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CONSTRUCTION PERMIT NUMBER: GCP-4

GENERAL PERMIT CATEGORY: Combustion Sources and Related Equipment

ISSUED BY: New Mexico Environment Department

Jim Norton, Director
Environmental Protection Division

10/20/03
Date of Issuance

The Air Quality Bureau of the New Mexico Environment Department (Department), under Section 220 -General Permits of 20.2.72 New Mexico Administrative Code (NMAC) - Construction Permits, issues Air Quality Permit GCP-4 for Combustion sources and related equipment.

INTRODUCTION

Each [Air Quality] General Construction Permit (GCP) issued by the Department addresses a group of sources that have similar operations, processes, and emissions and that are subject to similar requirements. Registration under a GCP provides qualifying facilities an additional option for meeting permitting requirements under 2.20.72 NMAC – Construction Permits. Facilities that are registered under a general construction permit are subject to the terms and conditions of that GCP.

The Department may revise this general permit pursuant to 20.2.72 NMAC Section 220.B in accordance with the provisions of that paragraph. Provisions include public notice including a thirty (30) calendar day public comment period, a public hearing, notification to registered sources, and a transition schedule to allow registered sources to comply with the revised permit.

Questions regarding eligibility for this general construction permit can be directed to the Permitting Section of the Air Quality Bureau of the Environment Department. Additional information is available on the Department's website, www.nmenv.state.nm.us

ACRONYMS AND DEFINITIONS

As used in GCP-4:

Term	Definition
CO	Carbon Monoxide
CFR	Code of Federal Regulations
EPA	The United States Environmental Protection Agency
GCP	General Construction Permit, as issued under 20.2.72 NMAC – *Construction Permits*
H2S	Hydrogen Sulfide
HAPs	Hazardous Air Pollutants, as listed in accordance with Section 112 of the federal Clean Air Act.
MACT	Maximum Achievable Control Technology; the regulatory requirements, guidelines and emission limitations promulgated by EPA under 40 CFR Part 63.
NMAC	New Mexico Administrative Code; regulations, as referred to in GCP-4, adopted by the New Mexico Environmental Improvement Board.
NESHAP	National Emission Standards for Hazardous Air Pollutants; the regulatory requirements, guidelines and emission limitations promulgated by EPA under 40 CFR Part 61.
NOx	Oxides of nitrogen, including but not limited to nitrogen dioxide and nitric oxide.
NSPS	New Source Performance Standards; the regulatory requirements, guidelines and emission limitations promulgated by EPA under 40 CFR Part 60.
PM10	Particulate matter with an aerodynamic diameter less than or equal to 10 micrometers.
SO2	Sulfur dioxide. For purposes of stack emissions monitoring, this term also includes other oxides of sulfur that may test as sulfur dioxide.
TPY	Tons per year
VOC	Volatile Organic compounds, as defined at 40 CFR 51.100.

GCP-4 Permit Conditions

I. Applicability

1. Facilities Authorized by GCP-4	All sources for which the Department has approved an Initial Registration under GCP-4 are subject to GCP-4 terms and conditions. No source may construct or operate under GCP-4 unless the Department has approved its Initial Registration. No source may operate under GCP-4 unless such operation meets the requirements of GCP-4.
2. Facilities That May Be Registered Under GCP-4	The owner or operator of any Facility or proposed Facility that can comply with the terms and conditions of GCP-4 may registrater under this general construction permit, except as otherwise provided in Section I.3 below.
3. Facilities That May Not Be Registered Under GCP-4	The Department shall deny an Initial or Siting Registration Application if: a. The registration information is not complete within the timeframes specified within GCP-4; b. The source as proposed would contain emissions units not allowed under GCP-4; c. The source as proposed would not comply with the terms and conditions of GCP-4; d. The source is proposed to be located in a non-attainment area, as defined by 20.2.79 NMAC; e. The source is or contains a petroleum refinery, chemical manufacturing plant, flare pits, or bulk gasoline terminal or plant; f. The source is subject to Air Toxics provisions under 20.2.72 NMAC, Sections 400 – 499; g. More than two (2) years have elapsed since the submittal of the Initial Registration Application and a corresponding Siting Registration Application has not been submitted; h. A corresponding Initial Registration Application has not been submitted for the Siting Registration Application; i. More than one (1) Siting Registration Application has been submitted corresponding to a single Initial Registration; or j. The public notice performed for the Facility is inadequate to meet the requirements of GCP-4.

II. Registration Under GCP-4

1. Procedures for Registration Under GCP-4	The owner or operator of a Facility to be registered under GCP-4 shall complete the following steps, and may complete the steps concurrently or sequentially. All submittals shall be made on

	current forms provided by the Department. See also Conditions IV and VII for requirements regarding each of these submittals. The owner or operator shall: a. Submit an Initial Registration Application to the Department. b. Perform Public Notice for the proposed Facility and location (see Condition II.5 for details). c. Notify the Department at least one (1) working day prior to beginning construction. d. Not commence construction until at least fifteen (15) (but not more than sixty (60)) calendar days after public notice has begun. e. Notify the Department at least one (1) working day prior to beginning operation. f. Submit a Siting Registration Application to the Department within ten (10) calendar days after beginning operation.
2. Department Review	Within thirty (30) calendar days of receiving an Initial Registration Application or a new or revised Siting Registration Application under GCP-4, the Department shall review the application and shall approve or deny the registration. The approval of an Initial Registration shall not become effective until Department approval or fifteen (15) days after Public Notice has been published and posted, whichever is later. Approval or denial, once effective, of an Initial or Siting Registration is a determination by the Department of whether or not the source qualifies to register for coverage under GCP-4. The Department shall notify the owner or operator of its decision by certified mail.
3. Operating Scenarios	As part of the registration process, the owner or operator shall choose one (1) of the Operating Scenarios set out in Condition III. The Facility shall then meet the distance and emissions limitations set out for the selected scenario.
4. Previously Permitted Facilities and Equipment	a. Qualified facilities that have a valid non-portable construction permit under 20.2.72 NMAC may also register for GCP-4. However, they must specify on the Siting Registration Application that the general permit registration will replace the previously issued Part 72 permit for that fixed site, and request that the Department cancel the previously issued Part 72 permit. b. Portable equipment that has previously been permitted as a portable stationary source under 20.2.72 NMAC or issued a Notice of Intent (NOI) under 20.2.73 NMAC, may be registered at the Facility under GCP-4. While the portable equipment is at a registered Facility, it shall be included in the Siting Registration Application and meet all of the equipment limitations, emission restrictions and other operating parameters in GCP-4. While the equipment is located at the registered Facility, the conditions of GCP-4 apply in lieu of permit conditions in the portable stationary source permit. When the portable equipment is removed from the registered Facility, the individual construction permit or NOI issued to the portable stationary source will again be in

	effect.
5. Procedures for Public Notice of Intent to Register at a Location	a. The owner or operator shall notify the public of his or her intent to construct a Facility registered under this general construction permit and to operate it pursuant to an approved Siting Registration, or of his or her intent to implement a change of Operating Scenario at a Facility registered under GCP-4, at least fifteen (15), but not more than sixty (60), calendar days prior to beginning construction at that site or implementing a change of Operating Scenario, whichever applies. Public notification shall include a posted notice and a published notice. Both notices are described below and each must meet the specifications set out for them in the most current GCP-4 Guidance Document. b. Posted Notice. The owner or operator shall post a notice at the proposed or existing Facility entrance in a publicly accessible and conspicuous place on the property on which the Facility is, or is proposed to be, located. The posted notice shall contain all information specified in column c of Condition IV of GCP-4. This notice must remain posted until the general permit Siting Registration is granted or denied. c. Published Notice. The owner or operator shall publish notice for one (1) day in a newspaper that is in general circulation in the county or counties where the Facility is or is proposed to be located. Such notice shall be published in both the legal section of the newspaper, and as a display ad in a location calculated to give the public the most effective notice. The published legal notice shall contain all information specified in column c of Condition IV of GCP-4; the display ad shall contain all information indicated for it in the most current Guidance Document for GCP-4.
6. Fees	a. Application Fees. Each Initial Registration Application (and change to registration information under Conditions X.3 or X.4) shall include a certified check or money order for permit fees required pursuant to 20.2.75 NMAC - *Construction Permit Fees.* b. Annual Fees. In accordance with the invoices issued by the Department, the owner or operator of each Facility for which an Initial Registration has been issued shall submit the annual fee required under Section 110 of 20.2.75 NMAC – *Construction Permit Fees.*
7. Procedures to Appeal a Registration Decision.	Any person adversely affected by the Department's approval or denial, once effective, of an Initial Registration Application or a new or revised Siting Registration Application, which are determinations made by the Department of whether or not a source qualifies to register for coverage under GCP-4, may appeal that determination within thirty (30) calendar days by filing a petition for hearing before the Environmental Improvement Board. [20.2.72.220.C NMAC; NMSA 1978, Section 74-2-7 (H) thorough (L).

III. Matrix of Maximum Allowable Facility Emissions and Siting Restrictions for Operating Scenarios

The owner or operator shall register under any one (1) of the following Operating Scenarios. The Facility must then meet the distance and emissions limitations set out for the selected scenario. Allowable Annual Emissions [TPY] shall be calculated as set out under Condition V.3.

Emissions or Siting Restriction	Scenario 1	Scenario 2
1. Minimum distance to any existing state park, recreation area, school, private residence, office building, or other occupied structure.	0.25 miles	0.25 miles
2. Minimum distance to any Class 1 Area	3 miles	3 miles
3. The distance between any engine or turbine stack and any terrain that is at an elevation equal to or greater than the height of the stack shall be at least:	650 feet (198.1 meters)	500 feet (152.4 meters)
4. The distance between any engine or turbine stack and any terrain that is at an elevation equal to or greater than 25 feet (7.6 meters) higher than the height of the stack shall be at least:	1650 feet (502.3 meters)	1350 feet (411.5 meters)
5. The distance between the facility and any source with the potential to emit more than 25 TPY of NOx shall be at least:	0.5 miles	0.5 miles
6. The distance between the facility and any source with the potential to emit more than 250 TPY of NOx shall be at least:	2.0 miles	2.0 miles
7. Annual Emissions of NOx at Facility shall not Exceed:	95 TPY	40 TPY
8. Annual Emissions of CO at Facility shall not Exceed:	95 TPY	40 TPY
9. Annual Emissions of PM10 at Facility shall not Exceed:	25 TPY	10 TPY
10. Annual Emissions of VOC at Facility shall not Exceed:	95 TPY	40 TPY
11. Annual Emissions of VOC originating from glycol dehydrators and amine units at Facility shall not, after controls (if applicable), Exceed:	25 TPY	25 TPY
12. Annual Emissions of VOC from storage of Organic Liquids other than condensate and crude oil at Facility shall not Exceed:	5 TPY	5 TPY
13. Annual Emissions of H2S originating from glycol dehydrators and amine units at Facility located in Pecos-Permian Basin shall not, after controls (if applicable), Exceed:	0.5 TPY	0.5 TPY
14. Annual Emissions of H2S originating from glycol dehydrators and	0.05 TPY	0.05 TPY

Emissions or Siting Restriction	Scenario 1	Scenario 2
amine units at Facility not located in Pecos-Permian Basin shall not, after controls (if applicable), Exceed:		
15. Annual Emissions of SO2 from the Facility shall not Exceed:	30 TPY	30 TPY
16. Annual Emissions of NOx from Combustion Units that Use Liquid Fuel shall not Exceed:	10 TPY	10 TPY
17. Annual Emissions of total HAPs from Facility shall not Exceed:	20 TPY	20 TPY
18. Annual Emissions of any individual HAP at Facility shall not Exceed:	8 TPY	8 TPY

IV. Required Contents of Submittals and Notices

For each event in Columns b, c, d, e, and f, the owner or operator shall submit the information listed in Column g for each line in which an 'X' appears. All submittals shall be made on current forms provided by the Department, and shall be submitted to the Department's Air Quality Bureau. In addition, the owner or operator shall copy submittals under Columns d and f to the Department District or Field Office nearest to the proposed Facility location. A complete revised Siting Registration Application shall be submitted for any change to the Facility that alters the information in the Siting Registration on file with the Department (see Condition X).

a. Information Category	b. Initial Regis-tration Applic.	c. Public Notice	d. Notification Construction to Begin	e. Notification Operation to Begin	f. Siting Regis-tration Applic.	g. Specific Information Required
1. Owner/Operator Information	X	X	X	X	X	**1.** Name, address and telephone number of the owner, operator, and permit contact person for the Facility.
2-5. Relevant Date(s)	X	X	X	X	X	**2.** Date of Application/Notification Submittal.
			X			**3.** Date(s) when Public Notice posting began and publishing occurred.
		X	X			**4.** Anticipated or actual Date Construction begins.
				X	X	**5.** Anticipated or actual Startup Date.

a. Information Category	b. Initial Regis-tration Applic.	c. Public Notice	d. Notification Construction to Begin	e. Notification Operation to Begin	f. Siting Regis-tration Applic.	g. Specific Information Required
6-12. Facility and Emissions Description	X	X	X	X	X	**6.** Facility name and (if sited) address. If issued, GCP registration number. Permit number of the individual permit to be replaced, if any.
	X					**7.** Primary Standard Industrial Classification (SIC) and North American Industrial Classification (NAIC) code for the Facility.
		X	X		X	**8.** Operating Scenario for specified location
		X				**9.** Maximum Facility emissions allowed under GCP-4 for specified Operating Scenario.
					X	**10.** For each emissions category listed in Condition III, the sum of the maximum allowable emissions (in tons per year) listed in the Siting Registration Application for individual equipment.
		X				**11.** Minimum set-back distances required under GCP-4 for specified Operating Scenario.
			X			**12.** Actual set-back distances at the specified location at the time that construction begins.
13-18. Location (Site) Information			X			**13.** An appropriate map, such as a 7.5 minute United States Geological Survey Topographic Quadrangle map, that shows the location of the Facility.
		X	X			**14.** Facility Section, Range, Township, County.
			X			**15.** Facility Universal Transverse Mercator (UTM) coordinates, Latitude, and Longitude, and the means of determining Facility location.

a. Information Category	b. Initial Regis-tration Applic.	c. Public Notice	d. Notification Construction to Begin	e. Notification Operation to Begin	f. Siting Regis-tration Applic.	g. Specific Information Required
		X	X			**16.** The name of, and distance from, the nearest town.
			X			**17.** The elevation of the Facility.
			X			**18.** Whether the site is located on Government, Private, or Tribal land.
19. Document-ation of notice(s)			X			**19.** Proof of public notice. This includes documentation of, and a description of, compliance with Condition II.5 regarding public notification.
20. Verification of submittal to Field Office			X		X	**20.** The Department District or Field Office nearest to the Facility location, and verification that the submittal has, if required, been sent to that office.
21. Equipment Information					X	**21.** See Condition VII for equipment-specific information required in submittals. The owner or operator shall also include the Source Classification Code (SCC) for each unit; a description of controls for each controlled emission unit; NMAC, NSPS, NESHAP and MACT applicability determinations and list of requirements that apply to each unit; all supporting calculations; and a process flow diagram for the Facility.
22. Emissions limits					X	**22.** The Allowable Annual Emissions, as calculated under Condition V.3, for the Facility, including the basis for emissions calculations.

a. Information Category	b. Initial Regis-tration Applic.	c. Public Notice	d. Notification Construction to Begin	e. Notification Operation to Begin	f. Siting Regis-tration Applic.	g. Specific Information Required
23-24. Certification			X	X		**23.** Certification. The submittal shall include a certification by the Facility owner, operator, or authorized representative that all of the information included in the submittal is true and complete to the best of his or her knowledge.
	X				X	**24.** Notarized Certification. The submittal shall be notarized (before a notary public) and signed under oath or affirmation by the Facility owner, operator, or authorized representative, certifying that to the best of his or her knowledge all of the information included in the application is true and complete.
25. Permit Fee	X					**25.** A certified check or money order for permit fees required pursuant to 20.2.75 NMAC - *Construction Permit Fees.*
26. Department Address and procedures		X				**26.** The current address of the Department, to which comments and inquiries may be directed, and summary of Siting Registration appeals procedures.

V. Allowable Equipment, Emissions and Fuel Use

1. Allowable Equipment	a. Only equipment listed in Condition VII may be registered at or present at the Facility. The owner/operator shall not locate equipment at the Facility that would result in an exceedance of the emissions limits set out in the Operating Scenario under which the Facility is registered (see Conditions II.3 and III). The total number of engines and turbines allowed under Condition VII.1 and

	VII.2 shall not exceed four (4). b. Subsequent to submittal to the Department of the Siting Registration Application for the Facility, only equipment listed on the Siting Registration Application and emissions units exempted under 20.2.72.202.A NMAC may be present at the Facility. c. Each emissions unit shall meet the specifications described for it in the Siting Registration Application.
2. Allowable Emissions	a. The hourly and annual emission limits listed in the Siting Registration Application are enforceable as permit conditions. The averaging period for each emissions unit shall be one hour, except where otherwise noted. b. Allowable Annual Emissions shall be calculated as outlined in Condition V.3 and shall not exceed the emissions limits listed in Condition III for the Operating Scenario under which the Facility is registered, the emissions limits listed in the public notice, or the emissions limits listed in the Siting Registration application, whichever is less. The total annual emissions from the Facility shall not exceed the Facility's Allowable Annual Emissions.
3. Calculation of Allowable Annual Emissions	The Allowable Annual Emissions [TPY] for the Facility shall be calculated as follows: a. The allowable annual emissions for the Facility shall be calculated as the sum of the allowable annual emissions for all emissions units and activities at the Facility, except those units and activities that are exempted under paragraphs A or B of 20.2.72.202 NMAC. b. The allowable annual emissions for tanks, truck-loading operations, amine units and glycol dehydrators shall be calculated using a current Department-approved emissions estimation procedure. c. Flashing losses shall be included in the Facility total VOC emissions. Flashing losses shall be calculated using a current Department-approved emissions estimation procedure. d. The allowable annual emissions in TPY of all other emissions units shall be calculated as the maximum hourly limits listed in the Siting Registration Application in lb/hr multiplied by 8760 hours per year and divided by 2000 pounds per ton.
4. Allowable Fuels	a. The fuel used in each combustion unit shall be the fuel listed for that equipment in the Siting Registration Application. Fuel usage listed in the Siting Registration Application shall demonstrate compliance with the emissions limitations for the chosen Operating Scenario in Condition III. b. All engines and turbines shall be operated using only produced natural gas, sweet natural gas, liquid petroleum gas or fuel gas, containing less than 0.25 grains H2S/100 dry standard cubic feet of fuel. c. Gaseous fuel that is greater than 0.25 grains H2S/100 dry standard cubic feet of fuel may be used in combustion equipment other than engines or turbines.

	d. Liquid fuel may be used in combustion equipment other than engines or turbines, provided that the liquid fuel shall contain less than 0.05% sulfur by weight, shall be first run refinery grade diesel or No. 2 fuel oil, and shall not contain waste oils or solvents. e. The owner or operator shall perform annual fuel analysis tests to verify that the sulfur content of fuels meet the requirements of this Condition. Fuel sulfur analyses shall be used to calculate the actual emissions for Emissions Inventory reports required under Condition VI.6.

VI. Construction and Operation

1. Construction of and Operation at the Facility	The owner or operator of the Facility shall: a. not begin construction at the Facility for which an application for Initial Registration has been submitted until the Department has approved the general permit Initial Registration, the owner or operator has been notified by certified mail, and all public notice requirements under Condition II.5 have been met; b. not begin operation at the Facility prior to notifying the Department of such commencement under Condition II.1 and IV; c. construct the Facility in accordance with the terms and conditions of GCP-4; d. operate the Facility in accordance with the Conditions of GCP-4 and, when issued, the Siting Registration; and e. cease operation of the Facility: (1) if a complete Siting Registration application has not been submitted to the Department within ten (10) calendar days of beginning operation; (2) within twenty-four (24) hours of notification by the Department that the Siting Registration for the Facility has been disapproved; or (3) if, for a revision to a registration under Condition X, the owner or operator has not submitted the applicable fee within thirty (30) days of invoice by the Department.
2. Stack Heights	The stack height, as measured from the ground-level elevation, of each source with the potential to emit 5 TPY or more of SO2 or NOx shall be the greater of: a. at least 2.5 times the height of any building within 50 feet of the stack, b. for each source with the potential to emit 5 TPY or more of NOx, at least 15 feet, and c. for each source with the potential to emit 5 TPY or more of SO2, at least 20 feet.
3. Hours of operation	GCP-4 authorizes continuous operation of the Facility.

4. Equipment Installation and Maintenance	All equipment shall be installed and maintained in good working order and in accordance with the manufacturer's specifications, and operated in such a manner that the equipment meets the specifications set out in GCP-4 and the Siting Registration Application, the emissions do not exceed those listed in Siting Registration Application, all control efficiencies are met. Good combustion practices (where applicable) shall be used.
5. Monitoring, Recordkeeping, and Reporting at the Facility	The owner or operator of each Facility for which an Initial Registration has been issued by the Department shall: a. Monitor and maintain records of operations and operating conditions sufficient to calculate annual emissions for the emissions inventory report required in Condition VI.6 below. Such records include, but are not limited to, records of fuel use and fuel content. b. Meet all applicable Monitoring, Record Keeping, and Reporting Requirements under any NSPS, MACT, NESHAP or NMAC, as well as all requirements under Condition VIII that are applicable to the specific equipment on site. b. Maintain the equipment maintenance instructions, manuals, schedules, and records, and make them available for Departmental inspection on site or at the nearest operations office. Records of all measurements and analyses required in GCP-4 shall be maintained for at least two (2) years. c. Make all records, analyses, and reports available to the Department upon request.
6. Annual Emissions Inventory Reports	The owner or operator of each Facility for which an Initial Registration has been issued by the Department shall: a. Submit to the Department, by April 1 of each year, an annual emissions inventory report of the actual emissions from the Facility for the previous year. b. Each inventory shall be submitted in a format determined by the Department. Emissions Inventory records shall include those identified in Section 300 of 20.2.73 NMAC - *Notice of Intent and Emissions Inventory Requirements*, or those identified by the Department. c. Calculations of emissions shall be consistent with the Conditions of GCP-4.
7. Compliance Tests	The owner or operator shall perform compliance tests as required for specific equipment on site under Condition VIII and as required under any applicable NMAC, NSPS, MACT or NESHAP. In addition, the Department may require additional tests as needed. All compliance tests shall be performed according to 20.2.72.213 NMAC and as required under Condition IX for engines and turbines.
8. Access by the Department	The Department may at any reasonable time access each Facility and the operations office nearest to the Facility, to inspect the equipment at the Facility and any records required under GCP-4. [Air Quality Control Act, New Mexico Statutes Annotated 1978, Section 74-2-5.1.A]

9. Emissions During Upsets, Startup, and Maintenance.	Owner or operator of the registered Facility shall comply with the regulation 20.2.7 NMAC - *Excess Emissions during Malfunction, Startup, Shutdown, or Scheduled Maintenance.*
10. NSPS, NESHAP, MACT and NMAC Compliance.	In addition to the terms and conditions of GCP-4, the owner or operator of a registered Facility shall comply with any New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAP), Maximum Achievable Control Technology (MACT) and 20.2 NMAC requirements that apply to the Facility or any equipment at the Facility.
11. Posting of the Permit	The owner or operator of each Facility for which the Department has issued an Initial Registration shall post at the Facility or make available at the nearest operations office, a copy of the general construction permit, including the complete registration applications(s), and approval letter(s) from the Department.

VII. Specifications of Allowable Equipment, Allowable Controls, and Siting Registration Information

This Condition establishes specifications for allowable equipment and controls, and Siting Registration information, specific to types of emissions units; these requirements are in addition to those set in Condition VI for emissions units in general and the Facility as a whole. Only the equipment listed in column (a) and meeting the specifications set out in column (b) below may be included in the Siting Registration Application. Only equipment included in the Siting Registration may be present at the Facility. Equipment at the site shall meet the specifications listed below as well as any additional specifications listed in the Siting Registration Application. For each piece of equipment located at the registered site, the information in column (d) shall be included on the Siting Registration Application. Although additional controls may be applied to equipment, only the emissions reductions resulting from controls listed for the equipment in column (c) below shall be included in calculation of Allowable Annual Emissions.

VII. Specifications of Allowable Equipment, Allowable Controls, and Siting Registration Information			
a. Equipment	**b. Equipment Specifications**	**c. Allowable Controls**	**d. Information that must be included in Siting Registration Application**

VII. Specifications of Allowable Equipment, Allowable Controls, and Siting Registration Information			
a. Equipment	**b. Equipment Specifications**	**c. Allowable Controls**	**d. Information that must be included in Siting Registration Application**
1. Engine(s) Utilizing Low Emission Technology and Turbine(s) Not Equipped with Controls	The manufacturer's specifications shall state that the maximum emissions from these engines and turbines are no more than 2.0 grams per horsepower-hour (g/hp-hr) of NO_x and 3.0 g/hp-hr of CO, and that each engine has an integrated factory-installed air/fuel ratio (AFR) controller.	N/A	Manufacturer and model number for each unit; equipment size (capacity) or horsepower rating; operating limitations such as horsepower or revolutions per minute which limit emissions; the manufacturer's emission specifications in grams per horsepower-hour (g/hp-hr) for both oxides of nitrogen (NO_x) and carbon monoxide (CO); stack parameters including the height (plus or minus six (6) inches), diameter, exit orientation, and exit gas velocity and temperature, and maximum operational emissions in pounds per hour in and tons per year of NOx, CO, PM10, HAPs and VOC. A current Department-approved deration calculation may be used.
2. Engine(s) and Turbine(s) Equipped with Catalytic Converter(s)	Emissions shall be controlled with a catalytic converter. The maximum emissions after controls shall be no more than 2.0 grams per horsepower-hour (g/hp-hr) of NO_x and 3.0 g/hp-hr of CO. Each engine shall be equipped with an air/fuel ratio (AFR) controller.	Catalytic Converter(s)	Manufacturer and model number for each unit; equipment size (capacity) or horsepower rating; operating limitations such as horsepower or revolutions per minute which limit emissions; manufacturer of AFR controller, if not integral to engine; manufacturer, model number, and control efficiency for each catalytic converter, and method of determining and achieving control efficiency; stack parameters including the height (plus or minus six (6) inches), diameter, exit orientation, and exit gas velocity and temperature, and maximum operational emissions in pounds per hour and tons per year of NOx, CO, PM10, HAPs and VOC after controls. A current Department-approved deration calculation may be used.

VII. Specifications of Allowable Equipment, Allowable Controls, and Siting Registration Information			
a. Equipment	**b. Equipment Specifications**	**c. Allowable Controls**	**d. Information that must be included in Siting Registration Application**
3. Glycol Dehydrators	Glycol dehydrators shall be equipped with flow rate meters to measure glycol recirculation. Flow rate meters are not required for fuel gas dehydrators. Flash tanks associated with dehydrators shall not vent to the atmosphere	Condensers, vapor recovery units, or combustion devices.	A dehydrator list including all input and output data from a Department-approved emissions calculation program; manufacturer and model number; type of glycol; maximum operational glycol circulation rate; extended gas analysis of inlet gas, including analyses of H2S, VOCs and HAPs, and throughput; control equipment (if any) manufacturer, model number, and control efficiency; and maximum operational emissions in pounds per hour and tons per year of H2S, HAPs and VOC.
4. Amine Units	*[No additional specifications. See Condition VI.4.]*	Flares or thermal oxidizers	An amine unit list including all input and output data from a Department-approved emissions calculation procedure; manufacturer and model number; type of amine used; maximum operational amine circulation rate (in gallons per minute); extended gas analysis of inlet gas, including analyses of H2S, VOCs and HAPs; throughput (in standard cubic feet per day); VOC control equipment type (if needed), manufacturer, model number, and control efficiency; and maximum operational emissions in pounds per hour and tons per year of H2S, HAPs and VOC.
5. Flares	Flares shall have a minimum height of 20 feet, and shall be equipped with a mechanism to ensure a continuous ignition source whenever gas is present. All routine, non-emergency flares shall be operated with no visible emissions.	N/A	Flare height; means of ensuring a continuous ignition source; manufacturer's data regarding flare control efficiency; means of calculating emissions of NOx, CO, SO2, H2S, HAPs, and VOC from throughput; maximum operational throughput (in million standard cubic feet) per year, to be calculated each calendar month as a twelve (12)-month rolling total; calculations of maximum annual emissions in tons per year of NOx, CO,

VII. Specifications of Allowable Equipment, Allowable Controls, and Siting Registration Information			
a. Equipment	**b. Equipment Specifications**	**c. Allowable Controls**	**d. Information that must be included in Siting Registration Application**
			SO2, H2S, HAPs, and VOC.
6. Thermal Oxidizers	Combustion chamber shall be equipped with a temperature gauge and means to monitor operating temperature at least once each hour.	N/A	Manufacturer's specified operating temperature and minimum oxygen (O2) in flue gas to achieve 98% control efficiency and maximum operational emissions in pounds per hour and tons per year of NOx, CO, SO2, H2S, HAPs and VOC
7. Reboilers, Separators, and Heaters	*[No additional specifications. See Condition VI.4.]*	N/A	BTU rating of unit, site diagram, fuel specifications, and maximum operational emissions in pounds per hour and tons per year of NOx, CO, SO2, H2S and VOC
8. Condensers	*[No additional specifications. See Condition VI.4.]*	Venting To Process Stream and Not To Atmosphere	Inputs and outputs for Department-approved emissions calculation procedure; maximum operational emissions in tons per year of H2S, HAPs and VOC
9. Storage Tanks	Tanks must be equipped with submerged fill pipes. Each tank must be labeled (ID number, capacity, contents).	Condensers or Vapor Recovery Units	A tank list including all input and output data from a Department-approved emissions calculation program, capacity, liquid stored in each tank, maximum annual throughput, vapor control used (if any), date of manufacture, and either emissions calculations of flashing losses (including upstream vessel pressure and API gravity of liquid) or documentation showing that there are no flashing losses from a particular tank; and maximum operational emissions (including flashing losses) in tons per year of VOC and HAPs.
10. Vapor Recovery Units	Vapor Recovery Units shall be closed loop systems that capture and route VOCs back to the process stream and do not vent to the atmosphere.	N/A	Vapor Recovery Units shall be reflected in the process flow diagram required under Condition IV.21.

VII. Specifications of Allowable Equipment, Allowable Controls, and Siting Registration Information			
a. Equipment	**b. Equipment Specifications**	**c. Allowable Controls**	**d. Information that must be included in Siting Registration Application**
11. Cryogenic Units	Cryogenic Units shall be closed loop systems with no emissions to the Environment. All applicable conditions under NSPS KKK must be met.	N/A	Cryogenic Units shall be reflected in the process flow diagram required under Condition IV.21.
12. Combustion Units That Use Liquid Fuel	Liquid fuel shall meet the requirements of Condition V.4.d, and NOx emissions shall not exceed those set in Condition III.16.	N/A	Type of unit; fuel used, including sulfur content and maximum fuel use per year; and maximum operational emissions in pounds per hour and tons per year of NOx, CO, SO2, HAPs and VOC
13. Truck Loading Operations	Shall not include bulk gasoline terminals or bulk gasoline plants.	N/A	A description of the truck loading operations, description of material(s) handled, maximum annual throughput, and maximum annual emissions of VOC and HAPs in tons per year, calculated using a current Department-approved emissions calculation procedure.
14. Ancillary Equipment not Included in VII.1-13	Includes equipment, such as valves, pumps, flanges, seals, meters, piping, and similar equipment, as determined by the Department	N/A	All information required under an applicable NMAC, NSPS, NESHAP or MACT, if any.
15. Sources and Activities Exempted Under 20 NMAC 2.72.202.A or B	As set out in 20.2.72.202 NMAC, paragraphs A and B	N/A	For sources and activities listed under Section 202.B, shall be reported as provided for in the application. Sources and activities listed under Section 202.A are not included in the application.

VIII. Monitoring, Recordkeeping, Reporting, and Compliance Test Requirements Related to Specific Equipment

The owner or operator of a registered Facility with the following equipment shall meet the following requirements and perform the following tests. See also Condition VI.5 for monitoring, recordkeeping and reporting requirements that apply to all equipment at the Facility and to Condition VI.7 for general Compliance Test requirements.

a. Equipment	b. Monitoring and Recordkeeping Requirements	c. Reporting Requirements	d. Initial Compliance Tests
1. Engine(s) Utilizing Low Emission Technology and Turbine(s) Not Equipped with Controls	The Department may, at its discretion, require the owner or operator to perform compliance tests subsequent to the initial compliance test (see column d). The owner or operator shall also perform any monitoring (including periodic tests), recordkeeping and reporting required by applicable NSPS, NESHAP or MACT standards.	*[No additional reporting requirements. See Conditions VI.5 and 6.]*	Initial compliance tests shall be performed no later than sixty (60) days of issuance of the Siting Registration, and conducted in accordance with Condition IX. A test may be waived by the Department if the test is not required under a NMAC, NSPS, NESHAP or MACT.

a. Equipment	b. Monitoring and Recordkeeping Requirements	c. Reporting Requirements	d. Initial Compliance Tests
2. Engine(s) and Turbine(s) Equipped with Catalytic Converter(s)	The Department may, at its discretion, require the owner or operator to perform compliance tests subsequent to the initial compliance test (see column d). The owner or operator shall also perform any monitoring (including periodic tests), recordkeeping and reporting required by applicable NSPS, NESHAP or MACT standards. In addition, during the first month of each calendar quarter during which operations occur, the owner or operator shall measure the reduction efficiency across catalyst bed, and monitor and record exhaust oxygen (O2) and NOx concentrations. The measurement shall be made with the equipment running at 90% or greater load (at siting conditions and using a Department approved deration procedure) and at other loads if requested by the Department. For every measured value that does not meet the control efficiency given in registration application, submit a report of such measurements under 2.20.7 NMAC. The use of portable analyzers (as specified in the most current version of the standard operating procedures for "Use of Portable Analyzers in Performance Tests") for these tests is acceptable. Records of the tests shall be maintained.	By March 1 of each year, submit a report including monitoring results for the previous year, summary of any repair or replacement of any catalyst, AFR controller or oxygen sensor, and calculated NOx and CO emission rates in lb/hr.	Initial compliance tests shall be performed no later than sixty (60) days of issuance of the Siting Registration, and conducted in accordance with Condition IX. A test may be waived by the Department if the test is not required under a NMAC, NSPS, NESHAP or MACT.

a. Equipment	b. Monitoring and Recordkeeping Requirements	c. Reporting Requirements	d. Initial Compliance Tests
3. Glycol Dehyrators	Maintain glycol recirculation flow rate logs on site and record flow rate at least weekly. Annually verify emissions by performing an extended gas analysis of incoming gas, and calculating emissions using a current Department-approved emissions estimation procedure.	If requested by the Department, provide copies of analyses, including extended gas analyses.	N/A
4. Amine units	Maintain records of annual gas volumes. Annually verify emissions by performing an extended gas analysis of incoming and outlet gases, and calculating emissions using a current Department-approved emissions estimation procedure.	If requested by the Department, provide copies of analyses, including extended gas analyses.	N/A
5. Flares	Verify weekly that all routine, non-emergency flares are operating with no visible emissions (determined using EPA Method 22), and that the continuous ignition source is functioning properly. Maintain a log of verifications. Maintain monthly records of gas volume sent to flare. Each calendar month, calculate twelve (12)-month rolling total of gas volume.	*[No additional reporting requirements. See Conditions VI.5 and 6.]*	N/A, unless subject to compliance tests under a NMAC, NSPS, NESHAP or MACT.

a. Equipment	b. Monitoring and Recordkeeping Requirements	c. Reporting Requirements	d. Initial Compliance Tests
6. Thermal Oxidizers	Monitor the temperature of the thermal oxidizers combustion zone at least once each hour to assure that it is sufficient to meet 98% control efficiency. Each quarter, determine oxygen (O2) content of flue gas. Maintain records of operating temperatures, including records of each measurement for which the temperature of combustion zone does not meet the minimum operating temperature and each measurement that does not meet manufacturer's specified flue gas oxygen content.	Report, under 2.20.2.7 NMAC, each hourly period for which the combustion zone temperature has fallen below the registered minimum operating temperature.	If the owner or operator does not provide manufacturer's data to establish the minimum operating temperature required to achieve 98% control efficiency, he or she shall perform an initial compliance test to determine such operating temperature. Such test shall be performed within sixty (60) days of the start of operations, and the results shall be submitted to the Department within thirty (30) days of the test.
7. Reboilers, Separators, Heaters	*[No additional monitoring or recordkeeping requirements. See Condition VI.5.]*	*[No additional reporting requirements. See Conditions VI.5 and 6.]*	N/A
8. Condensers	Once per month, inspect the unit and verify that the equipment is working properly. Maintain a log of inspections.	*[No additional reporting requirements. See Conditions VI.5 and 6.]*	N/A
9. Storage Tanks	At each Facility for which the annual throughput is greater than 2,000 bbl/yr, maintain records of monthly throughput for each crude oil and condensate storage tank. Each month, calculate and record the twelve (12)-month rolling total throughput.	*[No additional reporting requirements. See Conditions VI.5 and 6.]*	N/A, unless subject to compliance tests under a NMAC, NSPS, NESHAP or MACT.
10. Vapor Recovery Units	Once per month, inspect the unit and verify that the equipment is working properly. Maintain a log of inspections.	*[No additional reporting requirements. See Conditions VI.5 and 6.]*	N/A

a. Equipment	b. Monitoring and Recordkeeping Requirements	c. Reporting Requirements	d. Initial Compliance Tests
11. Cryogenic Units	Once per month, inspect the unit and verify that the equipment is working properly. Maintain a log of inspections.	*[No additional reporting requirements. See Conditions VI.5 and 6.]*	N/A
12. Combustion Units That Use Liquid Fuel	Maintain records of fuel use and fuel sulfur content.	*[No additional reporting requirements. See Conditions VI.5 and 6.]*	N/A
13. Truck Loading Operations	Record materials loaded and monthly throughput of each material. Each month, calculate and record the twelve (12)-month rolling totals of each material loaded.	*[No additional reporting requirements. See Conditions VI.5 and 6.]*	N/A
14. Ancillary Equipment	*[No additional monitoring or recordkeeping requirements. See Condition VI.5.]*	*[No additional reporting requirements. See Conditions VI.5 and 6.]*	N/A

IX. Compliance Test Procedures for Engines and Turbines

The owner or operator shall test in accordance with applicable NSPS requirements and meet the following compliance test procedures:

1. Timing of Compliance Tests for Engines and Turbines.	The initial compliance test shall be conducted during the time period specified in Condition VIII of GCP-4. Subsequent compliance tests shall be conducted within sixty (60) calendar days of notification by the Department that a compliance test will be required.
2. Test Methods	The compliance test shall be conducted in accordance with EPA Reference Methods 1 through 4, Method 7E or Method 20 for NO_x, as applicable, Method 19 for flow rate determination, and Method 10 for CO contained in 40 CFR Part 60, Appendix A. Unless specified otherwise by the Department, the test shall also follow the procedures in Subpart A, General Provisions in 40 CFR, Part 60.8(f).
3. Compliance Test Protocol	a. A test protocol shall be submitted to the Department at least three (3) weeks prior to the compliance test. The test protocol and compliance test report shall conform to the standard format specified by the Department. The most current version of the format may be obtained from the

	Enforcement Section of the Air Quality Bureau. b. During the compliance tests, the engine/turbine RPM, reciprocating engine ignition timing, engine/turbine compressor suction and discharge pressures, suction volume, horsepower output, and fuel consumption shall be monitored and recorded. Engines used to drive electric generators shall record the generator electrical output instead of compressor suction and discharge parameters. This information shall be included with the test report that is required to be furnished to the Department and shall be listed in tabular form or as part of the summary page of the test report. c. The tests shall be conducted at ninety percent (90%) or greater of engine/turbine capacity or horsepower rating as stated in the registration application, and at additional loads when requested by the Department. The owner/operator may request exceptions to this loading (such as loading necessitated by operating condition) from the Enforcement Section of the Air Quality Bureau. The load and the parameters used to calculate it shall be recorded to document operating conditions and shall be included with the test report to the Department. A current Department-approved deration calculation may be used. d. The results of the tests for NO_x shall be expressed as nitrogen dioxide (NO_2) using a molecular weight of 46 lb/lb mole in all calculations (each ppm of NO/NO_2 is equivalent to 1.194×10^{-7} pounds per standard cubic foot). No correction for fuel bound nitrogen will be allowed. e. One copy of the compliance test reports shall be submitted to the Enforcement Section of the Air Quality Bureau within thirty (30) calendar days after completion of testing.
4. Sampling Equipment Requirements	The owner/operator shall provide: a. sampling ports adequate for the test methods applicable to the Facility, b. safe sampling platforms, c. safe access to sampling platforms, d. utilities for sampling and testing equipment, and e. a stainless steel sampling line (at least one-quarter (¼) inch diameter but not greater than ½ inch diameter) adjacent to the sampling ports and extending down to within four (4) feet above ground level to provide access for future audits. The line shall extend into the stack a distance of one-fourth (¼) of the stack diameter, but not less than one (1) inch from the stack wall. The sampling line shall be maintained clear of blockage at all times. This line shall be in place at the time of any required compliance tests. The owner or operator may elect to provide a portable sampling line instead of the stainless steel sampling line if such portable sampling line is readily available and would allow the Department to safely obtain representative stack gas samples at the time of compliance audits or site inspections.

X. Changes at the Registered Facility

1. Suspension Of Operations	The owner or operator of a registered Facility shall notify the Department in writing within one (1) year after suspension of operations. Such notification shall include the date of suspension of operations. The owner or operator of any registered Facility for which the Department has been notified of a suspension of operations shall notify the Department within ten (10) working days of a re-start of operations.
2. Changes to the Owner/operator Information or Equipment Serial Number in the Registration Application	Within ten (10) calendar days after making a change to the Owner/Operator information as listed in Condition IV.1 (such as change of ownership or operator, or change of contact information), or a change to the serial number of registered equipment, the owner or operator shall provide the Department with the revised Registration Application. Each such submittal shall include a notarized certification as set out in Condition IV.9. Such change in serial number shall be the result of the replacement of the unit with one that is identical to the original unit, such that all other information in the existing registration shall not be altered, including but not limited to manufacturer, model number, emissions, and control equipment.
3. Changing a Registered Facility's Operating Scenario	a. Any owner or operator that wishes to change the Operating Scenario at the Facility shall perform Public Notice for the proposed change at least fifteen (15), but not more than sixty (60), days prior to any construction or operational change that would implement such change to Operating Scenario. See Condition II.5 for public notice procedures and Condition IV,column c, for contents of public notice. b. The owner or operator shall notify the Department at least one (1) working day prior to beginning construction or operation to implement the change in Operating Scenario. Such notification shall include proof of public notice and a description of the change, including equipment and operating changes that are associated with the change of Operating Scenario (see Condition IV, columns d and e). c. Within ten (10) calendar days of beginning operation to implement the change, submit a complete revised Siting Registration Application (see Condition IV, column f) to the Department. d. Within thirty (30) calendar days of receiving notice of a proposed change, the Department will determine whether the change is allowed under GCP-4, and will notify the owner or operator of its determination and invoice the owner or operator for the applicable fee under 20.2.75.11.A NMAC. Within thirty (30) days of invoice, the owner or operator shall submit such fee to the Department.

	e. Upon approval by the Department, the revised Siting Registration information shall become part of the registration and enforceable.
4. Changes to the Information in the Registration Application that are Not Included in X.2 or X.3	Any owner or operator that wishes to make changes at a registered Facility that are not included in X.2 or X.3 above but would alter the information in the Siting Registration Application (see Condition IV) while meeting the terms and conditions of GCP-4 and the Operating Scenario under which the Facility is registered, shall complete the following steps. The owner or operator may complete the steps sequentially or at the same time. See Condition IV for requirements regarding each of these submittals. The owner or operator shall: a. At least one (1) working day prior to beginning construction on any change at a Facility that would alter the accuracy of information on the Siting Registration Application, the owner or operator shall notify the Department of such change. The notification shall provide a general description of the impending change. b. Within ten (10) calendar days after making such change, the owner or operator shall provide the Department with the complete revised Siting Registration Application and all information needed to evaluate the change, such as the lb/hr emission limit for each new piece of equipment. c. Within thirty (30) calendar days of receiving notice of a proposed change, the Department will determine whether the change is allowed under GCP-4, and will notify the owner or operator of its determination and invoice the owner or operator for the applicable fee under 20.2.75.11.A NMAC. Within thirty (30) days of invoice, the owner or operator shall submit such fee to the Department. d. Upon approval, the revised Siting Registration information, such as lb/hr emission limits of new or altered emissions units, become part of the registration and enforceable.
5. Changes at the Facility That Are Not Allowed Under GCP-4	a. The owner or operator shall not make changes to the Facility that would prevent the Facility from meeting the requirements of GCP-4. The making of any change to the Facility that would prevent the Facility from meeting the requirements of GCP-4 is a violation of GCP-4 and subject to enforcement action. b. **Changes to the location of a registered Facility are not allowed under GCP-4.**

XI. Cancellation and Revocation of Registration

1. Cancellation of Registration Due To Lack of	The Department may cancel the Initial Registration under GCP-4 if the owner or operator of the Facility has not submitted the Siting Registration Application to the Department within two (2)

Construction	years of Initial Registration approval. The Department may also cancel the Initial Registration if construction work is suspended for one (1) year.
2. Cancellation of Registration Due To the End of Operation	The Department shall cancel the Siting Registration if the Facility ceases operation for five (5) years or more.
3. Revocation of Registration	The Department may revoke a Registration under GCP-4 in writing if the owner or operator of the Facility has knowingly and willfully misrepresented a fact on a registration form. If the Department revokes a Facility's Initial or Siting Registration, the Facility may appeal the decision (see Condition II.7).