

ARKANSAS DEPARTMENT OF
POLLUTION CONTROL AND ECOLOGY

LOCATION - SUBJECT AIR PERMITS

MINUTE ORDER NO. _____

January 9, 1975
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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 these 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 the 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



Chairman Submitted by Southall Date passed _____

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

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY: JACOB STERN & SONS, INC.
300 Michigan Street, Pine Bluff

CSN: _____

FIRST SUBMITTAL: January 6, 1975 AMENDED: _____

CASE REFERENCES: _____

SUMMARY: Jacob Stern & Sons, Inc. propose to construct a plant for the extraction of vegetable oil from spent bleaching clay and processing of the extracted oil.

The oil will be extracted by using a solvent (normal-hexane) and steam. The solvent will be recovered by evaporators and water cooled condensers. The oil will be processed in the evaporators and a vacuum stripping column. The steam is recovered in the condensers.

All of the non-condensibles from the condensers go to a vent condenser to be cooled prior to being washed with a white mineral oil. This system removes solvent vapors from the air being vented out of the system.

Dust handling equipment will not be required because the clay is saturated with oil when received and is saturated with moisture from the steaming operation when leaving the plant.

ESTIMATED COST: _____ TOTAL PROJECT: _____

COMMENCEMENT OF INSTALLATION: March 1, 1975

COMMENCEMENT OF OPERATION: _____

REVIEWED BY: ROB APPROVED: JES

RECOMMENDATION: Approval

ASSIGNED PERMIT NUMBER: 272-A

COMMISSION MINUTE ORDER NUMBER: _____

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

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY: Ethyl Corporation
Magnolia

CSN: _____

FIRST SUBMITTAL: 12/6/74 AMENDED: _____

CASE REFERENCES: _____

SUMMARY:

Ethyl Corporation proposes to install a sulfur plant tails gas incinerator and stack. The incinerator is designed to burn H_2S to SO_2 and to heat the stack gas to $1200^{\circ}F$. The stack height (190 ft.) plus the thermal effect from the $1200^{\circ}F$ exit gas temperature maintains ground level SO_2 concentrations well below the National and Arkansas Ambient Air Quality Standards.

ESTIMATED COST: \$150,000 TOTAL PROJECT: \$150,000

COMMENCEMENT OF INSTALLATION: January 1975

COMMENCEMENT OF OPERATION: _____

REVIEWED BY: ROB APPROVED: JES

RECOMMENDATION: APPROVAL

ASSIGNED PERMIT NUMBER: 273-A

COMMISSION MINUTE ORDER NUMBER: _____

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

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY: DOW CHEMICAL COMPANY
Russellville, Arkansas

CSN: _____

FIRST SUBMITTAL: 12/13/74 AMENDED: _____

CASE REFERENCES: _____

SUMMARY: Dow Chemical Company of Russellville, Arkansas proposes to install an Ecology Engineer's Incinerator, Model 110, to burn about 300 pounds of cardboard boxes (about 10% boxes being lined with polyethylene). Upon analysis, it is found that the polyethylene lining weighs around 0.5 pounds, with a total weight of box about 2.5 pounds. Hence, the ratio of polyethylene to cardboard is 2%, which is within allowable limits of 5% plastics by weight in normal incineration process. The incinerator has a capacity of 110 lbs/hr and will be operated about 6 hrs/day. Test data submitted shows the particulate emissions to be 0.0242 gr/SCF at 12% CO₂.

QUALIFICATIONS: Polyethylene in the refuse can cause sudden flare-ups on burning, giving increased particulate emissions. Hence, the ratio of polyethylene to waste paper should not exceed 4% in order to keep the smoke and particulate emissions within the limits of the Arkansas Air Code.

ESTIMATED COST: \$6,000 TOTAL PROJECT: _____

COMMENCEMENT OF INSTALLATION: December 18, 1974

COMMENCEMENT OF OPERATION: _____

REVIEWED BY: IB APPROVED: JES

RECOMMENDATION: Approval

ASSIGNED PERMIT NUMBER: 223-AI

COMMISSION MINUTE ORDER NUMBER: _____

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

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY: WYNNE NURSING HOME
901 Cleveland Street, Wynne, Arkansas 72396

CSN: _____

FIRST SUBMITTAL: January 6, 1974 AMENDED: _____

CASE REFERENCES: _____

SUMMARY: Wynne Nursing Home of Wynne, Arkansas proposes to install a pathological incinerator of the type 10-GSX-P calcinator for burning 5 lbs. of type I and type IV wastes. The incinerator will be operated about 4 hours per day. From the test data submitted, the particulate emissions were found to be 0.025 gr/SCF at 12% CO₂. The unit is a multi-chamber, controlled combustion incinerator with an afterburner using one inshot burner of 35,000 BTU input. The unit is controlled by an automatic timer control device with 1 hour time as minimum setting. It also has a 100% safety shut-off of pilot burner if gas or pilot failure occurs.

ESTIMATED COST: _____ TOTAL PROJECT: _____

COMMENCEMENT OF INSTALLATION: _____

COMMENCEMENT OF OPERATION: _____

REVIEWED BY: IHB APPROVED: JES

RECOMMENDATION: Approval

ASSIGNED PERMIT NUMBER: 224-AI

COMMISSION MINUTE ORDER NUMBER: _____

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

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY: Medical Lodge of Texarkana
1621, E. 42nd St., Texarkana, Ark.

CSN: _____

FIRST SUBMITTAL: Jan. 6, 1975 AMENDED: _____

CASE REFERENCES: _____

SUMMARY: Medical Lodge of Texarkana proposes to install a pathological incinerator of type 80-10 (Hoyt Corp.) for burning pathological wastes of about 4 lbs./day. The incinerator would be operated about 1-2 hrs/day. The unit is a multi-chamber design with an afterburner and an automatic timer with a maximum setting of 4 hours. It has a capacity of 150 lbs/hr. The smoke opacity readings taken during the test showed an average opacity of 0.41% and average particulate emissions to be 0.0940 go/SCF at 12% CO₂.

ESTIMATED COST: _____ TOTAL PROJECT: _____

COMMENCEMENT OF INSTALLATION: _____

COMMENCEMENT OF OPERATION: _____

REVIEWED BY: IHB APPROVED: JES

RECOMMENDATION: Approval

ASSIGNED PERMIT NUMBER: 225-AI

COMMISSION MINUTE ORDER NUMBER: _____