

**Example Kansas Regular Class I Application  
for a  
Natural Gas Compressor Station**

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This mythical application should suffice as an example for the majority of compressor stations applying for a regular Class I operating permit. Call the Department at (785) 295-1570 for guidance concerning more complicated sources.

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**General Notes:**

The number of each form submitted in the application should be indicated on the Master List form.

On the previous Example Regular Class I Application that was distributed (dated June 5, 2001), for item 3 on *GI-01 Source Information* which reads “3) Type of Class I Permit: Initial \_\_\_ Modification \_\_\_ Renewal \_\_\_” it was stated that “Initial” should be checked. It is now recommended that “Renewal” be checked, so that it would not be implied to anyone reading the application that the source was not previously operating under a Title V permit. For sources currently operating under the G.O.P. for Natural Gas Compressor Stations that will be applying for a Regular Class I Operating Permit, “Renewal” will be entered into the KDHE database, regardless of how item 3 is marked on the application. -- Added 6/15/01

Since the processes involved in the operation of compressor stations are understood by the department, it is not necessary to include a *GI-02A Process Flow Diagram* or a *GI-06 Stack/Vent Diagram* in a natural gas compressor station Class I application.

Under *GI-09 Determination of Applicable Requirements*, the K.A.R. opacity reference citation in item 8, “Opacity Requirements” has changed from K.A.R. 28-19-50 to K.A.R. 28-19-650. The application forms have not been updated to show this new reference, yet. The operating permit will be issued showing the K.A.R. 28-19-650 reference.

**Example Summary:**

Western Kansas Gas Co, Inc., Source ID Number 1750900, operates the Liberal Compressor Station in Seward County which consists of the following:

1. Two compressor engines (EU-01 and EU-02), 2,000 HP each, installed in 1975.
2. Two compressor engines (EU-03 and EU-04), 800 HP each, installed in 1980, subject to PSD permit emission factor limitations.
3. One compressor engine (EU-05), 1,200 HP, installed in 1990, subject to construction permit limitations for a catalytic converter.
4. One glycol dehydrator, installed in 1978, subject to separate opacity requirements for the reboiler (EU-DehyR) and the regenerator vent (EU-DehyV).

5. One condensate storage tank (TK-01), 11,000 gallons, installed in 1985, subject to NSPS Subpart Kb.
6. One lube oil storage tank, 500 gallons, installed in 1975, (exempt).
7. One glycol storage tank, 500 gallons, installed in 1978, (exempt).
8. One propane storage tank, 1,000 gallons (4,240 lbs.), installed in 1978, (exempt).

### Example Notes:

The Class I initial application fee is \$1,000, but the fee is waived in this case. Under “Application Fee:” on the *Master List* form, “Annual emission fee credit is claimed” is checked, since this source paid emission inventory fees that were more than \$1,000 within the 12 month period immediately preceding the application date [K.A.R. 28-19-516 (c)].

The pollutants for which the source is major: NOx, CO.

The 500 gallon lube oil tank, 500 gallon glycol tank, and 1,000 gallon propane tank are considered exempt activities and thus not listed on the Class I operating permit application. [See “Exempt Activities”, “Miscellaneous:” in glossary which states “. . . no regulated pollutant is emitted . . . in quantities greater than 500 pounds per year unless total emissions of the pollutant emitted . . . from similar activities at the stationary source exceed 2000 pounds per year.”] The propane tank (1,000 gal. = 4,240 lbs.) holds less than the accidental release threshold quantity [Appendix Table F-3].

EPA allows 500 hr/yr to be used in the PTE calculations for "emergency" generators. If an emergency generator was on-site, it would probably qualify as either an “exempt activity” or an "insignificant activity". [See definitions of “Emergency Generator” and “Exempt Activities” in the glossary.]

While it is not necessary to show exempt activities on the application, it may be prudent to list an exempt activity on the *GI-02B Site Diagram* with the label “(Exempt)”. This would address potential questions from an inspector or the public for equipment with high visibility, such as large pressurized tanks or engines, that might appear to be missing from the permit.

The compressor engines, glycol dehydrator vent, and condensate storage tank were installed after January 1, 1971 and are all subject to 20% opacity. Since the engines, glycol dehydrator vent, and condensate storage tank have a common opacity requirement, they may comprise one compliance group (CG-01) on the *CD-01A Compliance Group Information* form. Notation is made in column 2e) on the *CD-01 Compliance Plan and Certification* form, that compliance for the engines, dehydrator vent, and condensate storage tank are presumed. [Equipment that may be presumed to be in compliance to opacity requirements can be found under *GI-09 Determination of Applicable Requirements*, item 8, “Opacity Requirements”.]

The glycol dehydrator reboiler is subject to K.A.R. 28-19-30(a) and (b)(2).

The condensate storage tank is subject to NSPS Subpart Kb, §60.166 paragraphs (a) and (b).

Two compressor engines (EU-03 and EU-04) are subject to the same PSD permit requirement, so they may comprise one compliance group (CG-02) on the *CD-01A Compliance Group Information* form. Two example *CD-01 Compliance Plan and Certification* forms are shown. Example 1 describes the compliance demonstration using an approved portable exhaust analyzer. Example 2 describes the compliance demonstration using parametric monitoring.

One compressor engine (EU-05) is subject to a construction permit requiring the use of a catalytic converter and an air/fuel ratio controller with the lambda value  $< 1$ . Form *GI-05A Pollution Control Equipment* lists control equipment. Catalytic converters are not listed in *Table GI-05A.1*, so CE Code "99" must be used (see instructions). Documentation of efficiencies claimed must be attached to the application.

Form *EC-01A Emission Group Information* (page 62) has been removed from the example, since the grouping assignment listed on the form was not used elsewhere in the example. -- Added 6/15/01

**EXAMPLE REGULAR CLASS I  
APPLICATION FOR  
COMPRESSOR STATIONS**

Fill in the 7-digit source ID number (previously referred to as the permit number) that KDHE has requested to be used when corresponding with the Bureau of Air and Radiation (BAR). If the source has never been issued an air emission permit before, leave this line blank.

Source ID Number:   1750900  

The following is a list of all class I operating permit application forms. In the blank by each form, enter the number of times that form is used in this operating permit application package. Enter "0" if that form is not used in this application package.

**Application Fee**

An application pertaining to a class I operating permit shall not be deemed complete unless accompanied by the appropriate fee [K.A.R. 28-19-516]. K.A.R. 28-19-516 (c) provides an application fee credit may be claimed by a source which also pays an annual emission fee. Contact the Bureau of Air and Radiation if the credit applies. Check the amount of application fee included in this permit application.

- \$1,000 for initial application
- \$1,000 for renewal application
- \$500 for application for a significant modification
- X   Annual emission fee credit claimed

**(GI) General Information Forms**

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<u>  1  </u>	GI-01	Source Information .....	43
<u>  0  </u>	GI-02A	Process Flow Diagram .....	45
<u>  1  </u>	GI-02B	Site Diagram .....	46
<u>  1  </u>	GI-05A	Pollution Control Equipment Information .....	47
<u>  0  </u>	GI-05G	Insignificant Activities and Emission Levels Information ...	48
<u>  0  </u>	GI-05H	Fugitive Emission Source Information .....	49
<u>  1  </u>	GI-05I	Tank Information .....	50
<u>  1  </u>	GI-05J	Emission Unit Information .....	51
<u>  0  </u>	GI-06	Stack/Vent Diagram .....	52
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**(EC) Emission Calculations Forms**

<u>  1  </u>	EC-01	Emissions Calculation .....	61
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**(CD) Compliance Demonstration Forms**

<u>  1  </u>	CD-01	Compliance Plan & Certification .....	63
<u>  1  </u>	CD-01A	Compliance Group Information .....	64
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**(ME) Monitoring Equipment Form**

<u>  0  </u>	ME-01	Continuous Monitoring System Information .....	66
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**(MOD) Modification Form**

<u>  0  </u>	MOD-01	Modification Description .....	67
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**(CR) Certification Forms**

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**EXAMPLE REGULAR CLASS I  
APPLICATION FOR  
COMPRESSOR STATIONS**

**Kansas Department of Health and Environment  
Bureau of Air and Radiation  
Forbes Field, Bldg. 283, Topeka KS 66620  
Phone (913) 296-6422 Fax (913) 291-3953**

**CLASS I OPERATING PERMIT  
APPLICATION FORM **GI-01**  
SOURCE INFORMATION**

- 1) Source ID Number: 1750900
- 2) Site Name: Liberal Compressor Station
- 3) Type of Class I Permit: Initial \_\_\_\_\_ Modification \_\_\_\_\_ Renewal X
- 4) Source Location: County: Seward  
Street Address: [Complete Remainder of GI-01 Form with Source Information]  
City: \_\_\_\_\_ State: KS  
or Section \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_
- 5) Corporate/Company Owner:  
Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_
- 6) Corporate/Company Operator (if different than owner):  
Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_
- 7) Responsible official for this permit/source:  
Mr/Ms: \_\_\_\_\_ Phone: \_\_\_\_\_  
Title: \_\_\_\_\_ Fax: \_\_\_\_\_  
At (check one): Owner Address \_\_\_\_\_ Operator Address \_\_\_\_\_ Source Address \_\_\_\_\_  
Other (specify) \_\_\_\_\_
- 8) Contact person for this permit:  
Mr/Ms: \_\_\_\_\_ Phone: \_\_\_\_\_  
Title: \_\_\_\_\_ Fax: \_\_\_\_\_  
At (check one): Owner Address \_\_\_\_\_ Operator Address \_\_\_\_\_ Source Address \_\_\_\_\_  
Other (specify) \_\_\_\_\_
- 9) Standard Industrial Classification (SIC) Code and description for the source:  
Primary: \_\_\_\_\_  
Other (if applicable): \_\_\_\_\_
- 10) Primary product produced (or activity performed) at the source: \_\_\_\_\_  
\_\_\_\_\_

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COMPRESSOR STATIONS**

Source ID Number: 1750900

11) Are any alternative operating scenarios proposed in this permit application?

Yes \_\_\_\_\_ No X

If yes, attach a description of the proposal with copies of the basic forms affected by the operating change, notated as to information no longer applicable and noting new information applicable to the alternative operating scenarios.

12) List pollutants for which the source is major:

NO<sub>x</sub>, CO

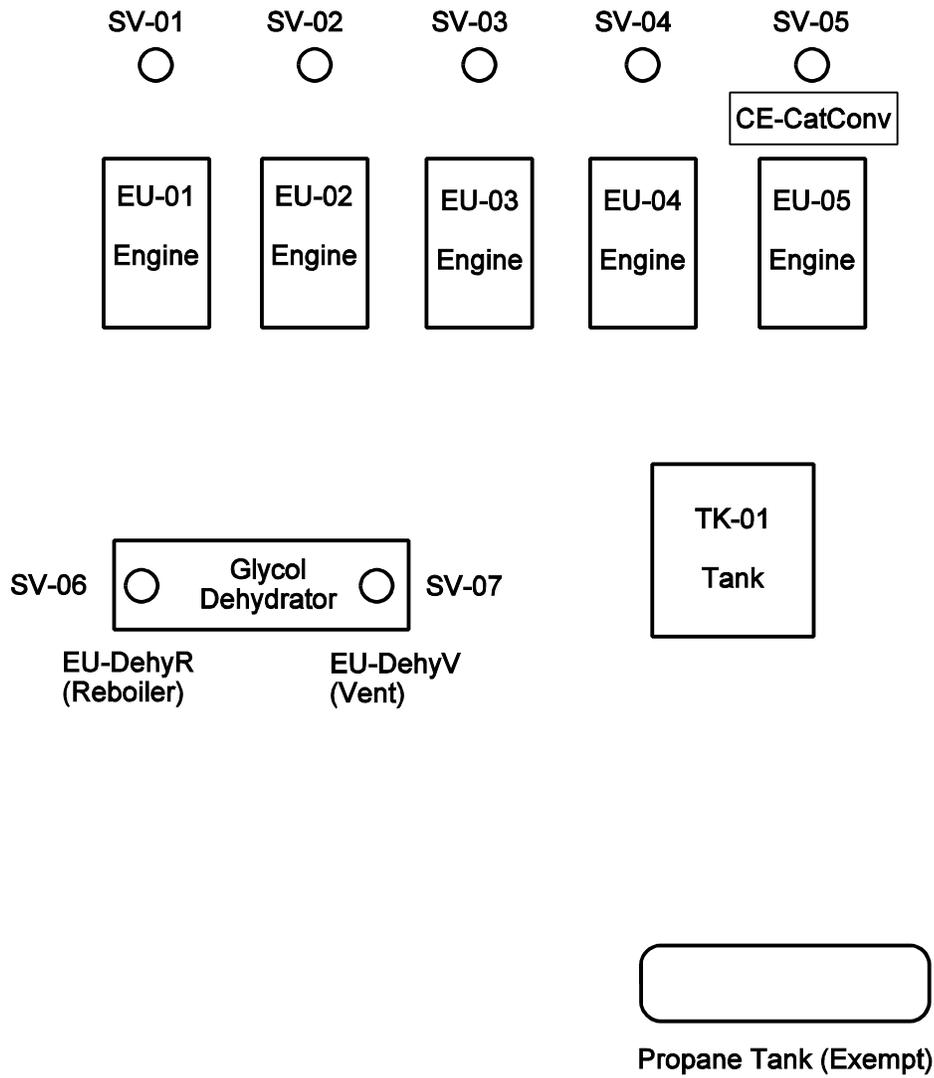
13) List pollutants for which the source has accepted or proposed permit limitations in order to reduce potential-to-emit to below major source thresholds:

None

14) Brief description of the source or proposed source to be permitted (attach additional sheet if necessary):

Natural gas compressor station.

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- 1) Source ID No.: 1750900  
2) Site Diagram:



**EXAMPLE REGULAR CLASS I  
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**Kansas Department of Health and Environment CLASS I OPERATING PERMIT APPLICATION FORM GI-05A  
Bureau of Air and Radiation POLLUTION CONTROL EQUIPMENT INFORMATION**

1) Source ID No.: 1750900

2a) Control Equipment (CE) ID	2b) Control Equipment (CE) Type Code	2c) Description (if CE type is 99)	2d) Pollutants Controlled	2e) Capture Efficiency	2f) Collection /Destruction Efficiency
CE-CatConv	99	Catalytic Converter	NOx	100%	90%*
CE-			CO	100%	90%*
CE-			VOC	100%	90%*
CE-					

\* Efficiency documentation attached.

DUPLICATE THIS FORM AS NEEDED



**EXAMPLE REGULAR CLASS I  
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1) Source ID No.: 1750900

2a) Emission Unit ID	2b) Emission Unit Description	2c) Stack/Vent ID	2d) Control Equipment ID
EU-01	2,000 HP Compressor Engine	SV-01	None
EU-02	2,000 HP Compressor Engine	SV-02	None
EU-03	800 HP Compressor Engine	SV-03	None
EU-04	800 HP Compressor Engine	SV-04	None
EU-05	1,200 HP Compressor Engine	SV-05	CE-Cat Conv
EU-DehyR	Glycol Dehydrator-Reboiler	SV-06	None
EU-DehyV	Glycol Dehydrator-Vent	SV-07	None
EU-			

Source ID Number: 1750900

**Standards of Performance for New Stationary Sources**

Read through the source category list of New Source Performance Standards (NSPS) in Table A. If an affected facility has been modified (as defined in 40 CFR 60.14), reconstructed (as defined in 40 CFR 60.15) or constructed on or after the effective date listed in the table, it may be subject to requirements of NSPS. To make the final determination, refer to the corresponding 40 CFR part 60 subpart. Submit corresponding application forms for each NSPS emission unit. Some non-major sources are also required by the applicable requirement to obtain a class I operating permit.

- Yes, the following subparts apply (e.g., NSPS subparts D, K, etc.):

NSPS Subpart Kb

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Complete the CD forms to address all applicable requirements.

- Yes, the source is a non-major source which is required to obtain a class I operating permit. **Contact BAR if the answer to this question is yes.**
- No, NSPS regulations do not apply to this source.

**CFC (Stratospheric Ozone)**

(40 CFR 82 and 1990 CAAA §601-618)

If the source manufactures, sells, distributes or uses any of the Class I and Class II ozone-depleting substances identified in the 1990 CAAA (see Table B), then CAAA §601-618 may apply.

- Yes, the source DOES manufacture, sell, distribute or use the following chemicals:

Chemical Name	Class Type	Replacement Chemical (after phase out)

- No, the source does NOT manufacture, sell, distribute or use any chemicals from the list.

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Source ID Number: 1750900

**Acid Rain (Phase I and II Facilities)**

(40 CFR 72, 40 CFR 73, and 1990 CAAA §401-416)

An affected source is required to get a Class I operating permit. A source which is designated as a Phase I or Phase II source under Title IV of the 1990 CAAA (see Table C) is an affected source.

An electrical generating unit which commenced operation after 11/15/90, sells electricity, and is not operating under a new unit exemption is an affected source.

An electrical generating unit that, after 11/15/90, serves a generator unit with a nameplate capacity greater than 25 megawatts and sells electricity is an affected source.

A simple combustion turbine that added or began using auxiliary firing after 11/15/90 and sells electricity is an affected source.

If the source combusts fossil fuel and generates electricity for wholesale or retail (such as a cogeneration facility, a qualifying facility as defined in the Federal Power Act, an independent power producer, or a solid waste incinerator), review the applicability definitions in 40 CFR 72.6 to make a determination whether the source is an affected source.

- Yes, the source is an affected source as defined above. Complete form CD-01 to address all applicable requirements.
- Check this box if the source has an electrical generating unit that commenced operation after November 15, 1990, produces electricity for sale, serves one or more generators with a total nameplate capacity of 25 megawatts or less, burns only fuels with a sulfur content of 0.05% or less by weight in the new electrical generating unit and has a new unit exemption for each such electrical generating unit. Complete form CD-01 for each such electrical generating unit.
- No, the source is NOT an affected facility.

**Hazardous Air Pollutants (HAP) Emission Sources**

(40 CFR 63)

- 1) If the source has the **potential-to-emit** ten (10) tons per year or more of any single pollutant or twenty five (25) tons per year or more of any combination of pollutants listed in Table D, the source is a major HAP source and needs a Class I operating permit. Some area (non-major) sources are also required by the applicable requirement to obtain a class I operating permit.
  - Yes, the source is a major HAP source and requires a Class I operating permit. Complete the CD forms to address all applicable requirements.
  - Yes, the source is an area (non-major) source which is required to obtain a class I operating permit. **Contact BAR if the answer to this question is yes.**
  - No, the source is NOT a major HAP source.
- 2) Read through the Categories of Sources of Hazardous Air Pollutants (Table E) and check one of the following:
  - Yes, the source includes equipment that fits one or more of the major source categories listed in Table E. If yes, complete the following:

<u>Categories</u>	<u>Scheduled Promulgation Date</u>
Stationary Internal Combustion Engine	11/15/00
Natural Gas Transmission & Storage	11/15/00

If the source is subject to a proposed or promulgated standard, complete the CD forms to address all applicable requirements.

- No, the source does NOT have any equipment that fits any of the major source categories listed in Table E.

**Section 112 (r) Sources**

(1990 CAAA §112(r))

- 1) Read through the list in Table F, Accidental Release Prevention list of regulated toxic/flammable substances and threshold quantities. List the substances which are in any process on the facility in an amount greater than the threshold quantities [§112(r)]:

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And check one of the following:

- Yes, the source is subject to §112(r), Prevention of Accidental Releases.  
 No, the source is NOT subject to §112(r).

If yes, has a management plan for the prevention of accidental releases that covers hazard assessment, pollution prevention, and emergency response issues been submitted to (1) Local Emergency Planning Committee; (2) State of Kansas; and (3) National Chemical Hazardous Investigation Board.

- Yes.                       No.

If no, submit a compliance schedule (**Form CD-03**).

**Hazardous Organic NESHAP (HON) Rule**

(40 CFR 63)

The HON rule applies to production of 386 chemical substances produced by Synthetic Organic Chemical Manufacturing Industry (SOCMI) as commercial products. A source is subject to the HON rule if the source: 1) is a major HAP source; 2) manufactures as a primary product one or more of the chemicals listed in Table G of the appendices; and 3) uses as a reactant or manufactures as a product, by-product, or co-product, one or more of the organic hazardous air pollutants listed in Table H of the appendices.

The HON Rule also includes certain equipment leak provisions that apply to non-SOCMI facilities, such as styrene/butadiene rubber production (butadiene and styrene emissions only); polybutadiene rubber production (butadiene emissions only); production of certain agricultural chemicals (butadiene, carbon tetrachloride, methylene chloride, and ethylene dichloride emissions only); certain polymers/resins or other chemical processes (carbon tetrachloride, methylene chloride, tetrachloroethylene, chloroform, ethylene dichloride, and butadiene emissions only); and pharmaceutical processes using carbon tetrachloride or methylene chloride (carbon tetrachloride and methylene chloride emissions only).

- Yes, the source (or a portion of it) is subject to the HON rule. Complete the CD forms to address all applicable requirements.  
 No, the source is NOT subject to HON requirements.

**National Emission Standard for Hazardous Air Pollutants (NESHAP)**

(40 CFR 61)

Read through Table I. If the source emits any of the listed pollutants, and the source type, process or equipment matches those associated with the pollutant, a NESHAP requirement may apply to the source. To determine if a standard applies to the source, refer to the corresponding 40 CFR 61 subpart(s).

- Yes, the source (or a portion of it) is subject to a NESHAP requirement. Complete the CD forms to address all applicable requirements.  
 No, the source is NOT subject to a NESHAP requirement.

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**VOC Regulations for Sources in Wyandotte and Johnson Counties (Reasonably Available Control Technology Rules)**

If the source is located in Wyandotte or Johnson county and belongs to one or more of the following source categories, check KAR §28-19-61 through §28-19-77 to determine whether the source is subject to those regulations (check all that apply):

- Automobile and light duty truck surface coating (manufacturing only)
- Bulk gasoline terminals
- VOC liquid storage in permanent fixed roof type tanks
- VOC liquid storage in external floating roof tanks
- Petroleum refineries
- Leaks from petroleum refinery equipment
- Cutback asphalt
- Leaks from gasoline delivery vessels and vapor collection systems
- Printing operations
- Gasoline dispensing facilities
- Surface coating of miscellaneous metal parts and products and metal furniture
- Wool fiberglass manufacturing
- Solvent metal cleaning
- Lithograph printing operations
- Chemical processing facilities that operate alcohol plants or liquid detergent plants

Complete the CD forms to address all applicable requirements.

- N/A

**Enhanced Monitoring**

(40 CFR Part 64, 1990 CAAA §114(a)(3) and §504(b))

As of March 1996, federal EPA has not promulgated any enhanced monitoring regulation. The source may be subject to enhanced monitoring requirements and the submission of compliance certifications once regulations are promulgated.

**Solid Waste Combustion**

(1990 CAAA, §129(e), and KAR §28-19-500)

Is the source a municipal solid waste incinerator subject to rules adopted under section 129(e) of the federal Clean Air Act?

- Yes. Complete the CD forms to address all applicable requirements.
- No.

**Permit Conditions**

Conditions in construction permits which affect operations or emissions of the source in any manner are applicable requirements. Review all construction permits issued to this source. Check one of the following:

- Yes, the source has permit conditions. Complete the CD forms to address all applicable requirements.
- No, the source has no permit conditions.

**Kansas State Implementation Plan (SIP) Rules**

(KAR 28-19-20 through KAR 28-19-52)

1) Particulate Matter Emission Limitations (KAR 28-19-20).

If the source has any emission of particulate matter from any processing machine, equipment, device or other articles, or combination thereof, excluding indirect heating equipment and incinerators, the source is subject to KAR 28-19-20.

- Yes, the source is subject to KAR 28-19-20. Complete the CD forms to address this requirement for any emission activity which was constructed after January 1, 1971 and which has not received a construction permit or approval if the emission activity is not in compliance. Any emission activity not listed in the CD forms is certified by the applicant as being in compliance with this requirement.
- No, the source is NOT subject to KAR 28-19-20.

2) Sulfur Compound Emissions (KAR 28-19-22).

If the source has primary nonferrous smelters or any process gas stream that contains H<sub>2</sub>S in concentrations greater than 10 grains per 100 cubic feet of gas, the source is subject to KAR 28-19-22.

- Yes, the source is subject to KAR 28-19-22. Complete the CD forms to address this requirement for any emission activity which was constructed after January 1, 1971 and which has not received a construction permit or approval if the emission activity is not in compliance. Any emission activity not listed in the CD forms is certified by the applicant as being in compliance with this requirement.
- No, the source is NOT subject to KAR 28-19-22.

3) Hydrocarbon Emissions Stationary Sources (KAR 28-19-23)

If the source has any stationary tank reservoirs or other containers of more than 40,000 gallons capacity of gasoline or any petroleum distillate having a vapor pressure of 3.0 pounds per square inch, absolute, or greater under actual storage conditions, the source may be subject to KAR 28-19-23.

- Yes, the source is subject to KAR 28-19-23. Complete the CD forms to address this requirement for any emission activity which was constructed after January 1, 1971 and which has not received a construction permit or approval if the emission activity is not in compliance. Any emission activity or equipment not listed in the CD forms is certified by the applicant as being in compliance with this requirement.
- No, the source is NOT subject to KAR 28-19-23.

4) Carbon Monoxide (CO) Emissions (KAR 28-19-24).

If the source has a grey iron cupola, the source may be subject to KAR 28-19-24.

- Yes, the source is subject to KAR 28-19-24. Complete the CD forms to address this requirement for any emission activity which was constructed after January 1, 1971 and which has not received a construction permit or approval if the emission activity is not in compliance. Any emission activity or equipment not listed in the CD forms is certified by the applicant as being in compliance with this requirement.
- No, the source is NOT subject to KAR 28-19-24.

APPLICATION FOR  
COMPRESSOR STATIONS5) Sulfuric Acid Mist (H<sub>2</sub>SO<sub>4</sub>) Emissions (KAR 28-19-26).

Sulfuric acid production activity is defined as a activity producing sulfuric acid through the contact process by burning elemental sulfur, alkylation acid, hydrogen sulfide, organic sulfides and mercaptans, or acid sludge. Sulfuric acid production activities do not include activities in which the conversion to sulfuric acid is used primarily to prevent emissions to the atmosphere of sulfur dioxide or other sulfur compounds.

If the source has a sulfuric acid production activity the source may be subject to KAR 28-19-26.

- Yes, the source is subject to KAR 28-19-26. Complete the CD forms to address this requirement for any emission activity which was constructed after January 1, 1971 and which has not received a construction permit or approval if the emission activity is not in compliance. Any emission activity or equipment not listed in the CD forms is certified by the applicant as being in compliance with this requirement.
- No, the source is NOT subject to KAR 28-19-26.

## 6) Indirect Heating Equipment Emissions (KAR 28-19-30 through KAR 28-19-32).

Indirect heating equipment is any equipment in which fuel is burned for the primary purpose of producing steam, hot water, or hot air or other indirect heating or liquids, gases, or solids and in the course of doing so, the products of combustion do not come into direct contact with process materials.

If the source has any indirect heating equipment, the source may be subject to KAR 28-19-30 through KAR 28-19-32.

- Yes, the source is subject to KAR 28-19-30 through KAR 28-19-32. Complete the CD forms to address this requirement for any emission activity which was constructed after January 1, 1971 and which has not received a construction permit or approval if the emission activity is not in compliance. Any emission activity or equipment not listed in the CD forms is certified by the applicant as being in compliance with this requirement.
- No, the source is NOT subject to KAR 28-19-30 through KAR 28-19-32.

## 7) Incinerator Emissions (KAR 28-19-40 through KAR 28-19-43).

If the source has a waste incinerator or pyrolysis unit or modified open burning operation, the source may be subject to KAR 28-19-40 through KAR 28-19-43.

- Yes, the source is subject to KAR 28-19-40 through KAR 28-19-43. Complete the CD forms to address all applicable requirements.
- No, the source is NOT subject to KAR 28-19-40 through KAR 28-19-43.

## 8) Opacity Requirements (KAR 28-19-50)

Complete the CD forms to address opacity requirements for any emission activity except fugitive emissions.

Unless an applicable requirement specifies a lower opacity:

- All Wyandotte County sources are subject to 20% opacity limitation.
- All incinerators are subject to 20% opacity limitation.
- Processing of materials, other use of premises and indirect heating equipment that existed on January 1, 1971 are subject to 40% opacity limitation.
- Processing of materials, other use of premises and indirect heating equipment not existing on January 1, 1971 are subject to 20% opacity limitation.

For the purposes of completing the CD forms, the following emission sources may be presumed to be in compliance with any opacity limits of 20% or greater:

- Heaters burning refinery gas at refineries, degreasing operations, painting operations, non-heat set printing operations, other non-heat set evaporative VOC sources, petroleum product storage tanks and glycol dehydrators.

**APPLICATION FOR  
COMPRESSOR STATIONS**

For the purposes of completing the CD forms, the following emission sources may be presumed to be in compliance with any opacity limits of 20% or greater when operating on natural gas or propane/LPG:

- Burners in indirect heating applications, space heaters, turbines, internal combustion engines or boilers. This presumption does not include emissions from the material being heated in indirect heating applications.

The above listed presumptions allow those listed emission sources to be shown in compliance by entering "burns natural gas/propane/LPG" or "< 20% opacity presumed", whichever is applicable, in column 2e) of form CD-01.

- 9) Is the source subject to any federally-enforceable emission limits which conflict with any applicable requirements?  
 Yes \_\_\_\_\_ No X If yes, explain (use additional sheets as necessary):

Complete the CD forms to address all applicable requirements.

- 10) Does the applicant propose any exemptions from otherwise applicable requirements?

Yes \_\_\_\_\_ No X If yes, explain (use additional sheets as necessary):

If "Yes" is checked, does the applicant request that the permit shield apply? Yes \_\_\_\_\_ No \_\_\_\_\_

- 11) Does the applicant propose any federally enforceable permit conditions?

Yes \_\_\_\_\_ No X If yes, list them (use additional sheets as necessary):

Complete the CD forms to address all applicable requirements.

- 12) Does the applicant propose any permit terms and conditions allowing emissions trading which are otherwise authorized in the Kansas air quality regulations?

Yes \_\_\_\_\_ No X If yes, list terms and conditions and reference the regulation which authorizes the emission trading (use additional sheets as necessary):

Complete the CD forms to address all applicable requirements.

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13) Wyandotte County sources only. Is the source subject to any Wyandotte County ordinance as adopted into the Kansas State Implementation Plan at 40 CFR 52.870(c)(9)(iii)?

Yes \_\_\_\_\_ If yes, complete the CD forms to address all applicable requirements.  
No \_\_\_\_\_  
N/A X

**Applicable Requirements That Will Become Effective During Permit Term**

The following applicable requirements will become applicable to the source during the permit term:

None  
\_\_\_\_\_  
\_\_\_\_\_

The applicant is required to state that the emission unit or stationary source will meet, on a timely basis, all applicable requirements that will become effective during the permit term.

**The Applicant Must Check the Following Box "Yes" in Order for this Application to be Determined Complete:**

Yes X The stationary source which is the subject of this application will meet, on a timely basis, any applicable requirements which become effective during the permit term.

1) Source ID No.: 1750900

2a) Emission Source or Emission Group ID	2b) Pollutant	2c) Potential-to- Emit (tons/yr)	2d) Calculation Method (CM) Code	2e) Calculation Method Description (if CM code is 99)
EG-01	No <sub>x</sub>	>100	016	
	CO	>100	010	
	VOC	<100	010	
	PM <sub>10</sub>	<100	010	
	SO <sub>x</sub>	<100	010	
	Individual HAP (Formaldehyde)	2	010	
	Total HAPs	5	010	
EU-DehyR	No <sub>x</sub>	<100	010	
	CO	<100	010	
	VOC	<100	010	
EU-DehyV	VOC	<100	032	
	Individual HAP (Benzene)	5	032	
	Total HAPs	8	032	
TK-01	VOC	<100	030	

1) Source ID No.: 1750900

**CD-01 EXAMPLE NO. 1**

2a) Emission Source or Compliance Group ID	2b) Citation	2c) Applicable Requirement	2d) Compliance Status	2e) How is compliance status to be demonstrated? (Monitoring, reporting, record keeping, and/or performance test)	2f) Certification Reporting Schedule	2g) Subject to Enhanced Monitoring Rule?
EU-DehyR	28-19-31(a)	From the formula stated, The allowable emission rate in lb / 10 <sup>6</sup> BTU for indirect heating equipment with total heat input less than ten (10) million BTU/hr is 0.6 lb / 10 <sup>6</sup> BTU.	In	Compliance shall be demonstrated by evaluating the particulate emission rate limitation when either the process changes or an emission factor increases.	Annual	
	28-19-31(b)(2)	Opacity less than 20%.	In	Glycol dehydrator; presumed to be in compliance.	Annual	
EU-05	Construction Permit Condition	Engine emissions directed to a catalytic converter at all times engine is operating.	In	Keep maintenance log showing date of all routine or other maintenance, malfunction, or repair of the control equipment.	Annual	
	Construction Permit Condition	Catalytic converter used in conjunction with an air/fuel ratio controller at all times engine is operating.	In	Keep maintenance log showing date of all routine or other maintenance, malfunction, or repair of the control equipment.	Annual	
	Construction Permit Condition	Lambda value programmed into air/fuel ratio controller to be <1.0.	In	Keep maintenance log showing date of all routine or other maintenance, malfunction, or repair of the control equipment.	Annual	
CG-01	28-19-650	Opacity less than 20%.	In	Engines burn natural gas; presumed to be in compliance. Glycol dehydrator; presumed to be in compliance. Petroleum product storage tank; presumed to be in compliance.	Annual	
CG-02	PSD Permit dated xx/xx/19xx	Emission factor for each engine to be < 15.0 gm/ hp-hr for NO <sub>x</sub> and < 1.5 gm/ hp-hr for NO <sub>2</sub> .	In	Compliance with the NO <sub>x</sub> and NO <sub>2</sub> emission rates shall be demonstrated by measuring the concentrations of the relevant pollutants in the exhaust gas stream with a properly maintained, calibrated, and operated device approved by KDHE.	Annual	

1) Source ID No.: 1750900 **CD-01 EXAMPLE NO. 1**

2a) Emission Source or Compliance Group ID	2b) Citation	2c) Applicable Requirement	2d) Compliance Status	2e) How is compliance status to be demonstrated? (Monitoring, reporting, record keeping, and/or performance test)	2f) Certification Reporting Schedule	2g) Subject to Enhanced Monitoring Rule?
CG-02 (con't)			In	Exhaust gas concentrations shall be measured and recorded quarterly, with at least 7 days between qualifying measurement events.	Annual	
			In	Records shall be maintained for a period of at least 5 years from the date of the activity and shall be maintained on site (offsite allowed if station is unmanned) for a period of not less than two years from the date of the activity. BAR shall be notified in writing within 10 working days of any monitored pollutant which exceeds the specified emission rate.	Annual	
TK-01	NSPS Subpart Kb	40 CFR 60.116b (Monitoring of operations) paragraphs (a) and (b).	In	Require readily accessible records showing the dimensions of "TK-01" and an analysis showing the capacity of "TK-01" be kept for the life of "TK-01".	Annual	

EXAMPLE REGULAR CLASS I  
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1) Source ID No.: 1750900 **CD-01 EXAMPLE NO. 2**

2a) Emission Source or Compliance Group ID	2b) Citation	2c) Applicable Requirement	2d) Compliance Status	2e) How is compliance status to be demonstrated? (Monitoring, reporting, record keeping, and/or performance test)	2f) Certification Reporting Schedule	2g) Subject to Enhanced Monitoring Rule?
EU-DehyR	28-19-31(a)	From the formula stated, The allowable emission rate in lb / 10 <sup>6</sup> BTU for indirect heating equipment with total heat input less than ten (10) million BTU/hr is 0.6 lb / 10 <sup>6</sup> BTU.	In	Compliance shall be demonstrated by evaluating the particulate emission rate limitation when either the process changes or an emission factor increases.	Annual	
	28-19-31(b)(2)	Opacity less than 20%.	In	Glycol dehydrator; presumed to be in compliance.	Annual	
EU-05	Construction Permit Condition	Engine emissions directed to a catalytic converter at all times engine is operating.	In	Keep maintenance log showing date of all routine or other maintenance, malfunction, or repair of the control equipment.	Annual	
	Construction Permit Condition	Catalytic converter used in conjunction with an air/fuel ratio controller at all times engine is operating.	In	Keep maintenance log showing date of all routine or other maintenance, malfunction, or repair of the control equipment.	Annual	
	Construction Permit Condition	Lambda value programmed into air/fuel ratio controller to be <1.0.	In	Keep maintenance log showing date of all routine or other maintenance, malfunction, or repair of the control equipment.	Annual	
CG-01	28-19-650	Opacity less than 20%.	In	Engines burn natural gas; presumed to be in compliance. Glycol dehydrator; presumed to be in compliance. Petroleum product storage tank; presumed to be in compliance.	Annual	
CG-02	PSD Permit dated xx/xx/19xx	Emission factor for each engine to be < 15.0 gm/ hp-hr for NO <sub>x</sub> and < 1.5 gm/ hp-hr for NO <sub>2</sub> .	In	Engine data obtained in accordance with performance testing requirements will be used to demonstrate compliance with the maximum emission rates. Engine parameters monitored, and ranges derived, during the performance test are:	N/A	

1) Source ID No.: 1750900 **CD-01 EXAMPLE NO. 2**

2a) Emission Source or Compliance Group ID	2b) Citation	2c) Applicable Requirement	2d) Compliance Status	2e) How is compliance status to be demonstrated? (Monitoring, reporting, record keeping, and/or performance test)	2f) Certification Reporting Schedule	2g) Subject to Enhanced Monitoring Rule?
CG-02 (con't)			In	Intake Manifold Air Temperature: _____ (F) Intake Manifold Air Pressure: _____ (PSIA) Intake Manifold Fuel Pressure: _____ (PSIA) Engine Speed: _____ (RPM) Fuel/Air Pressure Ratio: _____ (PSIA/PSIA)	N/A	
			In	Records shall be maintained for a period of at least 5 years from the date of the activity and shall be maintained on site (offsite allowed if station is unmanned) for a period of not less than two years. BAR shall be notified in writing within 10 working days of any monitored parameter which falls outside the range specified.	Annual	
TK-01	NSPS Subpart Kb	40 CFR 60.116b (Monitoring of operations) paragraphs (a) and (b).	In	Require readily accessible records showing the dimensions of "TK-01" and an analysis showing the capacity of "TK-01" be kept for the life of "TK-01".	Annual	



**EXAMPLE REGULAR CLASS I  
APPLICATION FOR  
COMPRESSOR STATIONS**

Source ID No.: 1750900

Site Name: Liberal Compressor Station

**CERTIFICATION**

I certify under penalty of law that the enclosed documents and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I also certify that the stationary source identified in this application is in compliance with all applicable requirements except those requirements for which a compliance schedule has been submitted in Compliance Schedule Form (CD-03). I understand that failure to comply with any term of a compliance schedule is considered to be a violation of regulation K.A.R. 28-19-511.

Name of Responsible Official (print or type): Ms. Susan Jones

Title: President

Signature: *Susan Jones*

Date: 6 / 4 / 2001

Any person who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, an applicant shall provide additional information as necessary to address any requirements that become applicable to the stationary source after the date a complete application was filed but prior to the solicitation of public comments regarding the proposed permit. [K.A.R. 28-19-511 (f)]