

3858

NJ. 12-4

NJ, 12

MEMORANDUM

TO: FILE  
FROM: C. Young  
SUBJECT:

DATE 12/4/82 *CPJ*

SITE NAME: CHEMICAL CONSTRUCTION COMPANY ALTERNATE NAME: CHEMICO NJ, 12  
CITY: LINDEN STATE: N.J.

OWNER(S)  
Past: CHEMICAL CONSTRUCTION CO. Current: UNKNOWN  
Owner contacted  yes  no; if yes, date contacted \_\_\_\_\_

TYPE OF OPERATION

- Research & Development
  - Production scale testing
  - Pilot Scale
  - Bench Scale Process
  - Theoretical Studies
  - Sample & Analysis
  - Production
  - Disposal/Storage
- Facility Type
  - Manufacturing
  - University
  - Research Organization
  - Government Sponsored Facility
  - Other \_\_\_\_\_

TYPE OF CONTRACT

- Prime
- Subcontractor
- Purchase Order
- Other information (i.e., cost + fixed fee, unit price, time & material, etc) CPFF

Contract/Purchase Order # AT(30-1)-1485

CONTRACTING PERIOD: 1953-1954 (1 MAR 1953 - 1 OCT 1953) - Extended to 1 MAY 1954

OWNERSHIP:

	AEC/MED OWNED	AEC/MED LEASED	GOVT OWNED	GOVT LEASED	CONTRACTOR OWNED	CONTRACTOR LEASED
LANDS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BUILDINGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
EQUIPMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ORE OR RAW MATL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FINAL PRODUCT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WASTE & RESIDUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Records indicate work under the contract was completed in late 1953 or early 1954. Residue (approximately 1 ton of low grade sludge) was not shipped to LOOW. till the fall of 1955.

AEC/MED INVOLVEMENT AT SITE

Control

- AEC/MED managed operations
- AEC/MED responsible for accountability
- AEC/MED overviewed operations
- Contractor had total control
- unknown

- Health Physics Protection
  - Little or None
  - AEC/MED responsibility
  - Contractor responsibility

MATERIALS HANDLED:

Type (on basis of records reviewed)

- No Radioactive
- Natural Radioactive from Feed Materials Production
  - Ore
  - Refined Source Material
  - Residue
- Natural Radioactive Material from Non-Nuclear Activities
- Man-Made
- Other \_\_\_\_\_

Comment Residue

Quantities (on the basis of records reviewed)

- None
- Production Quantities
- Small Amounts

Comment Probably not more than 3 to 4 thousand pounds of residue. (1000 # Am-75m St. Louis and 2400 # from Louisiana area)

OTHER PERTINENT FACTS:

- Facility was Licensed
  - During AEC/MED-Related Operations
  - For Similar Activities
  - For Other Activities

Comment No indication that the facility was licensed

- Commercial Production Involving Radioactive Material during AEC/MED Operations - Probable

- Facility was Decontaminated and Released

- Availability of Close Out Records

- None
- Some
- Sufficient

Radioactive Status:

	YES	MAYBE	PROBABLY NOT	NOT
Contaminated Potential for Exposure (accessible)	---	<input checked="" type="checkbox"/>	---	---
	---	---	<input checked="" type="checkbox"/>	---

QUANTITY OF RECORDS AVAILABLE:

- Very Little
- Some
- Sufficient

PROBABILITY OF FINDING ADDITIONAL RECORDS:

- Low
- Possible
- High

RECOMMENDATIONS:

- Eliminate
- Consider for Remedial Action
- Collect More Data

Comment: Recommendation based upon evidence that the process used was owned by CHEMICO, thus indicating that AEC involvement during performance under the contract was minimal & NO AUTHORITY.

REFERENCES:

See attached list

SUMMARY

Under contract # AT(34)-1485 (CPFA) CHEMICO performed research and development operations at their Linden, NJ, pilot plant to develop a process for recovering uranium, cobalt, nickel and copper from low grade residues for the AEC Waste Recovery Program at Millersport. Some 2,407 pounds of residues (U, C-30, R-10, P-78, etc) were shipped from Tanswade area to the Linden Plant from the Tanswade area; 1000 pounds of raffinate cake (AM-7) from the St. Louis area was also shipped to Linden. Process development was completed prior to Dec 23, 1953. One ton of low grade residues apparently remained at the Linden facility until the fall of 1955 when instructions to ship to LOOCW were provided CHEMICO by AEC. No indication of AEC involvement or control over contractor operations, records pertaining to contract negotiations indicate CHEMICO owned the process used. The process and certain rights regarding its use were passed to AEC upon completion of the work.

No indication of AEC involvement in contract operations, the proprietary nature of the process and evidence that the process involved was used in support of commercial operations at the plant suggest that DOE does not have authority to conduct remedial action if such were required.

Absence of any record of radiological characterization of the property and the volume of material processed ~~indicate that there~~ suggest that there may be potential for residual contamination. However, insufficient info has been found to justify further consideration under FUSRAP.

No positive indication that residues were moved.

CHEMICAL CONSTRUCTION CO.

HISTORICAL RECORDS SEARCHES FOR SITES TRANSFERRED TO DP

FILE#	DATE	FROM	TO	SUBJECT	SITES	REC. #
✓ NJ.12	/ /	SMITH, R.	HERSHMAN, H.	SHIPMENT OF SAMPLES OF VARIOUS WASTE RESIDUES	CHEMICO	75
✓ 3.1FD	05/31/53	AEC PRODUCTION DIV	SLESSER, DR.	MONTHLY REPORT - PRODUCTION DIVISION MAY 31, 1952	GE, DUPONT, NLD, CHEMICO, MIDDLESEX, SYLVANIA, BRUSH, ROCKY FLATS, CATALYTIC CONSTRUCTION, WESTINGHOUSE, CALIFORNIA RESEARCH, MCW, NORTON, HARSHAW, VITRO, BATTELLE, NATIONAL RES. CORP, MULTIPLE	2345
✓ PA.5	11/25/52	BROWN, S.	BELMERE, F.	PROPOSAL BY THE VITRO CORPORATION OF AMERICA FOR PROCESSING OF WASTE RESIDUES AT CANONSBURG, PA	CANONSBURG, VITRO, CHEMICO	2469
✓ NJ.12	12/18/52	BEYER, A.	FILES	VISIT TO CHEMICAL CONSTRUCTION CORPORATION WITH U.M.H.K. REPRESENTATIVES ON DECEMBER 12, 1952	CHEMICO, AFRICAN METALS	2495
✓ 3.0	01/05/53	BROWN, S	BELMERE, F.	MONTHLY REPORT FOR DECEMBER 1952	NEW BRUNSWICK, HANFORD, CHEMICO, FMPC	2506
✓ NJ.12	01/21/53	BRIEF, R.	FILES	PROCEDURES FOR SAMPLING WASTE RESIDUES (LOCATED AT LOOM CHEMICO AND HAIST)		2521
✓ NY.17	01/22/53	BROWN, S.	BELMERE, F.	COMPLETION OF WASTE RESIDUE SAMPLING ACTIVITIES AT LOOM LOOM, HAIST, NBL, CHEMICO AND HAIST RE: MEMORANDUM BRIEF TO BROWN "PROGRESS OF SAMPLING PROGRAM FOR WASTE RESIDUES", DATED DECEMBER 30, 1952		2522
✓ NJ.12	01/22/53	SMITH, R.	HERSHMAN, H.	SHIPMENT OF SAMPLES OF VARIOUS WASTE RESIDUES	CHEMICO, NBL	2523
✓ NJ.12	01/28/53	BELMERE, F.	MERRITT, P.	AUTHORIZATION FROM AFRICAN METALS CORP. FOR SHIPMENT OF CHEMICO 1,000 LB. SAMPLE OF AM-7 TO CHEMICAL CONSTRUCTION CORP.		2528

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HISTORICAL RECORDS SEARCHES FOR SITES TRANSFERRED TO DP

FILE#	DATE	FROM	TO	SUBJECT	SITES	REC. #
3.0	04/14/53	KIRK, R.	BELMORE, F.	FISCAL YEAR 1953 R&D EXPENDITURES AND UNDERRUNS PLUS ATTACHMENT - BRIEF DESCRIPTION OF ACTIVITIES	BRIDGEPORT BRASS, MALLENCRODT, SUPERIOR STEEL, CHEMICAL CONSTRUCTION, MIT	2600
✓NJ.12	08/04/53	BRIEF, R.	FILES	MEETING AT THE CHEMICAL CONSTRUCTION CORPORATION PILOT - JULY 31, 1953—DEVELOPMENT OF PROCESS TO RECOVER URANIUM AND OTHER BASE METALS FROM VARIOUS WASTE RESIDUES - PARTIAL LETTER	CHEMICO	2692
✓NY.17	09/21/53	BROWN, S.	BAIN, W.	TRANSMITTAL OF WASTE RESIDUE STORAGE MAPS	CHEMICO, LOOM	2723
✓NY.17	09/21/53	BROWN, S.	BAIN, W.	TRANSMITTAL OF WASTE RESIDUE STORAGE MAPS	CHEMICO, LOOM	2724
✓NJ.12	09/24/53	KIRK, R.	FRY, H.	REQUEST FOR AMENDMENT TO EXTEND CONTRACT AT (30-1)-1485 WITH THE CHEMICAL CONSTRUCTION CORPORATION	CHEMICO	2731
✓NJ.12	11/19/53	FRY, H.	DUNCOMBE, V.	RECOVERY OF WASTES BY THE CHEMICAL CONSTRUCTION PROCESS	CHEMICO, NLD-FREDERICKTOWN, MD	2770
✓NJ.12	12/23/53	SLESSER, C.	BECKERLEY, J.	CLASSIFICATION OF CHEMICO (CHEMICAL CONSTRUCTION CO) REPORT	CHEMICO, NLD, FREDRICKTOWN	2801
✓3.1NY00	12/30/53	BRIEF, R.	FILES	BRANCH MEETING MINUTES FOR DECEMBER 23, 1953	FAD, NLD, FREDERICKTOWN, CHEMICO, ELDORADO MINING, PORT HOPE,	2805
3.0	01/01/54	AEC	PARTIAL REPORT	SECTIONS FROM REPORT ON WASTE RECOVERY	ELDORADO MINING, MCM, VITRO, FMD, CHEMICAL CONSTRUCTION CO, CATALYTIC CONSTRUCTION CO, SYLVANIA, TUFTS COLLEGE, TONAWANDA AREA, MULTIPLE	2809

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FILE#	DATE	FROM	TO	SUBJECT	SITES	REC. #
✓3.0	05/28/54	KIRK, R.	SLESSER, C.	MONTHLY REPORTS FOR JULY, AUGUST, SEPTEMBER 1953, JAN, FEB, MAY, 1954 (METALS & CONTROLS, ALCOA, LEDOUX, AFRINET, SPERRY PRODUCTS, ROCKY FLATS, continued in SITES field)	HANDORD, MCM, FERNALD, MARSHAW, SIMMONS, HORIZONS, BATTELLE, WESTINGHOUSE, SUPERIOR STEEL, ADRIAN, BAYSIDE, CHEMICO, METALS AND CONTROLS, NLD, DUPONT, SYLVANIA-HICKSVILLE, LUCKEY, NBL, CATALYTIC	2943
✓3.1	INV00 06/22/54	FRY, H.	JOHNSON, J.	WASTE RESIDUES RECOVERY - INFORMATION FOR NEGOTIATION WITH THE AFRICAN METALS CORPORATION	AFRINET, LOOM, CHEMICO, ELORADO	2956
✓NJ.12	09/02/55	SAPIRIE, S.	CLARKE, J.	SHIPMENT OF RESIDUE FROM CHEMICO LINDEN PLANT TO LOOM	CHEMICO, LINDEN	3239
NY.17	1/21/85	Dodge, E.H.	DOWLING, F.R.	WASTE RESIDUE RECOVERY Summary (PAST PROCESS DEVELOPMENT WORK - Keltex, Chemico, BMT)		