

Title V

Model General Permit Template

SERIES 1 FLARES

Template # SJV-FL-1-1

nonassisted, air-assisted, or steam-assisted elevated open flares

actual emissions less than 20 tons VOC per year

used to comply with NSPS VOC control requirements for petroleum liquid storage tanks, loading racks, or gas plant fugitive VOC equipment leaks

This template is designed to streamline the Title V permitting process for flares meeting the above qualifications. Applicants for Title V permits choosing to use this template will only have to complete the enclosed template qualification form and submit it with their Title V application.

San Joaquin Valley Unified Air Pollution Control District

**Final
Title V Model General Permit Template
Series 1 Flares**

Template No: SJV-FL-1-1

PREPARED BY:

**Darrin Pampaian
Air Quality Engineer**

REVIEWED BY:

**Rick McVaigh
Permit Services Manager**

APPROVED BY:

**Seyed Sadredin
Director of Permit Services**

FINAL DECISION DATE:

**SAN JOAQUIN VALLEY
UNIFIED AIR POLLUTION CONTROL DISTRICT**

TITLE V GENERAL PERMIT TEMPLATE SJV-FL-1-1

ENGINEERING EVALUATION

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I. Purpose

The purpose of this template is to streamline the Title V permitting process by identifying the federally applicable requirements for certain flares and to establish permit conditions, which will ensure compliance with such requirements. These conditions will be incorporated into the Title V permit of any facility choosing to make use of this template.

II. Template Applicability

The template applies to any nonassisted, air-assisted, or steam-assisted elevated open flare which:

is used to comply with NSPS VOC control requirements for petroleum liquid storage tanks, loading racks, or gas plant fugitive VOC equipment leaks,

and has actual emissions less than 20 tons VOC per year.

The applicability of this template can best be established by answering the questions on the Template Qualification Form, attached as Appendix A.

III. Applicable Requirements

Units may be subject to “federally enforceable” requirements as well as requirements that are enforceable by the “District-only.” Federally enforceable requirements will be enforceable by the EPA, the District, and the public through Title V permit conditions identified as federally enforceable. District-only requirements represent local or state regulations for which the EPA has no direct enforcement authority. The final Title V permits issued by the District will contain both federally enforceable and District-only requirements.

District-only requirements are not addressed in this template except for those used in streamlining of multiple requirements (see discussion in section IV). District-only requirements used in streamlining of multiple requirements will become federally enforceable. Table 1, Applicable Requirements, does not necessarily include all federally enforceable requirements that apply to flares qualifying to use this template, and it is the source’s responsibility to determine any and all applicable requirements to which the source is subject. Generally, requirements not addressed by this template are those that require a source specific analysis, or are covered by other templates.

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Table 1: Applicable Requirements			
Rule Category	Rule/Regulation	Citation	Description
A	NSPS Subpart A	60.18 (b-f)	General control device requirements
A	SJVUAPCD Reg. II	2520, 9.4.2, 9.5.2, 13.2	Monitoring Requirements, Recordkeeping Requirements, and Permit Shields
B	SJVUAPCD Reg. II	2201	New Source Review Rule
B	SJVUAPCD Reg. II	2520	Federally Mandated Operating Permits
C	SJVUAPCD Reg. I	1080	Continuous Emissions Monitoring
C	SJVUAPCD Reg. I	1081	Source Sampling
C	SJVUAPCD Reg. IV	4201	Particulate Matter Concentration
C	SJVUAPCD Reg. IV	4301	Fuel Burning Equipment
D	SJVUAPCD Reg. IV	4101	Visible Emissions
D	SJVUAPCD Reg. IV	4311	Flares

Category “A” rules contain requirements that are directly applicable to the qualifying units; compliance with these applicable requirements will be demonstrated in this engineering evaluation and assured by the template permit conditions. In section IV, Compliance, the federally enforceable requirements from category “A” rules are listed with a discussion of how compliance with these requirements is achieved.

Category “B” rules contain federally enforceable requirements (aside from those listed as category A) that were not addressed in this template. These may not be all of the federally enforceable requirements for this unit. Requirements from these rules must be addressed by the applicant outside of this template within the Title V application Compliance Plan form (TVFORM-004). Category “B” listings are included in this table as an informational item to assist applicants in this effort.

Category “C” rules contain requirements, which have been determined not to be applicable to qualifying units. A permit shield is proposed for the category “C” rules. An explanation of the determination of non-applicability of category “C” rules is included in section V, Permit Shield.

Category “D” rules are District rules, which are used to show compliance with federally enforceable requirements, and therefore some requirements from these rules will become federally enforceable through the use of this template.

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IV. Compliance

This section contains a discussion of how compliance is assured with each requirement addressed in this template.

40 CFR 60 Subpart A

NSPS Subpart A section 60.18 (c)(1) requires flares to be designed and to operate with no visible emissions, except for periods not to exceed 5 minutes during any 2 consecutive hours. Section 60.18 (f)(1) also requires that visible emissions determinations be made using EPA Method 22. Compliance with these requirements are streamlined in Table 2 and assured by template permit conditions #2 and #3.

Sections 60.18 (c)(3), 60.18 (c)(5), and 60.18 (f)(3-6) states that nonassisted flares shall have a diameter of 3 inches or greater, have a hydrogen content of 8.0 percent (by volume), or greater, and be designed for and operated with an exit velocity less than 37.2 m/sec (122 ft/sec) and less than the velocity, V_{max} , as determined by the equation in this section. These sections also set a limit on the net heating value of the flared gas to be no less than 200 Btu/scf for nonassisted flares and 300 Btu/scf for air-assisted or steam-assisted flares. The method to be used to calculate net heating value is also specified. Compliance with these requirements is assured by template permit conditions #10, #11, #12, #16, and #17.

Section 60.18 (c)(4)(i-iii) also requires the flare gas exit velocity to conform to the following limits:

<u>Flare Type</u>	<u>Flare Gas Min. Btu/scf</u>	<u>Exit Velocity (ft/sec)</u>	
		<u>Min</u>	<u>Max</u>
Air-assisted	300	----	< 55
Nonassisted	200	----	< 60
Steam-assisted	300	----	< 60
Nonassisted	>1,000	60	<400
Steam-assisted	>1,000	60	<400

Compliance with these operating limits will be ensured by template permit conditions #13, #14, and #15.

Sections 60.18 (c)(2), 60.18 (e), and 60.18 (f)(2)

These sections of Subpart A require that flares be operated with a flame present at all times when emissions may be vented to them. The presence of the pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the flame presence. Compliance with these requirements will be assured by template permit conditions #4, #5, and #6.

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District Rule 2520, 9.3.2 and 9.4.2

Section 9.3.2 requires that periodic monitoring be performed if none is associated with a federally enforceable requirement to assure compliance. Periodic monitoring required by this section is supported by template permit conditions #1, #3, and #9. These conditions limit VOC emissions to 20 tons per year for each unit, require additional visible emissions monitoring by the source, and require the flare be operated according to manufacturer's specifications to assure compliance with 40CFR 60.18.

Section 9.4.2 requires all records be maintained for at least five years. Template permit condition #18 will assure that all records be maintained for at least five years.

District Rule 4311, 5.0 and 6.0

The following is a streamlining of multiple applicable requirements of District Rule 4311 and 40 CFR 60, Subpart A, § 60.18 General Control Device Requirements.

Table 2: Side-by-Side Comparison of District Rule 4311 to 40 CFR 60, Subpart A, § 60.18			
Type of Requirement	District Rule 4311 (unless otherwise noted)	Subpart A, § 60.18	Alternate Proposed Requirement
Monitoring	Rule 4101 (5.1) A person shall not discharge into the atmosphere from any single source of emission whatsoever, any air contaminant, other than uncombined water vapor, for a period or periods aggregating more than three (3) minutes in any one (1) hour which is: As dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines.	(c)(1) Flares shall be designed for and operated with no visible emissions as determined by the methods specified in paragraph (f), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.	No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity.
Monitoring	N/A	(f)(1) Reference Method 22 of Appendix A to this part shall be used to determine the compliance of flares with the visible emission provisions of this subpart. The observation period is 2 hours and shall be used according to Method 22 of Appendix A to this part.	Visible emissions monitoring shall be conducted at least annually, using EPA Method 22.
Monitoring	(5.2) The flame shall be present at all times when combustible gases are vented through the flare.	(c)(2) Flares shall be operated with a flame present at all times, as determined by the methods specified in paragraph (f).	The flame shall be present at all times when combustible gases are vented through the flare.
Monitoring	N/A	(e) Flares used to comply with provisions of this subpart shall be operated at all times when emissions may be vented to them.	Previously addressed.

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**Table 2: Side-by-Side Comparison of District Rule 4311 to
40 CFR 60, Subpart A, § 60.18**

Type of Requirement	District Rule 4311 (unless otherwise noted)	Subpart A, § 60.18	Alternate Proposed Requirement
Monitoring	(5.3) The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares.	(f)(2) The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.	The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares.
Monitoring	(5.4) Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated.	N/A	Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated.
Monitoring	(5.5) Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging.	N/A	Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging.
Monitoring	(5.6) Open flares (air-assisted, steam-assisted, or non-assisted) in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18.	N/A	Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18.
Monitoring	N/A	(d) Owners or operators of flares used to comply with the provisions of this subpart shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how owners or operators of flares shall monitor these control devices.	The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site.

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**Table 2: Side-by-Side Comparison of District Rule 4311 to
40 CFR 60, Subpart A, § 60.18**

Type of Requirement	District Rule 4311 (unless otherwise noted)	Subpart A, § 60.18	Alternate Proposed Requirement
Monitoring	N/A	<p>(c)(3)(i)(A) Flares shall be used that have a diameter of 3 inches or greater, are nonassisted, have a hydrogen content of 8.0 percent (by volume), or greater, and are designed for and operated with an exit velocity less than 37.2 m/sec (122 ft/sec) and less than the velocity, V_{max}, as determined by the following equation:</p> $V_{max} = (XH_2 - K1) * K2$ <p>Where: V_{max} = Maximum permitted velocity, m/sec. K1 = Constant, 6.0 volume-percent hydrogen. K2 = Constant, 3.9(m/sec)/volume-percent hydrogen. XH_2 = The volume-percent of hydrogen, on a wet basis, as calculated by using the American Society for Testing and Materials (ASTM) Method D1946-77.</p>	<p>The flare shall have a diameter of 3 inches or greater, have a minimum hydrogen content of 8.0% by volume, and be designed for and operated with an exit velocity less than 122 ft/sec and less than the velocity V_{max}, as determined by the equation specified in paragraph 40 CFR 60.18 (c)(3)(i)(A).</p>
Monitoring	N/A	<p>(f)(4) The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip.</p>	<p>The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip.</p>
Monitoring	N/A	<p>(c)(3)(ii) Flares shall be used only with the net heating value of the gas being combusted being 11.2 MJ/scm (300 Btu/scf) or greater if the flare is steam-assisted or air-assisted; or with the net heating value of the gas being combusted being 7.45 MJ/scm (200 Btu/scf) or greater if the flare is nonassisted. The net heating value of the gas being combusted shall be determined by the methods specified in paragraph (f)(3) of this section.</p>	<p>Air-assisted or steam-assisted flares shall only be used when the net heating value of the gas being combusted is 300 Btu/scf or greater. Nonassisted flares shall only be used when the net heating value of the gas being combusted is 200 Btu/scf or greater.</p>
Monitoring	N/A	<p>(c)(4)(i) Steam-assisted and nonassisted flares shall be designed for and operated with an exit velocity, as determined by the methods specified in paragraph (f)(4) of this section, less than 18.3 m/sec (60 ft/sec), except as provided in paragraphs (c)(4) (ii) and (iii).</p>	<p>Steam-assisted and nonassisted flares shall be operated with an exit velocity, less than 60 ft/sec, except as provided in 40 CFR 60.18 (c)(4)(ii) and (iii).</p>

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**Table 2: Side-by-Side Comparison of District Rule 4311 to
40 CFR 60, Subpart A, § 60.18**

Type of Requirement	District Rule 4311 (unless otherwise noted)	Subpart A, § 60.18	Alternate Proposed Requirement
Monitoring	N/A	(c)(4)(ii) Steam-assisted and nonassisted flares designed for and operated with an exit velocity, as determined by the methods specified in paragraph (f)(4), equal to or greater than 18.3 m/sec (60 ft/sec) but less than 122 m/sec (400 ft/sec) are allowed if the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1,000 Btu/scf).	Steam-assisted and nonassisted flares may be operated with an exit velocity equal to or greater than 60 ft/sec, but less than 400 ft/sec, if the net heating value of the gas being combusted is greater than 1,000 Btu/scf.
Monitoring	N/A	(c)(4)(iii) Steam-assisted and nonassisted flares designed for and operated with an exit velocity, as determined by the methods specified in paragraph (f)(4), less than the velocity, V_{max} , as determined by the method specified in paragraph (f)(5), and less than 122 m/sec (400 ft/sec) are allowed. (f)(5) The maximum permitted velocity, V_{max} , for flares complying with paragraph (c)(4)(iii) shall be determined by the following equation. $\text{Log}_{10}(V_{max}) = (H_T + 28.8) / 31.7$ $V_{max} = \text{Maximum permitted velocity, M/sec}$ $28.8 = \text{Constant}$ $31.7 = \text{Constant}$ $H_T = \text{The net heating value as determined in paragraph (f)(3).}$	Steam-assisted and nonassisted flares may be operated with an exit velocity less than the velocity V_{max} , as determined by the methods specified in 40 CFR 60.18 (f)(5), and less than 400 ft/sec.
Monitoring	N/A	(c)(5) Air-assisted flares shall be designed and operated with an exit velocity less than the velocity, V_{max} , as determined by the method specified in paragraph (f)(6). (f)(6) The maximum permitted velocity, V_{max} , for air-assisted flares shall be determined by the following equation. $V_{max} = 8.706 + 0.7084 (H_T)$ $V_{max} = \text{Maximum permitted velocity, m/sec}$ $8.706 = \text{Constant}$ $0.7084 = \text{Constant}$ $H_T = \text{The net heating value as determined in paragraph (f)(3).}$	Air-assisted flares shall be operated with an exit velocity less than the velocity V_{max} as determined by the methods specified in 40 CFR 60.18 (f)(6).
Monitoring	N/A	(c)(6) Flares used to comply with this section shall be steam-assisted, air-assisted, or nonassisted.	Addressed in the TQF.

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**Table 2: Side-by-Side Comparison of District Rule 4311 to
40 CFR 60, Subpart A, § 60.18**

Type of Requirement	District Rule 4311 (unless otherwise noted)	Subpart A, § 60.18	Alternate Proposed Requirement
Monitoring	N/A	<p>(f)(3) The net heating value of the gas being combusted in a flare shall be calculated using the following equation:</p> $H_T = \sum C_i H_i, \text{ from } i = 1 \text{ to } n$ <p>where:</p> <p>H_T = Net heating value of the sample, MJ/scm; where the net enthalpy per mole of offgas is based on combustion at 25°C and 760 mm Hg, but the standard temperature for determining the volume corresponding to one mole is 20°C;</p> <p>K = Constant, 1.740×10^{-7} (1)/(ppm) (g mole)/(scm) (MJ)/(kcal)</p> <p>where the standard temperature for (g mole) / (scm) is 20° C</p> <p>C_i = Concentration of sample component i in ppm on a wet basis, as measured for organics by Reference Method 18 and measured for hydrogen and carbon monoxide by ASTM D1946-77 or 90 (Re-approved 1994)(Incorporated by reference as specified in § 60.17); and</p> <p>H_i = Net heat of combustion of sample component i, kcal/g mole at 25°C and 760 mm Hg.</p> <p>The heats of combustion may be determined using ASTM D2382-76 or 88 or D4809-95. (incorporated by reference as specified in § 60.17) if published values are not available or cannot be calculated.</p>	The net heating value of the gas being combusted the flare shall be calculated pursuant to 40 CFR 60.18(f)(3) or by using EPA Method 18, ASTM D1946, and ASTM D2382 if published values are not available or cannot be calculated.
Administrative	(6.1.1) Upon request, the operator of flares that are subject to Section 5.6 shall make available to the APCO the compliance determination records that demonstrate compliance with the provisions of 40 CFR 60.18, (c)(3) through (c)(5).	N/A	The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years.
Administrative	(6.2.1) The operator shall keep the following records at the facility for a period of at least five years: Copy of the compliance determination pursuant to section 6.1.1.	N/A	Addressed in the facility-wide template, SJV-UM-0-2

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**Table 2: Side-by-Side Comparison of District Rule 4311 to
40 CFR 60, Subpart A, § 60.18**

Type of Requirement	District Rule 4311 (unless otherwise noted)	Subpart A, § 60.18	Alternate Proposed Requirement
Test Methods	<p>(6.3.1) VOC, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422 “Determination of Volatile organic Compounds in Emission from Stationary Sources”. The VOC concentration in ppmv shall be converted to pounds per million Btu (lb/MMBtu) by using the following equation:</p> $\text{VOC in lb/MMBtu} = \frac{[(\text{ppmv dry}) \times F \text{ dscf/MMBtu}]}{[1,135,000 \times (20.9 - \%O_2)]}$ <p>Where: F = As determined by EPA Method 19</p> <p>Alternate equivalent test methods may be used provided the test methods have been approved by the APCO and EPA.</p>	N/A	This test method is not applicable to open flares and will not be required.
Test Methods	(6.3.2) NO _x emissions in pounds per million BTU shall be determined by using EPA Method 19.	N/A	This test method is not applicable to open flares and will not be required.
Test Methods	(6.3.3) NO _x and O ₂ concentrations shall be determined by using EPA Method 3A, EPA Method 7E, or ARB 100.	N/A	This test method is not applicable to open flares and will not be required.

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V. Permit Shield

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Title V permit (District Rule 2520, 13.2). Compliance with the terms and conditions of the Title V permit is considered compliance with all applicable requirements upon which those conditions are based.

40 CFR 60.18, except for 60.18 (c)(3)(1)(a), (f)(3), (f)(5), and (f)(6)

By using this template the applicant is requesting a permit shield from the requirements of 40 CFR 60.18, except sections 60.18(c)(3)(1)(a), (f)(3), (f)(5), and (f)(6). A permit shield is granted from these requirements in template permit condition #19.

District Rule 1080

A permit shield will be granted for SJVUAPCD District Rule 1080 because units qualifying to use this template are not subject to any CEM requirements. A permit shield is granted from this requirement in template permit condition #20.

District Rule 1081

A permit shield will be granted for SJVUAPCD District Rule 1081 because units qualifying to use this template are subject only to visible emissions monitoring. Rule 1081 describes procedures for isokinetic source sampling. As a result, units qualifying to use this template are exempt from the procedures described in Rule 1081. A permit shield is granted from this requirement in template permit condition #21.

District Rule 4101

A permit shield will be granted for SJVUAPCD District Rule 4101 because the visible emission limit is stipulated in template permit condition #2. A permit shield is granted from this requirement in template permit condition #22.

District Rule 4201

A permit shield will be granted for SJVUAPCD District Rule 4201 because this rule is applicable to a source operation only. The District defines source operation as “The last operation preceding the emission of any air contaminant, which is not an air pollution abatement operation.” Since units qualifying to use this template are flares used for VOC control, and are therefore an air pollution abatement operation, District Rule 4101 is not applicable to any unit using this template. A permit shield is granted from this requirement in template permit condition #23.

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District Rule 4301

A permit shield will be granted for SJVUAPCD District Rule 4301 because this Rule defines fuel burning equipment as any furnace, boiler, or apparatus used in the process of burning fuel for the primary purpose of producing heat or power by indirect heat transfer. Units qualified to use this template do not meet the definition of fuel burning equipment as defined in Rule 4301. A permit shield is granted from this requirement in template permit condition #24.

VI. Permit Conditions

The following conditions will be incorporated into the Title V permit of any facility choosing to make use of template #SJV-FL-1-1:

1. Actual flare emissions shall not exceed 20 tons-VOC/year. Process information, including fuel usage data for the flare and process rates for operations controlled by the flare, shall be submitted to the District annually. [District Rule 2520, 9.3.2]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101, 5.1 and 40CFR 60.18(c)(1)]
3. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22. [40CFR 60.18(f)(1)]
4. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311, 5.2 and 40CFR 60.18(c)(2)]
5. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311, 5.3 and 40CFR 60.18(f)(2)]
6. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311, 5.4 and 40CFR 60.18(f)(2)]
7. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311, 5.5]
8. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311, 5.6]

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9. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [40CFR 60.18(d)]
10. A non-assisted flare shall have a diameter of 3 inches or greater, have a minimum hydrogen content of 8.0% by volume, and be designed for and operated with an exit velocity less than 122 ft/sec and less than the velocity V_{max} , as determined by the equation specified in paragraph 40 CFR 60.18 (c)(3)(i)(A). [40 CFR 60.18 (c)(3)(i)(a)]
11. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR 60.18 (f)(4)]
12. Air-assisted or steam-assisted flares shall only be used when the net heating value of the gas being combusted is 300 Btu/scf or greater. Nonassisted flares shall only be used when the net heating value of the gas being combusted is 200 Btu/scf or greater. [40 CFR 60.18 (c)(3)(ii)]
13. Steam-assisted and nonassisted flares shall be operated with an exit velocity less than 60 ft/sec, except as provided in 40 CFR 60.18 (c)(4)(ii) and (iii). [40 CFR 60.18 (c)(4)(i)]
14. Steam-assisted and nonassisted flares may be operated with an exit velocity equal to or greater than 60 ft/sec, but less than 400 ft/sec, if the net heating value of the gas being combusted is greater than 1,000 Btu/scf. [40 CFR 60.18 (c)(4)(ii)]
15. Steam-assisted and nonassisted flares may be operated with an exit velocity less than the velocity V_{max} , as determined by the methods specified in 40 CFR 60.18 (f)(5), and less than 400 ft/sec. [40 CFR 60.18 (c)(4)(iii)]
16. Air-assisted flares shall be operated with an exit velocity less than the velocity V_{max} as determined by the methods specified in 40 CFR 60.18 (f)(6). [40 CFR 60.18 (c)(5)]
17. The net heating value of the gas being combusted the flare shall be calculated pursuant to 40 CFR 60.18(f)(3) or by using EPA Method 18, ASTM D1946, and ASTM D2382 if published values are not available or cannot be calculated. [40 CFR 60.18 (f)(3)]
18. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2 and District Rule 4311, 6.2]

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19. Compliance with the permit conditions in the Title V permit shall be deemed compliance with the requirements of 40 CFR 60, section 60.18, except for sections 60.18(c)(3)(1)(a), (f)(3), (f)(5), and (f)(6). A permit shield is granted from these requirements except for sections 60.18(c)(3)(1)(a), (f)(3), (f)(5), and (f)(6). [District Rule 2520, 13.2]
20. The requirements of SJVAPCD District Rule 1080 (Amended December 17, 1992), do not apply to this source because this unit is not subject to any stack monitoring requirements. A permit shield is granted from these requirements. [District Rule 2520, 13.2]
21. The requirements of SJVAPCD District Rule 1081 (Amended December 16, 1993), do not apply to this unit because it is subject only to visible emissions monitoring. Rule 1081 specifies methods and procedures for isokinetic source sampling on an exhaust stack. As a result, units qualifying to use this template are exempt from the procedures described in Rule 1081. A permit shield is granted from these requirements. [District Rule 2520, 13.2]
22. The requirements of SJVAPCD District Rule 4101 (Amended November 15, 2001) are addressed in a previous permit condition. A permit shield is granted from these requirements. [District Rule 2520, 13.2]
23. The requirements of SJVAPCD District Rule 4201 (Amended December 17, 1992), do not apply to this unit because it is not a “source operation”. Rule 1020 specifies pollutant abatement operations as not being a “source operation”. A permit shield is granted from these requirements. [District Rule 2520, 13.2]
24. The requirements of SJVAPCD District Rule 4301 (Amended December 17, 1992), do not apply to this unit because it is not either a furnace, boiler, or apparatus used in the process of burning fuel for the primary purpose of producing heat or power by indirect heat transfer. A permit shield is granted from these requirements. [District Rule 2520, 13.2]

APPENDIX A
TEMPLATE QUALIFICATION FORM
FOR
TEMPLATE #SJV-FL-1-1

TEMPLATE SJV-FL-1-1

Title V General Permit Template Qualification Form

District permit # _____

Please answer the questions in the table below. A flare (unit), which meets the criteria of this table, is qualified to use this template as part of a Title V application. To use this template, remove this sheet and attach to application.

Yes	No	Description of Qualifying Units
		Is the unit a non-assisted, air-assisted, or steam-assisted elevated open flare? [40CFR§60.18] If "no", STOP - you cannot use this template; otherwise, continue to next question.
		Are actual emissions from this flare less than 20 tons VOC per year? If "no", STOP - you cannot use this template; otherwise, continue to next question.
		Is the unit used to comply with the VOC control requirements of petroleum liquid storage tanks, loading racks, or gas plant fugitive VOC equipment leaks; and the emission unit is subject to an NSPS that requires the use of a VOC control device? If "no", STOP - you cannot use this template; otherwise, you may use this template.

Based on information and belief formed after reasonable inquiry: 1) the information on this form is true, accurate, and complete, and 2) the facility is in compliance with this template's permit conditions.

Signature of Responsible Official

Date

Name of Responsible Official (Please print)