ENGINEERING CHANGE NOTICE

Page 1 of

2

1. ECN 662853

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		[X] Yes ☐ No		9/7/00	
		6. Project Title/No./Work Order No.		7. Bldg./Sys./Fac. No.		8. Approval Designator	
		SNF/W-441, Spent Nuclear Fuel Cold Vacuum Drying		CVDF 142K		S ^N Q	
		9. Document Numbers Changed by this ECN (includes sheet no. and rev.)		10. Related ECN No(s).		11. Related PO No.	
		SNF-3921, Rev. 5		N/A		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 Seat Leakage Acceptance Criteria from <0.1 SCC/min N2 @ 4000 psig to <0.1 SCC/min N2 @ 150 psig to match up with operating conditions and OTE-2131 test procedure.				SC			
USQ Approval: CVD-00-1651 JBuhm 9/7/00							
14a. Justification (mark one)				14b. Justification Details			
Criteria Change ☐ Design Improvement ☒ Environmental ☐ Facility Deactivation ☐ As-Found ☐ Facilitate Const ☐ Const. Error/Omission ☐ Design Error/Omission ☐				Seat leakage test is not needed at full design pressure because valves are open during normal operation. 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) 662853																														
16. Design Verification Required ☒ Yes ☒ No <i>9/7/00</i>	17. Cost Impact <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 50%;">ENGINEERING</td> <td style="text-align: center; width: 50%;">CONSTRUCTION</td> </tr> <tr> <td>Additional [N/A] \$</td> <td>Additional [N/A] \$</td> </tr> <tr> <td>Savings [N/A] \$</td> <td>Savings [N/A] \$</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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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 ☐ <div style="text-align: center; font-weight: bold;">N/A</div>																																	
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																																			
<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 Authority C. R. Miska <i>CR Miska</i></td> <td><i>9/7/00</i></td> </tr> <tr> <td>Cog. Eng. C. Van Katwijk <i>and for Carl Van Katwijk per below</i></td> <td><i>9/7/00</i></td> </tr> <tr> <td>Cog. Mgr. C. Haller <i>CHaller</i></td> <td><i>9/7/00</i></td> </tr> <tr> <td>QA R. K. Ramsgate <i>for R. K. Ramsgate (GM Davis)</i></td> <td><i>9/7/00</i></td> </tr> <tr> <td>Safety J. R. Brehm <i>for Jack A. Madach</i></td> <td><i>9/9/00</i></td> </tr> <tr> <td>Environ.</td> <td></td> </tr> <tr> <td>Other</td> <td></td> </tr> <tr> <td>Independent Review <i>J. Mullen</i></td> <td><i>9/27/00</i></td> </tr> </table>	Signature	Date	Design Authority C. R. Miska <i>CR Miska</i>	<i>9/7/00</i>	Cog. Eng. C. Van Katwijk <i>and for Carl Van Katwijk per below</i>	<i>9/7/00</i>	Cog. Mgr. C. Haller <i>CHaller</i>	<i>9/7/00</i>	QA R. K. Ramsgate <i>for R. K. Ramsgate (GM Davis)</i>	<i>9/7/00</i>	Safety J. R. Brehm <i>for Jack A. Madach</i>	<i>9/9/00</i>	Environ.		Other		Independent Review <i>J. Mullen</i>	<i>9/27/00</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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Signature	Date																																		
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Design																																			
Environ.																																			
Other																																			
<div style="text-align: center;"> <u>DEPARTMENT OF ENERGY</u> Signature or a Control Number that tracks the Approval Signature <u>ADDITIONAL</u> </div>																																			

[illegible]

Whitey SCHe Gauge/Root Valves

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

SNF-3921
Revision 6
ECN 662853

Whitey SCHe Gauge/Root Valves

Project No: W-441

Division: SNF

C. R. Miska
Fluor Hanford, Inc.

Date Published
September 2000

Prepared for the U.S. Department of Energy
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Fluor Hanford
P.O. Box 1000
Richland, Washington

Chris Braden
Release Approval

9/11/00
Date

Release Stamp

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Printed in the United States of America

Total Pages: 17

SNF-3921, Rev. 6

Commercial Grade Item Upgrade Dedication Form		SNF-3921, Rev. 6
ECN No. 662853	CGI No. CGI-SNF-D-13-P5-024	Page 1 of 13
Title: WHITEY SCHe GAUGE/ROOT VALVES		

Section 1 Part Information									
Item No.: NA		Manufacturer:	Supplier:						
Mfg. Part/Model No.:		Supplier's P/N:							
Part Description:									
End Use Description:									
Section 2a Component Information									
Equipment No.: SCHe-V-*064,*065, *082,*084 (4000 psig); SCHe-V-*069,*070, *083,*085,*088, *089,*077,*078 (150 psig)	Specification No.: SNF-5304 (W-441-P5)	Manufacturer: Whitey / Swagelok Co.	Past P.O. No.: NA						
Procurement and/or Model No.: SS-6PNBGM8-F8	Equipment Supplier (if different from manufacturer): TBD		Equip. Supplier's Part No.: NA						
Component Description: These valves are ½" ball valves fabricated of 316 stainless steel. Packing is TFE (standard). They are used as isolation valves for pressure instrumentation in the SCHe System between the helium bottle supply manifolds and safety class helium pressure instrumentation, and in lower pressure SCHe supply line.									
Section 2b Commercial Availability of the Item									
<p>1. Is the Item available from a catalogue of a qualified NQA1 supplier? (coordinate with project CGI interface Engineer or BTR)</p> <p>☐ YES (go to #2 below)</p> <p>☒ NO (go to procedure step 5.3.2, proceed to dedicate Item.)</p> <p>If not available from a qualified NQA1 supplier, is it available from an ISO 9000 supplier? (coordinate with project CGI interface Engineer or BTR)</p> <p>☐ YES (go to #2 below, then go to procedure step 5.3.2, proceed to dedicate Item)</p> <p>☒ NO (go to procedure step 5.3.2, proceed to dedicate Item.)</p>									
<p>2. List of Candidate qualified suppliers or ISO 9000 suppliers</p> <table border="0"> <tr> <td>company name & type</td> <td>contact name</td> <td>phone</td> </tr> <tr> <td colspan="3">NA</td> </tr> </table>				company name & type	contact name	phone	NA		
company name & type	contact name	phone							
NA									
3. Recommended Procurement Strategy (coordinate with project CGI interface Engineer or BTR): NA									

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Title: WHITEY SCHe GAUGE/ROOT VALVES		

Section 2c CGI Determination	
1. Question #1: Is the Item subject to design or specification requirements that are unique to nuclear facilities or activities?	☐ YES (the Item is not commercial grade) ☒ 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. Pressure boundary integrity/confinement. Prevents air inleakage/loss of SCHe during normal operation. Prevent H₂ Explosion	
2. Maintain critical function before and after Seismic event.	
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

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Title: WHITEY SCHe GAUGE/ROOT VALVES		

C. Host Component Safety Function (if applicable): NA		
1.		
D. Failure Mode(s) and the effects on component or system safety function (see Worksheet 1):		
1. Valve Body Break/Pressure boundary failure. Could cause a loss of SCHe supply from the affected bottle and manifold to the MCO.		
Section 4 Environmental & Natural Phenomena Hazard Design		
Environmental Qualification Required: Yes [] No [X] Environmental Condition B	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-3 NPH Design Req'ts.: Seismic Condition A Required Safety Functions: Maintain pressure boundary/confinement, prevent H₂ explosion.	
Section 5 Component Functional Classification		
[X] Safety Class (SC)	[] General Service	[] 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. W-1086		
Other: NA		

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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 / Swagelok Co. (Note 6)	1, IN	X	
Valve-Component Number-Procurement and/or Model Number	SS-6PNBGM8-F8, (Per SNF-5304, Section H, Design Data Sheet)	1, IN	X	
Process Connection	1/2" MNPT to 1/2' FNPT	1, IN	X	
2. Physical Critical Characteristics (for reasonable assurance that the Item delivered is the Item specified)				
Valve Body Material	Stainless Steel (Note 5)	1, IN 1, T	X	
Process Connection Material	Stainless Steel (Note 5)	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 SCHe-V-*064, *065, *082, and *084	Pressure Test at 4400 psig (No Leakage) Note 3	1, T		X
Pressure Boundary Integrity SCHe-V-*069, *070, *077, *078, *083, *085, *088, and *089	Pressure Test at 165 psig (No Leakage) Note 4	1, T		X
Valve Seat Leakage	<0.1 SCC/min N2 @ 150 psig	1, T		X
Environmental	Note 1			
Seismic Condition A	Note 2	1, T		X

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<p>4. Notes and Legend:</p> <ol style="list-style-type: none"> 1. These valves do not have non-metallic parts that are subject to degradation from the 40°F and 60% RH or 115°F and 22% RH condition and are suitable for Condition B application. 2. Maintain critical function before and after Seismic event. SNF-5304, Appendix I, page I-2, provides a seismic testing plan for these components at a seismic spectra SNF-4895. Equipment that has been shaker-table tested should not be installed in a plant (Ref. IEEE Standard 344-1984, Section 7). Consequently, the seismic test constitutes a destructive test. 3. Pressure test at 110% of design pressure of 4000 psig. For use of all valves for application at 4000 psig service, pressure test all valves at 4400 psig. 4. Pressure test at 110% of 150 psig system design pressure. 5. Material verification acceptance method may be by either inspection or test. 6. Either Whitey or Swagelok is acceptable. <p>Rev. 5: Updated reference documentation.</p> <p>Rev. 6: Revised Valve Seat Leakage Acceptance Criteria from <0.1 SCC/min N2 @ 4000 psig to <0.1 SCC/min N2 @ 150 psig to match up with operating conditions and OTE-2131 test procedure.</p>	<p>Acceptance Method:</p> <ol style="list-style-type: none"> 1. Special Test and Inspection 1, IN for Inspection 1,T for Test 2. Commercial Grade Survey 3. Source Verification 4. Vendor/Item History
--	--

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Section 10 Initial Review and Approval
<p>Approvals:</p> <p>Designated Engineer: <u>ana to Carl Van Katwijk per telecon 9/7/00</u></p> <p>Design Authority: <u>CE nm 2/7/00</u></p> <p>QA Engineer: <u>MLain (Gm Davis) 9/7/00</u></p>

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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 [] Mode _____	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 [] Mode _____	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 [] Mode _____	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 [] Mode _____	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 [] Mode _____	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 [] Mode _____	No [X]; If Yes, indicate failure Mode _____
Seizure	Binding of a normally moving item through excessive pressure, temperature, friction, jamming.	Yes [] Mode _____	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 [] Mode _____	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 [] Mode _____	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 [] Mode _____	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 [] Mode _____	No [X]; If Yes, indicate failure Mode _____
Ductile Fracture	Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.	Yes [] Mode _____	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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Title: WHITEY SCHe GAUGE/ROOT VALVES		

CHECKLIST 1
ACCEPTANCE METHOD 1
SPECIAL TEST/INSPECTION VERIFICATION

SECTION 1			
Item Description: Whitey / Swagelock SCHe Gauge/Root Valve System #: 13		Equip #: SCHe-V-*064, *065, *082, *084 (4000 psig); SCHe-V-*069, *070, *083, *085, *088, *089, *077, *078 (150 psig) Procurement and/or Model #: SS-6PNBGM8-F8	
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	
[X]	[]	[]	1. Nameplate - Manufacturer
[X]	[]	[]	2. Valve-Component Number-Procurement and/or Model Number
[X]	[]	[]	3. Process Connection
[X]	[X]	[]	4. Valve Body Material (Verification may be by either inspection or test)
[X]	[X]	[]	5. Process Connection Material (Verification may be by either inspection or test.
[]	[X]	[]	6. Pressure Boundary Integrity
[]	[X]	[]	7. Valve Seat Leakage
[]	[X]	[]	8. Seismic Condition A

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SECTION 3 BY INSPECTION
* See Attachment G of Desk Instruction for Sampling Size
Characteristic: Nameplate - Manufacturer Sample Size*: All Items Acceptance Criteria: Whitey / Swagelok Co. (Either Whitey or Swagelok is acceptable) Receipt Inspection Plan / Report #: _____ References (see Section 7): _____
Characteristic: Valve-Component Number-Procurement and/or Model Number Sample Size*: All Items Acceptance Criteria: SS-6PNBGM8-F8 Receipt Inspection Plan / Report #: _____ References (see Section 7): <u>Whitey Co. W-1086, July 1991</u>
Characteristic: Process Connection Sample Size*: All Items Acceptance Criteria: 1/2" MNPT TO 1/2" FNPT Receipt Inspection Plan / Report #: _____ References (see Section 7): _____
Characteristic: Valve Body Material Sample Size*: Normal Sampling Size Acceptance Criteria: Stainless Steel Receipt Inspection Plan / Report #: _____ References (see Section 7): _____
Characteristic: Process Connection Material Sample Size*: Normal Sampling Size Acceptance Criteria: Stainless Steel Receipt Inspection Plan / Report #: _____ References (see Section 7): _____

Commercial Grade Item Upgrade Dedication Form		SNF-3921. Rev. 6
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SECTION 4 BY SPECIAL TEST	
* See Attachment G 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 SCHe-V-*064, *065, *082, and *084 Acceptance Criteria: Pressure Test at 4400 psig (No Leakage) Sample Size*: Normal Sampling Size Actual Test Value: Test Plan and Report #: _____ References (see Section 7): _____	
Characteristic for Test: Pressure Boundary Integrity SCHe-V-*069, *070, *077, *078, *083, *085, *088, and *089 Acceptance Criteria: Pressure Test at 165 psig (No Leakage) Sample Size*: Pressure Boundary tests performed at 4400 psig can also be used to document the critical characteristic pressure boundary test at 165 psig for valves in the same lot. Actual Test Value: Test Plan and Report #: _____ References (see Section 7): _____	
Characteristic for Test: Valve Seat Leakage Acceptance Criteria: <0.1 SCC/min N2 @ 150 psig Sample Size*: Normal Sampling Size Actual Test Value: Test Plan and Report #: _____ References (see Section 7): _____	
Characteristic for Test: Seismic Condition A Acceptance Criteria: Maintain Critical Function Before And After Seismic Event. Sample Size*: SNF-5304, Appendix I, page I-2, provides the seismic testing plan for these components. The seismic testing is conducted for one complete panel with the components assembled on the panel and tested as a complete assembly. The test seismically qualifies the entire assembly, including mountings, piping, and components. The number of components tested is dictated by the panel assembly design. Actual Test Value: Test Plan and Report #: _____ References (see Section 7): _____	

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

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Title: WHITEY SCHe GAUGE/ROOT VALVES

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/IN	Procedure or RR#	Check- list ID	Number Tested	Number Failed	Verifying Organization	Printed Name Signature	Date
Nameplate - Manufacturer	Whitey / Swagelok Co. (Either Whitey or Swagelok is Acceptable)	X									
Valve-Component Number-Procurement and/or Model Number	SS-6PNBGM8-F8, (Per SNF-5304, Section H, Design Data Sheet)	X									
Process Connection	1/2" MNPT TO 1/2" FNPT	X									
Valve Body Material	Stainless Steel	X									
Process Connection Material	Stainless Steel	X									
Pressure Boundary Integrity SCHe-V- *064, *065, *082, and *084	Pressure Test at 4400 psig (No Leakage) NOTE 1		X								
Pressure Boundary Integrity SCHe-V.*069, *070, *077, *078, *083, *085, *088, and *089	Pressure Test at 165 psig (No Leakage)		X								
Valve Seat Leakage	<0.1 SCC/min N2 @ 150 psig		X								
Seismic Condition A	Maintain Critical Function Before and After Seismic Event.		X								
Note 1: Pressure test all valves at 4400 psig and test seat leakage at 150 psig for service at 4000 psig.											

2. DISPOSITION OF UNVERIFIED OR FAILED CRITICAL CHARACTERISTICS

09/11/00

Commercial Grade Item Upgrade Dedication Form		SNF-3921, Rev. 6
ECN No. <u>662853</u>	CGI No. <u>CGI-SNF-D-13-P5-024</u>	Page 12 of 13
Title: <u>WHITEY SCHe GAUGE/ROOT VALVES</u>		

Critical Characteristic	Disposition
3. SIGNATURE INDICATES ALL CRITICAL CHARACTERISTICS VERIFIED SATISFACTORY OR ACCEPTABLY DISPOSITIONED AND COMMERCIAL GRADE DEDICATION IS SATISFACTORY AND COMPLETE.	
Testing Agency Approval: _____ Date _____	BUYER VERIFICATION
Testing Agency QA Engineer: _____ Date _____	Design Authority: _____ Date _____
	QA Engineer: _____ Date _____

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Title: WHITEY SCHe GAUGE/ROOT VALVES		

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:	