor-air-quality-data/monitor-values-report>

4.0 Recommendation

Based on the information presented in this report, the Guayanilla area continues in attainment with the 2010 1-hour SO₂ NAAQS. DNER recommends that no additional modeling is necessary to characterize the air quality in this area.

5.0 Conclusion

This report satisfies the requirements of the 40 CFR 51.1205 for the years 2023 to 2025 in the Guayanilla area.

