

MINUTE ORDER NO. 83-15

AIR PERMITS
PAGE 1 OF 2

The Commission, having considered the following Applications 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>
366-AI	Kirby's Tucker Memorial Cemetery Mountain Home	N/A
367-AI	Nelson's Funeral Home, Inc. Fayetteville	5,394
283-AI-1	North American Philips Lighting Corp. Little Rock	N/A
249-AR-3	Ensco, Inc. El Dorado	N/A
343-AR-1	Riceland Foods Jonesboro	3,540
388-AR-1	Scott Paper Company Rogers	N/A
489-AR-1	Riceland Foods Stuttgart	23,450
708-A	Ethyl Corporation Magnolia	400,000
709-A	Riceland Foods Helena	200,000
710-A	Malvern Chemical, Inc. Malvern	N/A

COMMISSIONERS

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EW

John P. Sutton
CHAIRMAN

SUBMITTED BY: John D. Ward DATE PASSED: 3-25-83

MINUTE ORDER NO. 83-

APPLICATION FOR PERMIT - INDUSTRIAL FACILITIES

<u>PERMIT NO.</u>	<u>FACILITY & LOCATION</u>	<u>COST</u>
711-A	Waste Resources and Recovery Corning	5,000
PSD-463AR-1	International Paper Company Gurdon	N/A

The Summary Report, prepared by the staff, is 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 Order, the Permit, and the Summary Report, is to be attached to the Application for Permit which is on file in the Department's central office. It is further noted that the approval of this application is based upon information contained within the Application for Permit - not the Summary Report. Nevertheless, the applicant is expected to forthwith notify the Department of any discrepancies found between the two documents.

COMMISSIONERS

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SUBMITTED BY: John D. Ward DATE PASSED: 3-25-83

CHAIRMAN

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

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Kirby's Tucker Memorial Cemetery
Mountain Home, Arkansas (Baxter County)

CSN 030063 CASE REFERENCES _____

FIRST SUBMITTAL Febraury 22, 1983 AMENDED March 22, 1983

SUMMARY:

Kirby's Tucker Memorial Cemetery is proposing to install a crematory at their cemetery approximately five miles south west of Mountain Home. The unit to be installed is a Industrial Equipment & Engineering Company Model IE-43-E.

This permit is issued on the conditions that the unit be operated according to the manufacture's instructions and that there be no visible emissions during operation.

ESTIMATED COST: \$ N/A TOTAL PROJECT: \$ 22,500

COMMENCEMENT OF INSTALLATION N/A COMMENCEMENT OF OPERATION N/A

RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 366-AI

AIR CODE X SIP _____ PSD _____ NSPS _____ NESHAPS _____

REVIEWED BY MAP APPROVED BY JDW APPROVAL DATE March 25, 1983

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

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Nelson's Funeral Home, Inc.

Fayetteville (Washington County)

CSN 720176 CASE REFERENCES _____

FIRST SUBMITTAL March 8, 1983 AMENDED March 15, 1983

SUMMARY:

Nelson's Funeral Home, Inc. is proposing to install a crematory in their Funeral Home located at 3939 North College, Fayetteville. The unit to be installed is an All Crematory Corporation Model L-1701.

This permit is issued on the conditions that the unit be operated according to the manufacture's instructions and that there be no visible emissions during operation.

ESTIMATED COST \$ 5,394 TOTAL PROJECT \$ 21,576

INSTALLATION 3/1/83 OPERATION May 1, 1983

RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 367-AI

AIR CODE X SIP _____ PSD _____ NSPS _____ NESHAPS _____

REVIEWED BY MAP APPROVED BY JDW DATE APPROVED 3/25/83

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

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY North American Philips Lighting Corp.
Little Rock

CSN 60-0075 CASE REFERENCES _____

FIRST SUBMITTAL 2/25/83 AMENDED _____

SUMMARY:

The North Americal Philips Electric Corp. has purchased the Westinghouse Lamp Plant located on Roosevelt Road and they have requested that Permit #283-AI be reissued in their name.

Permit #283-AI is for a PECO incinerator which disposes of chemical waste generated at the plant. The bulk of the waste is in liquid form, and 95% is amyl acetate. Impurities are phosphorus, cryolite, barium carbonate, and a mixture of zirconium and aluminum. About five gallons of waste per day will be destroyed. Emissions to the atmosphere will be controlled by a wet scrubber.

ESTIMATED COST \$ N/A TOTAL PROJECT \$ N/A

INSTALLATION N/A OPERATION N/A

RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 283-AI-1

AIR CODE X SIP _____ PSD _____ NSPS _____ NESHAPS _____

REVIEWED BY MAP APPROVED BY JDW DATE APPROVED 3/25/83

Arkansas Department of Pollution Control and Ecology
Division of Air Pollution Control

Summary Report Relative to Permit Application

Submitted By: Ensco, Inc.
El Dorado

CSN: 700098

Submittals: 12-27-82, 2-21-83, 3-4-83, 3-7-83, 3-10-83

SUMMARY: Ensco currently utilizes a natural gas boiler to provide process steam, which is primarily used to power the scrubber serving the Thermal Oxidation Unit (TOU). Ensco now proposes the installation of a waste fuel fired boiler. In addition to the conservation of natural gas, the boiler will produce more steam than the existing boiler. The additional steam production should allow the existing scrubber to clean the exit gases from the TOU and new boiler with no increase in emissions. The liquid wastes will be chlorinated hydrocarbons fed from Tank No. 172 and hydrocarbons with sulfur fed from Tank No. 501. Both tanks will be recirculated to assure a uniform mixture, and analyzed at least once each week for heat content, halogens, sulfur, ash, and other substances which the Department may request. The conditioning water, described later, will also be analyzed weekly.

For start-up, the boiler will be heated to 1800 F with natural gas. Then, the waste fuels will begin increasing while the flow of natural gas is proportionately reduced. When the temperature reaches 2150 F, conditioning water will be sprayed into the boiler, contributing hydrogen (H) for the creation of HCl which is easier to scrub from the the exit gases than chlorine (Cl). The conditioning water is also used in the place of excess air to control the temperature in the boiler.

The oxygen and carbon monoxide (CO) content of the exit gases, the boiler draft, the boiler temperature, and the fuel flow rates will be recorded continuously, and the values used to automatically control the boiler's operation. For example, should the CO level exceed 20 ppm, the conditioning water and waste fuel flows will be automatically reduced. In the event the CO level exceeds 50 ppm, the automatic shut-off valves in the waste fuel lines will close.

Ensco also proposes the installation of a barrel recovery unit to thermally decontaminate waste residues contained in barrels which have been used to store/transport wastes. The exhaust gases from this equipment will also be vented to the existing incinerator and scrubber.

Estimated Cost:

Total Project: \$500,000

Recommendation: Approval

Permit Number: 249-AR-3

Code * SIP *

Reviewed By: CDH

Approved by: JDW

Date Approved: 3-25-83

Fraco, Inc.
7-0098
Permit No. 249-AR-3

Specific Conditions

1. The terms and conditions of Permit No. 249-A (Mod.) issued on July 24, 1981 shall remain in effect.
2. No later than 60 days after start-up of the new boiler, the scrubber emissions shall be tested with prior notice to the Department. Concurrently, all relevant parameters, including but not limited to, the boiler temperature, oxygen and CO concentrations, flows and composition of the fuels for the TOU and boiler, and scrubber liquor and stack condensate pH, shall be measured and recorded.
3. No later than 30 days after the performance test, a report shall be submitted to the Department. Should the stack testing show compliance with the allowable emission rates, the report shall contain the applicant's proposal as to what parameters should be monitored and the acceptable ranges for each parameter to assure continuing compliance. Should the stack test show non-compliance, the applicant shall promptly take such corrective actions as necessary to achieve compliance with allowable emission rates, including the reduction of production rates.

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

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Riceland Foods
Jonesboro, Arkansas (Craighead County)

CSN 160101 CASE REFERENCES _____

FIRST SUBMITTAL March 8, 1983 AMENDED _____

SUMMARY:

The Jonesboro Rice Division of Riceland Foods is proposing to install a vacuum system at their By-Products Plant in Jonesboro. This system will consist of a central vacuum system, a bag filter, screw conveyor, bucket elevator, and 47 pick-up points (only two pick-up points can be used at a time). This system will be used to remove dust from the floors and ledges inside the building which otherwise might escape into the atmosphere. The dust laden air will be sent through a bag filter then vented to the atmosphere. The emission rate will be 0.012 pounds per hour. The opacity limit will be no visible emissions.

ESTIMATED COST: \$ 3,540 TOTAL PROJECT: \$ 55,000

COMMENCEMENT OF INSTALLATION 2/28/83 COMMENCEMENT OF OPERATION 4/4/83

RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 343-AR-1

AIR CODE x SIP x PSD _____ NSPS _____ NESHAPS _____

REVIEWED BY MAP APPROVED BY JDW APPROVAL DATE March 25, 1983

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

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Scott Paper Company
Rogers (Benton County)
CSN 040112 CASE REFERENCES _____
FIRST SUBMITTAL 2/8/83 AMENDED _____

SUMMARY:

Scott Paper Company manufactures nonwoven textiles at their facility in Rogers. They are proposing to make a process modification involving the plant's #1 and #2 Cardlines (SN-1 and SN-2). These changes will result in an emission reduction of approximately 1.6 pounds per hour for each line.

The emission limit for SN-1 and SN-2 will be 1.4 pounds per hour. The opacity limit will be no visible emissions.

ESTIMATED COST: \$ N/A TOTAL PROJECT: \$ N/A
COMMENCEMENT OF INSTALLATION 4/83 COMMENCEMENT OF OPERATION 10/83
RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 388-AR-3
AIR CODE X SIP _____ PSD _____ NSPS _____ NESHAPS _____
REVIEWED BY MAP APPROVED BY JDW APPROVAL DATE 3/25/83

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

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Riceland Foods

Stuttgart (Arkansas County)

CSN 010047 CASE REFERENCES _____

FIRST SUBMITTAL 2/4/83 AMENDED _____

SUMMARY:

Riceland Foods proposes to construct a facility to receive, grind, and convey to storage waste materials generated during the milling of rice. This material consists of seeds, straw, dust, rice hulls, and other foreign material found in rough rice; it is referred to as "chicken feed" by those in the industry. The "chicken feed" is currently ground in the rice mills.

The "chicken feed" receiving bag filter (SN-6) will be moved from its present location to the top of the new storage bin; a second bag filter (SN-14) will be moved from elsewhere in the mill and will be used to control emissions at this facility (the process it was previously controlling has been shut down). The opacity limit from both baghouses will be no visible emissions.

ESTIMATED COST \$ 23,450 TOTAL PROJECT \$ 167,000

INSTALLATION 2/83 OPERATION 5/83

RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 489-AR-1

AIR CODE X SIP X PSD _____ NSPS _____ NESHAPS _____

REVIEWED BY MAP APPROVED BY JDW DATE APPROVED 3/25/83

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Ethyl Corporation

Magnolia, Arkansas (Columbia County)

CSN 140028 CASE REFERENCES _____

FIRST SUBMITTAL December 28, 1982 AMENDED January 25, 1983

SUMMARY:

The Ethyl Corporation is proposing to construct a processing unit to produce Tetrabromobisphenol-A (TBBPA) and Methyl bromide (MeBr) at their plant in Magnolia. TBBPA is used as a flame retardant; Methyl bromide is used as a fumigant and a methylating agent.

There will be six emission points associated with this project, two existing and four new. The two existing sources are the methanol storage tank (SN-1) and the methanol column vent (SN-6). The four new sources will be the MeBr recovery system vent (SN-2), the vacuum pump exhaust (SN-3), the product dryer vent (SN-4), and the product bin vent (SN-5). The allowable emission rates are summarized in Table I.

CONDITIONS

1. This permit will expire one year after issuance. During this period Ethyl and the ADPC&E will cooperate in consolidating Ethyl's seven other air permits (and three modifications). The goal of this process will be the issuance of one consolidated permit which contains each emission source Ethyl has at their plant along with a unique source number for each point. Once this permit has been prepared all of Ethyl's previous air permits (including this one) will be rescinded and the consolidated permit will be issued.
2. In the event visible emission are observed from the product dryer vent or product gin vent. Ethyl will shut down defective equipment and all associated equipment.

ESTIMATED COST: \$ 400,000 TOTAL PROJECT: \$ 6,000,000

COMMENCEMENT OF INSTALLATION 3/83 COMMENCEMENT OF OPERATION 1/84

RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 708-A

AIR CODE _____ SIP X PSD _____ NSPS _____ NESHAPS _____

REVIEWED BY MAP APPROVED BY JDW APPROVAL DATE March 25, 1983

TABLE I
EMISSION RATE SUMMARY

SOURCE NUMBER	DESCRIPTION	POLLUTANT BEING EMITTED	EMISSION RATE lb/hr
SN-1	methanol storage tank vent	methanol	1.05
		methanol	13.02*
SN-2	methyl bromide recovery system	methyl bromide	14.85
SN-3	vacuum pump exhaust	methanol	6.11
SN-4	product dryer vent	methanol	0.69
		TBBPA	0.69
SN-5	product bin vent	TBBPA	0.44
SN-6	methanol column vent	methanol	0.18

* This emission rate will only occur when methanol is being loaded into the tank (at most 3.3 hours per week, 17 weeks per year).

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Riceland Foods
Helena, Arkansas (Phillips County)
CSN 540013 CASE REFERENCES _____
FIRST SUBMITTAL February 10, 1983 AMENDED _____

SUMMARY:

Riceland Foods is proposing to build a barge loading station along with associated support equipment at their soybean plant in Helena. The project will include two bucket elevators, four drag conveyors, two belt conveyors, and a set of bulk weighing scales. Emissions will be controlled by baghouses at the weighing tower and at the loadout tower also. A telescoping spout will be used when loading barges. Since this project will not result in an increase in emissions, the New Source Performance Standards for Grain Elevators will not apply.

The only emission allowed with this project will be from the two baghouses and the loading of the barges. The opacity limit from the baghouses will be no visible emissions; the opacity limit from the loading of the barges will be 20%. EPA Method 9 will be used to demonstrate compliance with the opacity limits.

ESTIMATED COST: \$ 200,000 TOTAL PROJECT: \$ 1,600,000
COMMENCEMENT OF INSTALLATION 4/1/83 COMMENCEMENT OF OPERATION 8/1/83
RECOMMENDATION Approval ASSIGNED PERMIT NUMBER 709-A
AIR CODE X SIP X PSD _____ NSPS _____ NESHAPS _____
REVIEWED BY MAP APPROVED BY JDW APPROVAL DATE 3/25/83

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 DIVISION OF AIR POLLUTION CONTROL

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY Malvern Chemical, Inc.

Malvern, Arkansas (Hot Spring County)

CSN 300013 CASE REFERENCES _____

FIRST SUBMITTAL February 16, 1983 AMENDED _____

SUMMARY:

Malvern Chemical is proposing to purchase and operate the formaldehyde and formaldehyde resin plants currently owned by Reichold Chemical Company. The plant will be operated in much the same way it was operated before it was temporarily closed by Reichold. Methanol will be converted to formaldehyde by reacting it with air over a catalyst. The air-formaldehyde mixture is then passed through a series of absorbers where nearly all the formaldehyde is recovered for sale. Some formaldehyde and unreacted methanol along with reaction byproducts carbon monoxide and dimethyl ether are vented to the atmosphere. The formaldehyde emissions will be about ten times less than they were when the plant was operated previously. Dispersion modeling was used to predict ground level concentrations; the predicted concentrations are much lower than any EPA or OSHA standard.

EMISSION RATE SUMMARY

Compound	Emission Rate lb/hr
Carbon Monoxide	197.8
Dimethyl Ether	129.8
Methanol	2.8
Formaldehyde	13.0

ESTIMATED COST: \$ N/A TOTAL PROJECT: \$ N/A

COMMENCEMENT OF INSTALLATION N/A COMMENCEMENT OF OPERATION 3/83

RECOMMENDATION Approval/Conditions ASSIGNED PERMIT NUMBER 710-A

AIR CODE X SIP X PSD _____ NSPS _____ NESHAPS _____

REVIEWED BY MAP APPROVED BY JDW APPROVAL DATE 3/25/83

EMITTED CONDITIONS

1. Within 60 days after start-up, Malvern Chemical shall have measured the amount of total hydrocarbons leaving source SN-3 using a sampling method approved by this Department.
2. Within 180 days after start-up, Malvern Chemical shall have installed a device capable of continuously monitoring, either directly or indirectly, the amount of pollutants being emitted to the atmosphere from source SN-3. The selection of the monitoring technique shall have been approved by this Department.

GROUND LEVEL CONCENTRATIONS (ppm)

COMPOUND	3 hr	24 hr	annual
Carbon Monoxide	3.73	0.806	0.0524
Dimethyl Ether	1.51	0.318	0.0207
Methanol	0.05	0.010	0.0006
Formaldehyde	0.23	0.049	0.0032

Arkansas Department of Pollution Control and Ecology
Division of Air Pollution Control

Summary Report Relative to Permit Application

Submitted By: Waste Resources and Recovery
Corning

CSN: 110066

Submittals: 2-24-83, 3-7-83, 3-11-83

SUMMARY: Waste Resources and Recovery (WRR) proposes the operation of a mobile distillation unit. A boiler, two stills, a condenser, cooling tower, and filtration equipment would be mounted on a trailer, and be transported to client facilities which have contaminated solvents in storage. The solvent would be filtered before being placed in one of the stills. The solid material and filter bags will remain at the facility. The distillation is accomplished by direct injection of steam into the still. The vaporized distillate is captured in the condenser which is cooled by water from the cooling tower. From the condenser, the distillate flows to one of two storage tanks, and then is returned to the client. The gases from the distillate storage tanks, and the waste fuel storage tank will vent through canisters filled with activated carbon. The allowable emission rate from each canister is one pound per hour of hydrocarbons. The material remaining in the still will be pumped to a storage tank on the trailer, transported to the WRR facility in Corning, blended and resold as fuel.

Prior to the transport of the WRR equipment to a site, the Department shall have given written permission, after examination of documentation of the composition of the solvent and given permission to WRR. The documentation will be in the form of a chemical analysis or purchase receipts for the raw material and descriptions of the possible sources of contamination. The waste fuel will be stored in bulk at the WRR facility in Corning, and shall not be shipped to a purchaser until such time that an analysis for a minimum of heat, sulfur, chlorine, and ash content has been performed. WRR shall also establish and maintain records which would allow the determination of the source and the fate of any given shipment of waste fuel.

(See Specific Conditions - next page)

Estimated Cost: \$5,000 Total Project: \$50,000
Installation: Operation:
Recommendation: Approval Permit Number: 711-A
Code *

Reviewed By: MAP&CDH Approved by: JDW Date Approved: 3-25-83

Waste Resources and Recovery
110066
Permit No. 711-A
March 25, 1983

Specific Conditions

1. Prior to transport of the mobile distillation unit to a site, WRR shall have received written permission from the Department to operate at such site.
2. Permission to operate at a site will be given only after sufficient documentation of the composition of the material to be processed has been received and examined by the Department.
3. No recovered solvents or other materials shall be shipped to a purchaser by WRR until an analysis of heat value, sulfur, halogen and ash content has been performed.
4. WRR shall establish and maintain records of the source of all solvents, waste fuel, or other materials stored on-site at the Corning facility and of the destination of all materials shipped off-site.
5. WRR shall have lawfully disposed of all wastes (hazardous or non-hazardous) now on the Corning site no later than May 1, 1983.

MISSOURI DEPARTMENT OF POLLUTION CONTROL AND AESTHETICS
DIVISION OF AIR POLLUTION CONTROL

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY International Paper Company

Gurdon, Arkansas (Clark County)

CSN 100005 CASE REFERENCES _____

FIRST SUBMITTAL 2/1/83 AMENDED _____

SUMMARY:

A prevention of Significant Deterioration (PSD) permit was issued by the U.S. Environmental Protection Agency on July 13, 1979 to International Paper Company, authorizing the modernization and expansion of the capacity of their Wood Products facility at Gurdon.

Under this permit (PSD-463AR-1), International Paper is permitted to operate two 30,000 lb/hr wet wood waste boilers with a carbon monoxide (CO) emission rate of 32.5 lb/hr. This emission rate was based on estimates made before the boilers were built. During compliance testing and subsequent two week testing period of parameters effecting boiler operation, it was determined that the allowable CO emission rate had been estimated too low. Based on the results of the two week parametric study, an emission rate of 200 lb/hr was found to be the lowest rate that could be achieved and maintained; therefore, the new allowable emission rate will be 200 pounds of CO per hour.

Neither the proposed project amendment nor general commercial, residential, industrial or other growth associated with the proposed project amendment will have significant adverse impact on visibility, soils, vegetation or air quality in the area of the proposed project. In fact, the predicted ambient air concentration from the proposed modification is 1.5% of the National Ambient Air Quality Standard for carbon monoxide.

ESTIMATED COST: \$ N/A TOTAL PROJECT: \$ N/A

COMMENCEMENT OF INSTALLATION N/A COMMENCEMENT OF OPERATION N/A

RECOMMENDATION Approval/
with conditions ASSIGNED PERMIT NUMBER PSD-463AR-1

AIR CODE X SIP X PSD X NSPS _____ NESHAPS _____

REVIEWED BY MAP APPROVED BY JDW APPROVAL DATE 3/25/83