



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

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

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

February 23, 2009

**Certified Mail No. 7190 0596 0014 0000 4806**

Dan Lodge  
Operations  
Eagle Silicon  
3605 Arthur Street  
Caldwell, Idaho 83605

RE: Facility ID No. 027-00099, Eagle Silicon, Caldwell  
Final Permit Letter

Dear Mr. Lodge:

The Department of Environmental Quality (DEQ) is issuing Permit to Construct (PTC) No. P-2008.0136 to Eagle Silicon for the addition of baghouses and HF systems, and an increase in recycling throughput at the Caldwell facility, in accordance with IDAPA 58.01.01.200 through 228 (Rules for the Control of Air Pollution in Idaho).

This permit is based on your permit application received on August 20, 2008. This permit does not release Eagle Silicon from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

Pursuant to General Provision 5 of your permit, it is required that Construction and Operation Notification be provided. Please provide this information as listed to DEQ's Boise Regional Office, 1445 N. Orchard, Boise, Idaho 83706, Fax (208) 373-0287.

In order to fully understand the compliance requirements of this permit, DEQ highly recommends that you schedule a meeting with Tom Krinke, AQ Compliance Officer, at (208) 373-0419 to review and discuss the terms and conditions of this permit. Should you choose to schedule this meeting, DEQ recommends 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 Morrie Lewis at (208) 373-0502 or [Morrie.Lewis@deq.idaho.gov](mailto:Morrie.Lewis@deq.idaho.gov) to address any questions or concerns you may have with the enclosed permit.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Simon". The signature is written in a cursive, flowing style.

Mike Simon  
Stationary Source Program Manager  
Air Quality Division

MS\ML\hp

Project No. P-2008.0136

Enclosures



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

**PERMIT No.:** P-2008.0136  
**FACILITY ID No.:** 027-00099  
**AQCR:** 64    **CLASS:** B    **ZONE:** 11  
**SIC:** 3674    **NAICS:** 334413  
**UTM COORDINATE (km):** 527.8, 4832.4

**1. PERMITTEE**

Eagle Silicon – Caldwell Facility

**2. PROJECT**

Permit to construct – addition of baghouses and HF bath systems

**3. MAILING ADDRESS**

3605 Arthur Street

**CITY**

Caldwell

**STATE**

ID

**ZIP**

83605

**4. FACILITY CONTACT**

Dan Lodge

**TITLE**

Operations

**TELEPHONE**

(208) 459-1145

**5. RESPONSIBLE OFFICIAL**

Cory Russell

**TITLE**

Vice President

**TELEPHONE**

(208) 890-0046

**6. EXACT PLANT LOCATION**

3605 Arthur Street, Caldwell, Idaho 83605

**COUNTY**

Canyon

**7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS**

Silicon recycling

**8. PERMIT AUTHORITY**

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.

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.

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 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.

*Morie Lewis*

MORIE LEWIS, PERMIT WRITER  
DEPARTMENT OF ENVIRONMENTAL QUALITY

*Mike Simon*

MIKE SIMON, STATIONARY SOURCE PROGRAM  
MANAGER  
DEPARTMENT OF ENVIRONMENTAL QUALITY

**DATE MODIFIED/REVISED:**

**DATE ISSUED:**

**February 23, 2009**

## Table of Contents

ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE .....	3
1. PERMIT TO CONSTRUCT SCOPE .....	4
2. SILICON CLEANING OPERATIONS .....	5
3. PERMIT TO CONSTRUCT GENERAL PROVISIONS .....	12

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0136**

<b>Permittee:</b>	Eagle Silicon	<b>Facility ID No. 027-00099</b>
<b>Location:</b>	Caldwell, Idaho	

**Acronyms, Units, and Chemical Nomenclature**

AQCR	Air Quality Control Region
cfm	cubic feet per minute
DEQ	Department of Environmental Quality
EPA	U.S. Environmental Protection Agency
gr/dscf	grains (1 lb = 7,000 grains) per dry standard cubic foot
HF	hydrogen fluoride (hydrofluoric acid)
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
lb/hr	pounds per hour
lb/day	pounds per calendar day
O&M	Operations and Maintenance
PM	particulate matter
PM <sub>10</sub>	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
PTC	permit to construct
SIC	Standard Industrial Classification
UTM	Universal Transverse Mercator

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0136**

<b>Permittee:</b>	Eagle Silicon	<b>Facility ID No. 027-00099</b>
<b>Location:</b>	Caldwell, Idaho	

**1. PERMIT TO CONSTRUCT SCOPE**

***Purpose***

- 1.1 This is an initial permit to construct (PTC).
- 1.2 Eagle Silicon proposes to install two baghouses for the interior ventilation of the recycling building and additional hydrofluoric acid (HF) systems to allow the recycling of additional wafers.

***Regulated Sources***

- 1.3 Table I.1 lists all sources of regulated emissions in this PTC.

**Table I.1 SUMMARY OF REGULATED SOURCES**

<b>Permit Section</b>	<b>Source Description (ID No.)</b>	<b>Emissions Controls (ID No.)</b>
2	<u>Mechanical Silicon Cleaning Process Units (EU1)</u> 10 Open-topped polishers 20 Enclosed polishers Silicon screener	Baghouse 1 (BAGH1), and Baghouse 2 (BAGH2)
2	<u>Chemical silicon cleaning process units (EU2)</u> 7 HF chemical baths	Solid Lime Dry Scrubber

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0136**

<b>Permittee:</b>	Eagle Silicon	<b>Facility ID No. 027-00099</b>
<b>Location:</b>	Caldwell, Idaho	

**2. SILICON CLEANING OPERATIONS**

**2.1 Process Description**

The Eagle Silicon Caldwell facility purchases discarded wafers from semiconductor manufacturers to recycle the silicon. The recycled silicon wafers are then sold to customers who reformulate the silicon into a form that can be used for new products. Before the silicon can be sold for other manufacturing uses, the die (small blocks of semiconducting material fabricated into a circuit) must be removed from the wafer. Mechanical and chemical cleaning process units are used to remove the die from the wafers.

Mechanical die removal machines rely on abrasion using silicon carbide in rotating containers. Some of the containers are open-topped bowls that rotate on a vertical axis, and some are fully-enclosed drums that rotate on a horizontal axis. Presently, all of the containers are operated in a batch mode with processing times ranging from one to two days. After visual inspection confirms that silicon cleaning has been accomplished, the container contents are manually dumped into a transfer container. The mixture of silicon and waste is then manually screened, with silicon wafers remaining above the screen, and silicon carbide and circuitry passing through the screen into a waste container. The clean silicon wafers are then stored for sale, and the screened silicon carbide can be reused for cleaning a new batch of discarded silicon wafers. Two baghouses are proposed for control of emissions from the recycling building ventilation.

Chemical die removal machines use baths containing a HF solution (approximately 25 percent HF and 75 percent water, by weight) to remove the dies from discarded silicon wafers. Hydrofluoric acid readily dissolves metal oxides, including the die on a discarded silicon wafer. The HF systems are comprised of HF chemical baths approximately 12 inches wide by 17 inches long, located under a hooded chamber. Exhaust air from the chamber pulls HF fumes from the HF chemical baths into a Solid Lime Dry Scrubber before venting to the atmosphere.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0136**

<b>Permittee:</b>	Eagle Silicon	<b>Facility ID No. 027-00099</b>
<b>Location:</b>	Caldwell, Idaho	

**2.2 Emissions Control Description**

**Table 2.1 DESCRIPTION OF SILICON CLEANING OPERATIONS**

<b>Emission Units (ID No.)</b>	<b>Emissions Control Device</b>	<b>Emission Points</b>
<u>Mechanical Silicon Cleaning Process Units (EU1)</u> Open-topped polishers Enclosed polishers Silicon screener	Baghouse 1 (BAGH1), and Baghouse 2 (BAGH2)	<u>Stack BH01</u> Control rating: 0.01 gr/dscf for PM/PM <sub>10</sub> Exit height: 30 ft Exit diameter: 1.5 ft Exit air flow rate: 5,000 cfm Exit temperature: 80 °F <u>Stack BH02</u> Control rating: 0.01 gr/dscf for PM/PM <sub>10</sub> Exit height: 30 ft Exit diameter: 1.5 ft Exit air flow rate: 5,000 cfm Exit temperature: 80 °F
<u>Chemical Silicon Cleaning Process Units (EU2)</u> HF chemical baths	Solid Lime Dry Scrubber	Solid Lime Dry Scrubber stack

**Emissions Limits**

**2.3 Emission Limits**

The facility-wide emissions of PM<sub>10</sub> and fluorides from silicon cleaning operations shall not exceed any corresponding emission rate limit listed in Table 2.2.

**Table 2.2 SILICON CLEANING OPERATIONS EMISSIONS LIMITS<sup>1</sup>**

<b>Source Description (ID No.)</b>	<b>PM<sub>10</sub><sup>2</sup></b>	<b>Fluorides, as F</b>
	<b>lb/hr<sup>3</sup></b>	<b>lb/day<sup>4</sup></b>
Mechanical Silicon Cleaning Process Units – Baghouse 1 (BAGH1)	0.43	
Mechanical Silicon Cleaning Process Units – Baghouse 2 (BAGH2)	0.43	
Chemical Silicon Cleaning Process Units – Solid Lime Dry Scrubber		4.00

<sup>1</sup> In the absence of any other credible evidence, compliance is assured by complying with the operating, monitoring, and recordkeeping requirements of this permit.

<sup>2</sup> Particulate matter with an aerodynamic diameter less than or equal to a nominal ten (10) micrometers, including condensable particulate as defined in IDAPA 58.01.01.006.80.

<sup>3</sup> Pounds per hour as determined by a test method prescribed by IDAPA 58.01.01.157 or DEQ approved alternative.

<sup>4</sup> Pounds per calendar day as determined by a test method prescribed by IDAPA 58.01.01.157 or DEQ approved alternative.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0136**

<b>Permittee:</b>	Eagle Silicon	<b>Facility ID No. 027-00099</b>
<b>Location:</b>	Caldwell, Idaho	

**2.4 Visible Emissions**

Emissions from the baghouse stacks, or any other stack, vent, or functionally equivalent opening associated with the silicon cleaning operations shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

***Operating Requirements***

**2.5 Scrubber Control Equipment**

The permittee shall install and operate the Solid Lime Dry Scrubber to control fluoride emissions from the Chemical Silicon Cleaning Process Units to demonstrate compliance with the fluoride emission limit in Permit Condition 2.3.

**2.6 Baghouses Control Equipment**

The permittee shall discharge into an enclosed building no more than 5 open-topped and 10 enclosed Mechanical Silicon Cleaning Process Units per day, or shall install and operate at least one of the two baghouses to control PM and PM<sub>10</sub> emissions from the Mechanical Silicon Cleaning Process Units to insure compliance with the PM<sub>10</sub> emission limits in Permit Condition 2.3.

Based on the test results for the installed baghouse required in Permit Condition 2.14, an emission factor shall be developed that will determine the number of polishing units that may be installed before installation of the second baghouse is required. Records of the emission factor and supporting calculations shall be maintained with the Scrubber and Baghouse/Filter System Procedures document in accordance with Permit Condition 2.9.

**2.7 Scrubber Pressure Differential Monitoring Equipment**

The permittee shall install, calibrate, maintain, and operate equipment to continuously measure the pressure differential across the Solid Lime Dry Scrubber in accordance with manufacturer specifications.

**2.8 Baghouse Pressure Differential Monitoring Equipment**

The permittee shall install, calibrate, maintain, and operate equipment to continuously measure the pressure differential across Baghouse 1 and Baghouse 2 in accordance with manufacturer specifications.

**2.9 Scrubber and Baghouse/Filter System Procedures**

Within 60 days after initial startup of each scrubber and baghouse/filter system, the permittee shall have developed, updated, and submitted to DEQ a Scrubber and Baghouse/Filter System Procedures document for the inspection and operation of the installed emissions control devices. The Scrubber and Baghouse/Filter System Procedures document shall be updated within 60 days after initial startup of each emissions control device.

The Scrubber and Baghouse/Filter System Procedures document shall be a permittee developed document independent of the manufacturer supplied operating manual but may include summaries of procedures in the manufacturer supplied operating manual.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0136**

<b>Permittee:</b>	Eagle Silicon	<b>Facility ID No. 027-00099</b>
<b>Location:</b>	Caldwell, Idaho	

At a minimum the following items shall be included in the Scrubber and Baghouse/Filter System Procedures document;

- Procedures and schedule for inspecting and maintaining the Solid Lime Dry Scrubber, Baghouse 1, and Baghouse 2 in accordance with Permit Condition 2.10 and to comply with General Provision 2.
- Procedures for corrective action that will be taken if visible emissions are present from the baghouses at any time, including procedures to determine whether bags or cartridges are ruptured, and procedures to determine if bags or cartridges are not appropriately secured in place.
- The manufacturer's recommended minimum values that shall be maintained for pressure drop across the scrubber and the baghouses, in inches of water.
- For each baghouse installed, records of the emission factor developed in accordance with Permit Condition 2.6.
- For the second baghouse installed, records demonstrating functional equivalency to the first baghouse as required by Permit Condition 2.14.

The permittee shall operate the scrubber and the baghouses in accordance with the Scrubber and Baghouse/Filter System Procedures document.

The contents of the Scrubber and Baghouse/Filter System Procedures document shall be based on manufacturer's specifications. A copy of the manufacturer's recommendations shall be included with the Scrubber and Baghouse/Filter System Procedures document and both shall be made available to DEQ representatives upon request.

The Scrubber and Baghouse/Filter System Procedures document shall be submitted to DEQ within 60 days of permit issuance for review and comment at the following address and shall contain a certification by a responsible official. Any changes to the Scrubber and Baghouse/Filter System Procedures document shall be submitted within 15 days of the change.

Air Quality Permit Compliance  
Department of Environmental Quality  
Boise Regional Office  
1445 N. Orchard  
Boise, ID 83706

The Scrubber and Baghouse/Filter System Procedures document shall remain onsite at all times and shall be made available to DEQ representatives upon request.

The operation and monitoring requirements specified in the Scrubber and Baghouse/Filter System Procedures document are incorporated by reference to this permit and are enforceable permit conditions.

***Monitoring and Recordkeeping Requirements***

**2.10 Visible Emissions/Opacity Monitoring**

Each month the permittee shall conduct a facility-wide inspection of potential sources of visible emissions; including any stack, vent, or other functionally equivalent opening; during daylight hours and under normal operating conditions, to demonstrate compliance with Permit Condition 2.4. The

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0136**

<b>Permittee:</b>	Eagle Silicon	<b>Facility ID No. 027-00099</b>
<b>Location:</b>	Caldwell, Idaho	

inspection shall consist of a see/no see evaluation for each potential source. If any visible emissions are present from any point of emission, the permittee shall either take appropriate corrective action as expeditiously as practicable or perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20% for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in accordance with IDAPA 58.01.01.130-136.

The permittee shall maintain records of the results of each visible emissions inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken. All records shall be maintained on-site for a period of 5 years and shall be made available to DEQ representatives upon request.

**2.11 Scrubber Pressure Differential Monitoring**

Any week the scrubber is operated, the permittee shall monitor and record the pressure drop across the scrubber on a weekly basis to demonstrate compliance with Permit Condition 2.7.

**2.12 Baghouse Pressure Differential Monitoring**

Any week a baghouse is operated, the permittee shall monitor and record the pressure drop across each of the baghouses operated on a weekly basis to demonstrate compliance with Permit Condition 2.8.

***Performance Testing Requirements***

**2.13 Scrubber Performance Testing**

Performance testing on the Solid Lime Dry Scrubber stack shall be performed within 60 days following the date upon which the seven proposed HF chemical baths and associated scrubbing capacity have been installed.

The performance tests shall measure the fluorides (as F) emissions rate in pounds per calendar day to demonstrate compliance with the emission limit in Permit Condition 2.3.

The performance test shall be conducted under worst-case normal operating conditions and in accordance with IDAPA 58.01.01.157; Permit Condition 2.15; and General Provision 6 of this permit. The permittee is encouraged to submit a performance testing protocol for approval 30 days prior to conducting the performance tests.

**2.14 Baghouse Performance Testing**

Performance testing of the first baghouse stack shall be performed 1) within 12 months following installation, or 2) when the number of installed open-topped polishers exceeds 10, or 3) when the number of enclosed polishers exceeds 20; whichever of these three conditions occurs first. A PM<sub>10</sub> emission factor shall be developed that will determine the number of polishers that may be installed and operated to insure compliance with the PM<sub>10</sub> emission rates in Permit Condition 2.3 before the second baghouse is required.

If a second baghouse is installed and is designed to the same or functionally equivalent specifications as the first baghouse, source testing will not be required as long as the number of polishers does not exceed

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0136**

<b>Permittee:</b>	Eagle Silicon	<b>Facility ID No. 027-00099</b>
<b>Location:</b>	Caldwell, Idaho	

those determined allowable by testing the first baghouse. Records demonstrating the functional equivalency of the second baghouse shall be maintained with the Scrubber and Baghouse/Filter System Procedures document in accordance with Permit Condition 2.9.

Performance tests shall measure the PM<sub>10</sub> emissions rate in pounds per hour, and the opacity to demonstrate compliance with the emission limits in Permit Conditions 2.3 and 2.4.

Performance tests shall be conducted under worst-case normal operating conditions and in accordance with IDAPA 58.01.01.157; Permit Conditions 2.16, and 2.17; and General Provision 6 of this permit. The permittee is encouraged to submit a performance testing protocol for approval 30 days prior to conducting any performance tests.

**2.15 Scrubber Performance Test Monitoring and Recordkeeping**

The permittee shall monitor and record the following during each performance test:

- The number of HF chemical baths installed.
- The number of HF chemical baths in operation.

**2.16 Baghouse Performance Test Monitoring and Recordkeeping**

The permittee shall monitor and record the following during each performance test:

- The number of open-topped polishing machines installed.
- The number of open-topped polishing machines in operation and vented to the baghouse being tested.
- The number of enclosed polishing machines installed.
- The number of enclosed polishing machines in operation and vented to the baghouse being tested.
- The visible emissions observed.

**2.17 Baghouse Performance Test Methods**

The permittee shall use EPA Method 5 and 202 or such comparable and equivalent methods approved in accordance with IDAPA 58.01.01.157 to determine compliance with the PM<sub>10</sub> emission limit in Permit Condition 2.3. If performance test results from an EPA Method 202 or DEQ approved alternative test support a request to exclude the requirement to use EPA Method 202 in subsequent performance testing, this request should be made and supporting test results and documentation included in subsequent performance testing protocols submitted in accordance with General Provision 6.

The permittee shall use EPA Method 9 to determine compliance with the opacity matter standard in Permit Condition 2.4 in accordance with IDAPA 58.01.01.625.04.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0136**

<b>Permittee:</b>	Eagle Silicon	<b>Facility ID No. 027-00099</b>
<b>Location:</b>	Caldwell, Idaho	

**2.18 Performance Test Reporting**

Performance test reports shall include records of the monitoring required by Permit Condition 2.15 or 2.16, and documentation that the performance test was conducted in accordance with Permit Condition 2.13 or 2.14. Performance test reports shall be submitted by the permittee to the following address:

Air Quality Permit Compliance  
Boise Regional Office  
Department of Environmental Quality  
1445 N. Orchard St.  
Boise, ID 83706

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0136**

<b>Permittee:</b>	Eagle Silicon	<b>Facility ID No. 027-00099</b>
<b>Location:</b>	Caldwell, Idaho	

**3. PERMIT TO CONSTRUCT GENERAL PROVISIONS**

***General Compliance***

1. 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.]**
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.  

**[IDAPA 58.01.01.211, 5/1/94]**
3. 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***

4. Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:
  - a. 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;
  - b. Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
  - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
  - d. 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***

5. The permittee shall furnish DEQ written notifications as follows in accordance with IDAPA 58.01.01.211:
  - a. A notification of the date of initiation of construction, within five working days after occurrence;
  - b. A notification of the date of any suspension of construction, if such suspension lasts for one year or more;
  - c. 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;

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0136**

<b>Permittee:</b>	Eagle Silicon	<b>Facility ID No. 027-00099</b>
<b>Location:</b>	Caldwell, Idaho	

- d. A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date; and
- e. A notification of the initial date of achieving the maximum production rate, within five working days after occurrence - production rate and date.

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

***Performance Testing***

- 6. 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 may, at its option, 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.

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.

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***

- 7. 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]**

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0136**

<b>Permittee:</b>	Eagle Silicon	<b>Facility ID No. 027-00099</b>
<b>Location:</b>	Caldwell, Idaho	

***Excess Emissions***

8. 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***

9. 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***

10. 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***

11. 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***

12. 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***

13. 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 58.01.01.322.15.h, 5/1/94; 40 CFR 70.6(a)(5)]**