

DEPARTMENT OF  
HEALTH AND ENVIRONMENTAL SCIENCES

AIR QUALITY BUREAU

STAN STEPHENS, GOVERNOR

COGSWELL BUILDING



STATE OF MONTANA

FAX # (406) 444-2606

HELENA, MONTANA 59620

(406) 444-3454

March 27, 1990

RTE.	ACT.	ACC.
EPA	cc	3/27
EDC	cc	3/27
ATC		3/29
HK		3/31
CH	(initials)	4-3
TECH	(initials)	(initials)

New File

Mayo Construction Company, Inc.  
P. O. Box 310  
Cavalier, ND 58220

Attention: Gregory P. Mayo

Your air quality permit application received in this office on February 22, 1990, for a 1973 Boeing Portable SP-560 Rotary Drum Mix Asphalt Plant #015, is approved. The application was given permit number 2621.

Conditions: See attached.

For the department,

Jeffrey T. Chaffee, P.E.  
Chief, Air Quality Bureau

JTC:kh

Enclosure

DEPARTMENT OF  
HEALTH AND ENVIRONMENTAL SCIENCES

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PRELIMINARY DETERMINATION  
ON PERMIT APPLICATION

Date of Mailing: March 12, 1990

Name of Applicant: Mayo Construction Company

Source: 1973 Boeing Portable SP-560 Rotary Drum Mix Asphalt Plant #015

Proposed Action: The department proposes to issue a permit, with conditions, to the above-named applicant. The application was deemed complete and filed on March 8, 1990 and assigned permit application number 2621.

Proposed Conditions: See attached.

Public Comment: Any member of the public desiring to comment must submit such comments in writing to the bureau at the above address. Comments may address the bureau analysis and determination, and information submitted by the application. In order to be considered, the comments must be received within 15 days of this notice, which is March 27, 1990. Copies of the application and the bureau's analysis may be inspected at the bureau office in Helena. For more information you may contact the bureau at 444-3454.

Final Action: A final decision must be made within 60 days of filing, which is May 7, 1990. The department intends to make a final decision on the application on March 27, 1990. A copy of the final action may be obtained at the above address.

Procedures for Appeal: Any person jointly or severally adversely affected by the final action may request a hearing before the Montana Board of Health and Environmental Sciences. Any appeal must be filed within 15 days after the department renders its final decision. The request for hearing shall contain an affidavit setting forth the grounds for the request. Any hearing will be held under the provisions of the Montana Administrative Procedures Act. Submit requests for hearing in triplicate to: Chairman, Board of Health and Environmental Sciences, Cogswell Building, Helena, Montana 59620.

For the department,

Jeffrey T. Chaffee, P.E., Chief  
Air Quality Bureau

## PERMIT CONDITIONS

Mayo Construction Co., Inc.  
Permit Number 2621

1. If this asphalt plant is moved to another location, a Notice of Intent to Transfer Location of Air Quality Permit must be published in a newspaper of general circulation in the area to which the transfer is to be made. This notice must be published at least 15 days prior to the move. Proof of publication and an Air Quality Bureau Change of Location form must be submitted to the Air Quality Bureau prior to the move.
2. The Air Quality Bureau may modify the conditions of this permit based on local conditions of any future site. These factors may include but are not limited to local terrain, meteorological conditions, proximity to residences, etc.
3. All visible emissions are limited to 20% opacity.
4. Dust suppressant is required on all haul roads and work areas as necessary (if fugitive emissions are greater than 20% opacity).
5. Asphalt plant emissions are limited to 0.10 gr/dscf, "back-half" emissions included.
6. An EPA methods 1-5 source test must be performed on the asphalt plant every four years to demonstrate compliance with condition #5. This test shall consist of three runs, each of at least 60 minutes duration. The test shall be conducted in compliance with the requirements of EPA Reference Methods 1-5, 40 CFR Part 60, Appendix A, and 40 CFR Part 60, Subpart I, Asphaltic Concrete Plants. A test performed on the plant in another state within the past four years may be substituted (subject to AQB approval).
7. An EPA Method 9 opacity test must also be performed in conjunction with the particulate tests to demonstrate compliance with condition #3. This test shall consist of thirty 6-minute average observations with ten of these observations being conducted during each particulate test run.
8. These tests must be conducted in compliance with the pre-test notification and reporting requirements of the Air Quality Bureau's Compliance Source Test Protocol.
9. Production field data sheets must be supplied as part of the test report. Since asphalt production will be limited to the average production rate during the test, it is suggested the test be performed at the highest production rate practical.

10. The Air Quality Bureau must be notified of the test five working days before the test is scheduled to be performed. The Air Quality Bureau must also be notified the day before the test is performed to confirm the test. The responsibility for notification is that of the owner/operator and not that of the testing consultant unless such arrangements are made between the two parties.
11. The asphalt production rate is limited to the average production rate during the last source test.
12. The operator must maintain on site records showing daily production rates for the current calendar year. These records shall be available for inspection by the Air Quality Bureau and will be submitted to the AQB on request.
13. Recipient shall comply with all general conditions noted on attached page.
14. A device to measure the pressure drop (magnehelic gauge, manometer, etc.) on the control device (wet scrubber, baghouse, etc.) shall be installed and maintained. Pressure drop shall be measured in inches of water. Temperature indicators at the control device inlet and outlet must be installed and maintained.
15. Pressure drop on the control device and temperatures will be recorded during the test and reported as part of the test results.

## General Conditions

### A. Inspection

The recipient shall allow the department's representatives access to the source at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, and otherwise conducting all necessary functions related to this permit.

### B. Waiver

The permit and all the terms, conditions, and matters stated herein shall be deemed accepted if the recipient fails to appeal as indicated below.

### C. Compliance with Statutes and Regulations

Specific listing of requirements, limitations, and conditions contained herein does not relieve the applicant from compliance with all applicable statutes and administrative regulations including amendments thereto, nor waive the right of the department to require compliance with all applicable statutes and administrative regulations, including amendments thereto.

### D. Enforcement

Violations of limitations, conditions and requirements contained herein may constitute grounds for permit revocation, penalties or other enforcement as specified in Section 75-2-401, MCA.

### E. Appeals

Any person or persons who are jointly or severally adversely affected by the department's decision may request, within fifteen (15) days after the department renders its decision, upon affidavit, setting forth the grounds therefore, a hearing before the board. A hearing shall be held under the provisions of the Montana Administrative Procedures Act. The department's decision on the application is not final unless fifteen (15) days have elapsed and there is no request for a hearing under this section. The filing of a request for a hearing postpones the effective date of the department's decision until the conclusion of the hearing and issuance of a final decision by the board.

### F. Application Data

Information submitted on behalf of an air quality permit application is hereby incorporated as a condition of that permit including commencement and completion dates of construction.

### G. Permit Inspection

As required by ARM 16.8.1115 Inspection of Permit, a copy of the air quality permit shall be made available for inspection by air quality personnel at the location of the permitted source.

PERMIT ANALYSIS

Mayo Construction Co., Inc.  
Permit Number 2621

Permitted Equipment: 1973 Portable Boeing SP-560 Rotary Drum Mix Asphalt Plant #015

Applicable Rules:

16.8.1102 When Permit Required

Permits are required for asphaltic concrete plants that have the potential to emit greater than 5 tons/year of any pollutant.

$$7.8 \text{ lb/hr} \times 8760 \text{ hr/yr} / 2000 = 34 \text{ ton/yr.}$$

A permit is required.

16.8.1401 Particulate Matter - Airborne

Dust suppressant is required as necessary on all haul roads and work areas.

16.8.900 PSD

Emissions are <250 tons/yr, the source is not a listed source: PSD does not apply.

16.8.1404 Visible Air Contaminants

All visible emissions limited to 20% opacity.

16.8.1423 NSPS

This plant was constructed in 1973 so NSPS does apply.

16.8.1103 Emission Controls

The Air Quality Bureau has determined that BACT for pre-NSPS asphalt plants is an emission limitation of 0.10 gr/dscf. A source test will be required every four years to demonstrate compliance.

BACT is required. The Air Quality Bureau has determined that the conditions imposed on this plant constitute BACT in this case.

DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES  
Cogswell Building, Helena, Montana 59620  
(406) 444-3946

ENVIRONMENTAL ASSESSMENT (EA)

Division/Bureau Environmental Sciences/Air Quality

Project or Application Mayo Construction Co., Inc. Permit #2621

Description of Project Portable asphalt plant

Benefits and Purpose of Proposal Asphalt is used in construction,  
repair and maintenance of roads and highways.

POTENTIAL IMPACT ON PHYSICAL ENVIRONMENT

MAJOR MODERATE MINOR NONE UNKNOWN COMMENTS ON ATTACHED PAGES

1. TERRESTRIAL AND AQUATIC LIFE AND HABITATS
2. WATER QUALITY, QUANTITY AND DISTRIBUTION
3. GEOLOGY AND SOIL QUALITY, STABILITY AND MOISTURE
4. VEGETATION COVER, QUANTITY AND QUALITY
5. AESTHETICS
6. AIR QUALITY
7. UNIQUE ENDANGERED, FRAGILE OR LIMITED ENVIRONMENTAL RESOURCE
8. DEMANDS ON ENVIRONMENTAL RESOURCE OF WATER, AIR AND ENERGY
9. HISTORICAL AND ARCHAEOLOGICAL SITES

1.			X			
2.			X			
3.			X			
4.			X			
5.			X			
6.			X			
7.					X	
8.			X			
9.					X	

CUMULATIVE AND SECONDARY IMPACTS \_\_\_\_\_

POTENTIAL IMPACTS ON HUMAN ENVIRONMENT

MAJOR MODERATE MINOR NONE UNKNOWN COMMENTS ON ATTACHED PAGES

1. SOCIAL STRUCTURES AND MORE
2. CULTURAL UNIQUENESS AND DIVERSITY
3. LOCAL AND STATE TAX BASE AND TAX REVENUE
4. AGRICULTURAL OR INDUSTRIAL PRODUCTION
5. HUMAN HEALTH
6. ACCESS TO AND QUALITY OF RECREATIONAL & WILDERNESS ACTIVITIES
7. QUANTITY AND DISTRIBUTION OF EMPLOYMENT
8. DISTRIBUTION OF POPULATION
9. DEMANDS FOR GOVERNMENTAL SERVICES
10. INDUSTRIAL AND COMMERCIAL ACTIVITY
11. LOCALLY ADOPTED ENVIRONMENTAL PLANS AND GOALS

1.				X		
2.				X		
3.			X			
4.			X			
5.			X			
6.			X			
7.			X			
8.			X			
9.			X			
10.			X			
11.			X			

CUMULATIVE AND SECONDARY IMPACTS \_\_\_\_\_



Description and analysis of reasonable alternatives whenever alternatives are reasonably available and prudent to consider

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

A listing and appropriate evaluation of mitigation, stipulations and other controls enforceable by the agency or another government agency. Conditions are contained in permit #2621.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommendation An EIS is not required.

If an EIS is needed, and if appropriate, explain the reasons for preparing the EA \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

If an EIS is not required, explain why the EA is an appropriate level of analysis. The source is temporary and any impacts will be minimal.

\_\_\_\_\_  
\_\_\_\_\_

Other groups or agencies contacted or which may have overlapping jurisdiction None

Individuals or groups contributing to this EA None

EA prepared by: Charles Homer

Date: 2-23-90