

The Commission, having considered the following Applications for Permit 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 Application, Summary Reports, or amendments thereto, and Subsection 4(d) of the Arkansas Plan of Implementation; provided, however, that the applicant complies 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 - PROCESS CONTROL EQUIPMENT

<u>PERMIT NO.</u>	<u>FACILITY &amp; LOCATION</u>	<u>COST</u>
318-A	Dow Chemical Company Magnolia, Arkansas	\$ 360,000
320-A	Alcoa Bauxite, Arkansas	10,800
321-A	Whirlpool Corporation Ft. Smith, Arkansas	115,651

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ALB  
SDW  
MB  
SW  
1/30/76 JES  
RCR by 2/2  
2/26/76 JES

Billy Fran  
Chairman

Submitted by Jarrell E. Southall Date Passed 1/30/76

APPLICATION FOR PERMIT - INCINERATOR

<u>PERMIT NO.</u>	<u>FACILITY &amp; LOCATION</u>	<u>COST</u>
259-AI	Dardanelle Hospital Dardanelle, Arkansas	\$ 5,200
264-AI	Forrest City Memorial Hospital Forrest City, Arkansas	7,195
265-AI	Eureka Springs Municipal Hospital Eureka Springs, Arkansas	5,726

The Summary Reports, prepared by the staff, are designed to facilitate the administration of the air pollution control program for the State of Arkansas and, otherwise, for the convenience of the Commission and other interested persons. Copies of the Minute Orders, the Permits, and the Summary Reports are to be attached to the Applications for Permit which are on file in the Department's central office. It is further noted that the approvals of these applications are based upon information contained within the Application for Permit - not the Summary Reports. Nevertheless, the applicant is expected to forthwith notify the Department of any discrepancies found between the two documents.

COMMISSIONERS

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Billy Furr Submitted by Jarrell E. Southall Date Passed 1/30/76  
Chairman

DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY  
D.A.P.C.

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY: Dow Chemical Company

Magnolia, Arkansas

CSN: 140011

FIRST SUBMITTAL: 11/26/75 AMENDED: 12/31/75

CASE REFERENCES: Permit No. 95-A - Permit No. 285-A

SUMMARY:

Dow Chemical submitted permit applications under subsection 3(c) of the Arkansas Air Pollution Control Code. Dow proposes to construct a facility for the production of FUMAZONE<sup>®</sup>, to expand the present bromine production plant, and to operate another boiler.

Raw materials for the FUMAZONE<sup>®</sup> process will be furnished by the existing bromine process with other raw materials brought in by tank car or tank truck. As a tank car is unloaded, the vapor from the storage tank will be vented back to the tank car and bromine vapors will be vented back to an existing halogen scrubber. The only vent to the atmosphere from the FUMAZONE<sup>®</sup> process will be scrubbed by a liquid contact type scrubber with a packed section 6" dia. x 8 ft. long. The vapors scrubbed will be acid gases (HCL and HBr). The air discharge will have no measurable HCL or HBr according to calculations.

(Continued)

ESTIMATED COST: \$360,000 TOTAL PROJECT: \$4,700,000

COMMENCEMENT OF INSTALLATION: Upon Commission Approval

COMMENCEMENT OF OPERATION: \_\_\_\_\_

REVIEWED BY: LEH APPROVED: JES

RECOMMENDATION: APPROVAL

ASSIGNED PERMIT NUMBER: 318-A

COMMISSION MINUTE ORDER NUMBER: \_\_\_\_\_

DOW CHEMICAL COMPANY  
Magnolia, Arkansas

(Continued)

The formulation and finished FUMAZONE<sup>®</sup> tanks will all be connected to a gas bag and these tanks will all breathe with the gas bag so no emissions to atmosphere will result. The finished product is then pumped to the FUMAZONE<sup>®</sup> packaging operation. This operation will have one vent to the atmosphere. A fan will move 4,100 CFM of air from the packaging operation and 3.3 lb/hr. of FUMAZONE<sup>®</sup> will be released to the atmosphere.

Another permit application was submitted to cover the expansion and increased capacity of the existing bromine production facility. The process uses brine produced from the Smackover formation. Sour gas is separated at the well and transported to the sulfur recovery unit. The brine, containing residual sour gas, is brought into the brine pretreatment where the residual sour gas is stripped from the brine. This sour gas is also transported to the sulfur recovery unit. The brine is sent to the existing bromine production or the new proposed facility. Chlorine is used to displace the bromine. Under upset conditions bromine could be released to the atmosphere. Under normal conditions, the existing extraction tower and the new one will have a scrubber to prevent bromine vapors from being released to the atmosphere. Both are liquid contact scrubbers and are provided with an emergency liquid supply by diesel powered pumps in case of power failures. Bromine is then put in bromine storage for shipment or other production uses.

The sulfur recovery unit is already permitted. The existing unit will be enlarged in order to handle larger quantities of brine. The process will remain the same. Calculations show that the new emission rate for SO<sub>2</sub> will be 60#/hr at the new flow rates.

A continuous halogen monitor will be installed to detect HCl and HBr vapors from the FUMAZONE<sup>®</sup> process and another continuous halogen monitor will be used to detect chlorine or bromine emissions from the new bromine extraction tower.

(Continued)

The new boiler to be installed will burn natural gas except during curtailment periods when #2 fuel oil will be used.

Approval is based on the following conditions:

(1) Emission sampling will be taken for the sulfur recovery unit to assure that it is not exceeding 60 lb/hr of  $SO_2$ .

(2) A permit will be submitted within two months for the reduction of ethylene emissions.

(3) Additional stack sampling for ethylene dibromide will be conducted within three months.

DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY  
D.A.P.C.

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY: Whirlpool Corporation  
Ft. Smith, Arkansas

CSN: 660048

FIRST SUBMITTAL: December 22, 1975 AMENDED: \_\_\_\_\_

CASE REFERENCES: \_\_\_\_\_

SUMMARY: Whirlpool Corporation of Ft. Smith proposes to install and operate a natural gas fired paint hook stripper, consisting of an oven, water-blast unit, a continuous sludge filter and an overhead conveyor system. The paint is burned off the hooks in the oven and then the hooks are washed with high-pressure water spray in the washer. Average paint build up per hook should approximate 1 lb. The only process exhaust is from a 22,000 CFM blower from the oven and the washer and the maximum emissions are less than 0.1 lb/hour. Maximum fuel requirements are 6,720 ft<sup>3</sup>/hour of natural gas. The type of paints to be stripped are as follows: acrylic, epoxy, water-base, spray on adhesive and air dry lacquer.

ESTIMATED COST: \$115,651 TOTAL PROJECT: \$115,651

COMMENCEMENT OF INSTALLATION: \_\_\_\_\_

DATE OF COMPLIANCE: GIVEN: \_\_\_\_\_ SET: \_\_\_\_\_

REVIEWED BY: IHB APPROVED: JES

RECOMMENDATION: Approval

ASSIGNED PERMIT NUMBER: 321-A

COMMISSION MINUTE ORDER NUMBER: \_\_\_\_\_

DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY  
D.A.P.C.

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY: Dardanelle Hospital

Dardanelle, Arkansas

CSN: 580046

FIRST SUBMITTAL: 9/24/75 AMENDED: \_\_\_\_\_

CASE REFERENCES: \_\_\_\_\_

SUMMARY:

Dardanelle Hospital of Dardanelle proposes to install a Kelley-Hoskinson pathological incinerator, Model 200, with a rated capacity of 225 lbs/hr. The hospital waste is approximately 528 lbs/day and the incinerator will be operated for approximately 3 hr/day. The test data submitted with the application shows the particulate emissions to be 0.098 gr/SCF at 12% CO<sub>2</sub>.

ESTIMATED COST: \$5,200 TOTAL PROJECT: \$5,200

COMMENCEMENT OF INSTALLATION: \_\_\_\_\_

COMMENCEMENT OF OPERATION: \_\_\_\_\_

REVIEWED BY: IHB APPROVED: JES

RECOMMENDATION: APPROVAL

ASSIGNED PERMIT NUMBER: 259-AI

COMMISSION MINUTE ORDER NUMBER: \_\_\_\_\_

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DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY  
D.A.P.C.

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY: Forrest City Memorial Hospital  
500 North Kittel Road, Forrest City

CSN: 620057

FIRST SUBMITTAL: 12-31-75 AMENDED: \_\_\_\_\_

CASE REFERENCES: \_\_\_\_\_

SUMMARY: Forrest City Memorial Hospital of Forrest City proposes to install a pathological Consumat incinerator (Model C-32 P). It has a capacity of 130 lbs/hr for type "0" waste, 170 lbs/hr for type "1" waste, 200 lbs/hr for type "2" waste and 85 lbs/hr for type "4" waste. The daily waste is about 200 lbs. and the unit shall be operated about 4 hours/day. The test data submitted with the application shows the particulate emissions to be less than 0.2 gr/SCF at 12% CO<sub>2</sub>. The unit has primary and secondary burners, each with a capacity of 350,000 BTU/hr and equipped to burn natural gas.

ESTIMATED COST: \$7,195 TOTAL PROJECT: \$7,195

COMMENCEMENT OF INSTALLATION: \_\_\_\_\_

DATE OF COMPLIANCE: GIVEN: \_\_\_\_\_ SET: \_\_\_\_\_

REVIEWED BY: IHB APPROVED: JES

RECOMMENDATION: Approval

ASSIGNED PERMIT NUMBER: 264-AI

COMMISSION MINUTE ORDER NUMBER: \_\_\_\_\_

DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY  
D.A.P.C.

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY: Eureka Springs Municipal Hospital

24 Norris Street, Eureka Springs

CSN: 080022

FIRST SUBMITTAL: 12-04-75 AMENDED: \_\_\_\_\_

CASE REFERENCES: \_\_\_\_\_

SUMMARY: Eureka Springs Municipal Hospital of Eureka Springs proposes to install a pathological Consumat incinerator, Model C-18P. The unit has a capacity of 75 lbs/hr for type "0" waste, 95 lbs/hr for type "1" waste, 85 lbs/hr for type "2" waste and 50 lbs/hr for type "4" waste. The daily amount of waste is approximately 100-200 lbs and the unit shall be operated for 8 hours/day. The unit has primary and secondary natural gas burners with a capacity of 350,000 BTU/hr each. The test data submitted with the application shows the particulate emissions to be 0.09 gr/DSCF at 12% CO<sub>2</sub>.

ESTIMATED COST: \$5,726 TOTAL PROJECT: \$5,726

COMMENCEMENT OF INSTALLATION: \_\_\_\_\_

COMMENCEMENT OF OPERATION: \_\_\_\_\_

REVIEWED BY: IHB APPROVED: JES

RECOMMENDATION: Approval

ASSIGNED PERMIT NUMBER: 265-AI

COMMISSION MINUTE ORDER NUMBER: \_\_\_\_\_