EXHIBIT J

FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM – ELIMINATION REPORT FOR MOBIL MINING AND MINERALS COMPANY (THE FORMER MATHIESON CHEMICAL COMPANY) PASADENA, TEXAS This included comments on the report entitled "Preliminary Survey of Olin Mathieson Chemical Corporation, Pasadena, Texas" which was made November 18, 1977. (See Exhibit I above.)

This is new evidence and refers to the survey made November 18, 1977. The letter dated 16 July 1980 from Mr. Edmund A. Vierzba,,, Environmental Control and Analysis Directorate to Dr. William E. Mott, U. S. Department of Energy asks questions that should have been answered in the 1950s. This letter indicates the possibility that conditions in the plant could have been more harmful than reported by the Company. It seems that some information has finally come out about the work that was kept so secret. Now, the Company seems to be more receptive to the fact that work done under the uranium contract (or contracts) could have contributed to the conditions of the hazardous materials in the 240 acre pile of radioactive waste. Nobody knows what to do with this contaminated pile of waste materials. No one wants to take responsibility for it. It is so big. It seems that it cannot go anywhere except to an approved disposal site. In the meantime, it is dangerous and could contaminate the ground water or the Houston Ship Channel. This appears to be the same problem that Blockson Chemical Company in Joliet, Illinois and Hematite near St. Louis, Missouri (among others) have had with their radioactive waste. It is interesting that all of these companies were basically in the same business, yet no records of contracts or anything else can be found for Mathieson Chemical Company, Pasadena, Texas. Blockson Chemical Company and Hematite have been designated as additions to the Special Exposure Cohort. Comments in other exhibits make reference to this Exhibit J

Attachments:

- Formerly Utilized Sites Remedial Action Program Elimination Report for Mobil Mining and Minerals Company (The former Mathieson Chemical Company) Pasadena, Texas
- (2) Letter dated May 21, 1980 from Mr. L. D. Hinson, Pasadena Chemical Corporation to Mr. William E. Mott, Department of Energy
- (3) Letter dated 16 July 1980 from Mr. Edmund A. Vierzba, The Aerospace Corporation to Dr. William E. Mott, Department of Energy Comments On the Report Entitled "Preliminary Survey of Olin Mathieson Chemical Corporation, Pasadena, Texas"

- (4) Letter dated March 19, 1981 from Mr. Thomas G. Frangos, Department of Energy to Mr. Sheldon Meyers, NE-30, Department of Energy
- (5) Letter dated March 27, 1981 from Mr. William E. Mott, Department of Energy to Mr. L. D. Hinson, Pasadena Chemical Corporation
- (6) Letter dated March 27, 1981 from Mr. William E. Mott, Department of Energy to Mr. David K. Lacker, Texas Department of Health
- (7) Letter dated June 29, 1981 from Mr. Edgar D. Bailey, Texas Department of Health to Mr. William E. Mott, Department of Energy
- (8) Letter dated August 11, 1981 from Mr. William E. Mott, Department of Energy to Mr. Edgar D. Bailey, Texas Department of Health
- (9) Letter dated December 6, 1983 from Mr. Edgar D. Bailey, Texas Department of Health to Mr. John Baublitz, Department of Energy
- (10)Letter dated January 26, 1984 from Mr. John E. Baublitz, Department of Energy to Mr. Edgar D. Bailey, Texas Department of Health
- (11)Letter dated 8 March 1984 from Mr. Andrew Wallo, III, The Aerospace Corporation to Mr. Arthur Whitman, Department of Energy with "Review of Material on the Pasadena Chemical Co. (Former Mathieson Chemical Co.) Site to Support DOE FUSRAP Eligibility Analysis"
- (12)Letter dated January 8, 1986 from Mr. Edward G. Delaney, Department of Energy to Mr. John Murray, Mobil Mining and Minerals Company (Formerly Mathieson Chemical Company site)

TX.1-1

FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM

ELIMINATION REPORT FOR IINING AND MINERALS CO

MOBIL MINING AND MINERALS COMPANY
(THE FORMER MATHIESON CHEMICAL COMPANY)
PASADENA, TEXAS

Department of Energy
Office of Nuclear Energy
Office of Remedial Action and Waste Technology
Division of Facility and Site Decommissioning Projects

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ELIMINATION REPORT MOBIL MINING AND MINERALS COMPANY (THE FORMER MATHIESON CHEMICAL COMPANY) PASADENA, TEXAS

INTRODUCTION

The Department of Energy (DOE), Office of Nuclear Energy, Office of Remedial Action and Waste Technology, Division of Facility and Site Decommissioning Projects (and/or predecessor offices and divisions), has reviewed the past activities conducted on behalf of the Atomic Energy Commission (AEC) at the former Mathieson Chemical Company (now Mobil Mining and Minerals Company), Pasadena, Texas. A preliminary radiological survey revealed some residual contamination in a sink and drain line that exceeds current DOE radiological guidelines. However, on the basis of a review of available historical information, DOE has determined that it does not have legal authority to conduct remedial actions at this site. Therefore, this site will not be included in the Formerly Utilized Sites Remedial Action Program (FUSRAP).

This report presents information on the radiological status of the site and summarizes the results of DOE's authority investigation. Although the contamination exceeds guidelines, it does not pose a measurable radiological hazard to site occupants or the general public under current conditions of site usage.

U.S. Department of Energy Guidelines for Residual Radioactivity at Formerly Utilized Sites Remedial Action Program and Remote Surplus Facilities Management Program Sites (Rev. 1, July 1985).

This elimination report will be archived by DOE through the Assistant Secretary for Management and Administration. A copy of this package will be available for public review between 8:00 a.m. and 4:00 p.m., Monday through Friday (except Federal holidays), at the DOE Public Reading Room located in Room 1E-190 of the Forrestal Building, 1000 Independence Avenue, SW., Washington, D.C.

BACKGROUND

Site Function

Mathieson Chemical Company had one of a number of research and development contracts let by AEC from mid-1951 to mid-1953 to develop processes for extracting uranium from the wet-process phosphoric acid stream of a phosphate fertilizer plant. The specific objective of the Mathieson work was to appraise the feasibility of the ammonia neutralization process developed by the Massachusetts Institute of Technology. The work included bench-scale pilot plant operations that produced less than 50 pounds of uranium.

Site Description

The site is located on the Houston Ship Channel near Pasadena, Texas. The pilot plant was located in a single 12 x 14 ft. room in a one-story building used as a process development facility and analysis laboratory. The equipment was removed after the project was completed (about 1955). The disposition of this material has not been determined. The room currently contains an L-shaped laboratory bench (with sink) running along two walls and a chemical hood located on a third wall. The room is now being used for storage of janitorial equipment.

Mathieson Chemical Company became Olin Mathieson Chemical Corporation in August 1954. In September 1969, the name was changed

to Olin Corporation. In 1979, the site was acquired by Pasadena Chemical Corporation, a subsidiary of Mobil Oil Corporation. Pasadena was absorbed by its parent company in 1983 and the name of the facility was changed to Mobil Mining and Minerals Company. The site is still used for fertilizer production.

Radiological History and Status

Oak Ridge Operations Office and Oak Ridge National Laboratory personnel visited the site on November 18, 1977. Results of this preliminary survey indicated the presence of low-level contamination in the sink and drain. Although no real exposure potential exists under present use, DOE recommended that these structures, when removed, be handled as contaminated material, and disposed of at an approved burial site. In May 1980, Pasadena Chemical Corporation indicated to DOE that the contaminated structures would be disposed of in the appropriate manner if the structure were modified.

The Texas Department of Health conducted a gamma radiation survey of the AEC pilot plant area on September 20, 1978. No contamination was found that could be attributed to the pilot plant operation.

ELIMINATION ANALYSIS

An investigation of AEC-related operations at the former Mathieson Chemical Company site in Pasadena, Texas, was conducted to determine if the site was eligible for remedial action under FUSRAP. Records of the AEC Feed Materials Division stored in Oak Ridge, Tennessee, and in Suitland, Maryland, were reviewed along with contract files. Analysis of the information collected resulted in the conclusion that the available data was insufficient to provide DOE with authority to conduct remedial action at this site (see March 8, 1984, letter, Wallo to Whitman, under References below). The contract has apparently been destroyed in accordance with standard records management procedures.

Cursory review of other records groups indicates that it is not likely that duplicates of the contract or any other supportive materials will be found in future records searches.

Some conclusions may be reached based on information and contracts relating to phosphate operations at other sites that are available. In general, the phosphate contracts were intended to support industrial research. The contractor usually owned the facilities. There was no direct AEC involvement other than review of the data. AEC had an obligation to purchase any uranium produced, but had no responsibility for the operation of the sites or their final condition. The contractors were handling the same materials they normally handled in their everyday operations and AEC provided no special guidance (other than that pertaining to uranium accountability if any was to be produced). For the same reason, AEC did not specify any requirements for cleanup.

Based on the information summarized in this report, DOE's Division of Facility and Site Decommissioning Projects has determined that it does not have authority to conduct remedial action at the former Mathieson Chemical Company if it were determined to be necessary and has eliminated the site from further consideration under FUSRAP. The Texas Department of Health has been informed of the status of the site and will oversee any remedial action taken by the site owner, Mobil Dil Corporation. The Environmental Protection Agency will also be informed of the DOE authority decision.

REFERENCES

- o Kaufman, H.E. (Olin Chemicals Group), to W.E. Mott (Department of Energy), letter of April 12, 1979.
- o Oak Ridge National Laboratory, "Preliminary Survey of Olin Mathieson Chemical Corporation, Pasadena, Texas," March 1980.

o Hinson, L.D. (Pasadena Chemical Corporation), to W.E. Mott (Department of Energy), letter of May 21, 1980.

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- o Vierzba, E.A. (The Aerospace Corporation), to W.E. Mott (Department of Energy), "Comments on the Report Entitled "Preliminary Survey of Olin Mathieson Chemical Corporation, Pasadena, Texas," July 16, 1980.
- o Frangos, T.G. (Department of Energy), to S. Meyers (Department of Energy), "Designation for Remedial Action of the Pasadena Chemical Corporation (the Former Mathieson Chemical Company)" March 19, 1981.
- o Mott, W.E. (Department of Energy), to L.D. Hinson (Pasadena Chemical Corporation), letter of March 27, 1981.
- o Mott, W.E. (Department of Energy), to D.K. Lacker (Texas Department of Health), letter of March 27, 1981.
- o Bailey, E.D. (Texas Department of Health), to W.E. Mott (Department of Energy), letter of June 29, 1981.
- o Mott, W.E. (Department of Energy), to E.D. Bailey (Texas Department of Health), letter of August 11, 1981.
- o Bailey, E. (Texas Department of Health), to J. Baublitz (Department of Energy), letter of December 6, 1983.
- o Baublitz, J.E. (Department of Energy), to E.D. Bailey (Texas Department of Health), letter of January 26, 1984.
- o Wallo III, A. (The Aerospace Corporation), to A. Whitman (Department of Energy), "Review of Material on the Pasadena Chemical Co. (sic) (Former Mathieson Chemical Co.) Site to Support DOE FUSRAP Eligibility Analysis," March 8, 1984.

Pasadena Chemical Corporation

P.O. BOX 3447 PASADENA, TEXAS 77501 TELEPHONE (713, 472-364

May 21, 1980

Mr. William E. Mott, Director Environmental Control Technology Division Office of Environment Department of Energy Washington, D.C. 20545

Dear Mr. Morr:

This will acknowledge receipt of your letter of May 5, 1980, transmitting the preliminary radiological data obtained by your contractor during the survey of a portion of the Pasadena Chemical Corporation (formerly Olin Corporation) plant site in March of 1980.

As recommended in the contractor's report, we will treat the pilot plant's sink and accessible drain as contaminated material and will dispose of them in an approved burial site if they are removed from the facility in the future.

Very truly yours,

PASADENA CHEMICAL CORPORATION

L. D. Minson Plant Manager

lm

cc: J. L. Murray, Jr.

THE AEROSPACE CORPORATION



20030 Century Blud., Germantown, Maryland 20767, Telephone: (301) 428-2700

7848-02,80.eav.13 16 July 1980

Dr. William E. Mott Acting Director Environmental & Safety Engineering Division U.S. Department of Energy Germantown, Maryland 20767

Dear Dr. Mott:

COMMENTS ON THE REPORT ENTITLED
"PRELIMINARY SURVEY OF
OLIN MATHIESON CHEMICAL
CORPORATION, PASADENA, TEXAS"

Aerospace has reviewed the letter report cited above. Our comments are attached.

In view of the fact that the State of Texas would like additional survey assistance from the Department of Energy, and in view of the minor contamination found, it is suggested that no survey be conducted until after removal of the sink and drain-line is completed.

The site is currently used, but mainly for storage purposes. Contrary to the plans at the time of the survey, there are no plans to demolish the building, according to John L. Murray, Jr., Manager of Environmental Affairs with Pasadena Chemical Corporation.

There is the possibility that this site may warrant consideration as a candidate for remedial action. It is also recommended that the State be notified of suggested restrictions regarding the removal of the sink and drain-line.

If you have any questions on the attached comments, please contact me at 428-4716.

Sincerely,

Edmund A. Vierzba

Environmental Control and Analysis

Directorate

EAN'/pa

Attachment - as stated

cc: J. Counts

D. Mayhew

C. D. Jackson

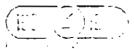
A. Abriss

L. C. Brazley

R. Cooperstein

A. Whitman

R. Barber



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bcc: T. Iura (w/o)

A. D. Abbott (w/o)

F. W. Hoch

R. L. Johnson (w/c

S. Rosenzweig (w/c

W. McNulty

J. S. Dock

A. Wallo III

C D Young

COMMENTS ON THE REPORT ENTITLED "PRELIMINARY SURVEY OF OLIN MATHIESON CHEMICAL CORPORATION, PASADENA, TEXAS"

The letter report is concise and well-written. A question and a comment were raised by the report.

- 1. Is there any explanation for the high Ac-227 concentration in the sink? The value of 185 pCi/g appears high for a phosphate operation.
- 2. It is not clear from the report that only the bench, drain-line and sink were found to have surface contamination above background. It should be stated that the floor and walls were found within typical background levels, if such is the case.

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EP-141

Designation for Remedial Action of the Pasadena Chemical Corporation (the Former Nathieson Chemical Company)

Sheldon Meyers, NE-30

The former Mathieson Chemical Company, Pasadena, Texas (presently called Pasadena Chemical Corporation), is hereby designated for remedial action under are the Formerly Utilized Sites Remedial Action Program. We note that this facilities. was utilized under an Atomic Energy Commission (AEC) contract for a period during the early 1950's; however, we have not been able to locate the contractMill Because it has not been established that the contamination present is a result was of work done under the AEC contract, it does not appear that the Department has the authority under existing legislation to conduct remedial action. If our ongoing record search should result in any additional information on this facility we will notify you.

In view of the location and magnitude of the contamination involved, we recom that if remedial action is taken at the facility it be given a low priority. Attached for your use is a preliminary survey of the facility and a letter from the plant manager in which he committs to treating the plant's sink and drain (only contamination found during the survey) as contaminated material. He are notifying the Texas Department of Health of the situation at the facility and recommending that they assume responsibility for its regulation.

Thomas G. Francis, Director Office of Environmental Compliance and Overview (EP-10)

2 Attachments

cc: Fred Haywood, ORML William Bibb, OR

Robert H2 RADIO NE-201

bcc: Steve Miller, GE-34 Aerospace

EP-141:GPTuri:dr:353-2766:3/11/81:DF-92

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MAR 27 1981

Mr. L. D. Hinson Plant Manager Pasadena Chemical Corporation P. O. Box 3447 Pasadena, Texas 77501

Dear Hr. Hinson:

I acknowledge receipt of your letter of May 21, 1980, and your intention to treat the pilot plant's sink and drain as contaminated material. Based on the radiological survey conducted at the facility under the Formerly Utilized Sites Remedial Action Program, the Department of Energy has determined that your facility should be considered for remedial action. However, we cannot locate the original contract and therefore are not able to establish that the contamination present at the facility is a result of work done under the Atomic Energy Commission contract. Consequently, it does not appear that the Department has the authority under existing legislation to conduct remedial action. We will inform you if our ongoing record search results in significant additional information or if legislation is enacted into law which would give the Departmenter's authority to conduct remedial action. In the meantime, we have informed the Texas Department of Health of the radiological status of your facility (see enclosed letter). Should you have any questions, please contact Gale Turi (301-353-2766) of my staff or myself (301-353-3016).

Sincerely,

Original signed 5 -

William E. Mott, Director Environmental and Safety Engineering Division (EP-14) Office of Environmental Protection, Safety, and Emergency Preparedness

Enclosure

R. W. Ramsey, NE-301 bcc: Steve Miller, GC-34 Aerospace

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Department of Energy Washington, D.C. 20545

J. C.

Air 02 1581 - Div of Oze Health
A Rad Control

MAR 27 1981

Mr. David K. Lacker, Director
Division of Occupational Health
and Radiation Control
Texas Department of Health
1100 West 49th Street
Austin, Texas 78756

Dear Mr. Lacker:

On April 4, and October 30, 1980, I transmitted information to you on the Pasadena Chemical Corporation (the former Mathieson Chemical Company) and the Department of Energy Program for sites formerly used by the Manhattan Engineer District and Atomic Energy Commission (AEC) in the Nation's nuclear energy program. Based on the enclosed radiological survey report of the Pasadena Chemical Corporation site, the Department has determined that the facility should be considered for remedial action.

The Mathieson Chemical Company was operated under an AEC contract in the early 1950's; however, we are unable to locate the contract. Because it has not been established that the residual radioactive material present at the facility is a result of work performed under the AEC contract, it does not appear that the Department has the authority under existing legislation to conduct remedial activities. Accordingly, we recommend that the Texas Department of Health assume responsibility for regulating the residual radioactive material at the facility.

Please contact Gale Turi (301-353-2766) of my staff or myself (301-353-3016) for any further discussion of this matter that you feel necessary.

Sincerely,

Willy the mark

William E. Mott, Director
Environmental and Safety
Engineering Division (EP-14)
Office of Environmental Protection,
Safety, and Emergency Preparedness

Enclosure



Texas Department of Health

Robert Bernstein, M.D., F.A.C.P. Commissioner

1100 West 49th Street Austin, Texas 78756 (512) 458-7111

Robert A. MacLean, M.D. Deputy Commissioner

137222

June 29, 1981

TX.1

Mr. William E. Mott, Director Environmental and Safety Engineering Division (EP-14) Office of Environmental Protection, Safety, and Emergency Preparedness Department of Energy Washington, D.C. 20555

Dear Mr. Mott:

Thank you very much for your letter of March 27, 1981, to David K. Lacker regarding the Pasadena Chemical Corporation (the former Mathieson Chemical Company) site.

We are disturbed that you feel that this site is not eligible for Department of Energy (DOE) remedial activities. It is our opinion that the contamination present at the site is a direct result of the Federal government's nuclear energy program conducted under the auspices of the Manhattan Engineer District (MED) and the Atomic Energy Commission (AEC). The Preliminary Survey attached to your letter clearly reflect the presense of radionuclides that one would expect to be associated with an uranium recovery facility of that time period.

Historical documents and interviews indicate that the pilot uranium recovery unit and associated support facilities were phased out around 1955, about 8 years before the State of Texas assumed regulatory control over radioactive materials in 1963. A review of our license files indicates that Texas Radioactive Material License No. 4-742 was issued on September 23, 1964, based upon an application from the company dated June 3, 1964. This license was for the possession and use of a 500 millicurie Cesium-137 sealed source in a Nuclear Chicago Corporation gauge. At no time from then until the license was terminated on August 19, 1981, was any other radionuclide authorized by Texas license.

Based upon our investigation of this site, we cannot help but conclude, even in the absence of copies of contracts between MED or AEC and Mathleson Chemical Company, that the radioactive contamination measured at the facility exists as a result of the contact work performed by Mathieson Chemical Company for MED/AEC. Therefore, we cannot accept your implied conclusion that DOE has no responsibility for remedial action at the site. We fail to see how the inability to locate paperwork can in any way relieve DOE of its legal responsible (or authority) to conduct remedial action activities at this site.

Mr. William E. Mott June 29, 1981 Page 2

Although we disagree with you about who is responsible for remedial action at this site, we are prepared to work with DOE and the company in every way we can to get the site decontaminated as soon as possible.

Sincerely,

Edgar D. Bailey, P. E. Director

rivision of Licensing, Registration

and Standards

cc: G. Wayne Kerr, USNRC

M. S. Davenport, Pasadena Chemical Corporation

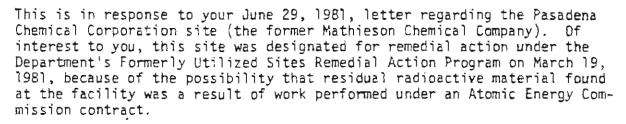


Department of Energy Washington, D.C. 20545

AUG 1 1 1981

Mr. Edgar D. Bailey, Director Division of Licensing, Registration and Standards Texas Department of Health 1100 West 49th Street Austin, Texas 78756

Dear Mr. Bailey:



The Office of the General Counsel has reviewed the information in your June 29th letter. It has reaffirmed its position that the Department does not have the authority to conduct remedial activities until additional legislation is passed by the Congress. As we stated in our March 27, 1981, letter, we are unable to establish conclusively that the residual radio-active material present at the facility is or is not a result of work performed under the Atomic Energy Commission contract. Further, without the contract, we cannot establish whether the Government-controlled operations at the site included responsibility for removal of residual radioactive material.

I am forwarding a copy of your letter to Mr. Robert W. Ramsey, Jr., the Remedial Action Program Project Leader, in the Office of Nuclear Energy. Mr. Ramsey is responsible for the conduct of the Department's remedial activities. You may wish to discuss the Pasadena Chemical Corporation situation with him (301-353-5272) or with Mr. Steven Miller (202-252-6947) of the Office of General Counsel.

Sincerely,

William E. Mott Office of Operational Safety (EP-32)

cc: R. W. Ramsey, NE-30.1, USDOE



Texas Department of Health

Robert Bernstein, M.D., F.A.C.P. Commissioner

1100 West 49th Street Austin, Texas 78756 (512) 458-7111

Radiation Control (512) 835-7000

Robert A. MacLean, M.D. Deputy Commissioner Professional Services

Hermas L. Miller Deputy Commissioner Management and Administration

December 6, 1983

Mr. John Baublitz, Director Division of Remedial Action Projects Assistant Secretary for Nuclear Energy (NE-24) Department of Energy Washington, D.C. 20545

Dear Mr. Baublitz:

We have noted with interest that the Pasadena Chemical Company, Pasadena, Texas, has been mentioned in connection with the Formerly Utilized Sites Remedial Action Program (FUSRAP) in two recent reports: Spent Fuel and Radioactive Waste Inventories, Projections, and Characteristics (DOE/NE-0017/2) and Report on the Follow-Up Inspection of the Formerly Utilized Sites Remedial Action Program (DOE/IG-0199).

From a series of letters between this Bureau and William E. Mott on March 27, 1981, June 29, 1981, and August 11, 1981, (copies attached), we had been led to believe that the Pasadena Chemical Company had been dropped from consideration in connection with FUSRAP. We are very happy to see that it has not.

We appreciate an update on the current status of and plans for this site and any guidance you can provide in regard to what activities this Bureau should be taking in connection with the site.

Sincerely,

Edgar D. Bailey, P.E., Director

Division of Licensing Registration

and Standards

Bureau of Radiation Control

Enclosures

cc: M. S. Davenport, Pasadena Chemical Company

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JAN 26 1984

Mr. Edgar D. Bailey, Director Division of Licensing, Registration and Standards 1100 West 49th Street

Dear Mr. Bailey:

Bureau of Radiation Control Texas Department of Health Austin, Texas 78756

I am replying to your letter of December 6, 1983, relative to maintaining the Pasadena Chemical Company, Pasadena, Texas, in the Formerly Utilized Sites Remedial Action Program (FUSRAP). Dr. Nott's letters of March 27, 1981, and August 11, 1981, stated that, although the site was "designated" for remedial action on Harch 19, 1981 (that is, it should be considered for remedial action), the Department of Energy's (DOE) Office of General Counsel concluded from review of available records that there is insufficient documentation to provide us the necessary authority to conduct remedial action at the site. Therefore, DOE has no plans to conduct remedial action at the Pasadena Chemical Company site.

The reports that you mentioned in your letter were based on out-of-date information, and included some sites, such as the Pasadena Chemical Company, where BOE cannot establish authority based on documentation, but which were included in a draft legislative proposal for congressional authorization prepared by DOE. This draft legislation is no longer being proposed for submittal to Congress. Therefore, we suggest that the State of Texas, Department of Health, should take the appropriate action to remove the radioactive contamination from this site. It appears that removal and disposal of the contaminated sink and drains as low-level radioactive waste would be the appropriate course of action to take to rectify the situation. The DOE will provide technical advice to the State on the cleanup, if you wish. Please call Mr. Arthur J. Whitman of my staff (301-353-5439) if there are any technical questions, or contact Mr. Steven Miller (202-252-6947) of the Office of General Counsel, regarding the question of authority.

bcc:

S. Miller, GC-34 *Comments included

Sincerely.

NE-24:AWhaman:ph:353-5439:1/24/84:AW39:
Original simes by

E. Keller, OR

J. E. Doublitz

A. Whitman, NE-24 Aerospace

John E. Baublitz, Director Division of Remedial Action Projects Office of Terminal Waste Disposal

NE-73 (4)

and Remedial Action

NE-24 RF Whitman RF

Office of Nuclear Energy

THE AEROSPACE CORPORATION



Suite 4000, 953 L'Enjant Plazo, S.W. Wasnington, D.C. 20024 Telephone (202) 488-6000

7086-01.84.aw.12 8 March 1984

Mr. Arthur Whitman
Office of Nuclear Energy, NE-24
Division of Remedial Action
U.S. Department of Energy
Germantown, Maryland 20545

Dear Mr. Whitman:

REVIEW OF MATERIAL ON THE PASADENA CHEMICAL CO. (FORMER MATHIESON CHEMICAL CO.) SITE TO SUPPORT DOE FUSRAP ELIGIBILITY ANALYSIS

Enclosed please find a summary report prepared to support your determination of eligibility or ineligibility for FUSRAP of the former Mathieson Chemical Co. site in Pasadena, Texas. The material reviewed and collected to date contains insufficient information to support inclusion and based upon efforts to identify additional data, it appears that it is not likely that any material supporting inclusion in FUSRAP will be identified in the future. If it is determined by your office that this site is not eligible for FUSRAP, I believe we should meet to discuss the next step in notifying the appropriate parties.

As you know, Mr. Miller and you have reviewed a preliminary draft of the enclosure. Mr. Miller has given tentative approval of this version. Please contact me with comments or questions concerning this material.

Sincerely,

Andrew Walto III - Project Engineer Environmental Controls and Analysis Directorate

Eastern Technical Division

AW:Sj

Enclosure

cc: J. Baublitz

E. DeLaney

Jennings (w/o)

S. Miller

bcc: P. Bauer

B. Fritz

בי הסכה

T. Iura (w/c)
M. Jennison

R. Johnson (w/o)
P. Martino

F. Newman (w/o)

C. Voung

FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM INELIGIBILITY REPORTS

PASADENA CHEMICAL COMPANY, PASADENA, TEXAS

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FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM INELIGIBILITY REPORT

FORMER MATHIESON CHEMICAL COMPANY (PASADENA CHEMICAL), PASADENA, TEXAS

Introduction and Summary

An investigation of AEC-related operations at the former Mathieson Chemical Company site in Pasadena, Texas, was conducted to determine if the site was eligible for remedial action under FUSRAP. Records of the AEC Feed Materials Division stored in Oak Ridge, Tennessee, and in Suitland, Maryland, were reviewed along with contract files. The analysis of information collected indicated there was insufficient data identified to provide DOE authority to conduct remedial action at this site. Cursory review of other records groups further indicates that it is not likely that the contract or any other supportive materials will be found in future records searches.

Reason for Investigation

The Mathieson Chemical Company site was identified as an AEC contractor during initial FUSRAP investigations. The site was investigated to determine if it qualified for remedial action.

Background on Mathieson Chemical Company (Pasadena Chemical)

Mathieson Chemical Company had a research and development contract from mid-1951 to mid-1953 with AEC to develop a process for extracting uranium from the phosphoric acid stream of a phosphate fertilizer plant. The contract included bench-scale pilot plant operations and produced less than 50 pounds of uranium. A few memoranda exist that discuss the project or contract but it appears the contract has been destroyed.

The site is located on the Houston Ship Channel near Pasadena, Texas. The pilot was located in a single room in a one-story building used as a process development facility and analysis laboratory. The equipment was removed after the project was completed (about 1955). The room currently contains an L-shaped laboratory bench (with sink) running along two walls and a chemical hood located on a third wall. The room is now being used for storage of janitorial equipment.

Mathieson Chemical Company became Olin Mathieson Chemical Corporation in August 1954. In September 1969, the name changed to Olin Corporation. The site is now owned by Pasadena Chemical Corporation.

Oak Ridge Operations Office and Oak Ridge National Laboratory personnel visited the site on November 18, 1977. Results of this preliminary survey indicated the presence of low-level contamination in the sink and drain. Although no real potential for exposure to persons under present use exists, it is recommended that these structures, when removed, be handled as contaminated material, and disposed of at an approved burial site.

The Texas Department of Health conducted a gamma ray radiation survey of the old Atomic Energy Commission pilot plant area on September 20, 1978. No contamination was found that could be attributed to the pilot plant operation.

The current owner of the facility has indicated to DOE that the contaminated structures will be disposed of in the appropriate manner if the structure is modified. The Department of Energy (DOE) has notified the State of Texas of the findings at this site.

Analysis

Only minimal records on this site were identified. The data reviewed to date does not indicate that DOE predecessor agencies had any responsibility for this site other than supplying some supplemental funds for the development of a process to extract uranium from phosphoric acid. No contract for this operation

has been identified. It appears the process under development belonged to Mathieson and it does not appear that it was developed beyond the research and development (R&D) stage. Contamination found on the site could be the result of the process R&D work because it is higher in uranium than in radium as would be expected from the process being developed.

Factors Required for Inclusion

During records searches and analysis to support DOE determinations regarding authority for remedial action, the need for and pertinence of specific materials are assessed considering five questions used by DOE in an authority review. A summary of the questions and implications of the data collected to date with regard to the questions are provided below.

- 1. Was the site/operation owned by a DOE predecessor or did a DOE predecessor have significant control over the operations or site?
 - The site was not owned, operated or controlled by DOE predecessors.
- 2. Was a DOE predecessor agency responsible for maintaining or ensuring the health and safety and environment at the site (i.e., were they responsible for cleanup)?
 - There is no evidence to indicate DOE was responsible for site health, safety, or cleanup.
- 3. Is the waste, residual, or radioactive material on the site the result of DOE predecessor related operations?
 - It cannot be conclusively determined that the contamination in the drains resulted from AEC contract work however, it is possible.
- 4. Is the site in need of further cleanup and was the site left in unacceptable condition as a result of DOE predecessor related activities?
 - Drains are contaminated with uranium and its daughter products in excess of NRC guidelines for surface contamination at facilities released for unrestricted use; however, they presently pose no health hazard.

5. Did the present owner accept responsibility for the site with knowledge of its contaminated condition and that additional remedial measures are necessary before the site is acceptable for nonrestricted use by the general public?

There is insufficient data to assess the current owner's responsibility for any remedial measures if needed.

TX.1-42517

Department of Energy Washington, D.C. 20545

TX.1 Generace

JAN 8 1986

Mr. John Murray Manager of Environmental Affairs Mobil Mining and Minerals Company P.O. Box 3447 Pasadena, Texas 77501

Dear Mr. Murray:

The Department of Energy (DOE), as part of its Formerly Utilized Sites Remedial Action Program (FUSRAP), has reviewed information on the Mobil Mining and Minerals Company (formerly Mathieson Chemical Company) to determine whether it contains residual radioactivity traceable to activities conducted on behalf of the Atomic Energy Commission (AEC) (a predecessor to DOE). The enclosed radiological survey indicated that a sink and associated drain and workbench area are contaminated with uranium, actinium, and radium. However, available information regarding the nature of the operations and the contractual relationship between AEC and Mathieson is not sufficient to establish DOE's authority under the Atomic Energy Act of 1954, as amended, to perform any remedial action required at the site. Therefore, DOE is eliminating it from further consideration under FUSRAP. It should be noted that the survey data indicated that the contamination does not pose a significant health hazard to workers or the general public under the use of the site at the time of the survey. However, in accordance with Department policy, the Environmental Protection Agency and the State of Texas Department of Health are being notified and provided a copy of the survey report by copy of this letter so that they may take whatever action they deem appropriate.

The information supporting this decision will be archived by DOE, and a copy of the elimination report will be available for public review between 8:00 a.m. and 4:00 p.m., Monday through Friday (except Federal holidays), at the DOE Public Document Room located in Room 1E-190 of the Forrestal Building, 1000 Independence Avenue, S.W., Washington, D.C.

If you have any questions regarding this decision, please call me on 301-353-4716.

Sincerely,

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Edward G. DeLaney, Director Division of Facility and Site Decommissioning Projects Office of Nuclear Energy

Enclosure

cc: w/enclosure

H. Snyder, EPA/HQ, Wash., D.C.

L. Wright, EPA Region VI, Dallas, Texas

E. Bailey, Texas Dept. of Health

bcc:

E. Keller, OR

B. Berven, ORNL

S. Miller, GC-11

Aerospace

Baublitz RF NEG (4)

NE-23:AWhitman:ph:353-5439:1/7/86:I8M:298/27:3.43

NOTE:

DOE F 1325.10 (7-79) THE ENCLOSURE FOR THIS LETTER IS THE SAME AS ATTACHMENT I - EXHIBIT I CONCURRENCES

RTG SYMBOL

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Whitman DATE

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