

JUN 19 1998

ENGINEERING DATA TRANSMITTAL

1. EDT 622723

2. To: (Receiving Organization) Distribution	3. From: (Originating Organization) J. D. Galbraith, NHC	4. Related EDT No.: NA
5. Proj./Prog./Dept./Div.: TWRS	6. Design Authority/ Design Agent/Cog. Engr.: J. D. Galbraith	7. Purchase Order No.: NA
8. Originator Remarks: For approval and release.		9. Equip./Component No.: NA
		10. System/Bldg./Facility: NA
11. Receiver Remarks: 11A. Design Baseline Document? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		12. Major Assm. Dwg. No.: NA
		13. Permit/Permit Application No.: NA
		14. Required Response Date:

15. DATA TRANSMITTED					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Approval Designator	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	HNF-2854	-	0	Nozzle Evaluation for Project W-314	NA	1,2	1	

16. KEY						
Approval Designator (F)		Reason for Transmittal (G)			Disposition (H) & (I)	
E, S, Q, D or N/A (see WHC-CM-3-5, Sec.12.7)		1. Approval	4. Review	1. Approved	4. Reviewed no/comment	
		2. Release	5. Post-Review	2. Approved w/comment	5. Reviewed w/comment	
		3. Information	6. Dist. (Receipt Acknow. Required)	3. Disapproved w/comment	6. Receipt acknowledged	

17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)											
(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN
		Design Authority						D. E. Bowers		6-19-98	
		Design Agent				1	1	D. E. Bowers		S5-13	
I	I	Cog. Eng. J. D. Galbraith	<i>J. D. Galbraith</i>	6/16/98	H5-49	1	1	J. W. Ficklin	<i>J. W. Ficklin</i>	6-19-98	PZ-88
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		QA									
		Safety									
		Env.									

18. J. D. Galbraith <i>J. D. Galbraith</i> Signature of EDT Originator Date: 6/16/98	19. J. L. Hamann <i>J. L. Hamann</i> Authorized Representative Date for Receiving Organization Date: 6-17-98	20. J. S. Garfield <i>J. S. Garfield</i> Design Authority/ Cognizant Manager Date: 6-19-98	21. DOE APPROVAL (if required) Ctrl. No. <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/comments <input type="checkbox"/> Disapproved w/comments
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Nozzle Evaluation for Project W-314

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U.S. Department of Energy Contract DE-AC06-96RL13200

EDT/ECN: 622723 UC: 721
Org Code: 8C451 Charge Code: D2D77
B&R Code: EW3130010 Total Pages: 21

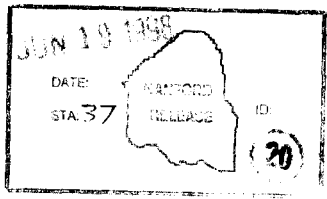
Key Words: nozzle, W-314

Abstract: Revisions to the waste transfer system piping to be implemented by Project W-314 will eliminate the need to access a majority of interfarm jumper connections associated with specific process pits. Additionally, connections that formerly facilitated waste transfers from the Plutonium-Uranium Extraction (PUREX) Plant are no longer required. This document identified unneeded process pit jumper connections, describes former designated routing, denotes current status (i.e., "open" or "blanked"), and recommends appropriate disposition for all. Blanking of identified nozzles should be accomplished by Project W-314 upon installation of jumpers and acceptance by Tank Waste Remediation System (TWRS) Tank Farm Operations.

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Janis Aardal 6-19-98
Release Approval Date



Release Stamp

Approved for Public Release

HNF-2854
Revision 0

**NOZZLE EVALUATION
FOR PROJECT W-314**

June 1998

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LIST OF TERMS

PUREX	Plutonium-Uranium Extraction
TWRS	Tank Waste Remediation System

NOZZLE EVALUATION FOR PROJECT W-314

1.0 PURPOSE

Revisions to the waste transfer system piping to be implemented by Project W-314 will eliminate the need to access a majority of interfarm jumper connections associated with specific process pits. Additionally, connections that formerly facilitated waste transfers from the Plutonium-Uranium Extraction (PUREX) Plant are no longer required. This document identifies unneeded process pit nozzle/jumper connections, describes former designated routing, denotes current status (i.e., "open" or "blanked"), and recommends appropriate disposition for all. Blanking of identified nozzles, see Table 1, should be accomplished by Project W-314 upon installation of jumpers and acceptance by Tank Waste Remediation System (TWRS) Tank Farm Operations.

2.0 SCOPE

This evaluation addresses identified process pits and post W-314 jumper connections at the following 200 East Tank Farm locations:

241-AN, 241-AY, 241-AZ, 241-AW, and the 241-A-151 Diversion Box.

3.0 ASSUMPTIONS

3.1 241-AN TANK FARM

- SN lines/nozzles will be connected to support waste retrieval/transfer operations.
- SL lines/nozzles will be used to support delivery of diluent to the installed new transfer pumps. This connection will also provide the ability to flush the SL (2-in.) lines.
- New flush (3-in.) and diluent flush (2-in.) lines will be provided by W-211 (nozzles L-20, 2-in.; L-21, 3-in. in AN-A; R-20, 2-in. in AN-B).

3.2 241-AY/AZ TANK FARMS

- The installation of isolation blanks on existing lines in 241-AZ and 241-AY Tank Farms, eliminates any compelling need for W-314 to enter valve pits 241-AX-A, 241-AX-B, or 241-A-B to install redundant isolation blanks. If additional isolation is desired, TWRS Tank Farm Operations will be responsible for this scope of work.
- At present, the U-4 nozzle in 241-AZ-02A Central Pump Pit is being utilized to facilitate 241-AZ-151 catch tank pumping. While there is a need to eventually reroute this tank, such change currently has no Operations priority. Since the existing route will continue to be used, there is no recommendation to blank U-4.

3.3 241-AW TANK FARM

- SL lines/nozzles will be used to support delivery of diluent to the "new" transfer pump. This connection will also provide the ability to flush the SL (2-in.) lines.
- SL nozzles/lines will also be used to support 242-A Evaporator operations. It is assumed that the 242-A operation will continue to use 241-AW-102 as the feed staging tank and 241-AW-104 and 106 as receivers during the Evaporator campaign/operation. Slurry waste collected in 241-AW-104 and 106 will then be transferred to 241-AN or 241-AP Tank Farms, as space is available. These transfers will use the 3-in. SN transfer lines.
- SN-220 in 241-AW-A valve pit will be used to receive waste transfers from 204-AR via the 241-A-A valve pit by connecting nozzles L-11 (LIQW-702) and L-2 (SN-220). Another option would be to cut/reroute these lines outside of the A-A valve pit and connect the two lines together.
- Jumper connections and nozzles to be blanked (refer to Table 1) currently are not the responsibility of W-314. Project W-454 has the responsibility for providing the jumper configurations identified.

3.4 241-A-151

- Nozzles from this diversion box to the 241-AW valve pits should be blanked; however, this activity is currently outside of the W-314 work scope.

3.5 GENERAL

- All encasement drain seal piping should be left open. This issue requires further review with TWRS operations and permitting organizations.

4.0 RECOMMENDATIONS

The rationale behind blanking unneeded nozzles is twofold. First, such action effectively removes unnecessary equipment from service, eliminating any liability inherent to the operation or maintenance of this equipment. Additionally, it is deemed prudent to install process blanks at all unneeded nozzles to preclude the possibility of improper jumper connections and thus mitigate potential for waste transfer misrouting.

Table 1 provides an all-inclusive listing of process pits and respective nozzles as indicated on drawing ES-314E-M40, Rev 8, plus selective nozzles in the 241-A-151 Diversion Box. This table reflects the future disposition of all nozzles listed.

Table 2 provides a listing of process pits and respective nozzles; these are grouped by process pit location. The "Status" column indicates present configuration as documented by one or more of the following sources:

- 272-AW Routing Board (as of May 19, 1998)
- Pit video records
- Pit configuration drawings.

Configurations listed are as depicted via the 272-AW Routing Board, unless otherwise indicated. Information from other sources/contradicting configurations are highlighted by an asterisk (*).

Table 1. Nozzle Configuration Details. (7 Sheets)

Nozzle	Size	Pipe #/ Use	Configuration/Status	Jumper	Blank
Location: Valve Pit AN-A Drawing No.: ES-314E-M40, Rev 7; H-14-20801; H-14-100944					
L-1	3-in.	SN-267	To AN-07A (A)	X	
L-2	2-in.	Spare	Isolation blank installed		X
L-3	2-in.	SL-167	To AN-07A (B)	X	
L-4	2-in.	Spare	Isolation blank installed		X
L-5	2-in.	SL-164	To AN-04A (B)	X	
L-7	2-in.	SL-165	To AN-05A (B)	X	
L-9	2-in.	SL-166	To AN-06A (B)	X	
L-10	2-in.	Spare	Isolation blank installed		X
L-11	3-in.	Spare	Isolation blank installed		X
L-12	3-in.	Spare	Isolation blank installed		X
L-13	3-in.	Spare	Isolation blank installed		X
L-14	3-in.	SN-266	To AN-06A (A)	X	
L-15	3-in.	SN-264	To AN-04A (A)	X	
L-16	3-in.	SN-265	To AN-05A (A)	X	
L-17	2-in.	Existing flush	Process blank installed		X
L-18	2-in.	SL-168	To AN-B (R18)		X
L-19	3-in.	SN-268	To AN-B (R19)	X	
L-20	2-in.	New diluent line/W-211	From blending Tk-301 (new nozzle deleted)	NA	NA
L-21	3-in.	New diluent line/W-211	From blending Tk-301 (new nozzle)	X	

Table 1. Nozzle Configuration Details. (7 Sheets)

Nozzle	Size	Pipe #/ Use	Configuration/Status	Jumper	Blank
Location: Valve Pit AN-B Drawing No.: ES-314E-M40, Rev 7; H-14-20801; H-14-100946					
R-1	3-in.	Spare	Isolation blank installed		X
R-2	2-in.	SN-260	To AZ-02B (U7)		X
R-3	2-in.	SL-160	To AZ-02A (U12)		X
R-4	2-in.	Spare	Isolation blank installed		X
R-5	2-in.	SL-161	To AN-01A (B)	X	
R-7	2-in.	SL-162	To AN-02A (B)	X	
R-9	2-in.	SL-163	To AN-03A (B)	X	
R-10	2-in.	Spare	Isolation blank installed		X
R-11	3-in.	Spare	Isolation blank installed		X
R-12	3-in.	Spare	Isolation blank installed		X
R-13	3-in.	Spare	Isolation blank installed		X
R-14	3-in.	SN-263	To AN-03A (A)	X	
R-15	3-in.	SN-261	To AN-01A (A)	X	
R-16	3-in.	SN-262	To AN-02A (A)	X	
R-17	2-in.	Existing flush	Open		X
R-18	2-in.	SL-168	To AN-A (L18)		X
R-19	3-in.	SN-268	To AN-A (L19)	X	
R-20	2-in.	New diluent line/W-211	From blending Tk-301 (new nozzle)	X	

Table 1. Nozzle Configuration Details. (7 Sheets)

Nozzle	Size	Pipe #/ Use	Configuration/Status	Jumper	Blank
Location: Valve Pit AY-01A Drawing No.: ES-314E-M40, Rev 7; H-2-70781; H-14-102646					
U-1	3-in.	RW-3507	Open		X
U-2	2-in.	RW-3508	Open		X
U-3	4-in.	Spare	Process blank installed		X
U-4	4-in.	6-in. PSW-D 501	Isolation blank installed		X
U-5	3-in.	PW-4550/4608	Isolation blank installed		X
U-6	3-in.	PW-4513	Isolation blank installed		X
U-7	1-in.	RW-3509	Not on routing board		X
U-8	2-in.	Spare	Open		X
U-9	3-in.	Spare	Not on routing board		X
U-10	2-in.	PW-4531	Not on routing board		X
U-12	2-in.	SL-505	Fr: AY-01D (U3)	X	
U-13 ¹	3-in.	New SN-635	To AY-02A (U12)	X	
Nozzle A	2-in.	Slurry distributor		X	
Location: Valve Pit AY-02A Drawing No.: ES-314E-M40, Rev 7; H-2-70781, 818544, 100648					
U-1	3-in.	RW-3521	Isolation blank installed		X
U-2	2-in.	RW-3522	Isolation blank installed		X
U-3	4-in.	2-in. SL-503	Fr: AY-02D (U2)	X	
U-4	4-in.	6-in. PSW-D 502	Isolation blank installed		X
U-5	3-in.	New SN-633	To New AZ valve pit Nozzle (TBD)	X	

Table 1. Nozzle Configuration Details. (7 Sheets)

Nozzle	Size	Pipe #/ Use	Configuration/Status	Jumper	Blank
U-6	3-in.	PW-4519	Isolation blank installed		X
U-7	1-in.	RW-3523	Process blank installed		X
U-8	2-in.	SL-504	To AY-01D (U2)	X/W-320	
U-10	2-in.	PW-4532	Isolation blank installed		X
U-11	4-in.	SL-100	Fr: C-06A	X/W-320	
U-12	3-in.	SN-635	To AY-01A (U13)	X	
Location: Valve Pit AZ-01A Drawing No.: ES-314E-M40, Rev 7; H-2-70783					
U-2	4-in.	PSW-4622	Isolation blank installed		X
U-3	2-in.	PW-4623	Process blank installed		X
U-4	4-in.	6-in. PSW-D 603	Isolation blank installed		X
U-5	3-in.	PW-4607	Open		X
U-6	3-in.	Spare	Isolation blank installed		X
U-7	4-in.	PSW-4621	Isolation blank installed		X
U-8	1-in.	RW-3648	AZ valve pit		X
U-9	4-in.	Spare	Isolation blank installed		X
U-10	2-in.	SL-501	Process blank installed		X
U-11	3-in.	SN-631	To AZ-02A (U15) (new nozzle)	X/W-521	
U-12	3-in.	New SN by W-314	To "New AZ Valve Pit"/(# TBD) (new nozzle)	X	

Table 1. Nozzle Configuration Details. (7 Sheets)

Nozzle	Size	Pipe #/ Use	Configuration/Status	Jumper	Blank
Location: Valve Pit AZ-02A Drawing No.: ES-314E-M40, Rev 7; H-2-70783					
U-2	4-in.	PSW-S 607	Isolation blank installed		X
U-3	2-in.	PW-4609	Process blank installed		X
U-4	4-in.	6-in. PSW-D 602	To AZ-152	X	
U-5	3-in.	PW-4606	Isolation blank installed		X
U-6	3-in.	Spare	Open		X
U-7	4-in.	PSW-D 604	Open		X
U-8	1-in.	Spare	Open		X
U-9	4-in.	Spare	Not on routing board		X
U-10	2-in.	SL-500	Jumper AZ-02A (U12)		X
U-11	2-in.	SL-501	To AZ-01A (U10)		X
U-12	2-in.	SL-160	Jumped AZ-02A (U10)		X
U-13	3-in.	New SN-631 W-314	To AZ-01A (U11) (new nozzle)	X	
U-14	3-in.	New flush line	Fr: Blend Tk-301/ W-211 (new nozzle)	X (W-211)	
Location: Valve Pit AZ-02B ² Drawing No.: ES-314E-M40, Rev 7; H-2-70782					
U-1	4-in.	6-in. PSW-S 603	Not on routing board		X
U-2	4-in.	Spare	Not on routing board		X
U-3	4-in.	PSW-S 607	Open		X
U-5	2-in.	SN-600	Jump to AZ-02B (U-7)		X
U-6	2-in.	SN-601	Open		X
U-7	2-in.	SN-260	Jump to AZ-02B (U-5)		X

Table 1. Nozzle Configuration Details. (7 Sheets)

Nozzle	Size	Pipe #/ Use	Configuration/Status	Jumper	Blank
Location: Valve Pit AW-A ³		Drawing No.: ES-314E-M40, Rev 7; H-14-20802			
L-1	3-in.	SN-267	To AW-02A (J)	X	
L-2	3-in.	SN-220	To A-A valve pit (L2)	X	
L-3	2-in.	SL-168	To 242-A (18)	X	
L-4	2-in.	SL-510	To AP valve pit (2)	X	
L-5	2-in.	Failed SL-161	Open		X
L-7	2-in.	SL-163	To AW-03A (B)	X	
L-9	2-in.	SL-165	To AW-05A (B)	X	
L-10	2-in.	Spare	Isolation blank installed		X
L-11	3-in.	Spare	Open		X
L-12	3-in.	P-V021	Process blank installed		X
L-13	3-in.	Spare	Isolation blank installed		X
L-14	3-in.	SN-263	To AW-03A (A)	X	
L-15	3-in.	SN-265	To AW-05A (A)	X	
L-16	3-in.	SN-261	Process blank installed	X	
L-17	2-in.	Existing flush	Fr: AWF-P-RW-V211		X
L-18	3-in.	SL-169	To AW-B (R18)	X	
L-19	3-in.	SN-271	To AW-B (R19)	X	
Location: Valve Pit AW-B ³		Drawing No.: ES-314E-M40, Rev 7; H-14-20802			
R-1	3-in.	SN-268	To AW-02A (H)	X	
R-2	3-in.	SN-219	Process blank installed		X
R-3	2-in.	SL-167	To 242-A (19)	X	
R-4	2-in.	SL-509	To AP valve pit (1)	X	
R-5	2-in.	SL-162	Isolation blank installed		X

Table 1. Nozzle Configuration Details. (7 Sheets)

Nozzle	Size	Pipe #/ Use	Configuration/Status	Jumper	Blank
R-7	2-in.	SL-164	To AW-04A (B)	X	
R-9	2-in.	SL-166	To AW-06A (B)	X	
R-10	2-in.	Spare	Isolation blank installed		X
R-11	3-in.	P-V023	Jumped to AW-B (R12)		X
R-12	3-in.	P-V022	Jumped to AW-B (R11)		X
R-13	3-in.	New flush line	Fr: Blending Tk-301	X	
R-14	3-in.	SN-264	To AW-04A (A)	X	
R-15	3-in.	SN-266	To AW-06A (A)	X	
R-16	3-in.	SN-262	Process blank installed To AW-02A	X	
R-17	2-in.	Existing flush	Fr: AWFp-RW-V-212	X	
R-18	2-in.	SL-169	To AW-A (L18)	X	
R-19	3-in.	SN-271	To AW-A (L19)	X	
R-20	3-in.	SN-247 (spare line)	Isolation blank installed. To AW-04A		X
Location: Diversion Box A-151 Drawing No.: H-14-20802; H-14-20802					
22	Unk	To V004	Process blank installed		X
21	Unk	To V005	Process blank installed		X
20	Unk	To V006	Process blank installed		X
17, 18, 19	Unk	To V007	Process blank installed		X
14, 15, 16	Unk	To V008	Process blank installed		X

¹Also connect AY-01A U-13 to existing slurry distributor assembly located in 42-in. riser.

²AZ-02B nozzle blanking is not within W-314 scope.

³Jumper connections and nozzles to be blanked currently are not the responsibility of W-314. Project W-454 has the responsibility for providing the jumper configurations identified.

Table 2. Current Status. (5 Sheets)

Location	Nozzle	Drawing #	Use	Status
AN-A Valve Pit				
241-AN-A	L-2	H-14-020801	Spare	Isolation blank installed
241-AN-A	L-4	H-14-020801	Spare	Isolation blank installed
241-AN-A	L-10	H-14-020801	Spare	Isolation blank installed
241-AN-A	L-11	H-14-020801	Spare	Isolation blank installed
241-AN-A	L-12	H-14-020801	Spare	Isolation blank installed
241-AN-A	L-13	H-14-020801	Spare	Isolation blank installed
241-AN-A	L-17	H-14-020801	Existing flush	Process blank installed
241-AN-A	L-18	H-14-020801	To AN-B	Rigid jumper installed (pit crossover)
241-AN-A	G	H-14-100944	3-in. jumper	*New nozzle to be installed
241-AN-A	C	H-14-100944	2-in. jumper	*New nozzle to be installed
AN-B Valve Pit				
241-AN-B	R-1	H-14-020801	Spare	Isolation blank installed
241-AN-B	R-2	H-14-020801	SN-260 to 241-AZ-02B	Jumper installed
241-AN-B	R-3	H-14-020801	SN-160 to 241-AZ-02A	Jumper installed
241-AN-B	R-4	H-14-020801	Spare	Isolation blank installed
241-AN-B	R-10	H-14-020801	Spare	Isolation blank installed
241-AN-B	R-11	H-14-020801	Spare	Isolation blank installed
241-AN-B	R-12	H-14-020801	Spare	Isolation blank installed
241-AN-B	R-13	H-14-020801	Spare	Isolation blank installed
241-AN-B	R-17	H-14-020801	Existing flush	Open
241-AN-B	R-18	H-14-020801	To 241-AN-B	Rigid jumper installed (pit crossover)
241-AN-B	E	H-14-100946	3-in. jumper	*New nozzle to be installed
241-AN-B	C	H-14-100946	2-in. jumper	*New nozzle to be installed

Table 2. Current Status. (5 Sheets)

Location	Nozzle	Drawing #	Use	Status
AY Process Pits				
241-AY-01A	U-1	H-2-070781 H-14-102646	3-in. RW from RW valve pit	*Not on routing board *Open (pit video) *Process blank installed (H-2)
241-AY-01A	U-2	H-2-070781 H-14-102646	2-in. RW from RW valve pit	*Rigid jumper installed (routing board) *Open (pit video)
241-AY-01A	U-4	H-2-070781 H-14-102646	6-in. PSW to 241-AY-152	Isolation blank installed
241-AY-01A	U-5	H-2-070781 H-14-102646	3-in. PW to 241-AY-152	Isolation blank installed
241-AY-01A	U-6	H-2-070781 H-14-102646	3-in. PW to 241-AY-151	Isolation blank installed
241-AY-01A	U-7	H-2-070781 H-14-102646	1-in. RW from RW valve pit	*Not on routing board *Process blank installed (H-2)
241-AY-01A	U-8	H-2-070781 H-14-102646	Spare	*Not on routing board *Open (pit video) *Dust cover installed (H-2)
241-AY-01A	U-9	H-2-070781 H-14-102646	Spare	*Not on routing board *Dust cover installed (H-2)
241-AY-01A	U-10	H-2-070781 H-14-102646	From 241-AY- 01F	*Not on routing board *Process blank installed (H-2)
241-AY-02A	U-1	H-2-070781 H-2-100648 H-2-818544	3-in. RW from RW valve pit	Isolation blank installed
241-AY-02A	U-2	H-2-070781 H-2-100648 H-2-818544	2-in. RW from RW valve pit	Isolation blank installed
241-AY-02A	U-4	H-2-070781 H-2-100648 H-2-818544	6-in. PSW from 241-AY- 152	Isolation blank installed
241-AY-02A	U-6	H-2-070781 H-2-100648 H-2-818544	3-in. PW from 241-AY-151	Isolation blank installed

Table 2. Current Status. (5 Sheets)

Location	Nozzle	Drawing #	Use	Status
241-AY-02A	U-7	H-2-070781 H-2-100648 H-2-818544	1-in. RW from RW valve pit	Process blank installed
241-AY-02A	U-10	H-2-070781 H-2-100648 H-2-818544	2-in. PW from 241-AY-02F	Isolation blank installed
AZ Process Pits				
241-AZ-01A	U-2	H-2-070783	To 241-AZ- 01B	*Open (Routing board) *Isolation blank installed (Pit video)
241-AZ-01A	U-3	H-2-070783	To 241-AZ- 01F	Process blank installed
241-AZ-01A	U-4	H-2-070783	6-in. PSW to 241-AZ-152	*Open (routing board) *Isolation blank installed (Pit video)
241-AZ-01A	U-5	H-2-070783	3-in. PW to 241-AZ-152	Open
241-AZ-01A	U-6	H-2-070783	Spare	* Not on routing board * Isolation blank installed (Pit video)
241-AZ-01A	U-7	H-2-070783	To 241-AZ- 01C	*Open (Routing board) * Isolation blank installed (Pit video)
241-AZ-01A	U-9	H-2-070783	Spare	*Not on routing board * Isolation blank installed (Pit video)
241-AZ-01A	U-10	H-2-070783	SL-501	Process blank installed
241-AZ-02A	U-2	H-2-070783	To 241-AZ- 02B	*Process blank installed (Routing board) *Isolation blank installed (Pit video)
241-AZ-02A	U-3	H-2-070783	To 241-AZ- 02F	Process blank installed

Table 2. Current Status. (5 Sheets)

Location	Nozzle	Drawing #	Use	Status
241-AZ-02A	U-5	H-2-070783	To 241-AZ-152	*Open (Routing board) *Isolation blank installed (Pit video)
241-AZ-02A	U-6	H-2-070783	Spare	*Not on routing board *Open (Pit video)
241-AZ-02A	U-7	H-2-070783	To 241-AZ-02C	Open
241-AZ-02A	U-8	H-2-070783	Spare	*Not on routing board *Open (Pit video)
241-AZ-02A	U-10	H-2-070783	SL-500 to 241-AX-A	Rigid jumper installed
241-AZ-02A	U-12	H-2-070783	SL-160 to 241-AN-B	Rigid jumper installed
241-AZ-02B	U-1	H-2-070782	To 241-AZ-152	*Not on routing board *Process blank installed (H-2)
241-AZ-02B	U-2	H-2-070782	Spare	*Not on routing board *Process blank installed (H-2)
241-AZ-02B	U-3	H-2-070782	To 241-AZ-02A	Open
241-AZ-02B	U-5	H-2-070782	SN-600 to 241-AX-A	Rigid jumper installed
241-AZ-02B	U-6	H-2-070782	SN-601 to 241-AZ-01C	Open
241-AZ-02B	U-7	H-2-070782	SN-260 to 241-AN-B	Rigid jumper installed
AW-A Valve Pit				
241-AW-A	L-5	H-14-020802	Failed SL-161 to 241-AW-01A	Open
241-AW-A	L-10	H-14-020802	Spare	Isolation blank installed
241-AW-A	L-11	H-14-020802	Spare	Open

Table 2. Current Status. (5 Sheets)

Location	Nozzle	Drawing #	Use	Status
241-AW-A	L-12	H-14-020802	From V021 - PUREX	Process blank installed
241-AW-A	L-13	H-14-020802	Spare	Isolation blank installed
241-AW-A	L-16	H-14-020802	Existing flush to 241-AW-01A	Process blank installed
AW-B Valve Pit				
241-AW-B	R-2	H-14-020802	SN-219 to 241-A-B	Process blank installed
241-AW-B	R-5	H-14-020802	SL-162 to 241-AW-02A	Isolation blank installed
241-AW-B	R-10	H-14-020802	Spare	Isolation blank installed
241-AW-B	R-11	H-14-020802	V023 from PUREX	Rigid jumper installed
241-AW-B	R-12	H-14-020802	V022 from PUREX	Rigid jumper installed
241-AW-B	R-16	H-14-020802	Existing flush to 241-AW-02A	Process blank installed
241-AW-B	R-20	H-14-020802	Spare to 241-AW-04A	Isolation blank installed
A-151 Diversion Box				
241-A-151	22	H-14-020802	To V004	Process blank installed
241-A-151	21	H-14-020802	To V005	Process blank installed
241-A-151	20	H-14-020802	To V006	Process blank installed
241-A-151	17, 18, 19	H-14-020802	To V007	Process blank installed
241-A-151	14, 15, 16	H-14-020802	To V008	Process blank installed

PUREX = Plutonium-Uranium Extraction

*Information from other sources.

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