



DOCUMENT INFORMATION

The following information is required when submitting a document to PDC for issuance.

Correspondence (CCN) No: _____

Document No: 24590-PTF-PER-M-03-002

Rev: 0

Project Information (Check Applicable Box)

Balance of Facilities HLW Vitrification Analytical Laboratory Across all areas

Pretreatment LAW Vitrification External Interfaces

Document is applicable to ALARA (as determined by the originator)? Yes No

Applicability to ALARA means that the item has the potential to affect doses, contamination levels, or releases to the environment. (See 24590-WTP-GPP-SRAD-002, *Application of ALARA in the Design Process*, sections 4.1 and 4.2 for more information.)

Subject code(s): _____ (for correspondence only)

ACTION ITEM INFORMATION (for correspondence other than meeting minutes)

Commitments: Yes No (if yes, brief description below)

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INIT DATE

Document title: **Sump and Drain Data at 28 Ft Level for PT Facility**

Contract number: DE-AC27-01RV14136
Department: Mechanical Systems
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Checked by: R Stevens

Checker signature: *Robert C Stevens*

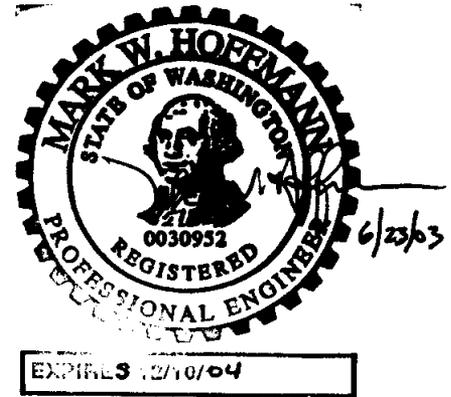
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Approved by: *JS* S Grabowski

Approver's position: Area Project Engineering Manager

Approver signature: *S. Grabowski*



This bound document contains a total of 8 sheets

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Notice

Please note that source, special nuclear, and byproduct materials, as defined in the Atomic Energy Act of 1954 (AEA), are regulated at the US Department of Energy (DOE) facilities exclusively by DOE acting pursuant to its AEA authority. DOE asserts, that pursuant to the AEA, it has sole and exclusive responsibility and authority to regulate source, special nuclear, and byproduct materials at DOE-owned nuclear facilities. Information contained herein on radionuclides is provided for process description purposes only.

History Sheet

Rev	Date	Reason for revision	Revised by
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Acronyms

AEA	Atomic Energy Act of 1954
CNP	cesium nitric acid recovery process system
DOE	US Department of Energy
PT	pretreatment
PWD	plant wash and disposal
WAC	Washington Administrative Code

1 Introduction

The Washington Administrative Code, WAC 173-303, requires the use of secondary containment for systems containing dangerous waste. This document provides a brief description of the secondary containment sumps and drains located at the 28 ft level of the pretreatment (PT) facility.

2 Applicable Documents

WAC 173-303, *Dangerous Waste Regulations*, Washington Administrative Code.

3 Description

3.1 Elevation 28 Ft

There are no sumps located on the 28 ft elevation in this facility.

Floor drains and curbing, where applicable, are provided in the vicinity of various items of regulated system ancillary equipment. The drains direct any potential leaks or spills from the ancillary equipment and discharge from the fire protection sprinkler system to the C3 floor drain collection vessel (PWD-VSL-00046). Entries to containment areas have drainage trenches immediately in front of them to prevent fire water or other material from flowing into C2 areas.

A drain is also provided from bulge CNP-BULGE-00008 to direct any leaks or spills to the ultimate overflow vessel (PWD-VSL-00033).

Information is given in Table 1 on the PT facility 28 ft elevation drains that form an extension of the secondary containment boundary.

Table 1 – Pretreatment Drains

Item No.	Drain Line/Floor Drain No.	PT Room Number	Max. Drain Line Capacity Gal / min	Drain Line Size Pipe diameter in inches	P&ID Number	Material of Fabrication
1	CNP-ZF-00043-S11B-03	P-0207, CNP-BULGE-00008 Drain Elevation 28 ft	160	3	24590-PTF-M6-CNP-P0002	SS316L
2	PWD-FD-00432	P-0201 Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0044	SS316L
3	PWD-FD-00452	P-0201 Drain Elevation 28 ft	706	8	24590-PTF-M6-PWD-P0044	SS316L
4	PWD-FD-00456	P-0201A Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0044	SS316L
5	PWD-FD-00341	P-0201A Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0044	SS316L
6	PWD-FD-00351A	P-0201A Drain Elevation 28 ft	52	3	24590-PTF-M6-PWD-P0044	SS316L
7	PWD-FD-00451	P-0203 Drain Elevation 28 ft	706	8	24590-PTF-M6-PWD-P0044	SS316L
8	PWD-FD-00339	P-0203 Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0044	SS316L
9	PWD-FD-00450	P-0203 Drain Elevation 28 ft	706	8	24590-PTF-M6-PWD-P0044	SS316L
10	PWD-FD-00450A	P-0203 Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0044	SS316L
11	PWD-FD-00449A	P-0203 Drain Elevation 28 ft	52	3	24590-PTF-M6-PWD-P0044	SS316L
12	PWD-FD-00449	P-0203A Drain Elevation 28 ft	706	8	24590-PTF-M6-PWD-P0044	SS316L
13	PWD-FD-00338	P-0203A Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0044	SS316L
14	PWD-FD-00337	P-0203B Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0044	SS316L
15	PWD-FD-00448	P-0203B Drain Elevation 28 ft	706	8	24590-PTF-M6-PWD-P0044	SS316L
16	PWD-FD-00447A	P-0203B Drain Elevation 28 ft	52	3	24590-PTF-M6-PWD-P0044	SS316L
17	PWD-FD-00447	P-0204 Drain Elevation 28 ft	706	8	24590-PTF-M6-PWD-P0044	SS316L
18	PWD-FD-00336	P-0204 Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0044	SS316L
19	PWD-FD-00397	P-0206 Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0043	SS316L
20	PWD-FD-00443	P-0206 Drain Elevation 28 ft	706	8	24590-PTF-M6-PWD-P0043	SS316L
21	PWD-FD-00398A	P-0207 Drain Elevation 28 ft	52	3	24590-PTF-M6-PWD-P0043	SS316L
22	PWD-FD-00398	P-0207 Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0043	SS316L
23	PWD-FD-00399	P-0208 Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0043	SS316L
24	PWD-FD-00400	P-0209 Drain Elevation 28 ft	52	3	24590-PTF-M6-PWD-P0043	SS316L
25	PWD-FD-00444	P-0209 Drain Elevation 28 ft	706	8	24590-PTF-M6-PWD-P0043	SS316L
26	PWD-FD-00401	P-0209 Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0043	SS316L
27	PWD-FD-00402	P-0210 Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0043	SS316L
28	PWD-FD-00445	P-0210 Drain Elevation 28 ft	706	8	24590-PTF-M6-PWD-P0043	SS316L
29	PWD-FD-00445A	P-0212 Drain Elevation 28 ft	706	8	24590-PTF-M6-PWD-P0043	SS316L
30	PWD-FD-00442	P-0212 Drain Elevation 28 ft	52	3	24590-PTF-M6-PWD-P0043	SS316L
31	PWD-FD-00404	P-0212 Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0043	SS316L

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Item No.	Drain Line/Floor Drain No.	PT Room Number	Max. Drain Line Capacity Gal / min	Drain Line Size Pipe diameter in inches	P&ID Number	Material of Fabrication
32	PWD-FD-00404A	P-0212 Drain Elevation 28 ft	155	6	24590-PTF-M6-PWD-P0043	SS316L
33	PWD-FD-00446	P-0212 Drain Elevation 28 ft	706	8	24590-PTF-M6-PWD-P0043	SS316L



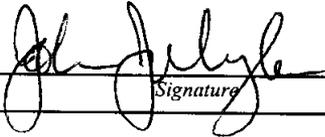
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Sheet 1 of 1

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Insert rows as necessary using tab key ↑

Name	MSIN	Controlled	Uncontrolled	Size				Comments	
				8 1/2 x 11 (A)	11 x 17 (B)	Drawings			
						C	D		E
Grabowski, Steve	MS9-A		X					X	
Chiaramonte, Jerry	MS9-A		X					X	
Erlandson, Brad	MS4-C1		X					X	
Markillie, Jeff	MS4-C1		X					X	
Normandin, Greg	MS4-C1		X					X	
Julyk, John	MS8-B		X					X	
Hoffmann, Mark	MS4-B2		X					X	
Hendricks, Gerry	MS9-A		X					X	
Stevens, Robert	MS8-B		X					X	
Arora, Sam	MS8-B		X					X	

Approver John Julyk  6/17/03
Print Name Signature Date