S

ENGINEERING CHANGE NOTICE

Page 1 of 21. ECN **662872**Proj.
ECN

2. ECN Category (mark one)		3. Originator's Name, Organization, MSIN, and Telephone No.		4. USQ Required?		5. Date	
Supplemental ☐ Direct Revision ☒ Change ECN ☐ Temporary ☐ Standby ☐ Supersedure ☐ Cancel/Void ☐		A. Artzer, CVDF, X3-78, 372-2801 6. Project Title/No./Work Order No. SNF/W-441, Spent Nuclear Fuel Cold Vacuum Drying		[X] Yes ☐ No 7. Bldg./Sys./Fac. No. CVDF 142K		9/14/00 8. Approval Designator S ^N Q	
		9. Document Numbers Changed by this ECN (includes sheet no. and rev.) SNF-3932, Rev. 4		10. Related ECN No(s). N/A		11. Related PO No. N/A	
12a. Modification Work		12b. Work Package No.		12c. Modification Work Complete		12d. Restored to Original Condition (Temp. or Standby ECN only)	
☐ Yes (fill out Blk. 12b) ☒ No (NA Blks. 12b, 12c, 12d)		N/A		N/A		N/A	
		Design Authority/Cog. Engineer Signature & Date				Design Authority/Cog. Engineer Signature & Date	
13a. Description of Change				13b. Design Baseline Document? ☐ Yes ☒ No			
SCHe Revised valve "A" dimension from 2.12" to 1.88". Replaced seat leakage "<0.1 SCC/min N2 @ 150 psig" with "15 minutes at 15 psig, (No leakage, No bubbles)". USQ Approval: <u> CVD-00-1754 </u>				SC			
14a. Justification (mark one)				14b. Justification Details			
Criteria Change ☐ Design Improvement ☒ Environmental ☐ Facility Deactivation ☐ As-Found ☐ Facilitate Const ☐ Const. Error/Omission ☐ Design Error/Omission ☐				Change in CGI documentation is required to reflect more up to date information from manufacturer and more appropriate test method. The design verification method for SC/SS components is by independent review in accordance with EN-6-027-01. Documentation of this review is accomplished by the independent review approval signature provided on page 2 of this ECN.			
15. Distribution (include name, MSIN, and no. of copies)						RELEASE STAMP	
See distribution sheet.							

ENGINEERING CHANGE NOTICE				Page 2 of 2	1. ECN (use no. from pg. 1) 662872																																	
16. Design Verification Required ☒ Yes ☐ No	17. Cost Impact <table style="width: 100%; border: none;"> <tr> <td colspan="2" style="text-align: center;">ENGINEERING</td> <td colspan="2" style="text-align: center;">CONSTRUCTION</td> </tr> <tr> <td style="width: 15%;">Additional</td> <td style="width: 15%;">[N/A]</td> <td style="width: 15%;">\$</td> <td style="width: 15%;">Additional</td> </tr> <tr> <td></td> <td></td> <td></td> <td>[N/A]</td> </tr> <tr> <td></td> <td></td> <td>\$</td> <td>\$</td> </tr> <tr> <td>Savings</td> <td>[N/A]</td> <td>\$</td> <td>Savings</td> </tr> <tr> <td></td> <td></td> <td></td> <td>[N/A]</td> </tr> <tr> <td></td> <td></td> <td>\$</td> <td>\$</td> </tr> </table>			ENGINEERING		CONSTRUCTION		Additional	[N/A]	\$	Additional				[N/A]			\$	\$	Savings	[N/A]	\$	Savings				[N/A]			\$	\$	18. Schedule Impact (days) Improve ment [N/A] Delay [N/A]						
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Additional	[N/A]	\$	Additional																																			
			[N/A]																																			
		\$	\$																																			
Savings	[N/A]	\$	Savings																																			
			[N/A]																																			
		\$	\$																																			
19. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 13. Enter the affected document number in Block 20.																																						
SDD/DD ☐ Functional Design Criteria ☐ Operating Specification ☐ Criticality Specification ☐ Conceptual Design Report ☐ Equipment Spec. ☐ Const. Spec. ☐ Procurement Spec. ☐ Vendor Information ☐ OM Manual ☐ FSAR/SAR ☐ Safety Equipment List ☐ Radiation Work Permit ☐ Environmental Impact Statement ☐ Environmental Report ☐ Environmental Permit ☐	Seismic/Stress Analysis ☐ Stress/Design Report ☐ Interface Control Drawing ☐ Calibration Procedure ☐ Installation Procedure ☐ Maintenance Procedure ☐ Engineering Procedure ☐ Operating Instruction ☐ Operating Procedure ☐ Operational Safety Requirement ☐ IEFD Drawing ☐ Cell Arrangement Drawing ☐ Essential Material Specification ☐ Fac. Proc. Samp. Schedule ☐ Inspection Plan ☐ Inventory Adjustment Request ☐	Tank Calibration Manual ☐ Health Physics Procedure ☐ Spares Multiple Unit Listing ☐ Test Procedures/Specification ☐ Component Index ☐ ASME Coded Item ☐ Human Factor Consideration ☐ Computer Software ☐ Electric Circuit Schedule ☐ ICRS Procedure ☐ Process Control Manual/Plan ☐ Process Flow Chart ☐ Purchase Requisition ☐ Tickler File ☐ N/A ☐																																				
20. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.																																						
Document Number/Revision	Document Number/Revision	Document Number/Revision																																				
N/A																																						
21. Approvals																																						
Design Authority Cog. Eng. Cog. Mgr. QA Safety Environ. Other Independent Review	<table style="width: 100%; border: none;"> <tr> <th style="text-align: left;">Signature</th> <th style="text-align: left;">Date</th> </tr> <tr> <td>C. Miska <i>[Signature]</i></td> <td>9/14/00</td> </tr> <tr> <td>C. Van Katwijk <i>[Signature]</i></td> <td>9/14/00</td> </tr> <tr> <td>C. Haller <i>[Signature]</i></td> <td>9/14/00</td> </tr> <tr> <td>R. K. Ramsgate <i>[Signature]</i></td> <td>9/14/00</td> </tr> <tr> <td>J. R. Brehm <i>[Signature]</i></td> <td>9/14/00</td> </tr> <tr> <td><i>[Signature]</i></td> <td></td> </tr> <tr> <td><i>[Signature]</i></td> <td></td> </tr> <tr> <td><i>[Signature]</i></td> <td></td> </tr> </table>	Signature	Date	C. Miska <i>[Signature]</i>	9/14/00	C. Van Katwijk <i>[Signature]</i>	9/14/00	C. Haller <i>[Signature]</i>	9/14/00	R. K. Ramsgate <i>[Signature]</i>	9/14/00	J. R. Brehm <i>[Signature]</i>	9/14/00	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		<table style="width: 100%; border: none;"> <tr> <th style="text-align: left;">Signature</th> <th style="text-align: left;">Date</th> </tr> <tr> <td>Design Agent</td> <td></td> </tr> <tr> <td>PE</td> <td></td> </tr> <tr> <td>QA</td> <td></td> </tr> <tr> <td>Safety</td> <td></td> </tr> <tr> <td>Design</td> <td></td> </tr> <tr> <td>Environ.</td> <td></td> </tr> <tr> <td>Other</td> <td></td> </tr> </table>	Signature	Date	Design Agent		PE		QA		Safety		Design		Environ.		Other			
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<div style="display: flex; justify-content: space-between;"> <div> <i>[Signature]</i> 9/14/00 <i>[Signature]</i> 9/14/00 J. L. Nelson <i>[Signature]</i> 9/14/00 </div> <div style="text-align: center;"> DEPARTMENT OF ENERGY Signature or a Control Number that tracks the Approval Signature <u>ADDITIONAL</u> </div> </div>																																						

DISTRIBUTION SHEET

To Distribution	From SNF-CVD	Page 1 of 1
Project Title/Work Order W-441, CGI Package		Date 9/14/00
		EDT No. N/A
		ECN No. 662872

[illegible]

Whitey/Swagelok SCHe Ball Valves-Provide Isolation Between SCHe Purge Lines C and D and the Process Vent

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Project Hanford Management Contractor for the
U.S. Department of Energy under Contract DE-AC06-96RL13200

Fluor Hanford
P.O. Box 1000
Richland, Washington

Whitey/Swagelok SCHe Ball Valves- Provide Isolation Between SCHe Purge Lines C and D and the Process Vent

Project No: W-441

Document Type: RPT

Division: SNF

C. R. Miska
Fluor Hanford Inc.

Date Published
September 2000

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

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

Fluor Hanford

P.O. Box 1000
Richland, Washington

Release Approval

9/15/00
Date

Release Stamp

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Printed in the United States of America

Total Pages: 13

Commercial Grade Item Upgrade Dedication Form		SNF-3932, Rev. 5
ECN No. NA	CGI No. CGI-SNF-D-30-P5-036	Page 2 of 9
Title: WHITEY/SWAGELOK SCH_e BALL VALVES – PROVIDE ISOLATION BETWEEN SCH_e PURGE LINES C AND D AND THE PROCESS VENT		

☒ NO (continue)
2. Question #2: Is the Item used in applications other than nuclear facilities or activities? ☐ NO (the item is not commercial grade) ☒ YES (continue)
3. Question #3: Is the Item ordered from manufacturer/supplier on the basis or specifications set forth in the Published product information (e.g., manufacturer's catalog)? ☐ NO (the Item is not commercial grade) ☒ YES (continue)
☒ All three criteria have been satisfied. The Item meets the definition of commercial grade.
Section 2d Reason for Dedication The above described Item is being Dedicated for use in the application cited for the following reason(s):
☐ Item is being purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Class application.
☒ Item is being purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Significant application.
☐ Item was purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Class application.
☐ Item was purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Significant application.
☐ Other ('like-for-like', similar, substitution, replacement evaluation)
Section 3 Failure Effects Evaluation
A. Part/Component Safety Function:
1. Prevent H₂ Explosion, by not restricting flow.
2. Provide Seismic 3/1 protection for adjacent SC and SS SSCs.
B. Part/Component Functional Mode:
Safety Function #1:
☐ Active – Mechanical or Electrical change of state is required to occur for the component to perform its safety function
☒ Passive – Change of state is not required for the component to perform its safety function
Safety Function #2:
☐ Active – Mechanical or Electrical change of state is required to occur for the component to perform its safety function.
☒ Passive – Change of state is not required for the component to perform its safety function
Safety Function #3:
☐ Active – Mechanical or Electrical change of state is required to occur for the component to perform its safety function.
☐ Passive – Change of state is not required for the component to perform its safety function
C. Host Component Safety Function (if applicable): NA
1.

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PROCESS VENT		

D. Failure Mode(s) and the effects on component or system safety function (see Worksheet 1):		
1. Valve Body Break. Could cause release of helium into the local environment instead of going to the process vent.		
Section 4 Environmental & Natural Phenomena Hazard Design		
Environmental Qualification Required: Yes [] No [X] Environmental Condition A	If yes: Environmental Qualification Requirements Limiting Environmental Conditions: Required Safety Functions: Qualification Period:	
Natural Phenomena Hazard (NPH) Design Required: Yes [X] No [] HNF-PRO-97 SNF-5304	If yes: NPH Design Requirements Performance Category: PC-2 NPH Design Req'ts.: Seismic Condition 3/1. Required Safety Functions: Prevent H₂ explosion, by not restricting flow. Provide Seismic 3/1 protection for adjacent SS and SC SSCs.	
Section 5 Component Functional Classification		
[] Safety Class (SC) [] General Service [X] Safety Significant (SS) If part/component classification is different from host component/system, document basis. NA		
Section 6 (Reserved)		
Section 7 (Reserved)		
Section 8 References (for Functional Classification)		
National Codes/Standards: ASME B31.3	Safety Analysis Report (SAR): HNF-3553, Annex B	Drawings: H-1-82165 HNF-SD-SNF-SEL-002
Vendor Manual/Manufacturer/Supplier Information: Whitey Co. Whitey "40" Series Ball Valves, W-1288, July, 1992.		
Other: NA		

Commercial Grade Item Upgrade Dedication Form		SNF-3932, Rev. 5
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Section 9 Critical Characteristics				
Critical Characteristics Verification Document: Vendor's Manual; HNF-SD-SNF-SEL-002	Acceptance Criteria/Tolerances	Acceptance Method	ID	Function
1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
Nameplate - Manufacturer	Whitey Co. / Swagelok (Note 5)	1, IN	X	
Valve-Component Number-Procurement and/or Model Number	SS-43VCO-5452-TR w/ NY-5K-43LL, (Per SNF-5304, Section H, Design Data Sheet)	1, IN	X	
"A" Dimension, Length	Nominal 1.88 Inches	1, IN	X	
2. Physical Critical Characteristics (for reasonable assurance that the Item delivered is the Item specified)				
Valve Body Material	Stainless Steel (Note 4)	1, IN 1, T	X	
3. Performance Critical Characteristics (for reasonable assurance that the Item will perform its intended safety function(s))				
Pressure Boundary Integrity	Pressure Test at 165 psig (No Bubbles) Note 3	1, T		X
Valve Seat Leakage	15 minutes at 15 psig, (No leakage, No bubbles)	1, T		X
Environmental	Note 1			
Seismic Condition 3/1 Event	Note 2			
4. Notes and Legend:		Acceptance Method:		
1. The ball valve Teflon packing is not subject to degradation from the 60°F and 40% RH or 75°F and 25% RH condition and is suitable for Environmental Condition A application. 2. Seismic 3/1 Event is not a critical characteristic for dedication of the component. 3. Pressure test at 110% of 150 psig system design pressure. 4. Material verification acceptance method may be by either inspection or test. 5. Either Whitey or Swagelok is acceptable. Rev. 4: Updated reference documentation. Rev. 5: Revised valve "A" dimension from 2.12" to 1.88". Replaced seat leakage "<0.1 SCC/min N2 @ 150 psig" with "15 minutes at 15 psig, (No leakage, No bubbles)".		1. Special Test and Inspection 1, IN for Inspection 1,T for Test 2. Commercial Grade Survey 3. Source Verification 4. Vendor/Item History		
Section 10 Initial Review and Approval				
Approvals: <i>ana for Carl Van Katwyk</i> Designated Engineer: <i>per telecon 9/14/00</i> Design Authority: <i>[Signature] 9/14/00</i> QA Engineer: <i>Mark M. Chafin 9/14/00</i>				

Commercial Grade Item Upgrade Dedication Form		SNF-3932, Rev. 5
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<u>ISOLATION BETWEEN SCH_e PURGE LINES C AND D AND THE</u> <u>PROCESS VENT</u>		

WORKSHEET 1 DETERMINATION OF FAILURE MECHANISMS/MODES SECTION 1		
Typical Failure Mechanisms	Definition	Applicable to Component under Evaluation
Fracture	Separation of a solid accompanied by little or no macroscopic plastic deformation.	Yes [] No [X]; If Yes, indicate failure Mode _____
Corrosion	The gradual deterioration of a material due to chemical or electrochemical reactions, such as oxidation, between the material and its environment.	Yes [] No [X]; If Yes, indicate failure Mode _____
Erosion	Destruction of materials by the abrasive action of moving fluids, usually accelerated by the presence of solid particles carried with the fluid.	Yes [] No [X]; If Yes, indicate failure Mode _____
Open Circuit	An electrical circuit that is unintentionally broken so that there is no complete path for current flow.	Yes [] No [X]; If Yes, indicate failure Mode _____
Short Circuit	An abnormal connection by which an electrical current is connected to ground, or to some conducting body, resulting in excessive current flow.	Yes [] No [X]; If Yes, indicate failure Mode _____
Blockage	Clogging of a filtering medium resulting in the inability to perform its purification function or blockage of flow.	Yes [] No [X]; If Yes, indicate failure Mode _____
Seizure	Binding of a normally moving item through excessive pressure, temperature, friction, jamming.	Yes [] No [X]; If Yes, indicate failure Mode _____
Unacceptable Vibration	Mechanical oscillations produced are beyond the defined permissible limits due to unbalancing, poor support, or rotation at critical speeds.	Yes [] No [X]; If Yes, indicate failure Mode _____
Loss of Properties	A loss of mechanical and physical properties of a material due to exposure to high temperatures, radiation exposure.	Yes [] No [X]; If Yes, indicate failure Mode _____
Excess Strain	Under the action of excessive external forces the material of the part has been deformed or distorted.	Yes [] No [X]; If Yes, indicate failure Mode _____
Mechanical Creep	From prolonged exposure to high temperature and stress, the object will show a slow change in its physical (shape and dimension) and mechanical characteristics.	Yes [] No [X]; If Yes, indicate failure Mode _____
Ductile Fracture	Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.	Yes [] No [X]; If Yes, indicate failure Mode _____
Section 2 Additional Failure Modes Applicable to the Component Under Evaluation		
1. Valve Body Break		

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**CHECKLIST 1
ACCEPTANCE METHOD 1
SPECIAL TEST/INSPECTION VERIFICATION**

SECTION 1			
Item Description: Whitey/Swagelok Ball Valve		Equip #: PV-V-*079, -*080	
System #: 30		Procurement and/or Model #: SS-43VCO4-5452-TR w/ NY-5K-43LL	
Manufacturer (Address/Phone): Whitey Co. 318 Bishop Road Highland Heights, OH 44143 P.O. #		Supplier (Address/Phone):	
SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.			
Insp	Test	Post-Test	
☒	☐	☐	1. Nameplate - Manufacturer
☒	☐	☐	2. Valve-Component Number-Procurement and/or Model Number
☒	☐	☐	3. "A" Dimension, Length
☒	☒	☐	4. Valve Body Material (Verification may be by either inspection or test)
☐	☒	☐	5. Pressure Boundary Integrity
☐	☒	☐	6. Valve Seat Leakage
SECTION 3 BY INSPECTION			
* See Attachment H of Desk Instruction for Sampling Size			
Characteristic: Nameplate - Manufacturer			
Sample Size*: All Items			
Acceptance Criteria: Whitey Co / Swagelok (Either Whitey or Swagelok is acceptable).			
Receipt Inspection Plan / Report #: _____			
References (see Section 8): _____			
Characteristic: Valve-Component Number-Procurement and/or Model Number			
Sample Size*: All Items			
Acceptance Criteria: SS-43VCO4-5452-TR w/ NY-5K-43LL, (Per SNF-5304, Section H, Design Data Sheet)			
Receipt Inspection Plan / Report #: _____			
References (see Section 8): : Whitey Co. – Whitey "40" Series Ball Valves, W-1288, July, 1992			

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Characteristic: "A" Dimension, Length Sample Size*: All Items Acceptance Criteria: Nominal 1.88 Inches Receipt Inspection Plan / Report #: _____ References (see Section 8): _____

Characteristic: Valve Body Material Sample Size*: Normal Sampling Size Acceptance Criteria: Stainless Steel Receipt Inspection Plan / Report #: _____ References (see Section 8): _____
--

SECTION 4 BY SPECIAL TEST

* See Attachment H of Desk Instruction for Sampling Size	
Test To Be Performed by: ☐ Purchaser ☐ Supplier/Manufacturer** ☐ Other	Number of Items to be Tested: Test/Inspection Location:

Characteristic for Test: Pressure Boundary Integrity Acceptance Criteria: Pressure Test at 165 psig (No Bubbles) Sample Size*: Normal Sampling Size Actual Test Value: Test Plan and Report #: _____ References (see Section 8): _____

Characteristic for Test: Valve Seat Leakage Acceptance Criteria: 15 minutes at 15 psig, (No leakage, No bubbles) Sample Size*: Normal Sampling Size Actual Test Value: Test Plan and Report #: _____ References (see Section 8): _____

**If Supplier/Manufacturer or Other, Refer to CGI Checklist-2 for Support Information

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Section 5 Test / Inspection Summary (Acceptance Method 1)											
1. SUMMARY OF VERIFIED CRITICAL CHARACTERISTICS, THEIR VERIFICATION METHODS, AND RESULTS											
ITEM DESCRIPTION:											
Critical Characteristics					Verification Results						
Critical Characteristics	Acceptance Criteria/Tolerances	ID	Function	Method T-1N	Procedure or RR#	Check-list ID	Number Tested	Number Failed	Verifying Organization	Printed Name Signature	Date
Namplate - Manufacturer	Whitey Co. / Swagelok (Either Whitey or Swagelok is acceptable).	X									
Valve-Component Number-Procurement and/or Model Number	SS-43VCO4-5452-TR w/ NY-5K-43LL, (Per SNF-5304, Section H, Design Data Sheet)	X									
"A" Dimension, Length	Nominal 1.88 Inches	X									
Valve Body Material	Stainless Steel	X									
Pressure Boundary Integrity	Pressure Test at 165 psig (No Bubbles)		X								
Valve Seat Leakage	15 minutes at 15 psig, (No leakage, No bubbles)		X								
2. DISPOSITION OF UNVERIFIED OR FAILED CRITICAL CHARACTERISTICS											
Disposition											
3. SIGNATURE INDICATES ALL CRITICAL CHARACTERISTICS VERIFIED SATISFACTORY OR ACCEPTABLY DISPOSITIONED AND COMMERCIAL GRADE DEDICATION IS SATISFACTORY AND COMPLETE.											
Testing Agency Approval: _____					BUYER VERIFICATION						
Testing Agency QA Engineer: _____					Design Authority: _____						
					Date: _____						
					QA Engineer: _____						
					Date: _____						

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<u>PROCESS VENT</u>		

Section 6 Contacts/Phone Numbers	
Name	Phone
Design Authority	()
QA	()
QC	()
Cog - Engineer	()
CGI Engineer	()
Procurement Engineer	()
Other	()
Section 7 Supporting Documentation for this Checklist	
Initial Procurement Documents	For Critical Characteristics
☐ Drawings:	
☐ Manuals (specify type & number):	
☐ Design Calculations	
☐ Installation Instructions	
☐ Operation Instructions	
☐ Calibration Instructions	
☐ Manufacturer's Recommended Spare Parts List	
☐ Other:	
Procurement Documents	
☐ Certificate of Conformance/Compliance	
☐ Seismic Qualification Certificate	
☐ Environmental Qualification Certificate	
☐ Test Report (s):	
☐ Inspection Report (s):	
☐ CMTRs for ASME Pressure Retaining Materials	
☐ Valve Seat Leakage Report	
☐ Weld Records	
☐ Material Traceability Record	
☐ Other:	