



START 9713540.0800

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Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

AUG 08 1996

96-EAP-295

Mr. Pat Svoboda
Environmental Specialist
Nuclear Waste Program
State of Washington
Department of Ecology
1315 West Fourth Avenue
Kennewick, Washington 99336

Dear Mr. Svoboda:

SUPPLEMENTAL INFORMATION ON THE 324 PILOT PLANT TREATMENT, STORAGE, AND/OR DISPOSAL UNIT

Reference: Letter from J. E. Rassmussen, RL, to P. Svoboda, Ecology, dated July 25, 1996, "Requested Information on the 324 Pilot Plant Treatment, Storage, and/or Disposal unit." 44886

This letter provides supplemental information in response to your information requests associated with your June 13, 1996, inspection of the 324 Pilot Plant. Preliminary information on the request was submitted to you in the above referenced letter. As stated in that letter, the unit no longer exists but was located in the approximate area of Room 146 in the 324 Building. A petition for the withdrawal of the unit's Part A Application (Form 3) was submitted in 1989 and the unit was removed in 1991. The unit continues to be included in discussions with Jeanne Wallace, of your department, concerning the procedural closure of Pacific Northwest National Laboratory (PNNL) non-operational treatment, storage, and/or disposal units.

Request: Information Regarding the Capped Pipes, Labeled TPS-1-55, TPS-2-70, and CBWASTE, in Room 146

The attached line drawing "RLWS/CBWS Piping First Floor Isometric," H-3-300602 (revision 0, sheet 2 of 4) depicts the routing of the subject capped pipes on the North side of Room 146. Note the routing of line TPS-1-55 indicated on the drawing does not agree with the information provided in the referenced letter. That letter indicated that the piping eventually connected to TK-108 in the 324 Building Low-Level Vault. The attached drawing (H-3-300602), created in 1995, depicts the line connecting to TK-101 in the 324 Building Low-Level Vault. The information in the referenced letter was obtained from a historical 324 Building operations manual. This discrepancy is being investigated.



AUG 08 1996

Mr. Pat Svoboda
96-EAP-295

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Request: The Discharge Location of the Reactor Vessel Drain Lines Indicated on Previously Supplied Figures

Discharge locations for the Sodium Pilot Plant are shown on the attached drawing "P & ID Decontamination Facility," H-3-42699 (sheet 1 and 2 of 2).

Also attached is a 1977 Hanford Engineering Development Laboratory facility modification permit that describes the discharge connections for the 324 Sodium Pilot Plant.

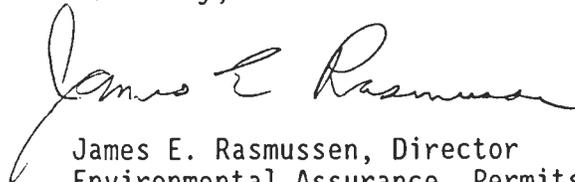
Request: Photographs of the Sodium Removal Pilot Plant Equipment

Attached is a pre-1985 photograph of the Sodium Pilot Plant.

Any additional details concerning your original June 13, 1996, information requests will be provided if they become available.

If you have any questions regarding this information, please contact Ellen Mattlin, of my staff, on (509) 376-2385, M. A. Barnard of RL on (509) 372-4391 or B. J. Day of PNNL on (509) 376-3835.

Sincerely,



James E. Rasmussen, Director
Environmental Assurance, Permits,
and Policy Division

EAP:EMM

Attachments

cc w/attach:

EDMC, H6-08

B. J. Day, PNNL

E. A. Flores, PNNL

J. J. Wallace, Ecology

P. J. Weaver, PNNL

cc w/o attach:

R. C. Bowman, WHC

L. M. Dittmer, WHC

S. V. Moore, Ecology

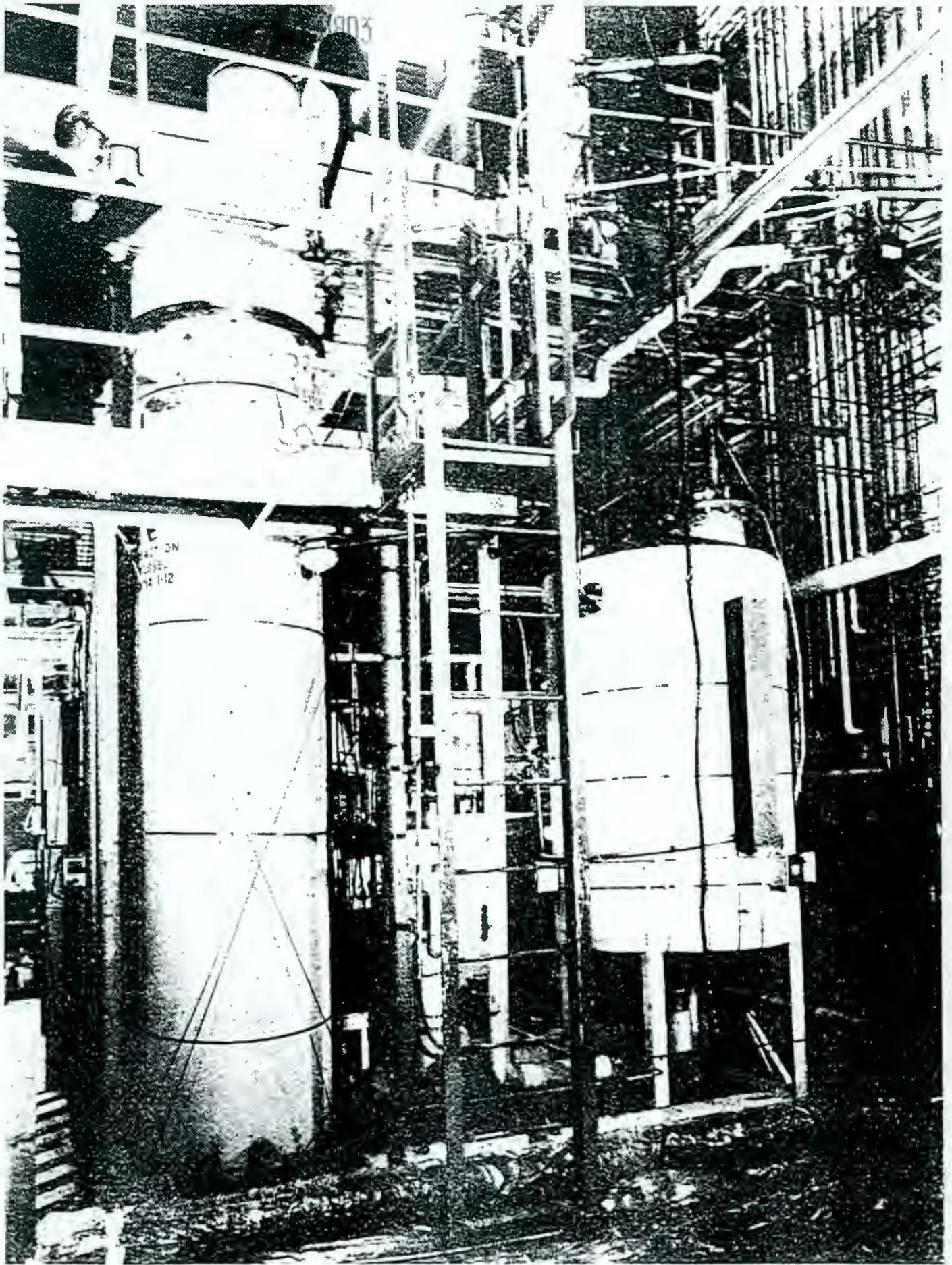
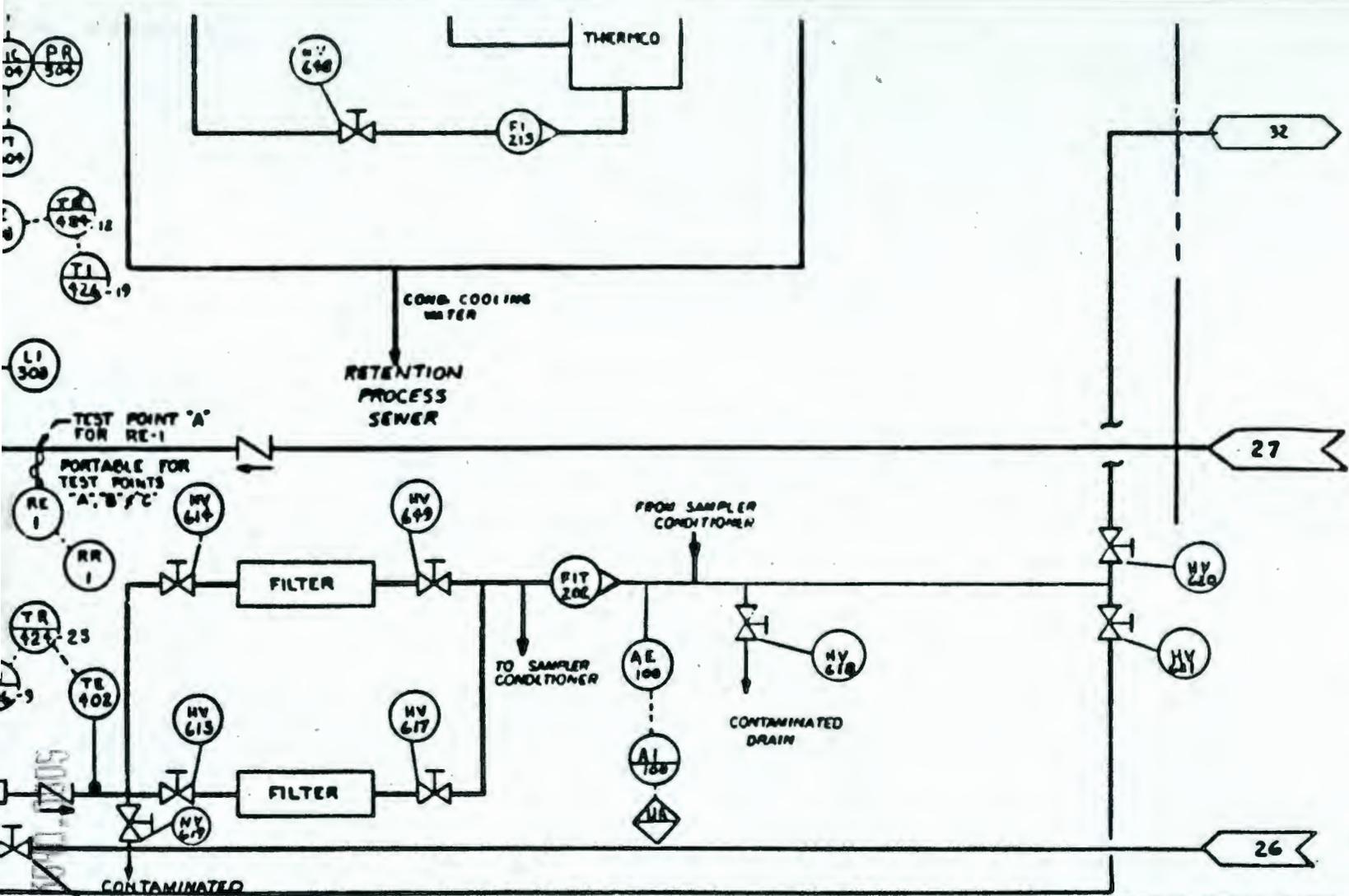


Fig. 5. As-built decontamination pilot plant

9713540.0804

Attachment 2



EXCEPT AS NOTED
 OR EFFORT REQUIRED
 TYPE OR CATEGORY
 UNLESS *GO Budget*
 OR *JM Tyle*

VOID - R.m-D-744
 04-8-92
Gas
1/14/92

APPROVED FOR CONSTRUCTION	DATE
BY <i>[Signature]</i>	10-8
FOR REG-RCF	77
DATE	0-7-77
APPROVED	
BY <i>[Signature]</i>	0-7-77
FOR BUDGET/LUTPOM	
DATE	
BY <i>[Signature]</i>	4-23-77
FOR T. BISSON	
DATE	
SCALE	NONE
CLASSIFICATION	NONE

U.S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION	
Stanford Engineering Development Laboratory	
Washington, D.C. 20545	
- PEID DECONTAMINATION FACILITY	
SCALE NO.	324
ISSUE NO.	7004
PROJECT NO.	H-3-42699
REV.	1 2

M											
REV	NO.	DATE	BY	DESCRIPTION	APP'D	DATE	BY	DESCRIPTION	APP'D	DATE	BY
REVISIONS											
REFERENCE DRAWINGS						DRAWING STATUS					
NEXT USED ON						COMMENT PRY. ISSUE NO.					

971/100-116

7 1

- RE RADIOACTIVE ELEMENT
- RI RADIOACTIVE INDICATOR
- RSH RADIOACTIVE SWITCH HIGH
- PR PRESSURE RELAY
- PI PRESSURE INDICATOR
- MIC MOISTURE INDICATING CONTROLLER
- LG LEVEL GAGE
- TE THERMOCOUPLE
- TR TEMPERATURE RECORDER
- TIC TEMPERATURE INDICATING CONTROLLER
- MT MOISTURE TRANSMITTER
- PDI PRESSURE DIFFERENTIAL INDICATOR
- LI LEVEL INDICATOR

CAUTION

Not complete without current status of outstanding ECNS from date base outstanding ECN listing

EFFECTIVE DATE JUL 31 1996

HANFORD RICHLAND, WA

EXCEPT AS NOTE
 QA EFFORT REQUIRED
 TYPE OR CATEGORY
 ENGINEER *P. J. Bergall*
 QA *J. M. Taylor*

VOID - Ram D. Hat
 5/11/02 M 08-20-02

9713540-0806

				M		PS RC	PS RC		REUPER DFC #16	1	U.S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION Hanford Engineering Development Laboratory Washington Hanford Campus <div style="text-align: center; font-weight: bold; font-size: 1.2em;"> P&ID DECONTAMINATION FACILITY </div>	
DRAWING TITLE OR SHEET NO.		APPROVED BY		DESCRIPTION		DATE		DRAWN BY		SCALE		
DRAWING NO.		DATE		REVISIONS		CHECKED BY		DATE		CLASSIFICATION		
NEXT USED ON		DRAWING STATUS		COMMENT PRT. ISSUE NO.		DATE		CHECKED PRT. ISSUE NO.		DATE		

APPROVED BY	DATE	U.S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION	
BY <i>W. J. Bergall</i>	10-11	Hanford Engineering Development Laboratory	
FOR <i>RC</i>	77	Washington Hanford Campus	
U.S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION	DATE		
BY <i>P. J. Bergall</i>	08-27-96		
FOR <i>RC</i>			
APPROVED BY	DATE		
BY <i>P. J. Bergall</i>	10-11-96		
FOR <i>RC</i>			
BY <i>BERGALL/WITTON</i>			
FOR <i>RC</i>			
BY <i>T. BISSON</i>	4-27-77		
FOR <i>RC</i>			
SCALE	NONE	DRAWING NO.	324
		SHEET NO.	7004
CLASSIFICATION	NONE	PROJECT NO.	H-3-42699
		REVISION NO.	2 2

7 1 21X
9

Permit No. J-48533 Date 10/11/77
 Estimated Cost \$78,850 Duration 9,000
 Location 324 Bldg., EDL-146

Construct a decontamination and Sodium Removal Facility in EDL-146, 324 Bldg. The present SRDA-12 tank will be converted to the system process tank. A solution makeup and storage tank will be installed where SRDA-1 is now located. The SRDA-1 and associated piping will be removed. A third tank (~50 gal) will be used for additives. Off-gas from the process and makeup tanks will be vented through condensers and filters to the zone 1 exhaust at the South Wall of EDL-146. Condenser cooling water will be drained to the RPS south side of EDL-146. The process and storage tanks will be drained to tank 102 in the Low Level Vault via line 2-70 in the south-east corner of EDL-146. Electrical, Distilled Water, and Sanitary water will be supplied from existing services in EDL-146.

DRAWINGS REQUIRED IDENTIFICATION NUMBER(S)	REFERENCE ON OTHER AFFECTED DRAWINGS
H-3-42315, H-342942, H-3-42699-1+2 H-3-42322 and H-3-42323	H-3-42315, H-3-42322, H-3-43124

SPECIAL INSTRUCTIONS OR COMMENTS:
 Detail drawings piping -- H-3-42942, 42255-1 & 2, 42199, 42313, 43068, 43067, Electrical H-3-42314, 42323, 42325, 42326-1 thru 3, 42320-1 thru 4, 42324, 42321-1 + 2, 42383

SPECIAL NOTE: ANY CHANGE IN DESIGN OR CONDITION, SUBSEQUENT TO APPROVAL, CONSTITUTES AN AUTOMATIC REVOCATION OF THIS PERMIT.
 MATERIALS AND WORKMANSHIP SHALL CONFORM TO ALL APPLICABLE HANFORD STANDARDS AND GUIDES UNLESS SPECIFICALLY AAIIVED BY MANAGER, LABORATORY ENGINEERING AND MANAGER, INDUSTRIAL SAFETY.

OTHER PERMIT NUMBERS: UTILITY OUTAGE WELDING

REVIEWED BY:

LABORATORY ENGINEERING AND DESIGN <i>[Signature]</i> 10/12/77	UTILITY OUTAGE PERMIT REQUIRED? <input type="checkbox"/> YES <input type="checkbox"/> NO	AS-BUILT REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	PRESSURE PIPING COMPLETION RECORD REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	WORK REVIEW REQUIRED? <input type="checkbox"/> YES <input type="checkbox"/> NO
OPERATIONAL HEALTH PHYSICS <i>[Signature]</i> 10-13-77	RWP REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	BUILDING MANAGER <i>WC Crowen</i> 10-12-77		
INDUSTRIAL SAFETY AND FIRE PROTECTION <i>[Signature]</i> 10-13-77	BUILDING OPERATIONS <i>[Signature]</i> 10-12-77			
ENVIRONMENTAL AND RADIOLOGICAL ENGINEERING <i>[Signature]</i> 10/12/77	ELECTRICAL DISTRIBUTION NA			
CONTRACTOR NA	ACCEPTED BY WORK FOREMAN (SIGN WILL BE VOID AS SPECIFIED BY THIS PERMIT)			
RIGHT TO DESIGN: THIS PERMIT IS RESERVED. <i>[Signature]</i>	NAME: _____ DATE: _____			
APPROVED BY PLANT OPERATIONS <i>[Signature]</i>	WORK COMPLETED IN TURN SIGNED FORM TO PLANT OPERATIONS			
	DATE: _____ CRAFT FOREMAN: _____			

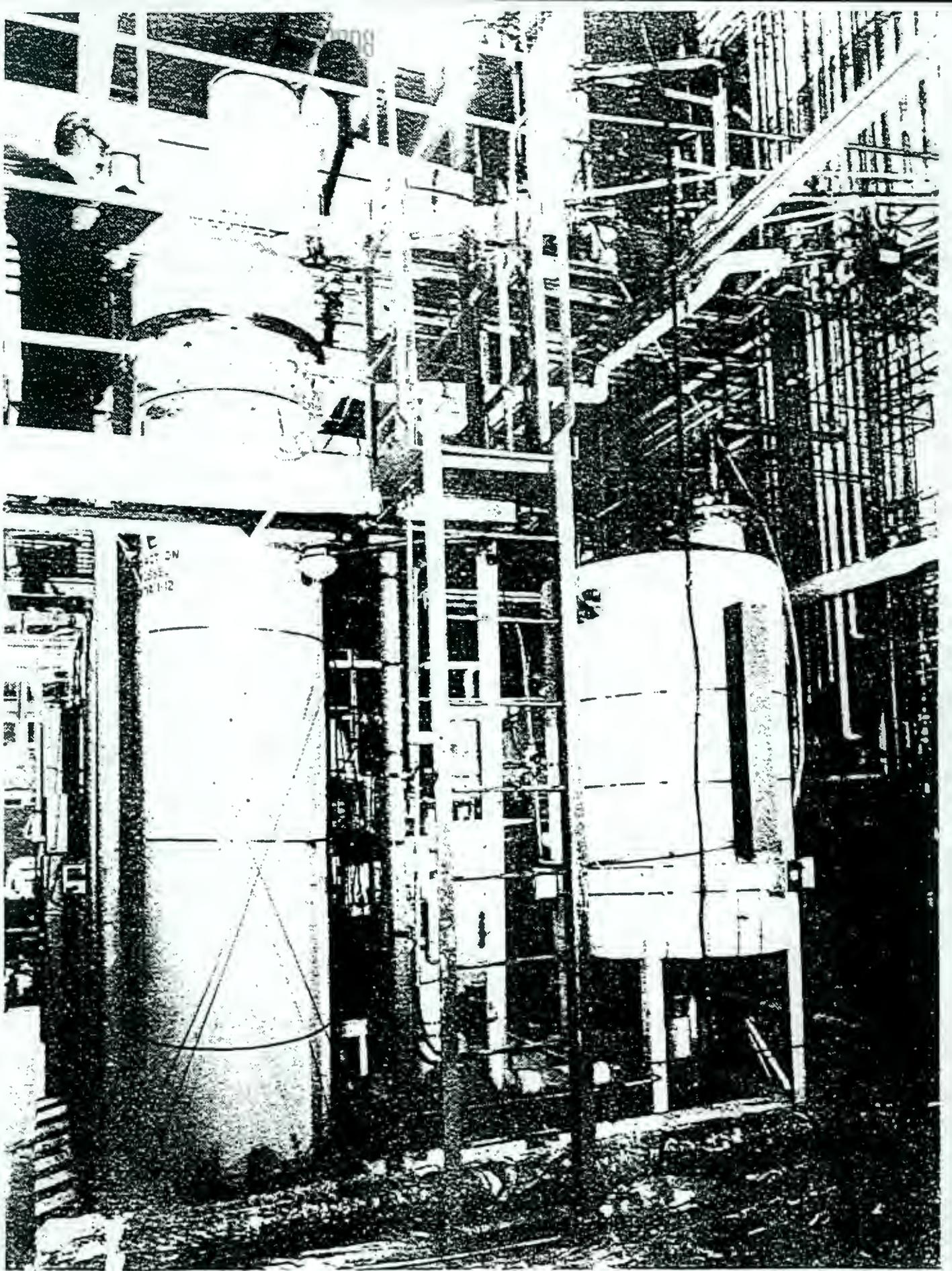


Fig. 5. As-built decontamination pilot plant