OKLAMOMY STATE IMPLEMENTATION PLAN

Read: MAK 20,1981

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TOB# C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE

Submission of the Revision to the State Implementation Plan for the State of Oklahoma for Incorporation by Reference

FROM Office of the Federal Register, EPA

TO Office of the Federal Register

Please add this document to the <u>Oklahoma</u> Implementation
Plan file and tab it in the appropriate sequence.

Identification of the Document:

Approval of a Variance to Regulations for Oklahoma-McAlester Army Ammunition Plant $\underline{OK-03-79}$

State Board of Karth

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JOHN K LEAVITY, V.

Oklahoma

State Department of Kealth

Northeast 10th Street & Stonewall Post Office Box 53551 Oklahoma City, Oklahoma 73105

September 21, 1979

Ms. Adlene Harrison
Regional Administrator
U.S. Environmental Protection Agency
Region VI
1201 Elm Street
Dallas, Texas 75270

Dear Ms. Harrison:

Attached is a list of industrial variances granted by the Oklahoma State Board of Health. All variances were granted in accord with "The Oklahoma Clean Air Act," as recommended by the Air Quality Council after public hearings and the required notice period.

The attached table summarizes the status of each variance petition. All variances are accompanied by a compliance schedule as required by the Oklahoma State Air Quality Implementation Plan.

If there are any questions on these variances or their compliance schedules, please contact the Oklahoma State Department of Health, attention Air Quality Service, as specified in Governor Nigh's letter to you.

Sincerely,

John W. Gallion, Chies Air Quality Service

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Enc.

cc: Joan K. Leavitt, M.D. Commissioner of Health

Mr. Mark Coleman, Deputy Commissioner for Environmental Health Services

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Oklahoma State Air Pollution Variance Status

Variance Number	Company Name	Regulation Number	Council Hearing Date	Board of Health Approval	Variance Date
75-1	Texaco, Inc., West Tulsa Refinery, Tulsa	15	5~8~79	9-8-79	5-13-80
79–2	U.S. Army Ammunition Plant, McAlester Bomb Plant B	7 & 8	7–10–79	9-8-79	7-10-80
79–3	U.S. Army Ammunition Plant, McAlester Open burning contaminated wastes	1 .	7–10 –79	9-8-79	7-10-80
79~4)	U.S. Army Ammunition Plant. McAlester Open burning of explosive waste		7–10–79	9-8-79	7-10-80

State Board of Kuth

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JOAN K, LEAVITT, M.D.

Oklahoma State Department of Kealth

Post Office Box 53551 Oklahoma City, Oklahoma 73105

September 18, 1979

David H. Parker, Col. OrdC Plant Commander Department of the Army McAlester Army Ammunition Plant McAlester, Oklahoma 74501

Dear Col. Parker:

Re: Petition for Variance No. 79-2, Bomb Plant B'

On July 10, 1979, in public hearing, the Oklahoma Air Quality Council considered your petition to continue to operate at variance with Oklahoma Air Pollution Control Regulations Nos. 7 and 8. Upon receiving assurance from the representatives of your organization that the compliance schedule recommended by the Council would be strictly adhered to, the Council granted the petition. Subsequently, this favorable action by the Council was considered by the State Board of Health in a regular meeting September 8, 1979. At that time, the Board of Health granted the variance until July 10, 1980.

Therefore, please be advised that as the result of the action by the Air Quality Council and the State Board of Health, you have been granted permission to operate the facilities covered by the above-referenced petition at variance to Regulations Nos. 7 and 8 until July 10, 1980.

In order to assure that the increments of the progress set forth in your compliance schedule are being fulfilled, progress reports each two months will be required. Please transmit a copy of your bi-monthly progress reports to the Air Quality Service, Oklahoma State Department of Health, N.E. 10 and Stonewall, Oklahoma City, Oklahoma 73152.

If you have any questions regarding this matter, please feel free to call upon us.

Sincerely,

J. Scott Thomas, Director

I Latt Thomas

Monitoring & Compliance Division

Air Quality Service

Fact Sheet for McAlester Army Ammunition Plant McAlester, Oklahoma

Staff Recommendation:

On February 26, 1979 the McAlester Army Ammunition Plant was cited by the Environmental Protection Agency Region VI with a Notice of Violation of the Clean Air Act. The notice stated that Bomb and Mine Plant "B" emits aluminum particulate matter in excess of Oklahoma Air Pollution Control Regulation No. 8, and that combustible materials are open burned in violation of Regulation No. 1.

On May 10, 1979 the McAlester Army Ammunition Plant petitioned to operate following three sources at variance with applicable Oklahoma Air Pollution Control Regulations:

Petition for Variance No.	Source Operation	Regulation for Which Variance Is Requested
79–2	Bomb & Mine Plant "B"	Regulation No. 7, "Pertaining to the Control of Smoke, Visible Emissions, and Particulates," and Regulation no. 8, "Pertaining to the Control of the Emission of Particulate Matter from Industrial and other Processes and Operations
79 – 3	Open Burning of Contaminated Wastes	Regulation No. 1, "Prohibition of Open Burning"
79-4	Open Burning of Explosive Wastes	Regulation No. 1, "Prohibition of Open Burning"

In regard to Petition No. 79-2 (Bomb Plant "B") the Department of the Army proposes at a cost of \$537,000 to install a cyclone separator at the aluminum sifting buildings and wet scrubbers at the TNT buildings and melt and pour buildings. The variance is requested until August 1981 to allow time for design and construction of this project.

In regard to Petition No. 79-3 (contaminated waste) the Department of Army proposes to construct a contaminated waste processor with air pollution controls at a cost of approximately 2.0 million dollars. The variance is requested until May 1982 to provide time for design, funding and construction of this project.

In regard to Petition No. 79-4 (explosive waste) the Department of Army proposes to install a rotary kiln incinerator with air pollution controls at an estimated cost of 1.3 million dollars. The variance is requested until April 1981.

The following attachments have been received and reviewed by the staff:

- 1) February 26, 1979 Notice of Violation issued by EPA Region VI
- 2) May 1, 1979 from Col. Parker to Mr. Gallion requesting variances for the three sources in question
- 3) May 10, 1979 Petition for Variance Application No. 79-2, supplementary information and compliance schedules for Bomb Plant "B"
- 4) May 10, 1979 Petition for Variance Application No. 79-3, supplementary information and compliance schedules for burning of contaminated waste
- 5) May 10, 1979 Petition for Variance Application No. 79-4, supplementary information and compliance schedules for burning of explosive waste

The proposed controls will allow the sources in question to operate in compliance with Oklahoma Air Pollution Control Regulations. The staff recommends favorable consideration of Petition for Variance Nos. 79-2, 79-3, and 79-4 through the first portions of the Department of Army's compliance schedules until July 10, 1980 with final compliance dates of August 1, 1981, March 1, 1982, and April 1, 1981 respectively.

July 10, 1979

Council Action:

On July 10, 1979 in public meeting the Air Quality Council unanimously voted to recommend the petitions to the Board of Realth for adoption until July 10, 1980 with final compliance dates of August 1, 1981, March 1, 1982, and April 1, 1981 respectively.

HEALESTER ARMY AMERITICS PLANT MEALESTER, OLIGIBME 74301

BURG AND XIME "E" PLANT

III-B. Method of Measuring - The existion test contained a particulate sample sequence that provided sampling collections during a period of 48 to 64 minutes each. Samples were extracted inchinetically (90 to 310 per cont) as described in Methods 1, 2, and 3 of the Federal Register, Vol. 41, No. 111, Fart II, 8 June 1976.

Y-B. Shutdows of "B" Plant, with a considerable less of local and state ecomony, would result in the less of work for 110 employees and a direct wage less of approximately 2.0 million delians per year. In the past, there was seen concern about the safety aspect of the abstracts method and equipment. The automation system supported was greatly in excess of funds available; therefore, it was unaccommissl.

Due to technological improvement and acceptance of cyclone separator, the abatement equipment can be installed within the swallsble funds. Furthermore, all existings are siner in nature and in size, and are contained well within the boundary of the Plant's 45,000 occurs, none of which are transmitted cetside the property. All higher Communds are concerned and involved, which remaits in concrate plans with not schedules and firm funding having been determined for shatement.

Otlahoun State Department of Nealth Environmental Health Gervices Air Quality Service Hertheast Joth Street & Stoncools Post Office Jam 33531 Oklahous City, Oklahous 73105

PETITION FOR VARIANCE

1.	Fetitioner: A. Home Hchlesser Ayes Ammenision Flant
	2. Address McAlester, Oklabous 74501
	C. Location of facility Sime miles South - Southwest
	City of McAlester, Pitthburg County, Otlahem 74501
	D. Individual authorized to act for petitioner:
	Name David H. Parser, Col., OrdC. Title Plant Comander
	Address McAlester Army Armunitien Float, McAlester, CE 74501
	Telephone: Ares Code 918 No. 421 2211
n.	Type of Operation or Process: Assumitted Flant Rusher of employees - 800
111.	Luiggionn
	A. Characteristics Aluminum powder particulars
	emission from bldg. 182 of the Book and Rine "B"-Plant
	3. Quantity or Existing Level Nations enjoying levels during normal operation of
	24 hours per day in 18.43 the/hr. The average entireion over 24 hours in 1.4
	lbs/hr. Nothed of measuring (see attached sheet)
	C. Manner of discharge to the atmosphere The process is wentilated by a single
,	dect to a curved lateral exhaust heed to stock step of building.
IV.	Air Pollution Control Equipment:
	A. Present equipment, if any Rone
	3. Proposed method or equipment to meet Regulations Installation of recien-
	separator at building 182.
Y.	Time Period for Variance:
	A. Date by which Fetitioner will be in compliance with Regulations August 1981
	B. Reacons for requesting variance The plant has no solution for anatoment by
	July 1, 1979 without ceasing production at the Beeb and Bine "B" Plant. (Continued on attached areas)
۲ĭ.	Plot or Property and Area Hap Charing Location are attached.
	I. David H. Parker, con . Grac Plant Comunder (Title)
	certify that the statements in this petition are true and correct to the best of
	my hrowledge and belief.
	Date: 10 May 1979
	(See Experse side for instructions)

27 Firsh 1979

PARTICULATE EMISSIONS AT "B" PLANT

Nature and scope of emission (aluminum particulate)

- 1. December 1972 Navy Environmental Support Office test results were 11.55 lbs per hour.
- 2. March 1977 Navy Environmental Support Office test results were 18.42 lbs per hour.
- 3. Outside professional consultants (based on on-site visual observations) officially question the validity of tests, and state that "....for that location and application, neither the tests nor the Standards are valid".
- 4. The Plant is considered a minor source of air pollution.
- a. Over the past year (1978), the Plant actually produced only for 62 8-hour shifts, times 5.5 hours duration of aluminum powder operation, which equals a total yearly time of 341 hours of aluminum particulate emission. Considering that the environment offers 365 days, times 24 hours/day, or 8,760 total hours available for air pollution, the Plant's particulate problem existed only 4% of the total time available.
- b. During 1979, when McAAP received the EPA NOV, a different type bomb product was being produced. The total program for 1979 is 88 8-hour shifts, times 2.75 hours duration of aluminum powder operation, which equals a total yearly time of 241 hours of aluminum particulate emission. This equates to the Plant's particulate problem existing only 2.75% of the total time available.
- c. The planned production schedule and resultant particulate emission for the year 1980 is projected at only 3.5% of the total time available.
- 5. "B" plant is centrally located on this 45,000-acre installation, and particulate fallout remains on the ground within a maximum radius of 300 feet of the source building. The particulate has no ecological impact whatsoever. The dust is non-toxic, and under the action of normal precipitation of dew, it rapidly oxidizes to aluminum oxide which is not only harmless but a normal component of the soil.

Plans and Schedules for Abatement

- 1. FY-72 Navy Military Construction funds are being transferred to Ft. Worth Corps of Engineers District in amount of \$531,000 for a Plant Particulate Abatement project.
- 2. The scope of this project is installation of cyclone separator at aluminum sifting buildings, and wet scrubbers at the TNT screening buildings and Melt and Pour buildings.

Jirel 2

- 3. Following schedule has been determined:
- a. Similar system at Hawthorne, Nevada, Army Ammuniiton Plant has been site investigated, and some preliminary design work has already started.
 - b. Design complete by June 1980.
 - c. Construction start September 1980.
 - d. Construction complete July 1981.
 - e. Operational by August 1981.

Significance of "B" Plant operation

- 1. No alternative exists for abatement before August 1981, other than shut-down.
- 2. McAAP is second largest ammunition storage and production facility in the free world.
- 3. Due to location and capabilities, NCAAP is very important to national defense.
- 4. McAAP provides approximately 24 million dollars per year for local economy.
- 5. McAAP is the largest employer for Pittsburg County and other surrounding counties.
- 6. The "B" Plant provides a substantial portion of Installation's total work-load. Shutdown of "B" Plant would result in loss of 110 employees and direct wage loss of approximately 2 million dollars per year.
- 7. The projected workload for "B" Plant for FY-79 is 7,000 H-6 bombs, and for FY-80 9,000 H-6 bombs.