

The Commission, having considered the following Application for permits submitted by the following respective firms and having reviewed the staff recommendations and the Summary Reports attached hereto, does hereby approve said Applications subject to the conditions contained with the Applications, Summary Reports, or amendments thereto, and Subsection 4(d) of the Arkansas Plan of Implementation; provided, however, that the applicant is hereby ordered and directed to comply with all general terms of the permit and all special terms and conditions to the permit, if any, which are so specified.

APPLICATION FOR PERMIT - INDUSTRIAL FACILITIES

| <u>PERMIT NO.</u> | <u>FACILITY & LOCATION</u> | <u>COST</u> |
|-------------------|-------------------------------------------------------------------------|-------------|
| 673-A | Bear Brand Roofing, Inc. Bearden, Arkansas | NA |
| 270-A (Mod.) | Vertac Chemical Corporation Jacksonville, Arkansas | 3,000 |
| 429-A (Mod.) | Great Lakes Carbon Corporation Altus, Arkansas | 850,000 |
| 675-A | Aearth Preparation, Inc. Russellville, Arkansas | NA |
| 319-A (Mod.) | Great Lakes Chemical Corporation (South Plant) - El Dorado, Arkansas | 40,000 |
| 674-A | Mountain View Asphalt, Inc. Clinton, Arkansas | NA |
| 526-A (Mod.) | Standard Brakeshoe & Foundry Company Pine Bluff, Arkansas | 50,000 |
| 252-A (Mod.) | Tosco Corporation El Dorado, Arkansas | 47,000 |

COMMISSIONERS

[Handwritten signatures and initials]

John P. Dayton
CHAIRMAN

SUBMITTED BY John D. Ward DATE PASSED November 20, 1981

ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
DIVISION OF AIR POLLUTION CONTROL

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Vertac Chemical Corporation
Jacksonville

CSN 600028 CASE REFERENCES _____

FIRST SUBMITTAL 8-7-81 AMENDED 9-16-81

SUMMARY:

Vertac proposes the installation of equipment to bag the 2, 4-D, which has formerly been sold in bulk. The equipment will be operated under a negative pressure with the dust, which is generated being collected in a fabric filter. The allowable particulate emission rate is one pound per hour. The particulate emission rate shall be measured each month for the first three months of operation and annually, thereafter and at such times as the Director may require, using the methods described in Appendix A of 40 CFR 60.

CONDITION: In the event a stack test should measure an emission rate greater than one pound per hour or visible emissions are observed, operation of the bagging equipment shall cease until such time that the design/maintenance of the equipment has been corrected to the Director's satisfaction and written approval issued.

ESTIMATED COST: \$ 3,000 TOTAL PROJECT: \$ 30,000

COMMENCEMENT OF INSTALLATION NA COMMENCEMENT OF OPERATION NA

RECOMMENDATION Approval with/Condition ASSIGNED PERMIT NUMBER 270-A (Mod.)

AIR CODE XX SIP _____ PSD _____ NSPS _____ NESHAPS _____

REVIEWED BY CDH APPROVED BY JDW APPROVAL DATE November 20, 1981

ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
DIVISION OF AIR POLLUTION CONTROL

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Great Lakes Carbon Corporation

Altus

CSN 240014 CASE REFERENCES

FIRST SUBMITTAL 8-23-81 AMENDED 9-4-79, 9-29-81

SUMMARY:

Permit No. 429-A was issued in May of 1978 to Great Lakes Carbon Corporation (GLCC) for the installation of a plant near Altus to produce graphitized anodes from amorphous carbon by heat treatment. The permit was modified in November of 1979 to add operations before and after the graphitizing process. The EPA has also issued and subsequently modified a PSD permit for the facility. The construction has been completed and the plant recently began operation. Because of minor design changes and oversights, GLCC has proposed an additional modification to the permit. However, as an alternative to further modifying the permit, it is hereby proposed to rescind all air permits previously issued to Great Lakes Carbon Corporation, and reissue Permit No. 429-A, which shall be limited to the application submitted by GLCC on September 29, 1981, this summary report and the standard permit conditions. This action should simplify future communications between the Department and GLCC.

Another facility operated by GLCC mixes petroleum coke with liquid coal tar pitch, extrudes the mixture into various shapes and sizes, and ships the green electrodes to the Ozark facility. The first operation is the placement of the green electrodes in the baking furnaces. To maintain the shape of the electrodes during the early part of the baking, the electrodes are surrounded with a mixture of sand and coke. After baking the surface of the electrodes, it is cleaned by shotblasting with the particulate emissions being controlled with a fabric filter (SN-303). A fabric filter (SN-302) controls the particulate emissions generated by the loading and unloading of the bake furnaces. The electrodes are then impregnated with pitch in an autoclave. The fumes generated during this operation are treated in an incinerator (SN-501). The impregnated electrodes are then placed in furnaces for rebaking. The gases generated by the baking and rebaking are captured and incinerated (SN-301).

ESTIMATED COST: \$ 850,000 TOTAL PROJECT: \$ 44,000,000

COMMENCEMENT OF INSTALLATION Installed COMMENCEMENT OF OPERATION NA

RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 429-A (Modification)

REVIEWED BY CDH APPROVED BY JDW APPROVAL DATE November 20, 1981

The final heat treatment is termed "graphitizing", which increases the crystallinity of the carbon atoms. The electrodes are placed in the graphitizing furnace and surrounded by petroleum coke. Electricity flowing through the electrodes provides heat by the resistance effect. GLCC has presented sampling data from another facility, which demonstrated that the gases leaving the graphitizing furnaces do not require control. The emissions from the furnaces will be measured to confirm the lack of need for control. The particulate emissions generated by the handling of the coke are controlled with a fabric filter (SN-401). The final step in the processing is the machining of the finished electrodes. The particulate emissions generated in this area are controlled with a fabric filter (SN-601).

Baghouses are also used to control particulate emissions from the area where the wooden shipping crates are manufactured (SN-701) and the testing laboratory (SN-801).

ESTIMATED COST NA TOTAL PROJECT 44,000,000
COMMENCEMENT OF INSTALLATION Installed REVIEWED BY CDH
COMMENCEMENT OF OPERATION NA APPROVED BY JDW
RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 429-A (Modification)
APPROVAL DATE November 20, 1981

ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
DIVISION OF AIR POLLUTION CONTROL

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Aearth Preparation, Inc.

Russellville

CSN 580018 CASE REFERENCES

FIRST SUBMITTAL 8-19-81 AMENDED 10-15-81

SUMMARY:

Aearth proposes the installation of a coal preparation and barge loading facility on the Arkansas River south of Russellville. The plant has a design rate of 125 tons per hour of finished coal. In addition to coal from area mines, the refuse from coal mining (gob piles) will be processed. The operation consists of crushing, screening, gravity separation, washing, and transfer to ground storage or direct to barges. As the material will be sprayed with water on the first conveyor and continue through the operation in a wet condition with no thermal drying, the dust emissions should be inconsiderable.

The barges will be loaded either with a vertically adjustable conveyor to minimize the drop height or a chute to enclose the transfer point.

As this source is a "coal preparation plant" with a capacity greater than 200 tons per day, it is affected by the federal New Source Performance Standards (NSPS). However, as there will be no thermal dryer or pneumatic coal cleaning, performance tests (stack testing) will not be required.

ESTIMATED COST: \$ NA TOTAL PROJECT: \$ 1,300,000

COMMENCEMENT OF INSTALLATION NA COMMENCEMENT OF OPERATION January 1982

RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 675-A

REVIEWED BY CDH APPROVED BY JDW APPROVAL DATE November 20, 1981

SIP X NSPS X

REV. 6/80

ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
DIVISION OF AIR POLLUTION CONTROL

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Great Lakes Chemical Corporation (South Plant)
E1 Dorado

CSN 700037 CASE REFERENCES _____

FIRST SUBMITTAL 10-9-81 AMENDED _____

SUMMARY:

Great Lakes proposes the installation of equipment to flake the tribomophenol (TBP) currently being produced. The flaker is a flexible steel belt, upon which the liquid TBP is fed by gravity. On the opposite end of the belt, the flaked TBP will be fed into a hopper from which drums will be filled. The belt is to be hooded and vented to a scrubber. The scrubber liquor will be used as makeup water for the TBP process. Any dust generated during the drumming will be collected in a bag filter.

ESTIMATED COST: \$ 40,000 TOTAL PROJECT: \$ 125,000

COMMENCEMENT OF INSTALLATION 10-15-81 COMMENCEMENT OF OPERATION 11-15-81

RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 319-A (Mod.)

AIR CODE X SIP _____ PSD _____ NSPS _____ NESHAPS _____

REVIEWED BY CDH APPROVED BY JDW APPROVAL DATE November 20, 1981

ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
DIVISION OF AIR POLLUTION CONTROL

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Mountain View Asphalt, Inc.

Clinton

CSN 882109 CASE REFERENCES _____

FIRST SUBMITTAL 10-13-81 AMENDED _____

SUMMARY:

Mountain View Asphalt proposes the installation of an Aedco Model 6026 drum mix asphalt batch plant. The plant has a design capacity of 80 tons per hour. The particulate emissions are to be controlled with a venturi scrubber. The allowable particulate emission rate is 2.75 pounds per hour (0.04 grains per dry standard cubic foot). The opacity shall not exceed 10% (six minute average), except for one 6-minute period per hour, provided such emissions will not be permitted more than three times during any 24-hour period. Opacity determination shall be by use of Method 9 of Appendix A of 40 CFR 60.

As this plant is of recent manufacture, it is affected by the federal New Source Performance Standards (NSPS) of 40 CFR 60. The requirements of these regulations include, but are not limited to; notification of the Department within 15 days of initial startup and completion of the performance tests (stack testing) within 60 days of achieving the maximum production rate, but no later than 180 days after initial startup.

ESTIMATED COST: \$ _____ TOTAL PROJECT: \$ _____

COMMENCEMENT OF INSTALLATION 11-23-81 COMMENCEMENT OF OPERATION 12-14-81

RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 674-A

AIR CODE _____ SIP X PSD _____ NSPS X NESHAPS _____

REVIEWED BY CDH APPROVED BY JDW APPROVAL DATE November 20, 1981

ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
DIVISION OF AIR POLLUTION CONTROL

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Standard Brakeshoe & Foundry Company
Pine Bluff

CSN 350026 CASE REFERENCES _____

FIRST SUBMITTAL 11-6-81 AMENDED _____

SUMMARY:

Standard Brakeshoe operates a steel foundry with two small electric arc furnaces in Pine Bluff. Permit 526-A was issued in November of 1978 for the installation of hoods, ducting, and a fabric filter. In anticipation of replacing the older equipment and/or an expansion, the fabric filter was oversized. Standard Brakeshoe now proposes the installation of a new larger electric arc furnace with the associated hooding and ducting to the existing fabric filter. After the modification, the air to cloth ratio, with one of the four baghouse modules down for cleaning/maintenance, will still be less than 3 to 1. The allowable particulate emission rate is 2 pounds per hour.

ESTIMATED COST: \$ 50,000 TOTAL PROJECT: \$ 400,000

COMMENCEMENT OF INSTALLATION Dec. 1981 COMMENCEMENT OF OPERATION Feb. 1982

RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 526-A (Mod.)

AIR CODE _____ SIP X PSD _____ NSPS _____ NESHAPS _____

REVIEWED BY CDH APPROVED BY JDW APPROVAL DATE November 20, 1981

ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
DIVISION OF AIR POLLUTION CONTROL

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Tosco Corporation

El Dorado

CSN 700016 CASE REFERENCES _____

FIRST SUBMITTAL 6-3-81 AMENDED 11-3-81

SUMMARY:

As a result of the condemnation of a storage tank used for the blending of regular gasoline, Tosco has engaged in a program to increase the utilization of the remaining blending/storage tanks by reactivating out-of-service tanks, and using the larger tanks for the gasoline blends. The project includes piping changes, several new pumps, and the installation of mixers in three of the tanks. The EPA considers the addition of mixers as a modification under the federal New Source Performance Standards (NSPS), if there is an associated increase in hydrocarbon emissions. The addition of a secondary seal to the external floating roof of Tank No. 124 will decrease its emissions. However, Tanks No. 108 and 109 will have a slight increase in emissions and are, therefore, subject to NSPS. At the completion of this project, No. 108 and No. 109 will have been fitted with internal floating roofs.

Overall, this project will result in a slight decrease in hydrocarbon emissions.

CONDITION: Tanks Nos. 108 and 109 shall be maintained and monitored in accordance with the NSPS requirements of 40 CFR 60.

ESTIMATED COST: \$ 47,000 TOTAL PROJECT: \$ 345,000

COMMENCEMENT OF INSTALLATION 7-81 COMMENCEMENT OF OPERATION 11-30-81

RECOMMENDATION Approval w/Condition ASSIGNED PERMIT NUMBER 252-A (Mod.)

AIR CODE x SIP x PSD _____ NSPS x NESHAPS _____

REVIEWED BY CDH APPROVED BY JDW APPROVAL DATE November 20, 1981

ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
DIVISION OF AIR POLLUTION CONTROL

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Mining Services International
Camden - Highland Industrial Park

CSN 070031 CASE REFERENCES _____

FIRST SUBMITTAL 10-16-81 AMENDED 11-12-81

SUMMARY:

Mining Services International (MSI) proposes the installation of a facility to manufacture and package an explosive used in mining. Aqueous alkyl amine solution is reacted with HCl to produce an aqueous alkyl ammonium chloride solution which is vacuum evaporated to a lower water content. The reactor vents to a water scrubber. The scrubber is the only emission point in the process. The ammonium chloride is mixed with an oxidizer and packaged. The only safe practical method of disposal of the explosive contaminated solid waste (primarily paper towels) is open burning, which will be conducted on the plant site.

CONDITION: The open burning shall be limited to explosive contaminated waste, and shall be conducted only as described within the permit application.

ESTIMATED COST: \$ 5,000 TOTAL PROJECT: \$ 250,000

COMMENCEMENT OF INSTALLATION Upon Approval COMMENCEMENT OF OPERATION 7-82

RECOMMENDATION Approval w/Condition ASSIGNED PERMIT NUMBER 676-A

AIR CODE x SIP _____ PSD _____ NSPS _____ NESHAPS _____

REVIEWED BY CDH APPROVED BY JDW APPROVAL DATE November 20, 1981

ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
DIVISION OF AIR POLLUTION CONTROL

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Porocel Corporation

Little Rock

CSN 600004 CASE REFERENCES _____

FIRST SUBMITTAL 10-14-81 AMENDED 11-9-81

SUMMARY:

Porocel operates a facility south of Little Rock which dries, grinds, and calcines bauxite. Previously, the particulate emissions were controlled with three scrubbers. Permit No. 635-A was issued in November of 1980 for the replacement of the scrubbers with one new scrubber and baghouses. Porocel now proposes to install an additional baghouse instead of the scrubber.

ALLOWABLE PARTICULATE EMISSION RATES - (Pounds Per Hour)

| <u>SN</u> | <u>SOURCE</u> | |
|-----------|------------------------------------------------------------------------------------|---|
| 1 | Baghouse No. 1 - crusher, receiving hopper, and dryer | 2 |
| 2 | Baghouse No. 2 - fugitive from mill building | 3 |
| 3 | Baghouse No. 3 - Calciner No. 2 | 2 |
| 4 | Baghouse No. 4 - Calciner No. 1 and fugitive from shipping and calcining buildings | 2 |

ESTIMATED COST: \$ 400,000 TOTAL PROJECT: \$ 3,000,000

COMMENCEMENT OF INSTALLATION _____ COMMENCEMENT OF OPERATION Jan. 1982

RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 635-A (Mod.)

AIR CODE X SIP X PSD _____ NSPS _____ NESHAPS _____

REVIEWED BY CH APPROVED BY JDW APPROVAL DATE November 20, 1981

ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
DIVISION OF AIR POLLUTION CONTROL

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Bull Shoals Community Hospital

Bull Shoals

CSN 450014 CASE REFERENCES _____

FIRST SUBMITTAL 10-15-81 AMENDED 11-12-81

SUMMARY:

Bull Shoals Community Hospital proposes the installation of a Helms Model 300 incinerator to dispose of pathological waste. The unit has a maximum capacity of 300 pounds per hour.

Two previous installations of this model incinerator have been stack tested in Arkansas.

The allowable particulate emission rate is 0.1 grains per dry standard cubic foot.

ESTIMATED COST: \$ _____ TOTAL PROJECT: \$ _____

COMMENCEMENT OF INSTALLATION _____ COMMENCEMENT OF OPERATION _____

RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 354-AI

AIR CODE X SIP _____ PSD _____ NSPS _____ NESHAPS _____

REVIEWED BY CDH APPROVED BY JDW APPROVAL DATE November 20, 1981

ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
DIVISION OF AIR POLLUTION CONTROL

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY EPCO
El Dorado
CSN 700094 CASE REFERENCES _____
FIRST SUBMITTAL 10-30-81 AMENDED _____

SUMMARY:

EPCO proposes the installation of a new facility in El Dorado to manufacture imbiber beads which are used in the clean up of chemical spills. Methocel and warm water are to be mixed in one container, while butylstyrene and esters of acrylic acid are being mixed in a reactor. The methocel solution is added to the reactor with divinylbenzene, and the mixture is heated for approximately 24 hours. The beads produced in the reactor will then be dewatered, dried, screened, and placed in drums. A portion of the imbiber bead production will be blended with ground ethafoam (similar to sytrafoam).

ALLOWABLE EMISSION RATES

| SN | Source | pollutant | pounds per hour |
|----|---------|-------------|-----------------|
| 1. | Dryer | particulate | 1 |
| 2. | Reactor | hydrocarbon | 1 |
| 3. | Screen | particulate | 1 |
| 4. | Grinder | particulate | 1 |

ESTIMATED COST: \$ _____ TOTAL PROJECT: \$ 500,000
COMMENCEMENT OF INSTALLATION 12-1-81 COMMENCEMENT OF OPERATION 2-15-82
RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 667-A
AIR CODE *** SIP _____ PSD _____ NSPS _____ NESHAPS _____
REVIEWED BY CDH APPROVED BY JDW APPROVAL DATE 11-20-81

Great Lakes Carbon Corporation
November 20, 1981
Permit No. 429-A (Modification)

ALLOWABLE EMISSION RATES
(POUNDS PER HOUR)

| SN | PARTICULATE | OTHER |
|----------------------------------------------------------------------------------------|-------------|---------------------------|
| 301 Baking furnaces incinerator | 6.6 | |
| 302 Baking furnace loading and unloading (Fabric Filter) | 2 | |
| 303 Shotblasting (Fabric Filter) | 2 | |
| 401 Coke handling and graphitizing Furnace loading and unloading (Fabric Filter) | 2 | |
| 403 Graphitizing furnaces | 2 | Co 145 SO2 25 H2S 5 |
| 501 Pitch impregnation (Incinerator) | 2 | |
| 601 Finishing Department (Fabric Filter) | 2 | |
| 701 Crate manufacturing (Fabric Filter) | 2 | |
| 801 Testing lab (Fabric Filter) | 2 | |

The emissions from each of the above described sources shall not exceed 5%, as measured by Method 9 of Appendix A of 40 CFR 60.