



State of Utah

GARY R. HERBERT
Governor

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Lieutenant Governor

Department of
Environmental Quality

Amanda Smith
Executive Director

DIVISION OF AIR QUALITY
Cheryl Heying
Director

DAQE-AN0122320002-10

November 4, 2010

Sharley Leonard
Intermountain Health Care
36 South State Street
Salt Lake City, UT 84111

Dear Ms. Leonard:

Re: Approval Order: Administrative Amendment to DAQE-322-99 to Update Format
Project Number: N012232-0002

The attached document is the Approval Order for the above-referenced project. Future correspondence on this Approval Order should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. The project engineer for this action is Camron Harry, who may be reached at (801) 536-4232.

Sincerely,

M. Cheryl Heying, Executive Secretary
Utah Air Quality Board

MCH:CAH:kw

cc: Salt Lake Valley Health Department

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

APPROVAL ORDER: Administrative Amendment to DAQE-322-99 to Update Format

**Prepared By: Camron Harry, Engineer
Phone: (801) 536-4232
Email: caharry@utah.gov**

APPROVAL ORDER NUMBER

DAQE-AN0122320002-10

Date: November 4, 2010

**Intermountain Health Care
IHC Lake Park Office Complex**

**Source Contact:
Ms. Sharley Leonard
Phone: (801) 442-3449**

**M. Cheryl Heying
Executive Secretary
Utah Air Quality Board**

Abstract

DAQ has implemented a new electronic permitting database system. In order to initiate Division wide use of this system, the most recent AO for the IHC Lake Park Office Complex, DAQE-322-99, dated May 3, 1999, will be updated into this database. There were no changes to the content of the permit, just adjustments to the organization of the permit. The previous permit was issued as a result of the construction of a diesel powered standby generator, two boilers, and a parking lot.

The Intermountain Health Care: IHC Lake Park Office Complex is located in West Valley City, Salt Lake County. Salt Lake County is a nonattainment area of NAAQS for PM₁₀, PM_{2.5}, & SO₂ and a maintenance area for CO & Ozone. NSPS, NESHAP, and MACT regulations do not apply to this source. Title V of the 1990 Clean Air Act does not apply to this source. This facility is classified as a minor source.

The emissions, in tons per year, will remain as follows: PM₁₀=0.40, SO₂=0.67, NO_x=10.41, CO=17.71, and VOC=2.45.

This air quality AO authorizes the project with the following conditions and failure to comply with any of the conditions may constitute a violation of this order. This AO is issued to, and applies to the following:

Name of Permittee:

Intermountain Health Care
36 South State Street
Salt Lake City, UT 84111

Permitted Location:

IHC Lake Park Office Complex
4646 West Lake Park Blvd
West Valley City, UT 84119

UTM coordinates: 415,295 m Easting, 4,507,331 m Northing, UTM Zone 12
SIC code: 8062 (General Medical & Surgical Hospitals)

Section I: GENERAL PROVISIONS

- I.1 The owner/operator shall comply with UAC R307-107. General Requirements: Unavoidable Breakdowns. [R307-107]
- I.2 All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
- I.3 The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
- I.4 Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]
- I.5 All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401]

- I.6 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]
- I.7 The owner/operator shall comply with UAC R307-150 Series. Inventories, Testing and Monitoring. [R307-150]

Section II: SPECIAL PROVISIONS

II.A The approved installations shall consist of the following equipment:

- II.A.1 **IHC Office Complex**
Source Wide
- II.A.2 **Two (2) Low NO_x Natural Gas Fired Boilers**
 Manufacturer: Bryan
 Model No: RV450W-FDG
 Serial No: 81800 & 81801
 Burner: Low NO_x
 Heating Capacity: 4.5 x 10⁶ BTU/hr-each
- II.A.3 **One (1) Diesel Fired Emergency Generator**
 Manufacturer: Caterpillar
 Model No: SR4B
 Rated at: 1250 kW/1,786 bhp
 Fuel: #2 diesel fuel
- II.A.4 **1,500 Stall Parking Lot**

II.B Requirements and Limitations

- II.B.1 **IHC Lake Park Office Complex**
- II.B.1.a At least once per calendar year, all employees who operate equipment (operator) that produces emissions to the air shall receive proper training as to their responsibilities in operating that equipment according to all relevant conditions of this AO. The training for each operator shall be for all equipment that operator operates. The equipment shall include all of the equipment listed II.A. Within 60 days of every time this AO is modified or reissued, those employees who operate equipment that produces emissions to the air that is affected by the AO changes shall receive proper training as to their responsibilities in operating equipment according to all relevant conditions of this AO. Within 60 days of a new operator being employed or assigned with the job responsibility to operate any of the equipment that produces emissions to the air,

the new operator shall receive proper training as to their responsibilities in operating the equipment according to all relevant conditions of this AO. Records of operator training shall be made available to the Executive Secretary or Executive Secretary's representative upon request and the records shall include the two-year period prior to the date of the request. This AO shall be made available to all employees who operate the equipment listed in this AO. [R307-401]

II.B.1.b Visible emissions from the following emission points shall not exceed the following values:

- A. All natural gas boilers exhaust stacks - 10% opacity
- B. Diesel engine exhaust stack - 20% opacity
- C. All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. Visible emissions from mobile sources and intermittent sources shall use procedures similar to Method 9, but the requirement for observations to be made at 15-second intervals over a six-minute period shall not apply. Any time-interval with no visible emissions shall not be included. [R307-201-3]

II.B.1.c The following hours of operation limits shall not be exceeded without prior approval in accordance with R307-401, UAC:

200 hours of operation and maintenance for backup diesel generator per rolling 12-month period.

Compliance with the annual limitations shall be determined on a rolling 12-month total. The owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of hours of operation and maintenance shall be kept for all periods when the generator is in operation. Records of hours of operation, including rolling 12-month totals, shall be made available to the Executive Secretary or Executive Secretary's representative upon request and the records shall include the two-year period prior to the date of the request. Hours of operation and maintenance shall be determined by an hour meter or by supervisor monitoring and maintaining of an operations/maintenance log. [R307-401]

II.B.1.d All installations and facilities authorized by this AO shall be adequately and properly maintained. All pollution control equipment approved by this approval order shall be installed, maintained, and operated according to standard operating practices that will ensure that the air quality limits set forth in this AO will be met. Instructions from the vendor or established maintenance practices that maximize pollution control shall be used. All maintenance performed on equipment authorized by this AO shall be recorded, and the records shall be maintained for a period of two years. All necessary equipment control and operating devices, such as pressure gauges, amp meters, volt meters, flow-rate indicators, temperature gauges, CEMS, hour meters, etc., shall be installed and operated properly and easily accessible to compliance inspectors. A copy of all the manufacturers' and company's own subsequent operating instructions for pollution control equipment and pollution emitting equipment shall be kept on site. These instructions shall be available to all employees who operate the equipment and shall be made available to compliance inspectors upon their request. Maintenance records shall be made available to the Executive Secretary or Executive

Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. [R307-401]

II.B.2 **Fuel**

II.B.2.a The owner/operator shall use only natural gas as a fuel in the boilers and diesel #2 fuel in the backup generator. If any other fuel is to be used, an AO shall be required. [R307-401]

II.B.2.b The sulfur content of any fuel oil or diesel burned shall not exceed 0.5 percent by weight. Sulfur content shall be decided by ASTM Method D-4294-89, or approved equivalent. The sulfur content shall be tested if directed by the Executive Secretary. [R307-203]

PERMIT HISTORY

This AO is based on the following documents:

Supersedes DAQE-322-99 dated May 3, 1999

ADMINISTRATIVE CODING

The following information is for UDAQ internal classification use only:

Salt Lake County
CDS B
Nonattainment or Maintenance Area

ACRONYMS

The following lists commonly used acronyms and associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by EPA to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CO	Carbon monoxide
COM	Continuous opacity monitor
DAQ	Division of Air Quality (typically interchangeable with UDAQ)
DAQE	This is a document tracking code for internal UDAQ use
EPA	Environmental Protection Agency
FDCP	Fugitive Dust Control Plan
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
LB/HR	Pounds per hour
MACT	Maximum Achievable Control Technology
MMBTU	Million British Thermal Units
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO _x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM ₁₀	Particulate matter less than 10 microns in size
PM _{2.5}	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO ₂	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
TPY	Tons per year
UAC	Utah Administrative Code
UDAQ	Utah Division of Air Quality (typically interchangeable with DAQ)
VOC	Volatile organic compounds