

TITLE V OPERATING PERMIT STATEMENT OF BASIS

Facility Name: Neo San Diego LLC

Title V Application Number: APCD2011-APP-001724

Title V Permit Number: APCD2009-PTO-974746

Facility ID: APCD1996-SITE-09779

Equipment Address: 5244 Convoy St., San Diego, CA 92111

Facility Contact: Suparna Chakladar
Contact Phone: (949) 355-5182

Permit Engineer: Doug Erwin

Date Completed:

1.0 Purpose/Introduction

This statement of basis describes the renewal of the above-listed Title V operating permit, which contains as its single emission unit District permit #APCD2007-PTO-950804 covering a non-hazardous solid waste landfill. This statement of basis describes the landfill, the applicable air quality requirements, and the associated permit.

2.0 Facility Description

As stated above, the subject facility consists of a non-hazardous municipal solid waste landfill. As part of its landfill gas capture and control system, the facility is equipped with two (2) flares. Captured landfill gas is routed to the adjacent nearby engines (permitted to Minnesota Methane - Miramar under Permit APCD2008-PTO-971535 and Minnesota Methane – North City under Permit APCD2009-PTO-975482) where it is combusted for generation of power to the grid, to the extent feasible. Excess landfill gas is routed to the aforementioned flares for combustion.

The following table summarizes annual emissions from this facility based on the District's most recent emissions inventory (EI) for this source, that of 2010. The District's EI estimates actual facility air emissions.

Emissions Summary (as reported for 2010)	
Criteria Pollutants	tons/yr

NOx	6.5
VOC	0.5
PM10	1.7
SO2	1.3
CO	0.3
Total Federal HAPs	1.3

3.0 Primary Air Emissions & Regulatory Consideration(s)

Landfill gas emissions mainly comprise methane and carbon dioxide, but also contain volatile organic compounds and toxic pollutants. Management of landfill gas generation by targeted location of wells, extraction flow and other design features, and effective capture and control of the gas, are the focus of regulations for limiting landfill gas emissions. The regulatory provisions of the New Source Performance Standards (NSPS) at Title 40 CFR 60 Subpart WWW -- *Standards of Performance for Municipal Solid Waste Landfills* (§§60.750 – 60.759) comprise the primary requirements for ensuring the landfill and its gas generation are managed effectively. These and other applicable requirements are discussed in the following sections.

4.0 Background and Permit History

Neo San Diego landfill has been operating under a Title V permit since 2002. Based on District records, the landfill was subject to the new source performance standards (NSPS) at Title 40 CFR 60 Subpart WWW -- *Standards of Performance for Municipal Solid Waste Landfills* (§§60.750 – 60.759) at or before the time of its original Title V permit application submittal, preceding its issuance in 2002. Additionally, and related to the applicability of the NSPS under Subpart WWW, the requirement to attain a Title V permit was triggered on or before the same time period presumably based on the provision given at 40 CFR 60.752(c), which requires Title V permitting if the landfill has a design capacity equal to or greater than 2.5 million megagrams or 2.5 million cubic meters.

The landfill became subject to 40 CFR 63 Subpart AAAA (§§ 63.1930 – 63.1990) – *National Emission Standards for Hazardous Air Pollutants (NESHAP): Municipal Solid Waste Landfills* upon rule effectiveness in March of 2003. Compliance with this rule is achieved in large part through compliance with the aforementioned NSPS.

Along with District Rule 59 and 17 CCR Subarticle 6, the above rules comprise the bulk of the regulatory framework for this landfill and the subject Title V permit.

Requirements and limitations were previously established in the permit, and remain for this renewal, which address these rules.

5.0 Applicable Regulations

Primary Landfill Rules: District Rule 59; Federal NSPS and NESHAP

As summarized above, the landfill is subject to Rule 59, the federal NSPS and NESHAP. Consistent with the provisions of § 60.752(b) of the NSPS, the permittee has designed, installed and now operates a landfill gas collection and control system (CCS). The permit includes conditions pertaining to the CCS, as well as the other applicable requirements under Rule 59. Compliance with the NESHAP is met in large part by complying with the aforementioned NSPS. The permit includes conditions pursuant to this NESHAP.

17 CCR Subarticle 6 (AB 32)

California's greenhouse gas rule, as it pertains to landfills, addresses methane emissions and its provisions borrow extensively from the federal rules discussed above. This rule is commonly referred to as AB 32 – the legislative assembly bill that preceded its development. Because of the distinctions between this rule and the aforementioned federal landfill rules, conditions for Subarticle 6 are listed almost entirely separate in the operating permit, beginning at Condition 47 of the District permit. The permittee is expected to comply with this rule through the same mechanisms it complies with District Rule 59 and Subpart WWW. The most notable differences with this rule, compared to Rule 59 and Subpart WWW, are the tighter surface monitoring grid, and therefore the potential for more effective gas capture; and additional detail throughout the monitoring, record-keeping and reporting requirements of the rule. This rule also contains provisions for measuring leaks from landfill components, which go beyond the provisions of Rule 59 and Subpart WWW.

District Rules

District Rules 50 (visible emissions), 53 (specific air contaminants), 59 (control of waste disposal site emissions) apply to the landfill, and conditions are included in the permit covering these rules, among others as cited in the permit.

6.0 Compliance Assurance Monitoring

Compliance Assurance Monitoring (CAM) applicability was considered for this review pursuant to 40 CFR Part 64. Sources that are subject to emissions standards under either Section 111 or 112 of the federal Clean Air Act (CAA) are exempted from CAM applicability as given at § 64.2(b)(1)(i). As discussed above, the landfill is subject to emissions standards under both Sections 111 and 112 (NSPS and NESHAP) of the CAA. On this basis, the landfill is not subject to CAM.

7.0 Permit Shield

Pursuant to District Rule 1410(p) and 40 CFR § 70.6(f), a Title V permit may include a provision stating that compliance with the conditions of the permit are deemed compliance with any applicable requirements as of the permit issuance date. The applicant did not request a permit shield and one is not included for this renewal.

8.0 Risk Management (40 CFR Part 68)

Section 112(r) of the CAA, codified at 40 CFR Part 68 requires sources subject to this regulation, if they include processes that reach or exceed the threshold quantities given in §§ 68.115 and 68.130, to manage the risks associated with these substances and quantities by developing and maintaining a risk management plan as specified at §§ 68.150 through 68.185. Based on District records, including the applicant's current and past submittals, no substances that reach the aforementioned thresholds given in Part 68 are present at this facility. Therefore, this regulation is not applicable.

9.0 Outside Review

In accordance with District Rule 1415, the District will provide notice to the public and to the Environmental Protection Agency - Region 9.

10.0 Conclusions / Recommendations

The applicant is expected to comply with all applicable requirements including those cited in the current District permits and those under District Rule 1401 and Title V. Therefore, the recommendation of this report is for the subject Title V permit renewal to be issued following public notice and EPA review.