

IL 13 -

Crane Company  
4100 South Kedzie Avenue  
Chicago 5, Illinois

- other locations: - 3501 West Pershing Avenue (1945) ←
- 836 South Michigan Avenue (1954)

The Crane Company may have been involved with MED activities in two separate functions: in the development of valves and in the supply of uranium and thorium metals.

Crane Company conducted valve development studies for General Electric at Hanford (Ref. letter S. R. Gaarder to P. J. Selak, 9-19-49). The following purchase orders are listed in "Partial List of Purchase Orders Placed by General Electric Co. for Construction Items (\$50,000 or More in Amt.) During Period January 1947 to Present," RLO Box: 1603, Folder: Manager Databook 1949 & 1950:

<u>Date</u>	<u>P.O. No.</u>	<u>Item</u>	<u>Cost, \$</u>
7-20-50	8966	Electrical Connector	77,935.60
2-28-50	HWC-8105	S/S Connectors	539,676.03
2-9-50	8105	Pipe Connector	95,997.24
10-23-50	D-22266	Electrical Connectors	106,400.45
11-24-50	D-22349	Pipe Connectors	127,259.71
11-24-50	D-22362	Pipe Connectors	429,958.24
11-24-50	D-22265	Pipe Connectors	194,682.70

Two contract numbers associated with Crane are W-7418-eng-17 and W-7418-eng-18. The total contract price of the latter was \$13,580,872.14.

Uranium-containing materials were used in the valve development process, presumably for the purpose of testing the valve designs. At

the completion of one project in September 1949, all contaminated material was packaged in two steel drums. The total weight was about 1000 pounds, with 346 grams of U in one drum contained in a slurry which resulted from cleaning and neutralization of contaminated material. These two drums were shipped to Oak Ridge Operations on November 9, 1949.

The Chapman Valve Manufacturing Company, located in Indian Orchard, Massachusetts, was purchased by Crane Company. Chapman was contracted by DOE predecessors to roll uranium rods. In addition, Heavy Minerals Company, a supplier of hydroxide sludge to the Mound refinery, is referred to as the Crane Company. Although most of the references to Crane, Chapman, and Heavy Minerals in the records identified to date can be clearly associated with the respective company, it is possible that confusion could result in the future from the apparent common ownership.

The other MED activity in which Crane was involved was as a supplier of uranium and thorium. A letter of July 12, 1949, indicates that Crane was to ship 264.155 kg of normal uranium to Hanford. Correspondence from 1954 indicates that Crane was interested in further supply to the government. Twenty pounds of monazite samples were ordered shipped to Crane, which was described as a concern interested in processing this material. In a memo from F. B. Huke dated April 20, 1954, it was indicated that the government had shown an interest in the purchase of uranium and thorium from Crane.

No known evidence has been found which would indicate that a DOE predecessor owned the Crane site or had control over operations

there. Similarly, there is no reason to believe that a DOE predecessor was responsible for the environmental integrity of the site. The present condition and present owners of the site are unknown.

In summary, based on the type of work performed and the quantity of radioactive materials handled or processed, it is concluded that the potential for finding radioactive contamination on the site is remote. Furthermore, no records have been found that would support a finding of DOE authority to conduct remedial action if required. Therefore, the Crane Company site in Chicago is recommended for elimination from further consideration under FUSRAP.

## Crane Company References

DATE	FILE#	FROM	TO	SUBJECT	SITES
1 / 1	3.0	FRY, H.		LINDSAY, RARE EARTHS, ETC COPY OF LETTER SENT TO CONTRACTORS (LINDSAY, RARE EARTHS, CRANE, MORSE, MCW, VITRO, BENDIX, REQUEST FOR PROPOSAL FOR PRODUCTION OF THORIUM COMPOUNDS)	LINDSAY, RARE EARTHS, CRANE, MORSE, MALLINCKRODT, VITRO, BENDIX
12/21/54	IL.13	DOMLING, F.	RODDEN, C.	STANDARD SAMPLES OF URANIUM AND THORIUM	CRANE CO.
07/02/54	NJ.4	SPIELMAN, W.	CONSIGLIO, J.	MONAZITE SAMPLES FORWARDED TO MIDDLESEX BY GSA - EMERGENCY PROCUREMENT SERVICE	MIDDLESEX, LINDSAY CHEMICAL CO., MORSE CHEMICAL CO., RARE EARTHS, VITRO (NY), CRANE COMPANY
06/05/49	MA.8	NICHOLS	CAMPBELL, V.	SAMPLE TELETYPE REGARDING SHIPMENTS TO CRANE CO.	CRANE CO
08/09/45	3.9	LIST		NOTIFICATION OF MODIFICATION TO CONTRACTS AND SUBCONTRACTS	DUPONT, YALE, HARSHAW, WESTINGHOUSE, BAKERSON & SON, CRANE, BAKELITE, CHRYSLER, COMBUSTION ENGINEERING, GE, ALLIS-CHALMERS, BRUSH, EIMER & AMEND, METAL HYDRIDES, METALS DISINTEGRATING NATIONAL RESEARCH CORP. MULTIPLE
07/19/45	3.2	ANDERSON, J.	BRODE, F.	LISTS FOR CONTACTS FOR VARIOUS SITES	MULTIPLE, ALLIS CHALMERS, HOUDAILLE-HERSHEY, KELLEX, CRANE, CHRYSLER
11/28/45	3.4	CAROTHERS, N.	DISTRICT ENGINEER	CONTRACT COMPLETION REPORT	MULTIPLE, CAMPBELL, CARRIER, COMBUSTION ENGINEER, CRANE, FOSTER WHEELER, GIRDLER, GRANGER, HERON-ZIMMERS, INTERNATIONAL NICKEL, KERBY SAUNDERS, METALS DISINTEGRATING, JELLIFF, KOPFERMAN, NATIONAL TUBE
12/28/45	3.4	FREDENBURGH, H.	SIMMERMAN, K.	ACCOUNTABLE PROPERTY RECORDS	MULTIPLE, BAKELITE, BART LAB, BESCH RUSS, CAMPBELL CO., CRANE, EISEN, ELLIOTT, FISHER GOVERNOR, FORD, BACON, GE, HERRON-ZIMMER, INTERNATIONAL NICKEL, JELLIFF, KELLOGG, KOPFERMAN, LUKENS, METALS DISINT,

02/13/46 3.4	McKEE, J.	DISTRICT ENGINEER	WAR VOLUME REDUCTION DISCOUNTS APPLICABLE TO PURCHASE ORDERS PLACED WITH INGERSOLL RAND CO. (LIST OF CONTRACTS)	MULTIPLE, INGERSOLL RAND, CAMPBELL, INTERNATIONAL NICKEL, METALS DISINTEGRATING, LUKENS STEEL, STOKES, WHITEHEAD, SHARPLES, BAKELITE, BEACH RUSS, CRANE, FISHER, SCHOCK GUSMER, SINGMASTER, KELLEX
05/14/46 3.4	TEETER, W.	AREA ENGINEER	PHYSICAL COMPLETION OF CONTRACTS	MULTIPLE, GE, ALLIS-CHALMERS, SHARPLES, BAKELITE, WESTINGHOUSE, TAYLOR, CRANE, YORK, BUFFALO FORGE, EISEN, FISHER GOVERNOR, PACIFIC PUMP, VALLEY IRON, WHITLOCK MFG., BEACH-RUSS
07/12/46 3.4	McKEE, J.	BEELER, LT. COLONEL	DOCUMENTS TO BE SIGNED (LIST OF CONTRACTS)	MULTIPLE, KELLEY, CRANE, BAKELITE, WHITLOCK, METALS DISIN, GE, WESTINGHOUSE, VALLEY IRON, PACIFIC PUMPS, ELLIOTT, LUKENS STEEL, BEACH-RUSS, LINDE, JONES, BURKE, BATTELLE, COLUMBIA, OHIO STATE, TVA
09/19/49 IL.13	GAARDER, S.	SELAK, P.	DISPOSAL OF URANIUM WASTE FROM CRANE COMPANY	CRANE CO
04/20/54 IL.13	HUKE, F.	FILE	DISCUSSION WITH CRANE COMPANY CONCERNING THORIUM	CRANE CO.
04/19/54 <sup>56</sup> OH.19	FAULKNER, R.	SEVERING, N.	FEED SUPPLY FOR MOUND REFINERY	MOUND, HEAVY MINERALS CO. (CRANE)
03/03/55 OH.19	SIEVERING, N.	FAULKNER, R.	FEED SUPPLY FOR THE MOUND THORIUM REFINERY	MOUND, CRANE