

IN-1-5

THE AEROSPACE CORPORATION



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7117-01.87.sej.16  
28 July 1987

Mr. Andrew Wallo, III, NE-23  
Division of Facility & Site  
Decommissioning Projects  
U.S. Department of Energy  
Germantown, Maryland 20545

*Letter to  
Office complete  
used letter to  
Archives*

Dear Mr. Wallo:

FINAL ELIMINATION REPORTS AND SITE SUMMARIES

Aerospace has completed its review and is forwarding the final elimination reports and site summaries for the following sites:

- AZ.01 • University of Arizona, Tucson, AZ
- AL.01 • TVA, Muscle Shoals, AL
- CA.02 • Dow Chemical Company, Walnut Creek, CA
- CO.01 • Colorado School of Mines, Golden, CO
- CT.06 • Havens Lab, Bridgeport Brass, Bridgeport, CT
- DE.01 • General Chemical (Allied Chemical), N. Claymont, DE
- IN.01 • Slater Steels (Joslyn Stainless Steels), Ft. Wayne, IN
- UT.01 • U.S. Bureau of Mines, Salt Lake City, UT
- UT.02 • University of Utah, Salt Lake City, UT
- DC.01 • National Bureau of Standards, Washington, D.C.

These documents incorporate changes suggested by you. The site summaries have a radiological survey report attached for transmittal to the site owner, and the elimination reports have supporting documentation attached for the Department's Public Reading Room in the Forrestal Building.

If you have further comments or suggestions, please call me; otherwise Aerospace considers actions with regard to the site characterization/designation review effort closed for these sites.

Sincerely,

*Susan E. Jones*

Susan E. Jones  
Government Support Directorate  
Architecture Planning and  
Technology Division

SEJ/smb

Enclosures

cc: J. Fiore  
R. Lewis (w/o)  
File

An Affirmative Action Employer

GENERAL OFFICES LOCATED AT 2350 EAST EL SEGUNDO BOULEVARD, EL SEGUNDO, CALIFORNIA

IN.01

FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM

ELIMINATION REPORT  
FOR  
FORMER JOSLYN STAINLESS STEELS  
(NOW SLATER STEELS CORPORATION)  
FORT WAYNE, INDIANA

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

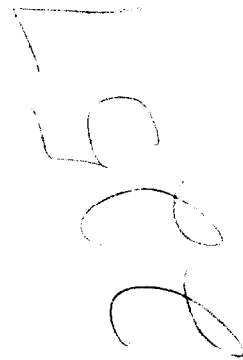
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ELIMINATION REPORT  
FORMER JOSLYN STAINLESS STEELS  
(NOW SLATER STEELS CORPORATION)  
FORT WAYNE, INDIANA

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 off reviewed the past activities of the Manhattan En the Atomic Energy Commission (AEC) at The Former Fort Wayne, Indiana. Based on a preliminary rad done in the late 1970's, DOE has determined that were in compliance with current DOE radiological and that no potential for radiological exposure predecessor activities described in this report. requires no remedial action and will not be inc Utilized Sites Remedial Action Program. This re supporting that determination.



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 Document Room located in Room 1E-190 of the Forrestal Building, 1000 Independence Avenue, S.W., Washington, D.C.

BACKGROUND

Site Function

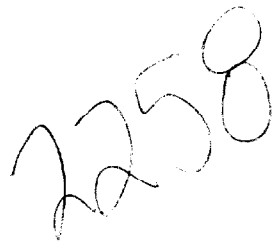
From 1944 to 1949, this site was used under contract 7401-37-9 (and possibly others) to MED/AEC to roll and machine uranium rods from billets. The billets were received by rail. Work was conducted under MED/AEC constant supervision, and scraps and ash generated were retained by MED/AEC personnel for uranium accountability. Small furnaces were used to heat the

material. Three mills (9-, 14-, and 18 inch) and straightening, cutting, threading, and grinding equipment were used in the operation. An outdoor area was used to burn waste.

The 14-inch mill is still in operation, and the uranium billet storage area is currently used as a roll shop. The 18-inch mill was sold to AMEX Specialty Metal Corporation, Coldwater, Michigan, and the 9-inch mill was brokered through the T.B. Hudson Company and is being shipped to Sonora, Mexico. The furnaces were constructed under its direction, were removed at the end of the operation, and the equipment has been scrapped, and its location has

### Site Description

The facilities are owned and operated by SL. The attached figure shows the former site layout. The areas used in the MED/AEC operations.

A handwritten number '22508' in black ink, located to the right of the 'Site Description' section.

### Radiological History and Status

A radiological survey was conducted by the AEC Health and Safety Laboratory on August 1, 1949 (at contract termination). At that time, certain areas of the site were reported to have radioactivity levels above guidelines then in use. Because no record of a decontamination was identified, DOE (then the Energy Research and Development Administration) Oak Ridge Operations Office and Oak Ridge National Laboratory personnel visited the site on October 23, 1976. They performed exploratory measurements to determine whether any significant contamination remained. Results indicated that radioactive surface contamination measurements were, in general, indistinguishable from instrument background. An isolated spot in the Roll shop (Area B) showed beta-gamma radiation approaching 0.1 mrad/h

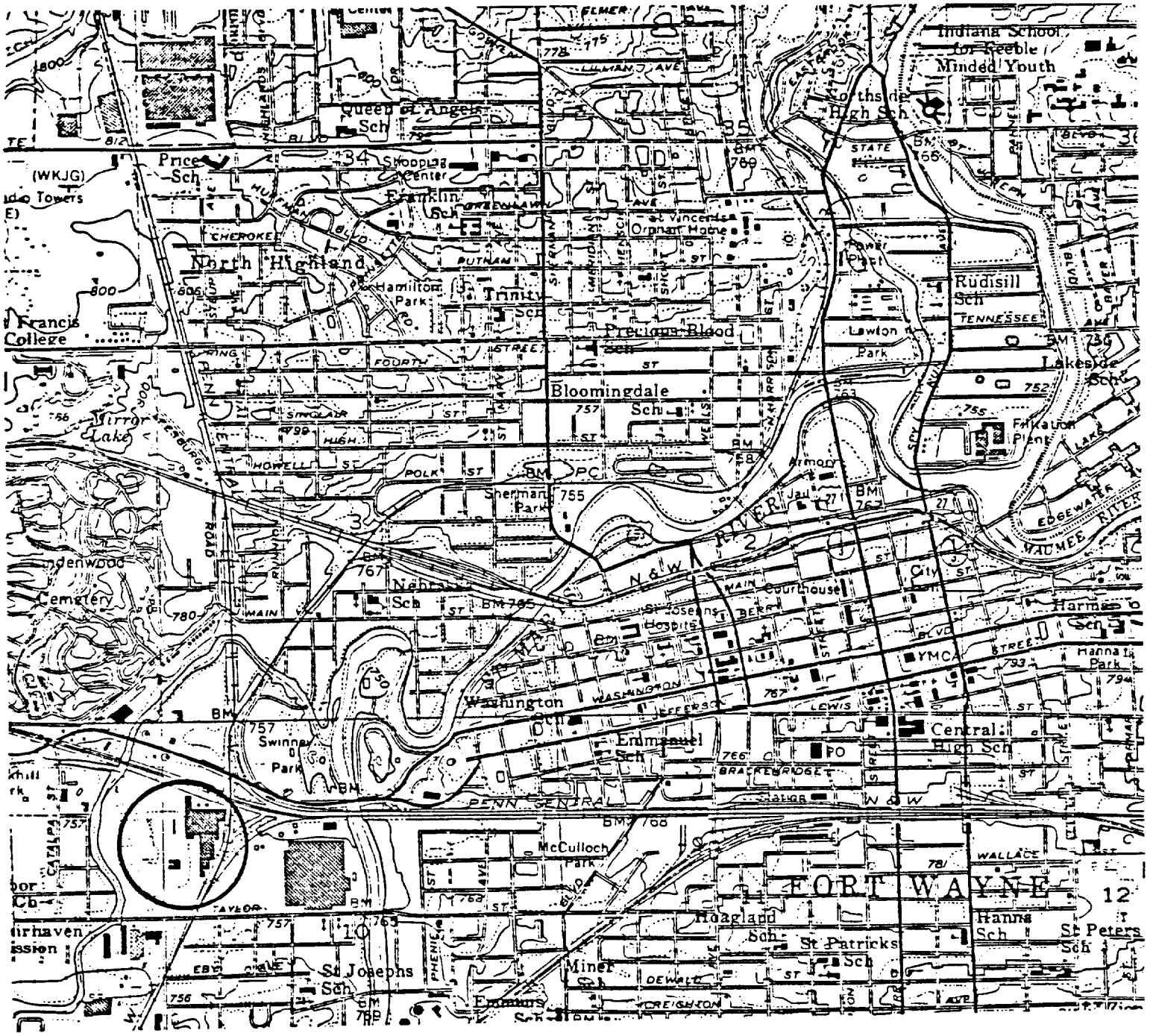
and the wall in Area F gave a maximum alpha reading of 300 d/m/100<sup>2</sup>. Both readings were below current guidelines.\*

#### ELIMINATION ANALYSIS

Based on a review of historical records and radiological survey results that showed that residual contamination was below DOE guidelines and standards for release of a facility for unrestricted use, DOE has determined that no remedial action is warranted at the former Joslyn site and has eliminated it from consideration for inclusion in the Formerly Utilized Sites Remedial Action Program.

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\*U.S. Department of Energy Guidelines of Residual Radioactivity at Formerly Utilized Sites Remedial Action Program and Remote Surplus Facilities Management Program Sites, February 1985.

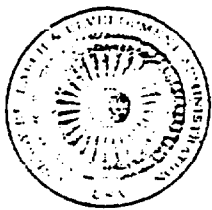


Site of Former Joslyn Stainless Steels

## REFERENCES

- Thornton, W.T., (Oak Ridge Operations) to R. H. Kennedy (ERDA Headquarters), "ERDA Resurvey Program: Joslyn Stainless Steel Company, Fort Wayne, Indiana," March 10, 1977.





UNITED STATES  
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION

OAK RIDGE OPERATIONS  
P. O. BOX E  
OAK RIDGE, TENNESSEE 37830

AREA CODE 615  
TELEPHONE 483-8611

March 10, 1977

Assistant Director for Health Protection, DSSC-HQ  
ATTN: R. H. Kennedy, DSSC-HQ

ERDA RESURVEY PROGRAM: JOSLYN STAINLESS STEEL COMPANY, FORT WAYNE,  
INDIANA

On October 23, 1976, H. W. Dickson and I visited the subject site to reassess the radiological status of those facilities utilized under AEC/MED contract during 1944-49 and to determine the need for a formal ERDA/ORNL survey. Discussions were held with Mr. Edwin E. Hodgess, Jr., Vice President-Operations who provided information on the AEC operations and identified those parts of the plant which were involved. Most of his information came from discussions with Paul Lauletta, a former Joslyn employee directly involved in the project. On the enclosed diagram showing the plant layout, the letters A through J indicate areas involved in uranium operation. Radiation measurements were made in all these areas using alpha and beta-gamma sensitive instruments and showed radiation levels to be generally indistinguishable from naturally occurring background levels. A trace of beta-gamma radiation approaching 0.1 mrad/hr was detected at an isolated spot in the Roll Shop (Area B). The maximum alpha reading found was 300 d/m/100 cm<sup>2</sup> and occurred on the wall in Area F.

Subsequent to the October 23 visit, a HASL memo reporting a radiation survey at Joslyn by A. R. Piccot on August 1, 1949, was provided to us by HQ (copy enclosed). Certain of the areas surveyed reportedly had readings of 20 mrad/hr and greater. It is doubtful that this was the final AEC radiation survey; however, discussions with current and former HASL staff (Al Breslin, Paul Klevin, and Hal Glauberman) have not completely clarified the matter. We have been unable to contact Mr. Piccot.

Conclusion: Since no radioactivity of significance was detected during the October 23, 1976, survey of Joslyn facilities and since tight accountability procedures required the return to AEC of any uranium cutting and grinding residues or oxide scale which was generated in the process, it is considered unlikely that pockets of radioactivity could exist under new concrete surfaces which would be of potential health and safety



Assistant Director for  
Health Protection

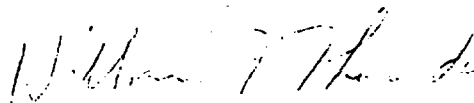
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March 10, 1977

consequence. (Note: findings from our survey at Simonds Steel, Lockport, New York, revealed nothing representing a potential radiation safety problem and it is our understanding that the work at Joslyn was similar but on a smaller scale.)

Recommendation: It is recommended that no further ERDA survey be performed at Joslyn.

If you concur, the enclosed letter will be sent to Joslyn confirming our conclusions.

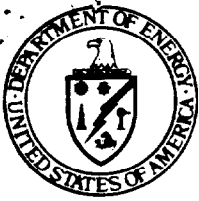


William T. Thornton  
Health Protection Branch  
Safety and Environmental Control Division

OSH:WTT

Enclosures:  
As stated

cc: J. W. Range, PIO  
W. H. Travis, S&EC



**Department of Energy**

Washington, DC 20545

Wallo

T.N. 01

OCT 13 1987

Mr. Joseph M. Fallon  
Director, Engineering Services  
Slater Steels Corporation  
Post Office Box 630  
Fort Wayne, Indiana 46801

Dear Mr. Fallon:

As you may know, the Department of Energy (DOE) is in the process of evaluating the radiological condition of sites that were utilized by the Manhattan Engineer District (MED) and the Atomic Energy Commission (AEC) during the early years of nuclear development to determine whether they need remedial action and whether the Department has authority to perform such action. As you may be aware, through earlier correspondence between Dr. William E. Mott of DOE and Mr. E. E. Hodgess, Sr. of Joslyn Stainless Steel, the former site of Joslyn Stainless Steels, Joslyn Manufacturing and Supply Company (now Slater Steels Corp.), Fort Wayne, Indiana, was identified as one such site, as a result of work during 1944-1949 involving the rolling and machining of uranium rods.

This letter, along with the enclosed summary report, represents the results of the Department's review to determine if the site contains residual radioactive contamination traceable to the actions conducted on behalf of the MED/AEC. The report is provided to you as the representative of the site owner, for your information. On the basis of the review, the Department has determined that no potential exists for significant amounts of residual radioactive material derived from activities conducted for the MED/AEC to remain at this site. As a result, the site was eliminated from further consideration under the Formerly Utilized Sites Remedial Action Program (FUSRAP). This package was prepared as the final DOE action on this site under FUSRAP.

Documentation supporting the Department's decision will be available for public review at the Department's Public Reading 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 or the availability of the material at the reading room, please contact Andrew Wallo of my staff at 301-353-5439.

Sincerely,

151

James J. Fiore, Director  
Division of Facility and Site  
Decommissioning Projects  
Office of Nuclear Energy

NE-23

*AW*  
Wallo

10/9/87

NE-23

Fiore

*JJF*  
10/31/87

**Enclosures**

cc:

Mr. Hal Stocks, Chief  
Radiological Health Section  
Division of Industrial Hygiene &  
Radiological Health  
Indiana State Board of Health  
1330 W. Michigan Street  
Indianapolis, Indiana 46206

bcc:

W. Cottrell, ORNL, w/o enclosures  
Aerospace, w/enclosures

NE-20 RF  
NE-23 RF  
Wallo RF  
NEG (4)

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