



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

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

C.L. "Butch" Otter, Governor  
Toni Hardesty, Director

February 14, 2011

Todd Rothfuss  
Plant Manager  
St. Luke's Magic Valley Medical Center  
650 Addison Ave. West  
Twin Falls, Idaho 83303

RE: Facility ID No. 083-00098, St. Luke's Magic Valley Medical Center, Twin Falls  
Final Permit Letter

Dear Mr. Rothfuss:

The Department of Environmental Quality (DEQ) is issuing Permit to Construct (PTC) No. P-2007.0079 Project 60608 to St. Luke's Magic Valley Medical Center located at Twin Falls for new combustion sources and fuel types. This PTC is issued in accordance with IDAPA 58.01.01.200 through 228 (Rules for the Control of Air Pollution in Idaho) and is based on the certified information provided in your PTC application received November 9, 2010.

This permit is effective immediately and does not release St. Luke's Magic Valley Medical Center from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

Pursuant to the Construction and Operation Notification General Provision of your permit, it is required that construction and operation notification be provided. Please provide this information as listed to DEQ's Twin Falls Regional Office, 1363 Fillmore St., Twin Falls, 83301, Fax (208) 736-2194.

In order to fully understand the compliance requirements of this permit, DEQ highly recommends that you schedule a meeting with Steve VanZandt, Air Quality Analyst, at (208) 736-4261 to review and discuss the terms and conditions of this permit. Should you choose to schedule this meeting, DEQ recommends that the following representatives attend the meeting: your facility's plant manager, responsible official, environmental contact, and any other staff responsible for day-to-day compliance with permit conditions.

Pursuant to IDAPA 58.01.23, you, as well as any other entity, may have the right to appeal this final agency action within 35 days of the date of this decision. However, prior to filing a petition for a contested case, I encourage you to contact Dan Pitman at (208) 373-0502 or [daniel.pitman@deq.idaho.gov](mailto:daniel.pitman@deq.idaho.gov) to address any questions or concerns you may have with the enclosed permit.

Sincerely,

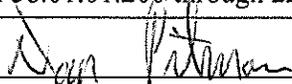
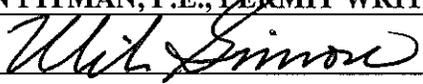
A handwritten signature in black ink that reads "Mike Simon".

Mike Simon  
Stationary Source Program Manager  
Air Quality Division

MS\DP

Permit No. P-2007.0079 Proj. 60608

Enclosures

<p style="text-align: center;">Air Quality PERMIT TO CONSTRUCT State of Idaho Department of Environmental Quality</p>	<b>PERMIT NUMBER</b>	<b>CLASS</b>	<b>SIC</b>
	P-2007.0079	SM	8062
	<b>FACILITY ID</b>	<b>AQCR</b>	<b>NAICS</b>
	083-00098	63	622110
	<b>ZONE</b>	<b>UTM COORDINATES (km)</b>	
	11	705.7	4,715.5
<b>PERMITTEE</b>			
St. Luke's Magic Valley Medical Center			
<b>PROJECT</b>			
PROJECT No. 60608 Two New Boilers and Diesel Backup Fuel			
<b>MAILING ADDRESS</b>	<b>CITY</b>	<b>STATE</b>	<b>ZIP</b>
650 Addison Ave. West	Twin Falls	ID	83303
<b>FACILITY CONTACT</b>	<b>TITLE</b>	<b>TELEPHONE</b>	
Todd Rothfuss	Plant Manager	208-737-2082	
<b>RESPONSIBLE</b>	<b>TITLE</b>	<b>TELEPHONE</b>	
Todd Rothfuss	Plant Manager	208-737-2082	
<b>EXACT PLANT LOCATION</b>		<b>COUNTY</b>	
650 Addison Ave. West, Twin Falls		Twin Falls	
<b>GENERAL NATURE OF BUSINESS &amp; KINDS OF PRODUCTS</b>			
Hospital			
<b>PERMIT AUTHORITY</b>			
<p>This permit is issued according to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200 through 228, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be constructed or modified by this permit.</p> <p>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 Department of Environmental Quality (DEQ) 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.</p> <p>This permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.</p> <p>This permit has been granted on the basis of design information presented with its application. Changes in design, equipment or operations may be considered a modification. Modifications are subject to DEQ review in accordance with IDAPA 58.01.01.200 through 228 of the Rules for the Control of Air Pollution in Idaho.</p>			
 <b>DAN PITMAN, P.E., PERMIT WRITER</b>		<b>DATE ISSUED</b>	February 14, 2011
 <b>MIKE SIMON, STATIONARY SOURCE MANAGER</b>			

PERMIT TO CONSTRUCT SCOPE .....3  
EMERGENCY GENERATORS .....4  
BOILERS .....6  
PERMIT TO CONSTRUCT GENERAL PROVISIONS .....8

## PERMIT TO CONSTRUCT SCOPE

### Purpose

1. This is a modification of a permit to construct to add two 2.0 MMBtu/hr natural gas fired heating boilers and to add diesel fuel as a backup fuel for the existing 4.2 MMBtu/hr boilers.
2. Those permit conditions that have been modified or revised by this permitting action are identified by a date citation located directly under the permit condition and on the right hand margin.
3. This PTC replaces Permit to Construct No. P-2007.0079, issued on August 31, 2007.
4. The emission sources regulated by this permit are listed in the following table.

**Table 1 REGULATED SOURCES**

Source Descriptions	Emission Controls
<p><b>Emergency Generators</b></p> <p><u>Standby Generator/Maintenance Test (Gen No. 1)</u>            Manufacturer: Caterpillar            Rated Capacity: 300 kW            Max Operation: 500 hr/yr            Fuel Type: ASTM Grade 2 Diesel Fuel            Ignition: Compression</p> <p><u>Standby Generator/Maintenance Test (Gen No. 2, 3, 4, &amp; 5)</u>            Manufacturer: Caterpillar            Model No.: 3512C            Rated Capacity: 1500 kW (each)            Max Operation: 200 hr/yr (each)            Fuel Type: ASTM Grade 2 Diesel Fuel            Ignition: Compression</p>	<p>Operating Limits</p>
<p><b>Boilers</b></p> <p><u>Boiler No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 &amp; 18</u>            Manufacturer: Fulton Pulse            Model: 2000            Rated Capacity: 2.0 MMBtu/hr (each)            Fuel: Natural Gas/ Propane</p> <p><u>Boiler No. SBOIL 1, 2, 3, &amp; 4</u>            Manufacturer: Hurst            Model: 4VT Cyclone Series            Rated Capacity: 4.2 MMBtu/hr (each)            Fuel: Natural Gas/Low Sulfur Diesel</p>	<p>Operating Limits</p>

## **EMERGENCY GENERATORS**

### ***Process Description***

5. Process Description

St. Luke's Magic Valley Medical Center includes five ASTM Grade 2 fuel oil-fired emergency generators.

The primary purpose of the emergency generators is to provide electrical power to the facility in the event of a power interruption.

6. Emission Controls Description

Emissions from the emergency generators are uncontrolled.

### ***Emission Limits***

7. Opacity Limit

The permittee shall not discharge any air pollutant into the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

8. 40 CFR 60, Subpart III – Emissions Standards for Stationary CI Internal Combustion Engines – Emergency Engines

The permittee shall comply with all applicable emissions and operating standards of 40 CFR 60, Subpart III - New Source Performance Standards (NSPS) Compression-ignition (CI) Internal combustion engines (ICE). The permittee shall refer to following sections of the rule:

- The owner or operator shall not discharge exhaust opacity from the CI ICE to exceed 20 percent during acceleration mode, 15 percent during lugging mode, and 50 percent during the peaks in either the acceleration or lugging modes: 40 CFR 89.113, 40 CFR 60.4202(a)(1) and 40 CFR 60.4205(b).
- The owner or operator shall operate the CI ICE in accordance with manufacturer's certification: 40 CFR 89.112 Table 2, 40 CFR 60.4202(a)(1) and 40 CFR 60.4205(b).

### ***Operating Requirements***

9. Hours of Operation for Maintenance

- The operation of each emergency generator shall not exceed a maximum of six hours in any 24-hour period. Only one generator at a time may operate during a single day for load testing.
- The operation of each emergency generator shall not exceed a maximum of 6 hours per day and 200 hours in any consecutive 12-month period.

These hours of operations limits shall not apply during times of electric power outages to the hospital.

10. 40 CFR 60, Subpart III - Fuel Requirements for Owners and Operators

The permittee shall comply with all applicable fuel requirements for owners and operators of 40 CFR 60, Subpart III. The permittee shall refer to following sections of the rule:

- Beginning October 1, 2007, the permittee shall use diesel fuel with a maximum sulfur content not to exceed 500 ppm and Cetane index of a minimum of 40 or a maximum aromatic content of 35 volume percent: 40 CFR 80.510(a), 40 CFR 60.4207(a).

- Beginning October 1, 2010, the permittee shall use diesel fuel with a maximum sulfur content of 15 ppm and a minimum of Cetane index of 40 or a maximum aromatic content of 35 volume percent: 40 CFR 80.510(b), 40 CFR 60.4207(b). Monitoring and Recordkeeping Requirements.

11. 40 CFR 60, Subpart IIII – Compliance, Testing and Other Requirements for Owners and Operators

The permittee shall comply with all applicable compliance, testing and other requirements for owners and operators specified by 40 CFR 60, Subpart IIII. The permittee shall refer to following sections of the rule:

- The owner or operator shall install a non-resettable hour meter prior to startup of the engine: 40 CFR 60.4209(a).
- The owner or operator shall operate and maintain the stationary CI ICE and control device in accordance to the manufacturer’s written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition the owner and operator may only change those setting that are permitted by the manufacturer: 40 CFR 60.4211(a).
- The owner or operator shall demonstrate compliance with emission standards by purchasing an engine certified to the emission standards of 40 CFR 60.4205(b) for the same model year and maximum engine power; the engine must be installed and configured according to the manufacturer’s specifications: 40 CFR 60.4211(c).
- Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations: 40 CFR 60.4211(e).

**Monitoring and Recordkeeping Requirements**

12. Fuel Sulfur Content Certification

The permittee shall obtain and maintain sulfur content verification in the form of the distributor’s fuel certification. Records of this information shall be maintained and made available to DEQ representatives upon request in accordance with General Provision 29.

13. 40 CFR 60, Subpart IIII – Notification, Reports, and Records for Owners and Operators

The permittee shall comply with all applicable notification, reports, and records for owners and operators of 40 CFR 60, Subpart IIII. The permittee shall refer to the following sections of 40 CFR 60, Subpart IIII:

- The owner or operator must keep records of the operation of the engine in emergency and non-emergency service that is recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time: 40 CFR 60.4214(b)

## **BOILERS**

### ***Process Description***

14. Process Description

St. Luke's Magic Valley Medical Center includes 22 dual fuel boilers that use hot water for space heating requirements and steam for sterilization and humidification. Eighteen 2.0 MMBtu/hr boilers will be used to heat all of the hospital buildings and four 4.2 MMBtu/hr boilers will be used to create steam for instrument sterilization and humidification. Each boiler is dual-fuel rated, the eighteen 2 MMBtu/hr boilers are allowed to combust natural gas as primary fuel and propane as secondary fuel, the four 4.2 MMBtu/hr boilers are allowed to combust natural gas and low sulfur diesel fuel.

[2/14/11]

15. Emission Controls Description

Emissions from the boilers are uncontrolled.

### ***Emission Limits***

16. Visible Emissions Limit

The permittee shall not discharge any air pollutant into the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

### ***Operating Requirements***

17. Allowable Fuel Types for Boilers

The primary fuel for all boilers shall be natural gas.

The secondary fuel for the eighteen 2.0 MMBtu/hr boilers (Boiler Nos. 1 through 18) shall be propane.

The secondary fuel for the four 4.2 MMBtu/hr boilers (Boiler Nos. SBOIL1 – SBOIL4) shall be diesel fuel with a maximum sulfur content of 15 ppm by weight.

Use of fuel types not listed above is prohibited.

[2/14/11]

18. Hours of Operation Limits

The permittee shall not combust propane for more than 96 hours per any consecutive 12-month period in each of the eighteen 2.0 MMBtu/hr boilers (Boiler Nos. 1 through 18).

The permittee shall not combust diesel fuel for more than 1 hour per any calendar day in each of the four 4.2 MMBtu/hr boilers (Boiler Nos. SBOIL1 – SBOIL4). The permittee shall not combust diesel fuel for more than 48 hours per any consecutive 12-month period in each of the four 4.2 MMBtu/hr boilers (Boiler Nos. SBOIL1 – SBOIL4).

These hours of operation limits shall not apply during upset, breakdown, or the initiation of safety measures.

[2/14/11]

### ***Monitoring and Recordkeeping Requirements***

19. Hours of Operation Monitoring

Each calendar month, the permittee shall record the total hours of operation while combusting propane in of the eighteen 2.0 MMBtu/hr boilers (Boiler Nos. 1 through 18) during the previous consecutive 12-calendar month period.

Each calendar day that diesel fuel is combusted in any of the four 4.2 MMBtu/hr boilers (Boiler Nos. SBOIL1 – SBOIL4) the permittee shall monitor and record the hours of operation on diesel fuel for each boiler. Each calendar month the permittee shall record the total hours of operation while combusting diesel fuel in each boiler during the previous consecutive 12-calendar month period.

[2/14/11]

20. **Fuel Sulfur Content Certification**

For each shipment of diesel fuel received at the facility the permittee shall obtain and maintain sulfur content verification in the form of the distributor's fuel certification. Records of this information shall be maintained and made available to DEQ representatives upon request in accordance with General Provision 29.

[2/14/11]

## PERMIT TO CONSTRUCT GENERAL PROVISIONS

### **General Compliance**

21. The permittee has a continuing duty to comply with all terms and conditions of this permit. 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.
- [Idaho Code §39-101, et seq.]**
22. 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.
- [IDAPA 58.01.01.211, 5/1/94]**
23. Nothing in this permit is intended to relieve or exempt the permittee from the responsibility to comply with all applicable local, state, or federal statutes, rules and regulations.
- [IDAPA 58.01.01.212.01, 5/1/94]**

### **Inspection and Entry**

24. Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:
- Enter upon the permittee's premises where an emissions source is located or emissions related activity is conducted, or where records are kept under conditions of this permit;
  - Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
  - Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
  - As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.
- [Idaho Code §39-108]**

### **Construction and Operation Notification**

25. The permittee shall furnish DEQ written notifications as follows in accordance with IDAPA 58.01.01.211:
- A notification of the date of initiation of construction, within five working days after occurrence; except in the case where pre-permit construction approval has been granted then notification shall be made within five working days after occurrence or within five working days after permit issuance whichever is later;
  - A notification of the date of any suspension of construction, if such suspension lasts for one year or more;
  - A notification of the anticipated date of initial start-up of the stationary source or facility not more than sixty days or less than thirty days prior to such date; and

- A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date.

[IDAPA 58.01.01.211, 5/1/94]

### ***Performance Testing***

26. If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ, at its option, may have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.
27. All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.
28. Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

[IDAPA 58.01.01.157, 4/5/00]

### ***Monitoring and Recordkeeping***

29. The permittee shall maintain sufficient records to ensure compliance with all of the terms and conditions of this permit. Records of monitoring information shall include, but not be limited to the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

[IDAPA 58.01.01.211, 5/1/94]

### ***Excess Emissions***

30. The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions due to startup, shutdown, scheduled maintenance, safety measures, upsets and breakdowns.

[IDAPA 58.01.01.130-136, 4/5/00]

### ***Certification***

31. All documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

[IDAPA 58.01.01.123, 5/1/94]

### ***False Statements***

32. No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.  
**[IDAPA 58.01.01.125, 3/23/98]**

### ***Tampering***

33. No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.  
**[IDAPA 58.01.01.126, 3/23/98]**

### ***Transferability***

34. This permit is transferable in accordance with procedures listed in IDAPA 58.01.01.209.06.  
**[IDAPA 58.01.01.209.06, 4/11/06]**

### ***Severability***

35. 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.  
**[IDAPA 58.01.01.211, 5/1/94]**