



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706-1255 • (208) 379-0502

Dirk Kempthorne, Governor  
C. Stephen Allred, Director

April 20, 2004

**Certified Mail No. 7099 3220 0009 1975 4366**

Kurt Hanson, Project Administrator  
HK Contractors, Inc.  
P.O. Box 51450  
Idaho Falls, ID 83405

RE: Facility ID No. 777-00004, H-K Contractors, Inc., Portable  
Final Permit Letter

Dear Mr. Hanson:

On March 3, 2004, the Idaho Department of Environmental Quality (DEQ) received a Permit to Construct (PTC) amendment request from H-K Contractors, Inc. (H-K) to revise PTC No. P-030508, issued January 13, 2004. The amendment request is to incorporate Operation and Maintenance Manual Requirements for the hot plant scrubber system. DEQ finds this request meets the provisions of IDAPA 58.01.01.200, *Rules for the Control of Air Pollution in Idaho*. Enclosed is PTC No. P-040505 which revises PTC No. P-030508.

Also enclosed is a copy of the Portable Equipment Registration and Relocation Form that is required to be completed and submitted to DEQ at least 10 days prior to relocation of any equipment covered by this permit. Also enclosed are copies of maps showing all nonattainment areas within the state of Idaho.

This permit does not release H-K from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

Please pay particular attention to the reporting requirements contained in Paragraph 5 of the General Provisions section of the permit. This information is needed to properly track the progress of the permit. Please refer to the appropriate permit number when submitting reports required in the Reporting Requirements section of the permit.

A representative of the Idaho Falls Regional Office will contact you regarding a meeting to discuss the permit terms and requirements with which your facility must comply. DEQ recommends attendance of your facility's plant manager, responsible official, environmental contact, and any operations staff responsible for day-to-day compliance with permit conditions.

You, as well as any other entity, may have the right to appeal this final agency action 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, DEQ encourages you to contact us to discuss any concerns you may have with the enclosed permit prior to filing a petition for a contested case.

Sincerely,



Martin Bauer, Administrator  
Air Quality Division

MB/DH/sd  
Enclosures

Permit No. P-040505

c: Rensay Owen, Idaho Falls Regional Office  
Mike Simon, Permit Coordinator

Laurie Kral, EPA Region 10



**Air Quality  
PERMIT TO CONSTRUCT**

State of Idaho  
Department of Environmental Quality

**PERMIT NO.:** P-040505

**FACILITY ID NO.** 777-00004

**AQCR:** Portable

**CLASS:** SM

**SIC:** 2951

**ZONE:** Portable

**UTM COORDINATE (km):** Portable

**1. PERMITTEE**

H-K Contractors, Inc.

**2. PROJECT**

HMA Facility

**3. MAILING ADDRESS**

P. O Box 51450

**CITY**

Idaho Falls

**STATE**

Idaho

**ZIP**

83405

**4. FACILITY CONTACT**

Kurt Hanson

**TITLE**

Projects Administrator

**TELEPHONE**

(208) 523-6600

**5. RESPONSIBLE OFFICIAL**

Kurt Hanson

**TITLE**

Projects Administrator

**TELEPHONE**

(208) 523-6600

**6. EXACT PLANT LOCATION**

Portable

**COUNTY**

Portable

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

Asphalt Manufacturing

**8. 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 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 is not transferable to another person, place, or piece or set of equipment. This permit will expire if construction has not begun within five 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 DEQ approval pursuant to the *Rules for the Control of Air Pollution in Idaho*, IDAPA 58.01.01.200, et seq.

*Jon Sandoval*  
Jon Sandoval  
Chief of Staff

C. STEPHEN ALLRED, DIRECTOR

**DATE ISSUED:** April 20, 2004

DEPARTMENT OF ENVIRONMENTAL QUALITY

## Table of Contents

ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE.....	3
1. PERMIT TO CONSTRUCT SCOPE.....	4
2. STATEWIDE REQUIREMENTS.....	5
3. ATTAINMENT OR UNCLASSIFIABLE AREA REQUIREMENTS WHEN NOT COLLOCATED .....	9
4. ATTAINMENT OR UNCLASSIFIABLE AREA REQUIREMENTS WHEN COLLOCATED.....	10
5. PM <sub>10</sub> NONATTAINMENT AREA REQUIREMENTS.....	11
6. APPENDIX A EMISSIONS LIMITS.....	12
7. PERMIT TO CONSTRUCT GENERAL PROVISIONS.....	13

## Acronyms, Units, and Chemical Nomenclature

AIRS	Aerometric Information Retrieval System
AQCR	Air Quality Control Region
ASTM	American Society for Testing and Materials
CFR	Code of Federal Regulations
CO	carbon monoxide
DEQ	Department of Environmental Quality
dscf	dry standard cubic feet
EPA	U.S. Environmental Protection Agency
gr	grain (1 lb = 7,000 grains)
HMA	HMA
hr/day	hours per day
hr/yr	hours per consecutive 12 month period
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
lb/hr	pound per hour
m	meter(s)
NO <sub>x</sub>	nitrogen oxides
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
<i>Rules</i>	<i>Rules for the Control of Air Pollution in Idaho</i>
SIC	Standard Industrial Classification
SO <sub>2</sub>	sulfur dioxide
T/day	tons per day
T/yr	tons per year
UTM	Universal Transverse Mercator

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-040505**

**Permittee:** H-K Contractors, Inc.      **Facility ID No.** 777-00004      **Date Issued:** April 20, 2004  
**Location:** Portable

**1. PERMIT TO CONSTRUCT SCOPE**

***Purpose***

This PTC revises PTC No. P-030508 issued January 13, 2004, which is no longer effective as of the issuance date of this permit.

PTC No. P-030508 modified PTC No. 777-00004 issued March 8, 1993.

***Regulated Sources***

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

**Table 1.1 REGULATED EMISSIONS SOURCES**

<b>Permit Section</b>	<b>Source Description</b>	<b>Emissions Control(s)</b>
2,3,4,5	Barber Green DM-70 HMA Plant	Scrubber
2,3,4,5	Caterpillar 3512B electrical generator	None

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-040505**

**Permittee:** H-K Contractors, Inc.

**Facility ID No.** 777-00004

**Date Issued:**

April 20, 2004

**Location:** Portable

## **2. STATEWIDE REQUIREMENTS**

The permittee shall comply with the following conditions when the HMA facility is operated anywhere within the state of Idaho (nonattainment, attainment, or unclassifiable areas).

### ***Emissions Limits***

#### **2.1 Asphalt Dryer Emission Limits**

The PM emissions from the HMA dryer stack shall not exceed 0.04 gr/dscf, nor shall PM<sub>10</sub>, NO<sub>x</sub>, or CO emissions from the HMA dryer stack exceed any corresponding emission rate limit listed in Appendix A of this permit.

#### **2.2 Other Particulate Matter Emission Limits**

Gases from systems for screening, handling, storing, and weighing hot aggregate that emanate from a stack, vent, or other functionally equivalent opening shall not contain PM emissions in excess of 0.04 gr/dscf.

#### **2.3 Opacity Limit**

Emissions emanating from any stack, vent, or other functionally equivalent opening 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, *Rules for the Control of Air Pollution in Idaho*. Opacity shall be determined using the procedures contained in IDAPA 58.01.01.625.

### ***Operating Requirements***

#### **2.4 Reasonable Control of Fugitive Emissions**

All reasonable precautions shall be taken to prevent PM from becoming airborne as required in IDAPA 58.01.01.651. In determining what is reasonable, considerations will be given to factors such as the proximity of dust-emitting operations to human habitations and/or activities and atmospheric conditions that might affect the movement of PM. Some of the reasonable precautions include, but are not limited to, the following:

- Use, where practical, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of lands.
- Application, where practical, of asphalt, oil, water or suitable chemicals to, or covering of, dirt roads, material stockpiles, and other surfaces which can create dust.
- Installation and use, where practical, of hoods, fans, and fabric filters or equivalent systems to enclose and vent the handling of dusty materials. Adequate containment methods should be employed during sandblasting or other operations.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-040505**

**Permittee:** H-K Contractors, Inc.

**Facility ID No.** 777-00004

**Date Issued:** April 20, 2004

**Location:** Portable

- Paving of roadways and their maintenance in a clean condition, where practical.
- Prompt removal of earth or other stored material from streets, where practical.

**2.5 Dryer Burner Fuel Limits**

The burner fuel shall be natural gas, liquefied petroleum gas, distillate fuel, or used oil only.

**2.6 Fuel Oil Sulfur Content**

The sulfur content in the No. 2 fuel oil (ASTM Grade 2) supplied to the asphalt plant shall not exceed 0.5% by weight as required in IDAPA 58.01.01.728.

**2.7 Wet Scrubber Monitoring Equipment**

The permittee shall, in accordance with manufacturer specifications, install, calibrate, maintain, and operate equipment to continuously measure the pressure differential across the wet scrubber and the scrubbing-media flow rate to the wet scrubber.

**2.8 Wet Scrubber Operations and Maintenance Manual**

Within 60 days of permit issuance, the permittee shall have developed an O&M manual for the wet scrubber, which describes the procedures that will be followed to comply with General Provision 2 and the wet scrubber requirements contained in this permit. The manual shall contain, at a minimum, the pressure drop range and scrubbing media flow rate range for the wet scrubber. The manual shall remain onsite at all times and be made available to DEQ representatives upon request. Within 60 days after permit issuance the permittee shall submit a copy of the O&M manual to DEQ.

**2.9 Wet Scrubber Pressure Drop**

The pressure drop across the wet scrubber shall be maintained within manufacturer and O&M manual specifications. Documentation of both manufacturer and O&M manual operating pressure-drop specifications shall remain onsite at all times and shall be made available to DEQ representatives upon request.

**2.10 Wet Scrubber Flow Rate**

The scrubbing-media flow rate shall be maintained within manufacturer and O&M manual specifications. Documentation of manufacturer and O&M manual operating scrubbing-media specifications shall remain onsite at all times and shall be made available to DEQ representatives upon request.

***Monitoring and Recordkeeping Requirements***

**2.11 Operating Parameters**

The following parameters shall be monitored and recorded. A compilation of the most recent two years of records shall be kept onsite and shall be made available to DEQ representatives upon request.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-040505**

**Permittee:** H-K Contractors, Inc.

**Facility ID No.** 777-00004

**Date Issued:** April 20, 2004

**Location:** Portable

- Pressure drop across the wet scrubber once on a daily basis
- The scrubbing-media flow rate once on a daily basis
- HMA production in tons per day and tons per month
- *HMA daily and annual hours of operation*
- Generator set daily and annual hours of operation

**2.12 Reasonable Control Measures**

The permittee shall conduct a monthly facility-wide inspection of potential sources of fugitive emissions, during daylight hours and under normal operating conditions to ensure that the methods used to reasonably control fugitive emissions are effective. If fugitive emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each monthly fugitive emissions inspection. The records shall include, at a minimum, the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (if observed), any corrective action taken in response to the fugitive emissions, and the date the corrective action was taken.

**2.13 Performance Testing Requirements**

The permittee shall conduct periodic EPA Method 5 and 202 tests on the HMA facility to demonstrate compliance with the PM and PM<sub>10</sub> emissions limits contained in Permit Condition 2.1 and Appendix A. The periodic tests shall be conducted at least once every five consecutive years. The first test shall be conducted by June 17, 2008. The performance test shall be conducted in accordance with IDAPA 58.01.01.157, General Provision 6, and the following conditions:

- The production rate shall be within 90% of the permitted production rate
- The permittee shall monitor the production rate of the HMA facility during the test
- The permittee shall monitor the pressure drop across the wet scrubber in inches of water
- The permittee shall monitor the scrubbing media flow rate in gallons per minute

**2.14 Opacity and Visible Emissions Testing**

The permittee shall conduct a visible emissions evaluation on the HMA facility stack within 15 days of startup after relocation and during each performance test required in Permit Condition 2.13, in accordance with the procedures in IDAPA 58.01.01.625. The most recent two years of visible emissions tests shall be kept onsite and made available to DEQ representatives upon request.

***Reporting Requirements***

**2.15 Performance Test Protocol**

At least 30 days prior to conducting any emission test, the permittee is encouraged to submit a written performance test protocol to DEQ in accordance with IDAPA 58.01.01.157.01.a.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-040505**

**Permittee:** H-K Contractors, Inc.      **Facility ID No.** 777-00004      **Date Issued:** April 20, 2004  
**Location:** Portable

**2.16 Performance Test Report**

In accordance with IDAPA 58.01.01.157.04, the permittee shall submit a written report of the performance test results to DEQ within 30 days of completion of the test.

**2.17 Relocation**

All existing portable equipment shall be registered. At least 10 days prior to relocation of any equipment covered by this permit, the permittee shall submit a scaled plot plan and a complete Portable Equipment Registration and Relocation Form (available on DEQ website at: [www.state.id.us/deq/air/equiprelocat.htm](http://www.state.id.us/deq/air/equiprelocat.htm)) in accordance with IDAPA 58.01.01.500 to the following address:

PERF Processing Unit  
Idaho Department - Air Quality  
1410 N. Hilton  
Boise, ID 83706-1255

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-040505**

**Permittee:** H-K Contractors, Inc.

**Facility ID No.** 777-00004

**Date Issued:** April 20, 2004

**Location:** Portable

**3. ATTAINMENT OR UNCLASSIFIABLE AREA REQUIREMENTS WHEN NOT COLLOCATED**

The permittee shall comply with the requirements in Permit Condition 2 and the following permit conditions when the HMA facility is operated in any attainment or unclassifiable areas, and when it is not collocated, within the state of Idaho.

***Operating Requirements***

**3.1 Facility Throughput Limits**

The HMA facility shall not exceed a maximum average production rate of 462 T/hr or an annual rate of 333,000 T/yr when located in any attainment or unclassifiable area.

**3.2 Collocation Requirements**

When the HMA facility is to be collocated with another portable HMA plant, rock-crushing plant, or concrete batch plant, the permittee must comply with the collocation requirements in Permit Condition 4.

**3.3 Generator Hours of Operation**

The generator shall not be operated more than 2,667 hr/yr when located in any attainment or unclassifiable area.

***Monitoring and Recordkeeping***

**3.4 Average Hourly Production Rate**

The permittee shall calculate the average hourly production rate by dividing the total daily production by the daily hours of operation. This value shall be recorded in a log. A compilation of the most recent two years of data shall be kept onsite and be made available to DEQ representatives upon request.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-040505**

**Permittee:** H-K Contractors, Inc.

**Facility ID No.** 777-00004

**Date Issued:** April 20, 2004

**Location:** Portable

**4. ATTAINMENT OR UNCLASSIFIABLE AREA REQUIREMENTS WHEN COLLOCATED**

The permittee shall comply with the conditions in Permit Condition 2 and the following permit conditions when the HMA facility is to be collocated with another portable HMA plant, rock-crushing plant, or concrete batch plant within the state of Idaho. The HMA facility may only collocate with either one portable rock-crushing plant, one portable concrete batch plant, or one other portable HMA plant that has been permitted to specifically allow collocation.

***Operating Requirements***

**4.1 Collocation Areas**

The HMA facility may collocate in attainment or unclassifiable areas only. The permittee shall not collocate in a nonattainment area, or proposed nonattainment area, without obtaining a permit which specifically allows for collocation in a nonattainment area.

**4.2 Number of Portable Sources**

The HMA facility may only collocate with either one portable rock-crushing plant, one portable concrete batch plant, or one other portable HMA plant. Each portable source must be permitted to specifically allow collocation.

**4.3 Facility Throughput Limits**

The HMA facility shall not exceed a maximum average production rate of 462 T/hr when collocated with another HMA plant, concrete batch plant, or rock-crushing plant. The HMA facility shall not exceed a maximum annual production rate of 666,645 T/yr when collocated with another HMA plant, concrete batch plant, or rock-crushing plant. The maximum daily hours of operation of the HMA plant shall not exceed 15 hr/day when collocated with another HMA plant, concrete batch plant, or rock-crushing plant.

**4.5 Generator Hours of Operation**

The generator shall not be operated more than 15 hr/day when collocated with another HMA plant, concrete batch plant, or rock-crushing plant. The generator shall not be operated more than 1,333 hr/yr when collocated with another HMA plant, concrete batch plant, or rock-crushing plant.

***Monitoring and Recordkeeping***

**4.6 Average Hourly Production Rate**

The permittee shall calculate the average hourly production rate by dividing the total daily production by the daily hours of operation. This value shall be recorded in a log. A compilation of the most recent two years of data shall be kept onsite and be made available to DEQ representatives upon request.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-040505**

**Permittee:** H-K Contractors, Inc.

**Facility ID No.** 777-00004

**Date Issued:** April 20, 2004

**Location:** Portable

**5. PM<sub>10</sub> NONATTAINMENT AREA REQUIREMENTS**

The HMA facility shall not operate in any PM<sub>10</sub> nonattainment area without prior DEQ approval.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-040505**

**Permittee:** H-K Contractors, Inc.

**Facility ID No.** 777-00004

**Date Issued:** April 20, 2004

**Location:** Portable

**6. APPENDIX A EMISSIONS LIMITS**

Portable HMA Facility

**Table 6.1 EMISSIONS LIMITS\***

Source Description	PM <sub>10</sub>		CO		NO <sub>x</sub>		SO <sub>2</sub>	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Dryer stack outlet	10.0	13.3	--	86.7	--	36.7	--	7.3
Dryer stack outlet while collocated	--	6.7	--	43.3	--	18.3	--	3.7
Electrical generator	--	--	--	12.3	--	12.3	--	7.3
Electrical generator while collocated	--	--	--	8.2	--	6.2	--	3.7

\* As determined by a pollutant-specific EPA reference method, DEQ-approved alternative, or as determined by DEQ's emission estimation methods used in the permit application analysis.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-040505**

**Permittee:** H-K Contractors, Inc.

**Facility ID No.** 777-00004

**Date Issued:** April 20, 2004

**Location:** Portable

**7. PERMIT TO CONSTRUCT GENERAL PROVISIONS**

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., and the permittee is subject to penalties for each day of noncompliance.
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:
  - 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.
  - 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 DEQ, 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 compliance testing is specified, the permittee must schedule and perform such testing within 60 days after achieving the maximum production rate, and not later than 180 days after initial startup. This requirement shall be construed as an ongoing requirement. The permittee shall not operate the source without testing within 180 days. If testing is not conducted within 180 days after initial startup, then each day of operation thereafter without the required source test constitutes a violation. 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 DEQ. Testing procedures and specific time limitations may be modified by DEQ by prior negotiation if conditions warrant adjustment. DEQ 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 DEQ upon request.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-040505**

**Permittee:** H-K Contractors, Inc.

**Facility ID No.** 777-00004

**Date Issued:** April 20, 2004

**Location:** Portable

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.
  
8. In accordance with IDAPA 58.01.01.123, 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.