TITLE V COMPLIANCE MANUAL
AMERICAN AVENUE LANDFILL
KERMAN, CALIFORNIA

Submitted to:

County of Fresno
Department Of Public Works and Planning
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This Title V compliance manual was developed as a compliance guideline for the American Avenue Landfill, in Fresno County, California. The document is dated April 2004 and was prepared and reviewed by the following:

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1. INTRODUCTION

This compliance manual is prepared for the landfill staff as a summary of and guideline for the air quality and landfill operational requirements specified in the Title V permit. The landfill operators should refer to the Title V permit for more specific or detailed information and requirements in the Title V permit.

The landfill operational requirements in the Title V permit are summarized into the following categories in this manual: Operational Prohibitions, Monitoring Requirements, Record Keeping Requirements, and Reporting Requirements. The Facility-Wide or Permit Unit conditions from the Title V permit are listed as a reference.

The following documents and forms are included in the appendixes:

Appendix A: Monitoring forms for dust control and visible emission monitoring activities, include:
Form A – Monthly Dust Control and Visible Emission Checklist
Form B – Cleanup of Trackout and Carryout
Form C – Permanent / Long Term Dust Controls
Form D – Water Application onto Unpaved Roads & Equipment Areas
Appendix B: The District Deviation Reporting Form, Semi-Annual Reporting Form, Annual Certification Form, and instructions.
Appendix C: List of Monitoring and Reporting Requirements.
Appendix D: Reserved. The landfill can add additional documents for reference.

The following is a list of acronyms that are used in this field manual:

CARB – California Air Resources Board
CO – Carbon Monoxide
CO2 – Carbon Dioxide
FWR – Facility-Wide Requirement
GCCS – Gas Collection and Control System
MACT – Maximum Achievable Control Technology
MSW – Municipal Solid Waste
NMOC – Non-Methane Organic Compounds
NO – Nitrogen Oxide
NO_2 – Nitrogen Dioxide
PM – Particulate Matter
PUR – Permit Unit Requirement
SJVAPCD – San Joaquin Valley Air Pollution Control District
SSM – Startup, Shutdown, or Malfunction
VOC – Volatile Organic Compounds

2. OPERATIONAL REQUIREMENTS

Facility-Wide Requirements

- The landfill operator shall not alter or modify the operation or equipment without first obtaining an Authority to Construct (ATC) from the District. (Condition #4)
- Visible emissions from individual point sources on a landfill must not be as dark or darker in shade than the Ringelman #1 or equivalent to 20% opacity, averaged over 3 minutes in any one hour. (#22)
- No architectural coatings, with the exception of specialty coatings, which contain more than 250 grams of VOC per liter, should be used within the District. (#23)
- No person shall apply any specialty coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of Rule 4601. (#24)
- Store all VOC containing material in closed containers when not in use. (#25)
- VOC containing solvents cannot be used for the cleanup of spray equipment unless solvent collection equipment is used and evaporation is minimized. (#26)
- Disposal of appliances, refrigerators, air conditioners, freezers, chillers, coolers, or other equipment that either contains or once contained refrigerants is generally prohibited for the permittee. The Landfill should accept appliances for recycling only. (#29)
- No air contaminant shall be released into the atmosphere that causes a public nuisance. (#40)

Permit Unit Requirements (N-3115-2-3)

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- All equipment shall be maintained in good operating condition and operated in a manner to minimize emissions of air contaminants into atmosphere. (Condition #6)
- All equipment shall be constructed, calibrated, maintained, and operated in accordance with all data and specifications submitted with the applications under which the permits are issued. (#7)
- There shall be air contaminants discharged that exceeds the Ringelmann ¼ or 5% opacity for periods longer than 5 minutes during any 2 consecutive hours. (#8)
- Particulate matter emissions from combustion sources shall not exceed 0.1 grains/dscf (calculated to 12% CO2). (#9)
- The landfill gas consumption rate to the flare shall not exceed 51 MMBtu/Hr. (#10)
- The facility shall install and maintain in proper operating condition a gas flow meter with a continuous recorder. (#11)
- Condensate injection flow rate to the flare shall not exceed 1 gallon per minute. (#12)

- The flare shall be equipped with automatic dampers, an automatic shutdown device, and a flame arrester. (#13)

- The flare shall be equipped with a temperature indicator and recorder. (#14)

- The flare shall be operated within the parameter ranges established during the initial or most recent performance test. (#15)

- The flare combustion temperature for all 3-hour block average shall not drop more than 28 degrees C below the average combustion temperature determined during the most recent performance test. (#16)

- In the event that the gas collection system or control device is inoperable, the gas mover system and all valves contributing to venting of LFG to the atmosphere or control system shall be closed within 1 hour. (#17)

- The flare must achieve a VOC destruction efficiency of 98% by weight. (#18)

- Emissions from the flare shall not exceed the following: (#19)

  NOx – 0.05 lb/MMBtu
  CO – 0.2 lb/MMBtu
  PM10 – 0.034 lb/MMBtu
  VOC – 0.006 lb/MMBtu (or 20 ppmv as hexane @ 3% O2)

- SOx emission from flare shall not exceed 0.0178 lb/MMBtu (46.9 ppmv of H2S in fuel). (#20)

- Landfill design capacity shall not exceed 2,200 tons/day average, 3,600 tons/day peak or 1,300,000 tons/year of refuge received, and 4.6 million cubic meters, or 361 acres, of solid waste. (#21)

- The flare shall be equipped with an LPG fired pilot. (#22)

- Source sampling to determine the compliance status of flare shall be witnessed or authorized by District personnel. (#23)

- Source testing for NOx shall be conducted using CARB Test Method 7E or 100. (#27)

- Source testing for CO shall be conducted using EPA Test Method 10 or 10B, CARB Methods 1-5 with 10 or CARB Method 100. (#28)

- VOC emissions shall be measured by EPA Test Method 18, 25 or 25C. (#30)

SUMMARY OF DESIGN CONDITIONS UNDER PERMIT UNIT REQUIREMENTS

Condition	Requirements	Limits
#6	All equipment shall be maintained in good operating condition and operated in a manner to minimize emissions of air contaminants into atmosphere	N/A
#7	All equipment shall be constructed, calibrated, maintained, and operated in accordance with all data and specifications submitted with the applications under which the permits are issued	Specifications and data submitted in the application
#11	The facility shall install and maintain in proper operating condition a gas flow meter with a continuous recorder	AQMD approval on the flow meter and recorder
#13	The flare shall be equipped with automatic dampers, an automatic shutdown device, and a flame arrester	N/A
#14	The flare shall be equipped with a temperature indicator and recorder	AQMD approval on the equipment
#21	Landfill design capacity shall not exceed the specify limits	2,200 tons/day (average) 3,600 tons/day (peak) 1,300,000 tons/year of refuge received 4.6 million cubic meters, or 361 acres of solid waste
#22	The flare shall be equipped with an LPG fired pilot	N/A
#23	Source sampling to determine the compliance status of flare shall be witnessed or authorized by District personnel	Witnessed or authorized by District personnel
#27	Source testing for NOx shall be conducted using CARB Test Method 7E or 100	N/A
#28	Source testing for CO shall be conducted using EPA Test Method 10 or 10B, CARB Methods 1-5 with 10 or CARB Method 100	N/A
#30	VOC emissions shall be measured by EPA Test Method 18, 25 or 25C	N/A

SUMMARY OF GCCS OPERATIONAL PROHIBITIONS UNDER PERMIT UNIT REQUIREMENTS

Condition	Requirements	Limits	Compliance Verification
#8	There shall be no visible emissions or air contaminants discharged that exceeds the specified standards	Ringelmann ¼ or 5% opacity for periods longer than 5 minutes during any 2 consecutive hours	Record keeping
#9	Particulate matter emissions from combustion sources shall not exceed the specified limit	0.1 grains/dscf (calculated to 12% CO2)	Annual performance test
#10	The landfill gas consumption rate to the flare shall not exceed the specified limit	51 MMBtu/hr	LFG throughput records
#12	Condensate injection flow rate to the flare shall not exceed the specified limit	1 gallon per minute	Condensate injection rate records
#15	The flare shall be operated within the parameter ranges established during the initial or most recent performance test	Parameter ranges established during the performance test	Annual performance test
#16	The flare combustion temperature for all 3-hour block average shall not drop more than 28 degrees C below the specified limit	Average combustion temperature determined during the most recent performance test	Flare temperature records
#17	In the event that the gas collection system or control device is inoperable, the gas mover system and all valves contributing to venting of LFG to the atmosphere or flare shall be closed within the specified time frame	1 hour	System design on automatic shutdowns
#18	The flare must achieve the minimum VOC destruction efficiency requirement	98% by weight	Annual performance test
#19	Emissions from the flare shall not exceed the specified limits	NOx – 0.05 lb/MMBtu CO – 0.2 lb/MMBtu PM10 – 0.034 lb/MMBtu VOC – 0.006 lb/MMBtu (or 20 ppmv as hexane @ 3% O2)	Annual performance test
#20	SOx emission from flare shall not exceed the specified limit	0.0178 lb/MMBtu (46.9 ppmv of H2S in fuel)	Sulfur testing records

3. SUMMARY OF LANDFILL MONITORING REQUIREMENTS

Continuous

- Monitor flare exhaust gas temperature with the temperature monitoring device and a continuous recorder. (Permit Unit #14)
- Monitor gas flow from the collection system to flare. (Permit Unit #11)
- Implement procedures required for disposal of asbestos containing material and appliances containing ozone-depleting refrigerants. (Facility-Wide #29, #36)

Daily

- Amount of gas flared (gas flow from collection system to the flare). (Permit Unit #11)
- Condensate injection flow rate to the flare. (Permit Unit #12)
- Control system and individual well shutdowns. (Permit Unit #37)
  Note: The landfill shall implement the site SSM plan for qualifying events

Weekly

- Inspection to ensure daily cleanup of dirt and/or mud accumulations on adjacent paved public roads is performed. * (Facility-Wide #33 / Permit Unit #3)
- Inspection to ensure water application on unpaved roads with 75 or more vehicle trips per day to limit VDE opacity to 20% is performed. * (Facility-Wide #34 / Permit Unit #4)
- Inspection of the effectiveness of dust control measures for land preparation activities associated with a landfill construction project, unpaved vehicle parking and equipment storage areas (over 1 acre and more than 75 vehicle trips per day), and bulk material storage and handling activities. * (Facility-Wide #31, #32, #35 / Permit Unit #1, #2, #5)
- Monitor any excess fugitive dust emissions or potential public nuisance due to landfill operations. * (Facility-Wide #40)

Monthly

- Monitor the following within each gas extraction well:

  (1) Gauge pressure: A negative value indicates a well is operating with a sufficient gas extraction rate. (Permit Unit #31)

  (2) Nitrogen concentration using Method 3C or oxygen concentration using Method 3A: Nitrogen concentration values < 20% or oxygen concentration values < 5% indicate well extraction rates are not causing excessive air infiltration into the landfill. (Permit Unit #32)

  (3) Monitor LFG temperature in extraction well: The temperature should be <55oC (131oF), unless otherwise demonstrated that a higher temperature is appropriate. An elevated LFG temperature is an indicator of subsurface fires and/or aerobic conditions within the landfill. (Permit Unit #32)

  If the monitored parameters exceed the above wellhead limits, corrective actions shall be initiated within 5 calendar days, and re-monitored to show corrections to the exceedances within 15 calendar days. (Permit Unit #33)

- Inspection on the integrity of the landfill cover and implement cover repairs as necessary. (40 CFR 60.755(c)(5))

Quarterly

- LFG sulfur content testing (as H2S) using dragger tubes. If compliance is shown for two consecutive quarters, the testing frequency can be reduced to annual. (#29)

- Monitor methane concentration at the landfill surface:
  Values > 500 ppm above background indicate an exceedance, which must be corrected and re-tested. (Permit Unit #34)

- Monitoring any potential nuisance along the landfill boundaries and to downwind receptors. * (Facility-Wide #40)

- Inspection should be conducted for perimeter roads and haul roads to ensure the smoothness of the road surfaces to avoid excessive dust accumulations & carryout to public paved roads. * (Facility-Wide #33 / Permit Unit #3)

Semi-Annually

- Monitor any potential visible emission sources for a period of 1 hour using EPA Method 9. * (Facility-Wide #22)

Annually

- Flare source testing of NOx and CO limits, and NMOC Control Efficiency. (Permit Unit #25, #26)

NOTE:

** Recommended monitoring activities to ensure compliance with associated regulations. The associated regulations do not have any specific monitoring requirements.*

SUMMARY OF NSPS/EG GCCS MONITORING REQUIREMENTS

Equipment	Monitoring Action	Schedule	Permit Condition	Reference
Gas Control System	Monitor combustion temperature of the enclosed flare with a temperature monitoring device equipped with a continuous recorder.	Continuous	Permit Unit #14	§60.756(b)(1)
	Monitor gas flow from collection system to enclosed combustion device	At least once every 15 minutes	Permit Unit #11	§60.756(c)(2)
	LFG throughput to flare	Daily	Permit Unit #11	§60.754(b)(1)
	Condensate injection flow rate to the flare	Daily	Permit Unit #12	District Rule 2201
Collection & Control System	Control system shutdowns and individual well shutdowns	Daily	Permit Unit #37	§60.757(f) §60.757(g)(4) §60.758(c), (e)
Landfill Cover	Monitor for cover integrity and implement cover repairs as necessary.	Monthly	Not specified in the permit	§60.755(c)(5)
Gas Collection System	Monitor gauge pressure within each gas extraction well. A negative value indicates a well is operating with a sufficient gas extraction rate.	Monthly	Permit Unit #31	§60.756(a)(1)
	Monitor nitrogen concentration using Method 3C or oxygen concentration using Method 3A. Nitrogen concentration values <20% or oxygen values < 5% indicate well extraction rates are not causing excessive air infiltration into the landfill.	Monthly	Permit Unit #32	§60.756(a)(2)
	Monitor LFG temperature in extraction well; should be <55°C (131°F), unless otherwise demonstrated that a higher temperature is appropriate. An elevated LFG temperature is an indicator of subsurface fires and/or aerobic conditions within the landfill.	Monthly	Permit Unit #32	§60.756(a)(3)
	Monitor methane concentration at the landfill surface. Values <500 ppm above background indicate well extraction rates are sufficient to minimize the amount of LFG seeping out of the landfill.	Quarterly OR Skip Method [a]	Permit Unit #34	§60.775(c) and §60.756(f)

Equipment	Monitoring Action	Schedule	Permit Condition	Reference
Collection & Control System	Source Testing of NOx, CO, NMOC Control Efficiency	Annually	Permit Unit #25, #26, #27, #28	District Rule 1070, 1081, 2201
MACT Rule	Implement SSM plan for qualifying SSM events	Event Basis	Not specified in the permit	§63.6(e)(3)

a When monitoring surface methane concentrations for a closed landfill shows no exceedances for three consecutive quarterly monitoring periods, then monitoring can be "skipped" to annual monitoring. Any exceedance of the 500 ppm methane standard returns the landfill to quarterly monitoring.

SUMMARY OF SJVAPCD GENERAL MONITORING REQUIREMENTS *

Equipment	Monitoring Action	Schedule	Permit Condition	Reference
Fugitive Dust Control Measures	Monitor any excess fugitive dust emissions due to landfill operations	Weekly	Facility Wide #31 / Permit Unit #1	Rule 8021 (Rule 8020)
	Inspections to ensure daily cleanups of dirt and mud accumulations on adjacent paved public roads are performed	Weekly	Facility Wide #33 / Permit Unit #3	Rule 8041 (Rule 8040)
	Inspections to ensure water applications on unpaved roads with 75 or more vehicle trips per day to limit VDE opacity to 20% are performed	Weekly	Facility Wide #34 / Permit Unit #4	Rule 8061 (Rule 8060)
	Inspection on the effectiveness of dust control measures for land preparation activities, unpaved vehicle parking & equipment storage area, and bulk material storage & handling activities	Weekly	Facility Wide #31, #32, #35 / Permit Unit #1, #2, #5	Rule 8021 (Rule 8020) Rule 8031 (Rule 8030) Rule 8071 (Rule 8070)
	Inspection of perimeter roads and haul roads to ensure the smoothness of the road surfaces	Quarterly	Facility Wide #33 / Permit Unit #3	Rule 8041 (Rule 8040)
Landfill Wide	Monitoring any potential nuisance along the landfill boundaries and to downwind receptors	Quarterly	Facility-Wide #40	Rule 4102
	Monitoring any potential visible emission sources for a period of one hour using EPA Method 9	Semi-Annual	Facility-Wide #22	Rule 4101

* Recommended actions to ensure compliance with associated regulations. The associated regulations do not have any specific monitoring requirements.

4. SUMMARY OF RECORD KEEPING REQUIREMENTS

Support Information

- Design Capacity Report, NMOC Emission Rate Reports, Collection and Control System Design Plan, and performance testing data. (40 CFR 60.758(a) & (b))

- Plot map showing each existing and planned well in the gas collection system. (40 CFR 60.758(d))

- Description, location, amount, and placement date of all non-degradable refuse, including asbestos and demolition refuse placed in landfill areas which are excluded from LFG collection and control. (40 CFR 60.758(d)(2))

- Calibration and maintenance records of the LFG collection system. (Facility-Wide #9; Permit Unit #37)

- Records of the fugitive emission mitigation and monitoring activities as specified in the monitoring summary in Section 3:

    - Identified excessive fugitive dust emission incident & corresponding monitoring or control measures implemented
    - Weekly inspections on the cleaning of accumulated dirt or mud on adjacent paved public roads
    - Weekly inspections on the implementations of water application on unpaved roads; and fugitive dust emission control measures for land preparation activities, unpaved vehicle parking & equipment storage area, and bulk material storage & handling activities
    - Quarterly inspections on perimeter and haul road conditions

  (Facility-Wide #31, #32, #33, #34, #35 / Permit Unit #1, #2, #3, #4, #5)

- Records of identified visible emission or nuisance incidents, public complaints, and associated corrective actions taken. (Facility-Wide #22, #40)

- Verifications from the qualified party performing the removal of appliances contained refrigerants onsite for recycle (Facility-Wide #29)

- If the landfill accepts asbestos containing material, waste shipment records will be kept on-site. Records of asbestos location, depth to areas and quantity will be kept on-site. (Facility-Wide #36)

Continuous

- Continuous records of flare combustion temperature, and volumetric flow rate. (Facility-Wide #9; Permit Unit #35)

Daily

- Records of volume of gas flared (gas flow from collection system to the flare) (Permit Unit #11)

- Records of condensate injection flow rate to the flare. (Permit Unit #12)

- Records of control system and individual well shutdowns. (Permit Unit #37)
  Note: The landfill shall implement SSM plan and fill out SSM reporting forms for qualifying events

Monthly

- LFG temperature monitoring records in extraction wells; and

- Gauge pressure monitoring records within each gas extraction well; and

- Nitrogen concentration or oxygen concentration monitoring records, include:
  1) The date, place and time of sampling or measurement
  2) The date(s) analyses were preformed
  3) The company or personnel that performed the analysis
  4) The analytical techniques or methods used
  5) The results of such analysis
  6) The operating conditions at the time of sampling or measurement

  (Permit Unit #31, #32, #33)

- Inspection and repair records of the landfill cover integrity monitoring. * (40 CFR 60.755(c)(5))

Quarterly

- Records of LFG sulfur content testing (as H2S) using dragger tubes. If compliance is shown for two consecutive quarters, the testing frequency can be reduced to annual. (Permit Unit #29)

- Monitoring records of methane concentration at the landfill surface, include:
  1) The date, place and time of sampling or measurement
  2) The date(s) analyses were preformed
  3) The company or personnel that performed the analysis
  4) The analytical techniques or methods used
  5) The results of such analysis
  6) The operating conditions at the time of sampling or measurement

  (Permit Unit #34)

Annually

- Year-by-year refuse accumulation rates (40 CFR 60.758(a))
- Current amount of refuse-in-place (40 CFR 60.758(a))
- Source testing results of NOx, CO, and NMOC Control Efficiency. (Permit Unit #36, #38)

NOTE:

* ***Recommended record keeping items. The associated record keeping is not mandatory under the facility permit.***

SUMMARY OF NSPS/EG RECORD KEEPING REQUIREMENTS

Type of Record	Record Keeping Item	Permit Condition	Reference
Landfill and Control System Design	For design capacity ≥ 2.5 million Mg/yr and 2.5 million m^3 : Current amount of refuse-in-place, and year-by-year refuse accumulation rates	Not specified in the permit	§60.758(a)
	Plot map showing each existing and planned well in the gas collection system. Provide unique identifying labels for each well. Installation date and location of all newly installed wells per §60.755(b). Description, location, amount, and placement date of all non-degradable refuse including asbestos and demolition refuse placed in landfill areas that are excluded from LFG collection and control.	Not specified in the permit	§60.758(d) §60.758(d)(1) §60.758(d)(2)
Monitored Operating Parameters for Gas Collection and Control Systems	Gas flow from collection system to the control device	Permit Unit #35	§60.758(c)
	(1) Gauge pressure in each extraction well, (2) Nitrogen or oxygen concentration in extracted LFG. (3) Temperature of extracted LFG.	Permit Unit #31, #32	
	Methane concentrations along landfill surface (Surface emission monitoring)	Permit Unit #34	
	Operating parameters for alternative collection and control system designs, which are specified by the landfill and approved by the implementing agency.	Not specified in the permit	
Measurements From Initial Performance Test	Maximum expected gas generation flow rate Density of wells, horizontal collectors, surface collectors, or other gas extraction devices. For enclosed flares: (1) Average combustion temperature measured at least every 15 minutes and averaged over the performance test duration. (2) Percent reduction of NMOC's by the control device.	Permit Unit #36, #38	§60.758(b)(1)(i) §60.758(b)(1)(ii) §60.758(b)(2)

Type of Record	Record Keeping Item	Permit Condition	Reference
Gas Control System: Periods When Operating Parameters Exceeded Limits Set by Most Recent Performance Test	For enclosed flare: Records of all 3-hour periods in which the average combustion temperature was more than 28°C (50°F) below the average combustion temperature measured during the most recent performance test.	Permit Unit #16, #35	§60.758(c)(1)(i)
Gas Collection and Control System: Exceedances of operational standards	Record all values which exceed the operational standards specified in §60.753. Also include the operating value from the next monitoring period and the location of each exceedance: (1) New well installation, (2) Pressure in each extraction well, (3) Nitrogen concentration or oxygen concentration in extracted LFG, (4) Temperature of extracted LFG, (5) Methane concentrations along landfill surface, (6) Collected LFG is routed to control device at all times, note periods when the collection system and/or control device were not operational.	Permit Unit #33, #34, #37	§60.758(e)
MACT Rule Requirements	Implement SSM plan and fill out SSM reporting forms for qualifying events	Not specified in the permit	§63.6(e)(3)

SUMMARY OF SJVAPCD RECORD KEEPING REQUIREMENTS

Operation	Record Keeping Item	Permit Condition	Reference
Collection & Control System	Permit Condition Deviation, Equipment Breakdown reporting & Maintenance Records	Facility-Wide #1, #2, #11	Rule 1100, 6.1; 7.1 Rule 2520, 9.5.2
	Annual source testing results of NOx, CO, and NMOC Control Efficiency	Permit Unit #36, #38	Rule 1081
Operating Parameters for Condensate Injection System	Records of condensate injection flow rate to the flare	Permit Unit #12	Rule 2201
Fugitive Dust Control Activities	* Records of the fugitive emission mitigation and monitoring activities as specified in the monitoring summary in section 3: - Identified excessive fugitive dust emission incident & corrective control or monitoring measures implemented - Weekly inspections on cleaning of accumulated dirt or mud on adjacent paved public roads - Weekly inspections on the implementations of fugitive dust emission control measures for unpaved roads, land preparation activities, unpaved vehicle parking & equipment storage area, and bulk material storage & handling activities - Quarterly inspections on perimeter and haul road conditions	Facility-Wide #31 ~ #35 / Permit Unit #1 ~ #5	Rule 8021 (Rule 8020) Rule 8031 (Rule 8031) Rule 8041 (Rule 8040) Rule 8061 (Rule 8060) Rule 8071 (Rule 8070)
Visible Emission & Public Nuisance Monitoring	* Record any public complaints, identified nuisance or visible emission incidents as specified in SJVAPCD monitoring summary table, and associated corrective actions taken	Facility-Wide #22, #40	Rule 4101 Rule 4102

* Recommended actions to ensure compliance with associated regulations. The associated regulations do not have any specific record keeping requirements.

5. SUMMARY OF REPORTING REQUIREMENTS

Emergency Break Down

1. Verbal report or fax to San Joaquin APCD regional compliance office within one hour
   Fresno: Tel – (559) 230-5950, Fax – (559) 230-6062
2. If the break down condition cannot be corrected within 24 hours, file an emergency variance.
3. Document the process condition that lead to the break down and corrective actions taken
4. Submit written report (Deviation Reporting Form) within 10 days after the break down condition has been corrected.

(Facility-Wide #1, #2)

Deviation Report

- Submit written report (Deviation Reporting Form) within 10 days after the deviation has been detected to the District's Regional Compliance Office * (Facility-Wide #11)

Semi-Annual Report of Required Monitoring

- Submit TV Form-007 to the District with identifications of all instances of deviations from permit conditions. Reports are due on January 30th & July 30th annually. (Facility-Wide #10, #41)

Annual Compliance Certificate

- Submit TV Form-006 to the District and EPA Regional Office (Due on July 30th).
  (Facility-Wide #37, #41)

Semi-Annual NSPS Reporting

- Submit NSPS Semi-Annual Report to the District and EPA Regional Office.

  Note: This report shall incorporate the semi-annual SSM report as required under the MACT rule (40 CFR Part 63, Subpart AAAA) adopted on January 16, 2003. Please refer to the landfill's SSM Plan for more information.

SUMMARY OF NSPS/EG REPORTING REQUIREMENTS FOR MSW LANDFILLS

Report or Action	Schedule	Reference
Initial Design Capacity Report *	Submit report according to whichever of the following deadlines occurs first: (1) June 10, 1996, for landfills that commenced construction, modification, or reconstruction on or after May 30, 1991 but before March 12, 1996, OR (2) 90 days after the date of commenced construction, modification, or reconstruction on or after March 12, 1996.	§60.757(a)(1)
Amended Design Capacity Report *	If design capacity is increased to a value that equals or exceeds 2.5 million Mg and 2.5 million m^3, the landfill must submit an Amended Design Capacity Report. Submit report within 90 days of the design capacity increase.	§60.757(a)(3)
Annual OR Five-Year **a** NMOC Emission Rate Report * (Tier 1)	Submit report according to whichever of the following deadlines occurs first. May submit with Initial Design Capacity Report. (1) June 10, 1996, for landfills that commenced construction, modification, or reconstruction on or after May 30, 1991, but before March 12, 1996, OR (2) 90 days after the date of commenced construction, modification, or reconstruction on or after March 12, 1996. Repeat either once a year OR once every 5 years, until NMOC rate ≥50 Mg/yr.	§60.757(b) §60.752(b)(1)(ii)
Revised NMOC Emission Rate Report * (Tier 2)	If Tier 1 analysis results in NMOC emissions ≥50 Mg/yr, a revised NMOC emission rate report using data gathered from Tier 2 analysis can be submitted within 180 days of the initial calculated exceedance.	§60.757(c)(1)
Revised NMOC Emission Rate Report (Tier 3)	If Tier 2 analysis results in NMOC emissions ≥50 Mg/yr, a revised NMOC Emission Rate Report using data gathered from Tier 3 analysis can be submitted within 1 year of the initial calculated exceedance.	§60.757(c)(2)
Collection and Control System Design Plan *	Within 1 year after submitting NMOC Emission Rate Report with a value ≥50 Mg/yr. Plans must gain Agency approval prior to installation.	§60.752(b)(2)(i)
Emission Control System Start-up *	Control system based on approved design will startup within 30 months after submitting NMOC Emission Rate Report with a value ≥50 Mg/yr.	§60.752(b)(2)(ii)
Initial Control System Performance Test Report	Submit report within 180 days of emission collection and control system start-up per §60.8. Results shall be included in the initial Annual Report.	§60.757(f) §60.757(g)

Report or Action	Schedule	Reference
Annual Compliance Report	Submit initial report within 180 days of emission collection and control system start-up. The initial annual report shall include the initial performance test report required under §60.8 Report once every 12 months.	§60.757(f) §60.757(g)
Landfill Closure Report	When landfill is no longer accepting refuse and the landfill is considered closed. Submit report within 30 days of refuse acceptance cessation.	§60.757(d)
Control Equipment Removal Report	Submit report within 30 days prior to removal or cessation of control system operations. Controls can be removed after meeting all of these criteria: (1) Landfill Closure Report has been submitted, (2) Control system was operated for at least 15 years, and (3) Three consecutive NMOC Emission Rate Reports with values <50 Mg/yr achieved.	§60.757(e)
Semi-Annual SSM Report	The adoption of the MACT rule will require the annual compliance report to be submitted semi-annually	§63.6(e)(3)

a. The owner/operator may elect to submit an estimate of the NMOC emission rate for the next 5 years in lieu of the annual report if the estimated NMOC emission rate is <50 Mg/yr in each of the 5 years.

* These reports have already been submitted for the American Avenue site. Copies of the reports must be kept on file for a minimum of 5 years.

SUMMARY OF SJVAPCD REPORTING REQUIREMENTS

Report or Action	Schedule	Permit Condition	Reference
Compliance Certification Report	Submit original compliance certification to the District & a copy to EPA annually. The forms are enclosed in Appendix B. Report due on July 30th annually.	Facility-Wide #37, #41	Rule 2520, 9.5; 9.16
Report of Required Monitoring	Submit semi-annual report of required monitoring with identifications of all instances of deviations from permit conditions. The forms are enclosed in Appendix B. Report due on January 30th & July 30th semi-annually.	Facility-Wide #10, #41	Rule 2520, 9.4.1; 9.5
Deviation Report	Report of Permit Condition Deviation. A description of the permit requirement deviation, the probable cause, and any corrective action or preventive measures taken is required. The forms are enclosed in Appendix B. Reports due within 10 days of discovery to the local Compliance Division office.	Facility-Wide #11	Rule 1100, 7.0 Rule 2520, 9.5.2
Emergency Breakdown Reporting	Notify District within 1 hour after detection. Submit written report within 10 days after correction of the breakdown condition to the local Compliance Division office.	Facility-Wide #1, #2	Rule 1100, 6.1; 7.1 Rule 2520, 9.5.2
Annual Emission Reporting *	Report actual emissions of NOx or VOC	Facility-Wide #3	Rule 1160, 5.0

* Only applicable if the NOx or VOC emissions exceeds 25 tons per year

6. COMPLIANCE SCHEDULE

INITIAL TITLE V PERMIT ISSUANCE DATE: June 30, 2002

Schedule	Compliance Activity	Note
January	Monthly Monitoring Monthly Dust & Visible Emission Checklist* Report of Required Monitoring due Semi-Annual NSPS / SSM Report	LFG Extraction Wells / Landfill Cover SJVAPCD TV Form-007
February	Monthly Monitoring Monthly Dust & Visible Emission Checklist*	LFG Extraction Wells / Landfill Cover
March	Monthly Monitoring Monthly Dust & Visible Emission Checklist* Quarterly Monitoring	LFG Extraction Wells / Landfill Cover Surface Emission
April	Monthly Monitoring Monthly Dust & Visible Emission Checklist*	LFG Extraction Wells / Landfill Cover
May	Monthly Monitoring Monthly Dust & Visible Emission Checklist*	LFG Extraction Wells / Landfill Cover
June	Monthly Monitoring Monthly Dust & Visible Emission Checklist* Quarterly Monitoring Annual Source Test [1]	LFG Extraction Wells / Landfill Cover Surface Emission Permit Unit Condition #25, #26
July	Monthly Monitoring Monthly Dust & Visible Emission Checklist* Report of Required Monitoring due Compliance Certification Report Semi-Annual NSPS / SSM Report	LFG Extraction Wells / Landfill Cover SJVAPCD TV Form-007 SJVAPCD TV Form-006
August	Monthly Monitoring Monthly Dust & Visible Emission Checklist*	LFG Extraction Wells / Landfill Cover
September	Monthly Monitoring Monthly Dust & Visible Emission Checklist* Quarterly Monitoring	LFG Extraction Wells / Landfill Cover Surface Emission
October	Monthly Monitoring Monthly Dust & Visible Emission Checklist*	LFG Extraction Wells / Landfill Cover
November	Monthly Monitoring Monthly Dust & Visible Emission Checklist*	LFG Extraction Wells / Landfill Cover
December	Monthly Monitoring Monthly Dust & Visible Emission Checklist* Quarterly Monitoring	LFG Extraction Wells / Landfill Cover Surface Emission

* Recommended monitoring activities to ensure compliance with associated regulations. The associated regulations do not have any specific monitoring requirements.

APPENDIX A: MONITORING FORMS

APPENDIX B: REPORTING FORMS

APPENDIX C: LIST OF MONITORING AND REPORTING REQUIREMENTS

APPENDIX D: (RESERVED)