

Environmental Audit Report

Facility: Plant B

Report Period: Q3 2023

Prepared By: Environmental Compliance Division

Date: October 15, 2023

1. Executive Summary

Plant B has been evaluated under the 2023 Q3 compliance review. The audit focused on the plants adherence to environmental standards, specifically CO emissions, waste management, and mitigation strategies. The findings indicate a notable exceedance of regulatory thresholds, prompting immediate remediation steps.

Key highlights include:

- CO Emissions: 220.1 tons reported in Q3 2023
- Threshold: 180 tons (regulated limit)
- Exceedance: ~22.3% above permissible range
- Recommendation Status: Critical Requires corrective action

2. Emission Trends and Analysis

Year	Q1	Q2	Q3	Q4
2022	172.4	179.0	183.5	176.2
2023	181.7	197.8	220.1	N/A

The plants CO output has shown a consistent upward trend, culminating in Q3's substantial spike. This indicates a possible lapse in filtering efficiency or increased operational throughput without proportional emission mitigation.

3. Contributing Factors

- Aging Filtration Systems: Existing scrubbers installed in 2016 are overdue for replacement.
- Uncalibrated Sensors: Data irregularities suggest maintenance gaps in the air quality monitoring units.
- Higher Load Demand: A 14% increase in production was recorded in August, correlating with elevated CO levels.

4. Recommendations

Technical

- Upgrade filtration system to Tier-IV compliant emission scrubbers.
- Deploy satellite-integrated monitoring tools for real-time tracking and alerts.

Administrative

- Enforce weekly internal emissions checks.
- Submit monthly reports to the National Environmental Oversight Authority (NEOA) starting November 2023.

Strategic

- Assess feasibility of transitioning to cleaner-burning fuels.
- Invest in employee training focused on compliance and sustainability practices.

5. Risk Assessment

Category	Risk Level	Notes
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Regulatory Fine	HIGH	Possible penalty of up to \$250,000
Reputation	MEDIUM	Negative public perception likely if unresolved
Operational Continuity	MEDIUM	Risk of government-mandated suspension

## 6. Next Steps

A follow-up audit will be scheduled in February 2024. Failure to implement recommended actions may result in formal non-compliance classification.

### Action Items:

- Submit mitigation plan by October 30, 2023
- Confirm scrubber installation by December 15, 2023

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