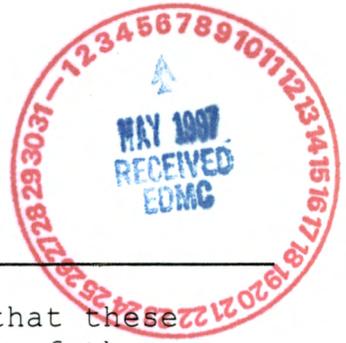


Meeting Minutes Transmittal

325 HAZARDOUS WASTE TREATMENT UNITS
 Project Managers Meeting
 337, Mt. Rainier Room
 Richland, Washington

April 3, 1997
 1:30 p.m. to 2:30 p.m.



The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Unit Managers Meeting.

Mary E. Jarvis
 Mary E. Jarvis, Project Manager, RL

Date: May 1, 1997

Greta P. Davis
 Greta P. Davis, Unit Manager, Washington State Department of Ecology

Date: May 1, 1997

325 Hazardous Waste Treatment Units, PNNL Concurrence

Brian J. Day
 For Shelly L. Warren, Contractor Representative, PNNL

Date: 5/1/97

Purpose: Discuss Permitting Process

Meeting Minutes are attached. The minutes are comprised of the following:

- Attachment 1 - Agenda
- Attachment 2 - Summary of Discussion and Commitments/Agreements
- Attachment 3 - Attendance List
- Attachment 4 - RLWS Tank Replacement Strategy Presentation

Attachment 1

325 HAZARDOUS WASTE TREATMENT UNITS
Project Managers Meeting
337 Building, Mt. Rainier Room (3rd Floor North)
Richland, Washington

April 3, 1997
1:30 p.m. to 2:30 p.m.

Agenda

1. Approval of Past Project Managers Meeting Minutes (Ecology/DOE-RL/PNNL) (J. McAtee)
2. Schedule Variance and Funding (Ecology/DOE-RL/PNNL) (J. Fulton)
 - Status of Baseline Change Control (M. Jarvis)
3. RLWS Tank Replacement Strategy (V. Briggs)
4. 325 HWTUs Part B Permit Application, WORKING DRAFT, Rev. 1 (Ecology/DOE-RL/PNNL) (H. Tilden/T. McKarns) See Action #08-01-96:1; 08-01-96:2
 - Issued Draft for Internal RL Review on 3/25/97
 - Status of Hanford Site WAP Guidance
 - RLWS Replacement Tanks (S. Jones)
5. Status of 325 HWTUs Part A Rev 4 Submittal (DOE-RL/PNNL) (H. Tilden) See Action #12-10-96:1
6. Status of Silver List Issues (Ecology/DOE-RL/PNNL) (H. Tilden)
7. TWRS Characterization Closeout (PNNL) (D. Crossley)
8. Efficiency Issues (Ecology/DOE-RL) (M. Jarvis)
9. Status of Action Items (Ecology/DOE-RL/PNNL)

08-01-96:1 Ecology will provide final comments on the 325 HWTU Part B permit application by the next workshop on 8/6/96. Waiting on guidance for the WAP.
ACTION: G. Davis (Ecology)

08-01-96:2 Resolve actions from the past 325 Part B workshop by the next workshop on 8/6/96. (Workshop was held on 10/17/96. Of 104 action items assigned, 1 remains unresolved. 4 figure revisions remain open)
ACTION: Ecology and PNNL
CLOSED: 3/6/97

12-10-96:1 Prepare a NOI Addendum for Ecology's review.
ACTION: H. Tilden (PNNL)

03-06-97:1 Finalization of WAP to be discussed with Cliff Clark (DOE-RL)
ACTION: A. Barnard (DOE-RL)

Attachment 1

325 HAZARDOUS WASTE TREATMENT UNITS
Project Managers Meeting
337 Building, Mt. Rainier Room (3rd Floor North)
Richland, Washington

April 3, 1997
1:30 p.m. to 2:30 p.m.

Agenda

10. General Discussion (Ecology/DOE-RL/PNNL)
11. New Action Items
12. Next Project Managers Meeting (Ecology/DOE-RL/PNNL)
 - Next Meeting
May 1, 1997
337 Building, Mt. Rainier Room, 3rd Floor North
Richland, Washington
 - Proposed topics may be submitted to J. D. McAtee, 372-3605,
376-6663 (Fax).

325 HAZARDOUS WASTE TREATMENT UNITS
PROJECT MANAGER MEETING
337 Building, Mt. Rainier Room
Richland, Washington

April 3, 1997
1:30 p.m. to 2:30 p.m.

Summary of Discussion and Commitments/Agreements

1. Approval of Past Project Managers Meeting Minutes

The March 6, 1997 Project Manager Meeting (PMM) minutes were approved.

2. Schedule Variance and Funding

J. Fulton (PNNL) stated that PNNL is between reporting cycles, and there is no final cost and schedule information to report.

• Status of Baseline Change Control

M. Jarvis (DOE-RL) reported that seven change requests have been submitted to DOE-RL. J. Fulton (PNNL) stated that the change requests will be logged into the central site system and dispositioned accordingly. The multi-year project plan will be modified to reflect the removal of the work scope that was not funded.

3. RLWS Tank Replacement Strategy

V. Briggs (PNNL) distributed a handout (Attachment 4) and gave a presentation on the RLWS load out modification project and 204 AR modification. The new tank installation will allow for an approximate \$8 million a year savings in shutting down the 340 Facility. Approximately 50 gallons of water was flushed for each gallon of waste, which will result in significant waste minimization pollution prevention once the tank is installed and the waste is sent to tank farms. Completion of construction is scheduled for August 1998, operational readiness is scheduled for December 1998.

J. Fulton (PNNL) inquired about the operating and sample station and the planned daily inspections. V. Briggs (PNNL) explained that inspection activities are planned to have sensing devices and tv cameras in the pit. The sampling control room will have a hood where the samples can be taken and piped into the hood. Characterization activities will also take place in this area. For neutralization, there will be leak detection, level sampling, and a backup system in the event of a system failure. The pit is lined with stainless steel up to approximately two feet of the tank.

325 HAZARDOUS WASTE TREATMENT UNITS
PROJECT MANAGER MEETING
337 Building, Mt. Rainier Room
Richland, Washington

April 3, 1997
1:30 p.m. to 2:30 p.m.

Summary of Discussion and Commitments/Agreements

M. Jarvis (DOE-RL) inquired about the scheduled activities extending into FY98. J. Fulton (PNNL) stated that all of the funding required is due to be appropriated in FY97, and therefore any carry-over is not reflected in the FY98 and outyear plan.

M. Jarvis (DOE-RL) stated that the NEPA document has been issued pertaining to the RLWS and its comprehensive discussion of the 325 Building mission which may be of interest to Ecology representatives. J. Wallace (Ecology) requested a copy of the NEPA document. J. Wallace requested a briefing during future PMMs regarding correspondence pertaining to NEPA or the Clean Water Act, etc. J. Luke (Rust Federal Services) is coordinating activities for rewriting the National Pollutant Discharge Elimination System (NPDES) Permit Application for the Hanford Site.

4. 325 HWTU's Part B Permit Application, WORKING DRAFT, Rev. 1

- Issued Draft for Internal RL Review on 3/25/97

H. Tilden (PNNL) reported that the revised permit application is in RL review, with the exception of the waste analysis plan (WAP). G. Davis (Ecology) requested a copy of the draft permit application for review. M. McCoy (PNNL) will provide a copy.

- Status of Hanford Site WAP Guidance

The WAP guidance has been finalized by Ecology and DOE-RL, and the document should be available within a month.

- RLWS Replacement Tanks

It was noted that there is only one RLWS replacement tank. H. Tilden (PNNL) stated that the language for the replacement tank is being drafted, and it is not reflected in the draft permit application. The final version of the permit application will contain a description of the tank.

5. Status of 325 HWTUs Part A Rev 4 Submittal

H. Tilden (PNNL) stated that the Notice of Intent (NOI) is in internal review, and the majority of comments have been received.

325 HAZARDOUS WASTE TREATMENT UNITS
PROJECT MANAGER MEETING
337 Building, Mt. Rainier Room
Richland, Washington

April 3, 1997
1:30 p.m. to 2:30 p.m.

Summary of Discussion and Commitments/Agreements

The NOI addendum will be finalized and forwarded to DOE-RL for review and approval, and then submitted to Ecology.

6. Status of Silver List Issues

H. Tilden (PNNL) stated that there were no Silver list items to submit to Ecology at the present time. J. Wallace (Ecology) stated that she had two signed Silver list items. The items will be mailed to H. Tilden.

7. TWRS Characterization Closeout

D. Crossley (PNNL) stated that PNNL is waiting for the NDA results for the High Level Radiochemistry Facility (HLRF). The NDA results have been received for the 15 drums in the Shielded Analytical Laboratory (SAL).

D. Crossley (PNNL) stated that PNNL is looking at the total inventory of TWRS-related samples and TWRS-related equipment. Following Lockheed-Martin's selection of samples it wishes to retain, PNNL will determine what material it wants to retain for treatability work as part of the tank focus area, and then propose returning the remaining material to Lockheed-Martin.

D. Crossley (PNNL) reported that a meeting was held on 4-2-97 to discuss a strategy for disposal of the inventory of containerized legacy wastes. A funding profile will be developed for each of the legacy materials and submitted as part of the PDP for FY98. Regarding the waste that does not have a disposal pathway, alternatives will be analyzed and cost scenarios developed in an effort to select the best result for the funds available.

8. Efficiency Issues

J. Wallace (Ecology) suggested that the 325 Building modification to accommodate the RLWS waste should be presented to Ecology, DOE-RL and PNNL management as an efficiency issue. H. Tilden (PNNL) took an action to draft an efficiency benefit document and a press release by the next PMM.

325 HAZARDOUS WASTE TREATMENT UNITS
PROJECT MANAGER MEETING
337 Building, Mt. Rainier Room
Richland, Washington

April 3, 1997
1:30 p.m. to 2:30 p.m.

Summary of Discussion and Commitments/Agreements

9. Status of Action Items

08-01-96:1 Ecology will provide final comments on the 325 HWTU Part B permit application by the next workshop on August 6, 1996. Waiting on guidance for the WAP.

The waste analysis plan (WAP) guidance has been finalized and will be distributed within a month. This action will remain open until the final document has been distributed.

08-01-96:2 Resolve actions from the past 325 Part B workshops by the next workshop on August 6, 1996 (workshop was held on 10/17/96). Of 104 action items assigned, 3 remain unresolved. Four figure revisions remain open.

This action item was CLOSED 3-6-97.

12-10-96:1 Prepare an NOI addendum for Ecology's review.

The NOI is in DOE-RL review, and will be submitted to Ecology for review and approval following DOE-RL approval. This action item is open.

03-06-97:1 Finalization of WAP to be discussed with Cliff Clark (DOE-RL).

This action item was CLOSED.

10. General Discussion

B. Day (PNNL) announced that due to a reorganization, Shelly Warren will not be the contractor representative signatory on the PMM minutes. The new representative has not been identified.

D. Crossley (PNNL) referred to the special case waste located in the 324 and 327 Facilities, which is covered under Milestone M-92. When the Tri-Party Agreement was renegotiated in 1996, the ownership of the 324 and 327 Facilities was not reflected since they had transitioned. PNNL is currently proceeding to attempt to fully characterize and define the baseline of the special case

**325 HAZARDOUS WASTE TREATMENT UNITS
PROJECT MANAGER MEETING
337 Building, Mt. Rainier Room
Richland, Washington**

**April 3, 1997
1:30 p.m. to 2:30 p.m.**

Summary of Discussion and Commitments/Agreements

waste and identify the responsibility for the waste. J. Wallace (Ecology) requested that she be kept apprised of DOE-RL's proposal for disposition of the waste; and if a change request to the TPA is required, there are certain levels that she has approval authority.

11. New Action Items

- 04-03-97:1** A copy of the 325 replacement tank NEPA document will be provided to J. Wallace (Ecology)
ACTION: M. Jarvis (DOE-RL)
- 04-03-97:2** A draft of the 325 Part B Permit Application, including the NOD comment table will be provided to G. Davis (Ecology)
ACTION: M. McCoy (PNNL)
- 04-03-97:3** J. Wallace (Ecology) will mail two signed Silver list items to H. Tilden (PNNL)
ACTION: J. Wallace (Ecology)
- 04-03-97:4** H. Tilden (PNNL) will draft an RLWS tank efficiency benefit document to submit to management, and also a press release. The documents will be presented at the next PMM.
ACTION: H. Tilden (PNNL)

12. Next Project Managers Meeting

- The next PMM was scheduled for May 1, 1997 in Richland, Washington.
- Proposed topics may be submitted to J. D. McAtee (PNNL).

Attachment 4

325 HAZARDOUS WASTE TREATMENT UNITS
Project Managers Meeting
337 Building, Mt. Rainier Room (3rd Floor North)
Richland, Washington

April 3, 1997
1:30 p.m. to 2:30 p.m.

RLWS Tank Replacement Strategy Presentation

Pacific Northwest National Laboratory

D-472, 325 Building Radioactive Liquid Waste Load Out Modification
204 AR Modifications

**D-472, 325 BUILDING RADIOACTIVE
LIQUID WASTE LOAD OUT
MODIFICATION**

204 AR MODIFICATION

Status 04/03/97



Pacific Northwest National Laboratory

D-472, 325 Building Radioactive Liquid Waste Load Out Modification
204 AR Modifications

Overview of Projects

- D-472, 325 Radioactive Liquid Waste Load Out Modifications
- 204 AR Modifications

Status



Pacific Northwest National Laboratory

D-472, 325 Building Radioactive Liquid Waste Load Out Modification
204 AR Modifications

325 Building Radioactive Liquid Waste Load Out Modification

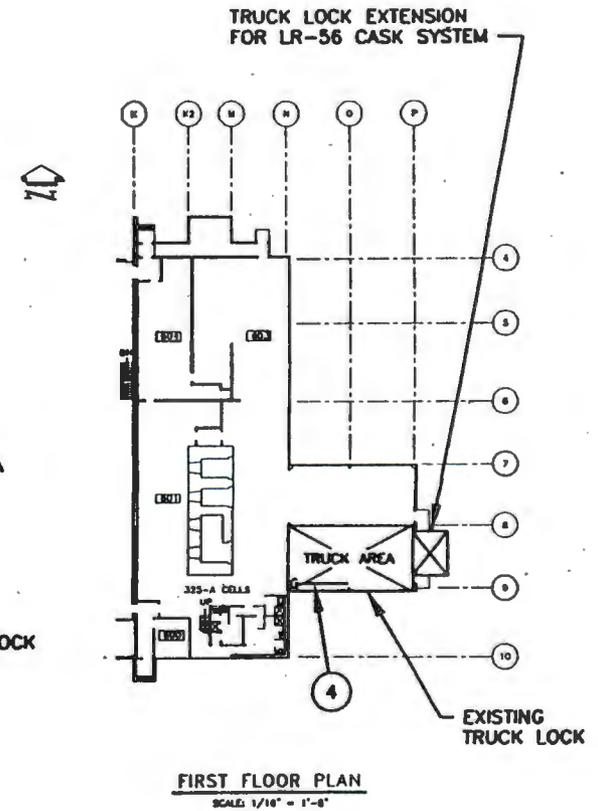
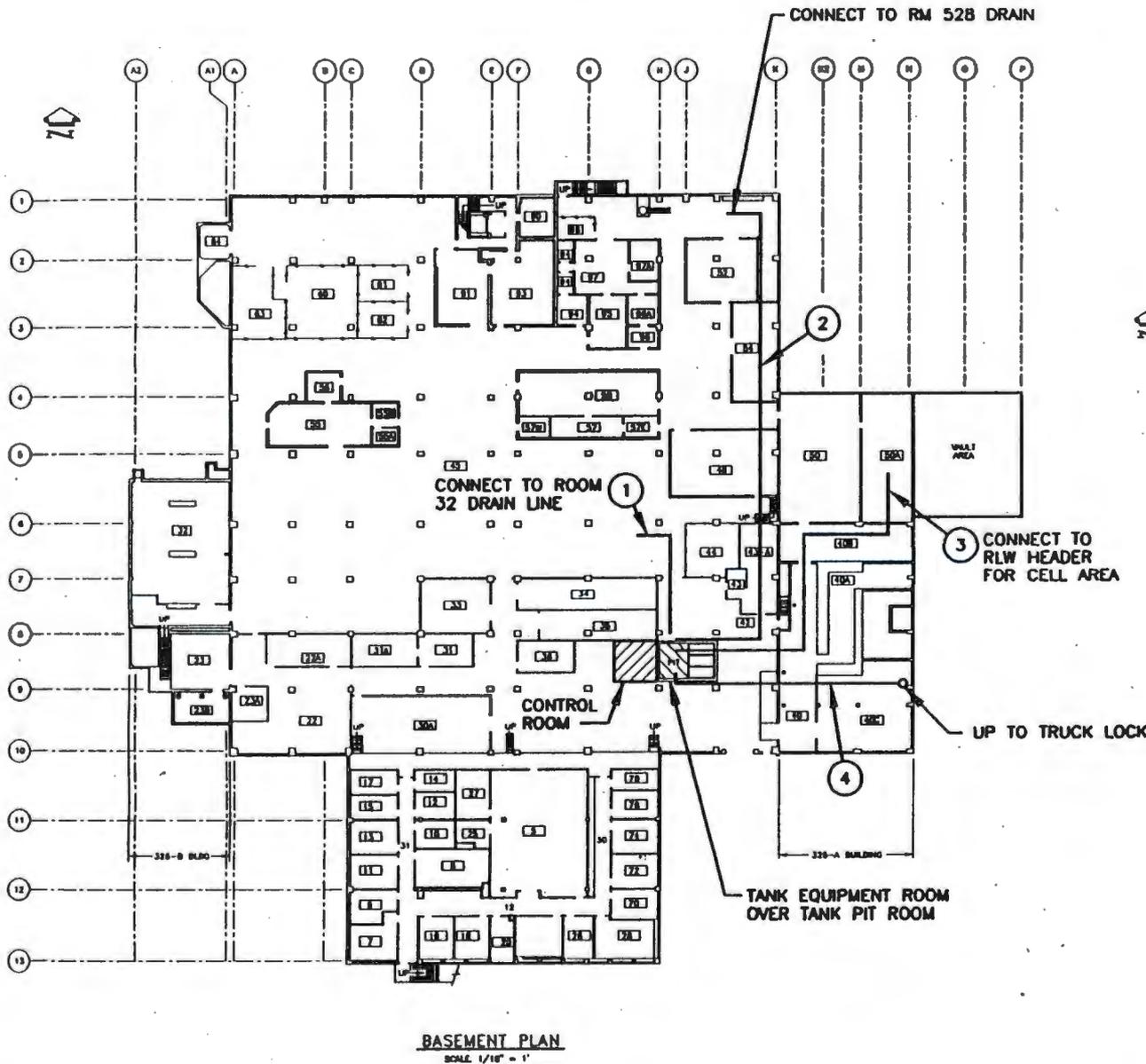
Scope of Work

Will re-route all radioactive liquid wastes to a new centralized double contained 11,300 liter (3000 gallon), TSD permitted, collection / sampling / neutralization tank and provide a load out capability of the the new LR-56 French tanker.

Justification

The present plan for deactivation of the 340 building is scheduled for FY 1998. The deactivation of this 340 facility will leave the 300 area without radioactive liquid waste sewer system and transportation mechanism of contaminated liquids.

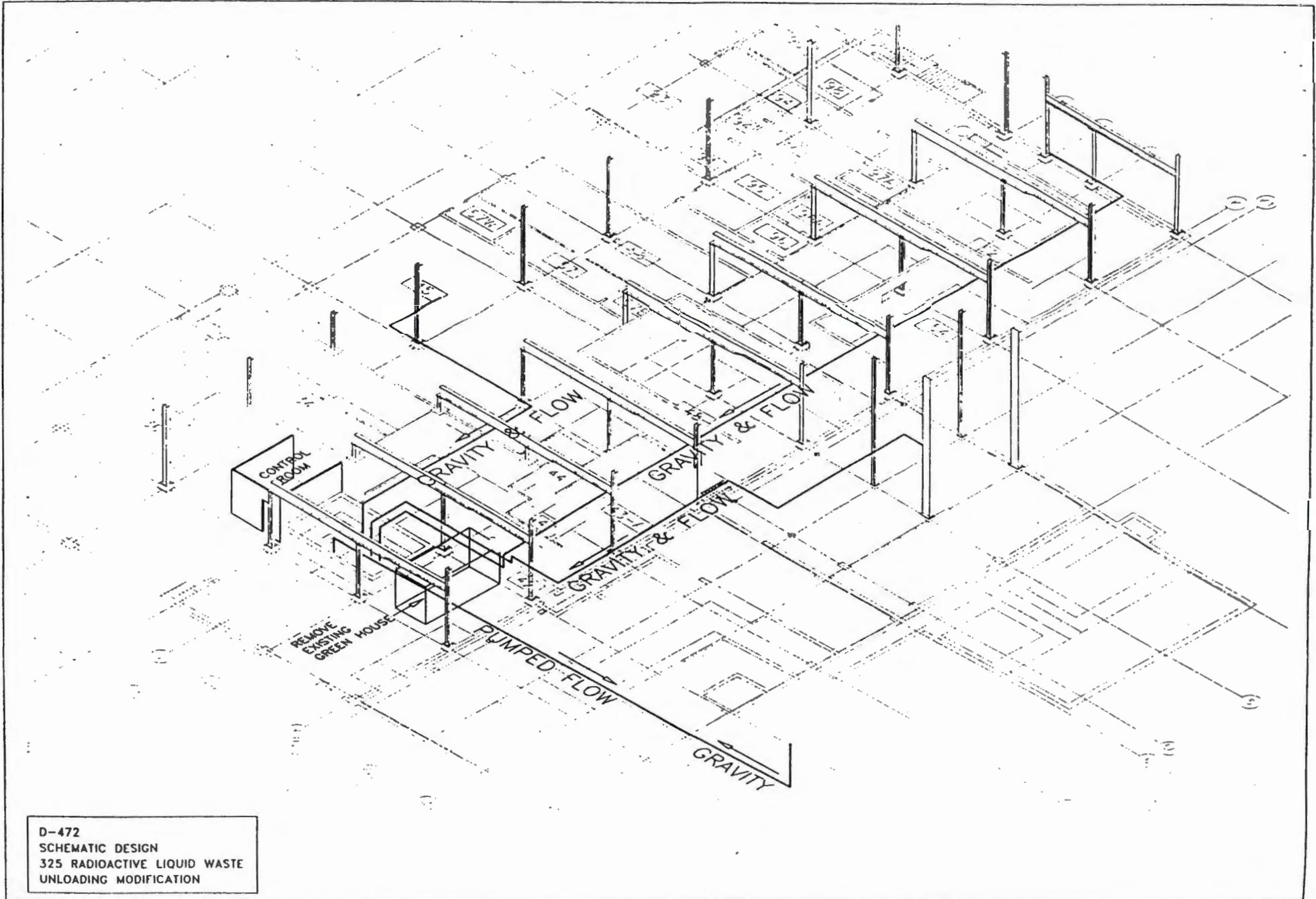
This modification to the RLWS utility of the 325 facility will allow research and characterization activities in the 300 area to continue without interruption with the planned decommissioning and closure of the 340 facility.



RLW LINE LEGEND

- ① DRAIN LINE EXTENSION FROM EXST ROOM 32 RLW DRAIN
- ② NEW RLW DRAIN FROM ROOM 528
- ③ NEW RLW DRAIN FROM ROOM 50A, CONNECTS TO EXST RLW DRAIN THAT SERVES CELL AREA
- ④ NEW TRANSFER LINE FROM TANK TO TRUCK LOCK

FIGURE 1 -- 325 BLDG RADIOACTIVE LIQUID WASTE (RLW) SYSTEM MODIFICATIONS



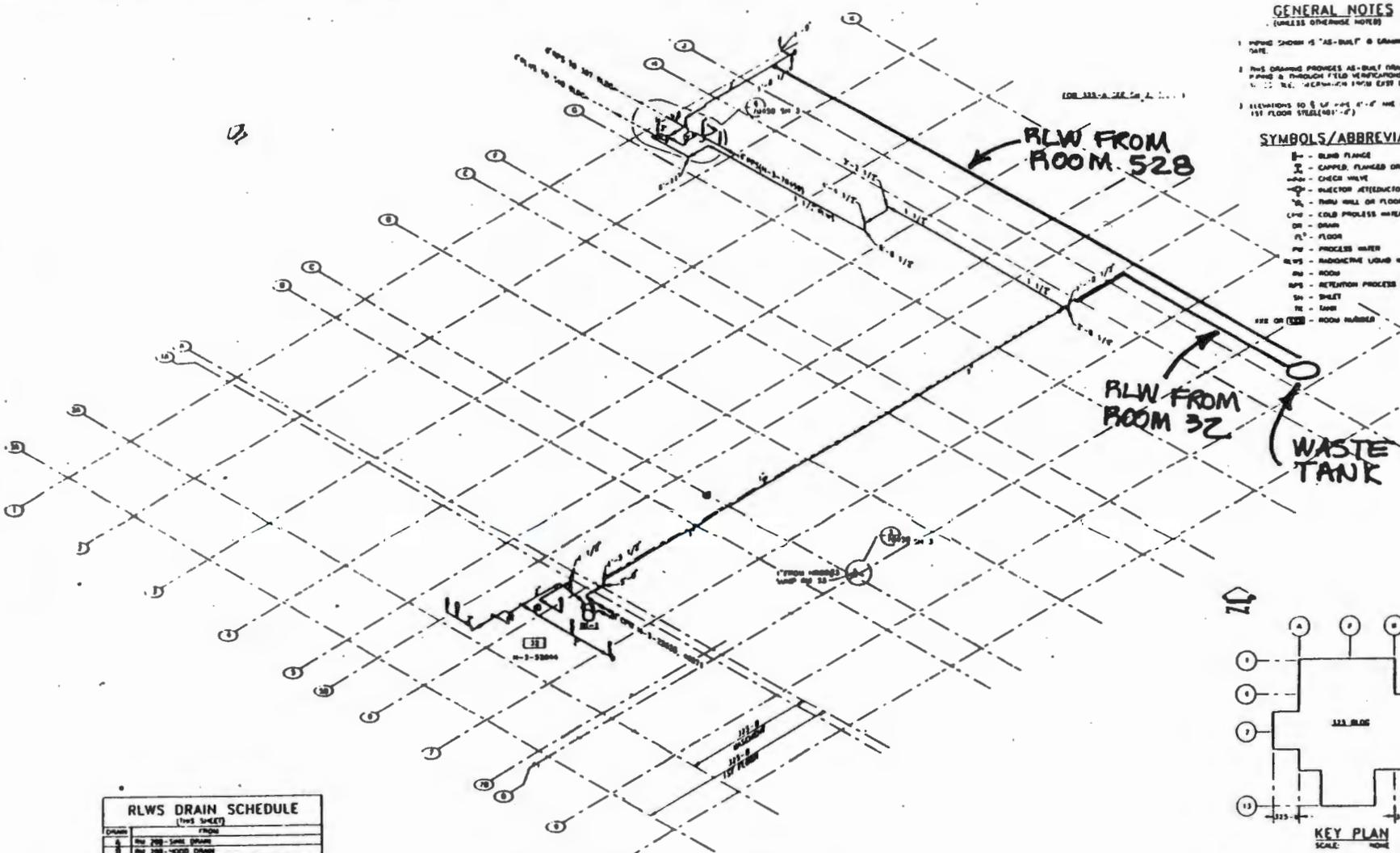
D-472
SCHEMATIC DESIGN
325 RADIOACTIVE LIQUID WASTE
UNLOADING MODIFICATION

GENERAL NOTES
(UNLESS OTHERWISE NOTED)

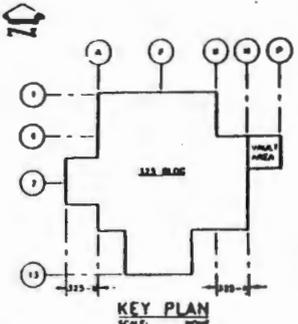
1. PIPING SHOWN IS "AS-BUILT" & EXAMINE APPROVAL DATE.
2. THIS DRAWING PROVIDES AS-BUILT ORANGE & PIPING & THROUGH FLOOR VERIFICATIONS, THESE 1" = 1'-0" & 1/4" = 1'-0" FROM EXIST DRAWINGS.
3. ELEVATIONS TO 6" UP PIPE 6" - 1" OF THE RELATIVE TO 1ST FLOOR STEEL (401'-0").

SYMBOLS/ABBREVIATIONS

- RF - RADIUM FLANGE
- CP - CAPPLE FLANGED OR PLUGGED LINE
- CV - CHECK VALVE
- AT - ATTENUATOR
- FL - FLOOR
- CPW - COLD PROCESS WATER
- DR - DRAIN
- FL - FLOOR
- PR - PROCESS WATER
- RLWS - RADIOACTIVE LIQUID WASTE SYSTEM
- RM - ROOM
- RPS - RETENTION PROCESS SEWER
- SH - SHIELD
- TR - TRAP
- RM OR TRM - ROOM NUMBER



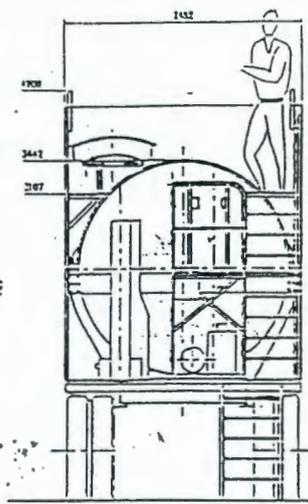
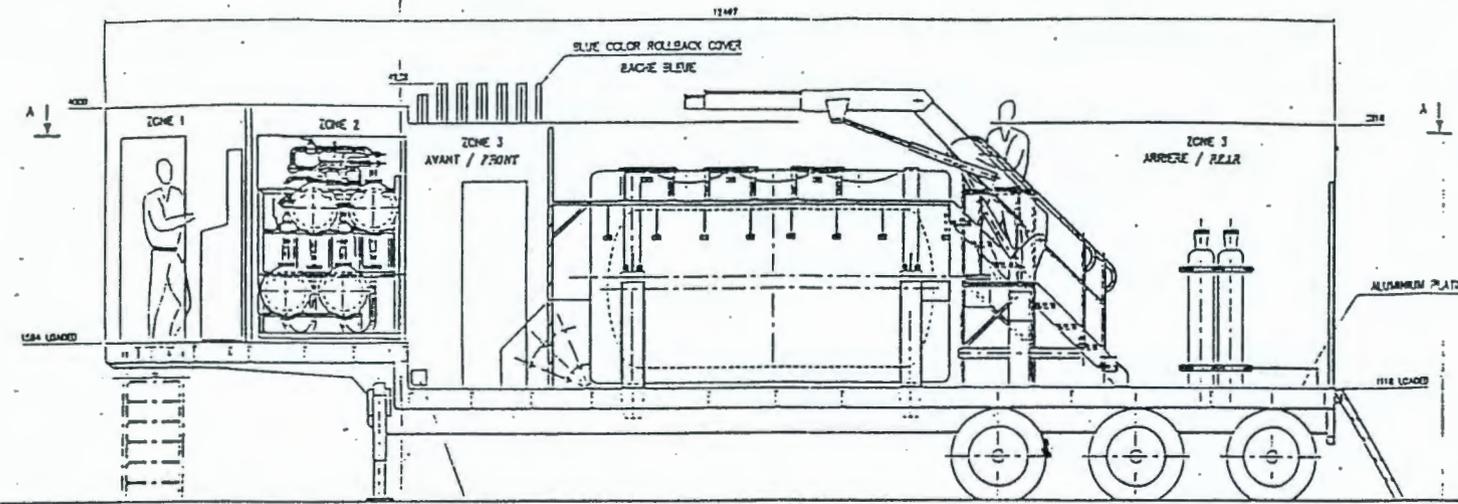
RLWS DRAIN SCHEDULE	
(THIS SCHEDULE)	
Column	Notes
A	RM 200 - SINK DRAIN
B	RM 200 - HOOD DRAIN
C	RM 200 - WAREWASH FLOOR DRAIN
D	RM 200 & 201 - CELL DRAIN 1 & 2
E	RM 200 & 201 - CELL DRAIN 3 & 4
F	RM 200 & 201 - CELL DRAIN 5 & 6
G	RM 201 - HOOD DRAIN
H	RM 310 - SCALE FLOOR DRAIN
I	RM 310 - SINK DRAIN



ISOMETRIC
SCALE: COLUMN LINES 1/8" = 1'-0"
6" 3/4" = 1'-0"

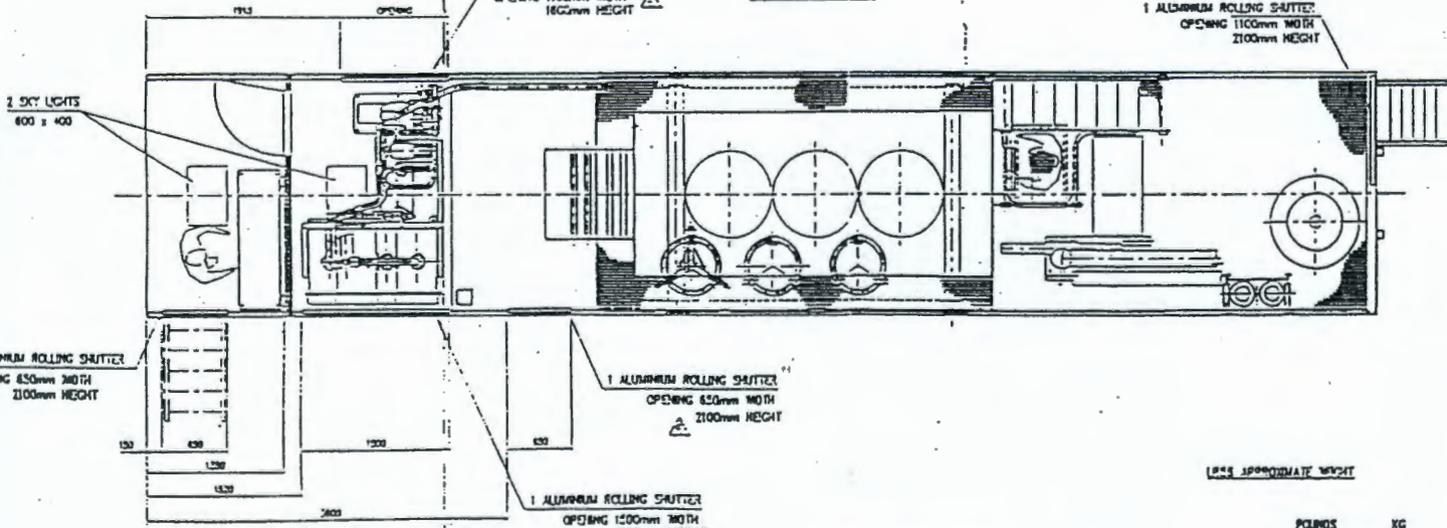
H-3-70458	315 BLDG CH REF LWC USE	DATE	BY	CHKD	REVISED
REFERENCE DRAWINGS	DATE	BY	CHKD	REVISED	
NEXT USED ON	DATE	BY	CHKD	REVISED	

U.S. DEPARTMENT OF ENERGY PACIFIC NORTHWEST LABORATORY RADIATION PHYSICS DIVISION RADIATION PHYSICS DIVISION RADIATION PHYSICS DIVISION	H-3-70460.0 SCALE: NONE DATE: 11/11/71 DRAWN: [Signature] CHECKED: [Signature]
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ELECTRICAL POWER BOX
BOITE ELECTRIQUE

COUPE A-A



	POUNDS	KG
TRAILER	13440	6090
ENCLOSURE AND LADDERS	4860	2200
CASK	38150	18100
CRANE	1320	600
TECHNICAL AND CONTROL CASINS	2320	1050
SADDLES AND FRONT STOP	2540	1150
TOTAL	64430	29190

1 POUND = 0.453 Kg

SDMS
RESEARCH ESTABLISHMENT

1000 AVENUE DE LA RESEARCH
OTTAWA, ONTARIO K1A 0S2
TEL: (613) 993-9200

WMC Order N°: W-3752.17-AR

APPROVED BY SDT

VS0 A

SDMS
B. P. E.

1/20

FORM: A1

CLIENT

DATE	DESCRIPTION	REVISION
1/20	GENERAL ARRANGEMENT	1

LR56H-TRANSPORT SYSTEM

GENERAL ARRANGEMENT

24761 0000

Pacific Northwest National Laboratory

D-472, 325 Building Radioactive Liquid Waste Load Out Modification
204 AR Modifications

325 Building Radioactive Liquid Waste Load Out Modification (cont.)

Project Cost (\$1,900,000) and Schedule for the modifications Support the Deactivation of the 340 Facility

	Cost	Start	Finish
Request for Project Authorization		02/97	03/97
Definitive Design	240K	03/97	09/97
Engineering / Inspection	125K	08/97	12/98
Construction	1145K	09/97	08/98
Contingency	300K	03/97	12/98
Total Project	1900K	03/97	12/98

Pacific Northwest National Laboratory

D-472, 325 Building Radioactive Liquid Waste Load Out Modification
204 AR Modifications

325 Building Radioactive Liquid Waste Load Out Modification (cont.)

Resolved issues

Funding for FY 97 Scope

NEPA will be issued to RL the middle of March

Interface with LR-56 Operations Staff

Issues

Capital funding for FY 1998 scope

325 Facility Permit

Readiness Assessment of the LR-56 Tanker



Pacific Northwest National Laboratory

D-472, 325 Building Radioactive Liquid Waste Load Out Modification
204 AR Modifications

204 Unloading Modification

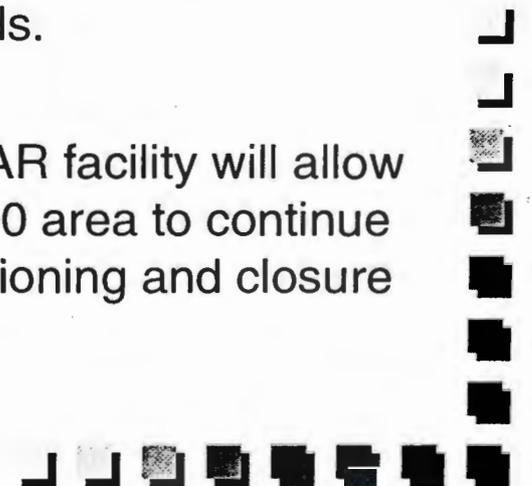
Scope of Work

Will modify the 204 AR facility to provide the capability to unload the new LR-56 French tanker.

Justification

The present plan for deactivation of the 340 building is scheduled for FY 1998. The deactivation of this 340 facility will leave the 300 area without radioactive liquid waste sewer system and transportation mechanism of contaminated liquids.

This modification to the RLWS utility of the 204 AR facility will allow research and characterization activities in the 300 area to continue without interruption with the planned decommissioning and closure of the 340 facility.



CONCEPTUAL DESIGN
 D-472 PNL PLW SYSTEM
 8/11/96

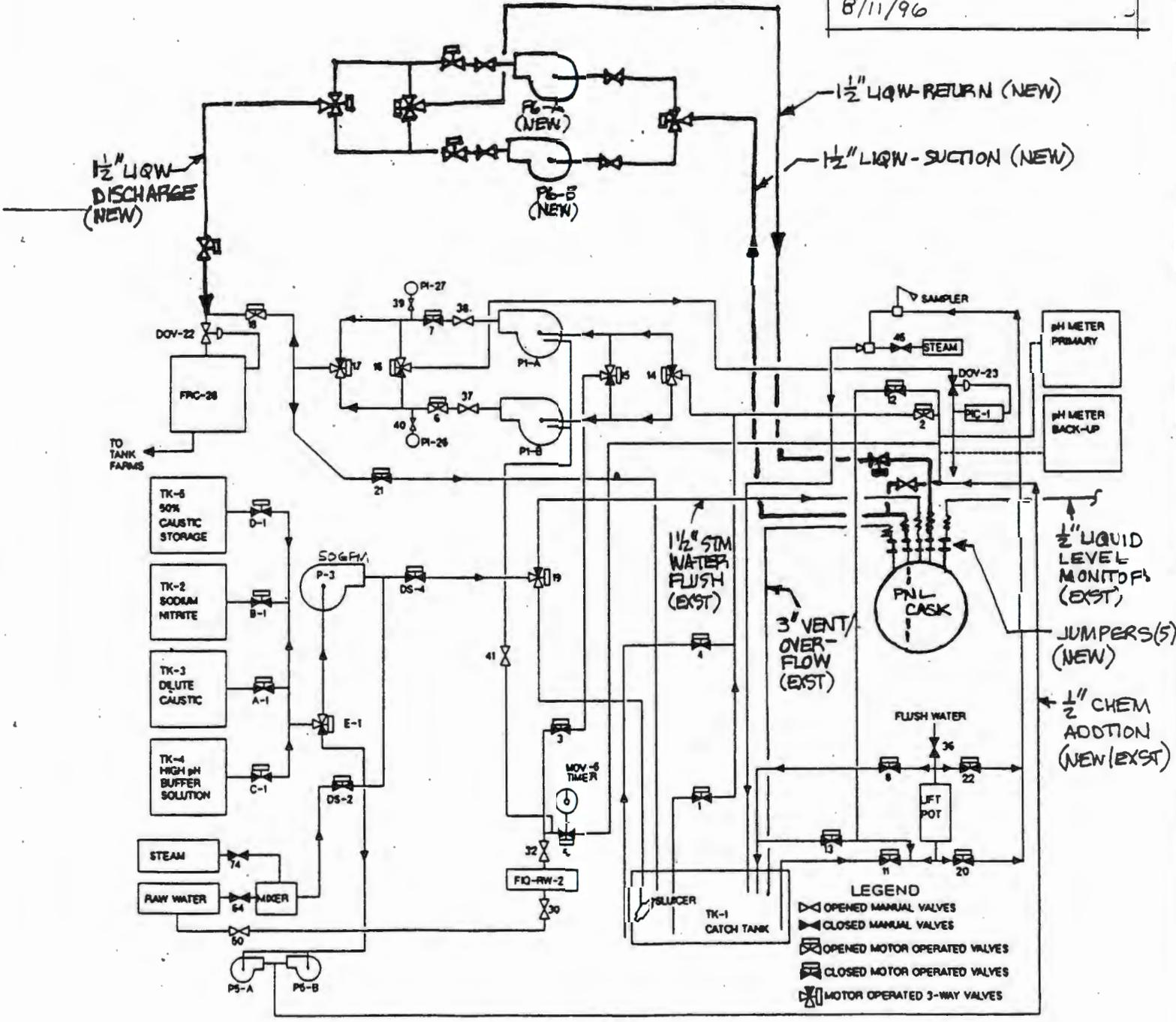


FIGURE 2 - TRANSFER VALVING

Document No.	Rev/Mod	Page
T0-290-120	B-3	62

Pacific Northwest National Laboratory

D-472, 325 Building Radioactive Liquid Waste Load Out Modification
204 AR Modifications

204 AR Unloading Modification (cont.)

Project Cost (\$490,000) and Schedule for the modifications Support the Deactivation of the 340 Facility

	Cost	Start	Finish
Request for Project Authorization		02/97	04/98
Definitive Design	70K	07/97	12/98
Engineering / Inspection	30K	11/96	02/98
Construction	310K	02/97	02/98
Project Contingency	80K	07/97	03/98
Total Project	490K	07/97	03/98

Pacific Northwest National Laboratory

D-472, 325 Building Radioactive Liquid Waste Load Out Modification
204 AR Modifications

204 AR Unloading Modification

Resolved issues

Funding for FY 97 Scope

NEPA will be issued to RL the middle of March

Interface with LR-56 Operations Staff

Issues

Capital funding is planned in FY 1998

325 Facility Permit

Readiness Assessment of the LR-56 Tanker



Pacific Northwest National Laboratory

D-472, 325 Building Radioactive Liquid Waste Load Out Modification
204 AR Modifications

Status

- Project Plans and Request for Project Authorizations in RL approval cycle
- Evaluation of Transportation method has been completed
- CX for 325, 340 and 204 AR Modifications have been issued to RL for approval
- Expense funded activities are in progress
- Briefed for the Science & Technology Operations Division (3/31/97)
- Project team Kick Off meeting 4/2/97
- 204 AR Project Plan final review with Rust Engineering scheduled 4/18/97
- Issue 204 AR Project Plan to RL PMD 4/30/97

Distribution:

M. A. Barnard	RL	K8-50
G. D. Buckley	PNNL	P7-28
M. E. Burandt	RL	K8-50
D. B. Crossley	PNNL	P7-79
G. P. Davis	Ecology	B5-18
B. J. Day	PNNL	P7-28
M. F. Jarvis	RL	K8-50
S. K. Johansen	GSCC	A4-35
S. L. Jones	PNNL	P7-28
W. B. Larson	PNNL	P7-28
M. W. McCoy	PNNL	P7-79
A. C. McKarns	RL	A5-15
M. J. Riess	PNNL	P7-75
R. T. Steele	PNNL	P7-22
G. T. Thornton	PNNL	P8-34
H. T. Tilden	PNNL	P7-79
J. J. Wallace	Ecology	B5-18
S. L. Warren	PNNL	P8-34
RCRA Files/JM	WHC	H6-23

ADMINISTRATIVE RECORD (Two Copies): 325 Hazardous Waste Treatment Unit, T-3-4 [Care of EDMC, WHC (H6-08)]

Please send comments on distribution list to J. D. McAtee (P7-79), (509) 372-3605.