



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706-1255 • (208) 373-0502

Dirk Kempthorne, Governor
C. Stephen Allred, Director

May 28, 2002

CERTIFIED MAIL # 7000 1530 0005 5348 4953

Mr. Gary Young, City Engineer
City of Twin Falls
321 Second St. S.
Twin Falls, ID 83301

RE: AIRS Facility No. 083-00085, City of Twin Falls, Idaho
(Wastewater Pretreatment Facility Flare, Permit to Construct)

Dear Mr. Young:

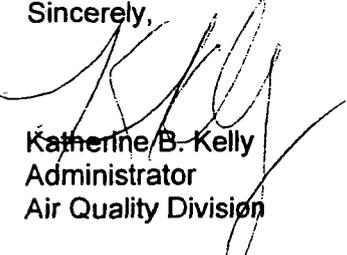
On December 12, 2000, the Department of Environmental Quality (Department) received a permit to construct (PTC) application for an anaerobic digester off-gas flare at the City of Twin Falls' wastewater pretreatment facility. Based on review of the application and all applicable state and federal rules and regulations, the Department finds that this project meets the provisions of IDAPA 58.01.01.200, *Rules for the Control of Air Pollution in Idaho*.

Enclosed is PTC No. 083-00085 for the anaerobic digester off-gas flare. This permit does not release the City of Twin Falls from compliance with all other applicable federal, state, or local laws, regulations, permits, and ordinances.

Steve VanZandt of the Twin Falls Regional Office will contact you regarding a meeting with the Department to discuss the permit terms and requirements. In addition to your facility's plant manager, the Department recommends the following representatives attend the meeting: your responsible official, environmental contact, and any operations staff responsible for day-to-day compliance with the permit conditions.

You, as well as any other entity, may have the right to appeal this permit pursuant to IDAPA 58.01.23, *Rules of Administrative Procedure Before the Board of Environmental Quality*. A petition may be filed with the Hearings Coordinator, Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-1255 within 35 days of the date of this decision. However, prior to filing a petition for a contested case, the Department encourages you to contact Dan Salgado at (208) 373-0431 to address any questions or concerns you may have with the enclosed permit.

Sincerely,


Katherine B. Kelly
Administrator
Air Quality Division

KK/RA/bh Project No. P-000417² G:\AIR PERMITS\PTC\CITY OF TWIN FALLS\FINAL PREP\P-000417 LETTER.DOC
Enclosures

cc: Stephen VanZandt, Twin Falls Regional Office
Laurie Kral, EPA Region 10



Air Quality
PERMIT TO CONSTRUCT
 State of Idaho
 Department of Environmental Quality

PERMIT NO.: 083-00085
 AQCR: 63 CLASS: B
 SIC: 4952 ZONE: 11
 UTM COORDINATE (km): 706.9, 4714.2

1. **PERMITTEE**
 City of Twin Falls Wastewater Pretreatment Plant

2. **PROJECT**
 Flare for off-gas from anaerobic digesters

3. MAILING ADDRESS 321 Second St., S.	CITY Twin Falls	STATE ID	ZIP 83301-6248
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4. FACILITY CONTACT Gary Young, P.E.	TITLE City Engineer	TELEPHONE (208) 735-7273
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5. RESPONSIBLE OFFICIAL Gary Young, P.E.	TITLE City Engineer	TELEPHONE (208) 735-7273
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6. EXACT PLANT LOCATION Oak Street	COUNTY Twin Falls
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7. **GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS**
 Wastewater pretreatment facility

GENERAL CONDITIONS

This permit is issued according to IDAPA 58.01.01.200, *Rules for the Control of Air Pollution in Idaho*, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be constructed by this permit.

This permit (a) does not affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment; (c) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; (d) in no manner implies or suggests that the Idaho Department of Environmental Quality or its officers, agents, or employees, assume any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment.

This permit is not transferable to another person, place, or piece or set of equipment. This permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.

This permit has been granted on the basis of design information presented with its application. Changes of design or equipment may require Department approval pursuant to the *Rules for the Control of Air Pollution in Idaho*, IDAPA 58.01.01.200, et seq.

KATHERINE B. KELLY, ADMINISTRATOR, AIR QUALITY DIVISION
 DEPARTMENT OF ENVIRONMENTAL QUALITY

DATE ISSUED: May 28, 2002

ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE

AQCR	Air Quality Control Region
Department	Department of Environmental Quality
H ₂ S	hydrogen sulfide
IDAPA	A numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
PTC	permit to construct
SIC	Standard Industrial Classification
UTM	universal transverse mercator

AIR QUALITY PERMIT TO CONSTRUCT NUMBE. 083-00085

Permittee: City of Twin Falls
Location: Twin Falls, Idaho

Date Issued: May 28, 2002

1. PERMIT TO CONSTRUCT SCOPE

Purpose

This permit to construct (PTC) is for a flare for off-gas from anaerobic digesters at the Twin Falls wastewater treatment plant. There are no existing air permits for this facility.

Regulated Sources

Table 1.1 below lists all sources of emissions that are regulated in this PTC.

Table 1.1 EMISSIONS SOURCE

Permit Section	Source Description	Emissions Control(s)
2	Waste-gas flare	None

Permittee: City of Twin Falls
Location: Twin Falls, Idaho

Date Issued: May 28, 2002

2. WASTE-GAS FLARE

2.1 Process Description

The primary purpose of the emissions unit is to burn the off-gases, which contain H₂S, released from anaerobic digesters that treat wastewater from potato processing.

2.2 Control Description

Emissions from the flare are uncontrolled.

Emissions Limits

2.3 Emissions Limits

Emissions from the digester flare shall not exceed the following in any consecutive 12-month period:
sulfur dioxide: 81.2 T/yr and carbon monoxide: 19.1 T/yr.

2.4 Opacity Limit

Emissions emanating from any point of emissions shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required in IDAPA 58.01.01.625. Opacity shall be determined using the procedures contained in IDAPA 58.01.01.625.

[IDAPA 58.01.01.625]

2.5 Odors

No person shall allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution as required in IDAPA 58.01.01.775-776.

[IDAPA 58.01.01.775-776]

Operating Requirements

2.6 Pilot Flame and Alarm System on Flare

The flare shall be operated with a pilot flame present at all times while receiving off-gasses due to the operation of the digester. The permittee shall install an alarm system on the flare to notify operating personnel in case of a flare flame-out. The flare shall be re-ignited as expeditiously as practicable. The permittee shall maintain records onsite of the time and duration of all flame-out periods for the most recent two-year period.

[IDAPA 58.01.01.211.01]

2.7 Odor Complaints

The permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall, at a minimum, include the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.

[IDAPA 58.01.01.211.01]

Permittee: City of Twin Falls
Location: Twin Falls, Idaho

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Monitoring and Recordkeeping Requirements

2.8 Biogas Flow and H₂S Concentration Monitoring

Within 60 days of issuance of this permit, the permittee shall install, calibrate, and operate a biogas flow meter and H₂S gas monitor that shall be placed after the digester and prior to the biogas flare.

The permittee shall monitor and record the biogas flow and the H₂S concentration on a weekly basis. A compilation of the most recent two years of records shall be kept onsite and shall be made available to Department representatives upon request.

The permittee shall use the biogas flow rate and the H₂S concentration results to calculate the annual SO₂ and CO emissions from the combustion of biogas each month for the preceding 12-month period. A compilation of the most recent two years of records shall be kept onsite and shall be made available to Department representatives upon request.

Reporting Requirements

2.9 Flame-outs and Odor Complaints

The permittee shall notify the Department's Twin Falls Regional Office within one hour of any flare flame-out. The permittee shall submit semiannual reports to the Department by January 15 and July 15 of each year summarizing the occurrences of flare flame-outs, odor complaints, and corrective actions taken during the period.

[IDAPA 58.01.01.211.01]

Permittee: City of Twin Falls
Location: Twin Falls, Idaho

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3. PERMIT TO CONSTRUCT GENERAL PROVISIONS

1. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the *Rules for the Control of Air Pollution in Idaho*. The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the *Rules for the Control of Air Pollution in Idaho*, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq.
2. The permittee shall at all times (except as provided in the *Rules for the Control of Air Pollution in Idaho*) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.
3. The permittee shall allow the Director, and/or the authorized representative(s), upon the presentation of credentials:
 - 3.1 To enter, at reasonable times, upon the premises where an emissions source is located, or in which any records are required to be kept under the terms and conditions of this permit.
 - 3.2 At reasonable times, to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring methods required in this permit, and require stack emissions testing in conformance with IDAPA 58.01.01.157 when deemed appropriate by the Director.
4. Nothing in this permit is intended to relieve or exempt the permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
5. The permittee shall notify the Department, in writing, of the required information for the following events within five working days after occurrence:
 - Initiation of Construction - Date
 - Completion/Cessation of Construction - Date
 - Actual Production Startup - Date
 - Initial Date of Achieving Maximum Production Rate - Production Rate and Date
6. If emissions testing is specified, the permittee must schedule such testing within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup. Such testing must **strictly** adhere to the procedures outlined in IDAPA 58.01.01.157 and shall not be conducted on weekends or state holidays without prior written approval from the Department. Testing procedures and specific time limitations may be modified by the Department by prior negotiation if conditions warrant adjustment. The Department shall be notified at least 15 days prior to the scheduled compliance test. Any records or data generated as a result of such compliance test shall be made available to the Department upon request.

The maximum allowable operating rate shall be limited to 120% of the average operating rate attained during any performance test period, for which a test protocol has been granted prior approval by the Department, unless (1) the test demonstrates noncompliance; (2) a more restrictive operating limit is specified elsewhere in this permit; or (3) at such an operating rate, emissions would exceed any emissions limit(s) set forth in this permit.
7. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.