

**ENGINEERING CHANGE NOTICE**

Page 1 of 2

1. ECN 663360

Proj.  
ECN

2. ECN Category (mark one)  Supplemental <input type="checkbox"/> Direct Revision <input checked="" type="checkbox"/> Change ECN <input type="checkbox"/> Temporary <input type="checkbox"/> Standby <input type="checkbox"/> Supersedure <input type="checkbox"/> Cancel/Void <input type="checkbox"/>	3. Originator's Name, Organization, MSIN, and Telephone No. A. Artzer, CVDF, X3-78, 372-2785	4. USQ Required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Date 10/19/00	
	6. Project Title/No./Work Order No. SNF/W-441, Spent Nuclear Fuel Cold Vacuum Drying	7. Bldg./Sys./Fac. No. CVDF 142K	8. Approval Designator S <sup>N</sup> Q	
	9. Document Numbers Changed by this ECN (includes sheet no. and rev.) SNF-3932, Rev. 5	10. Related ECN No(s). N/A	11. Related PO No. N/A	

12a. Modification Work  <input type="checkbox"/> Yes (fill out Blk. 12b) <input checked="" type="checkbox"/> No (NA Blks. 12b, 12c, 12d)	12b. Work Package No. N/A	12c. Modification Work Complete  N/A  _____ Design Authority/Cog. Engineer Signature & Date	12d. Restored to Original Condition (Temp. or Standby ECN only)  N/A  _____ Design Authority/Cog. Engineer Signature & Date
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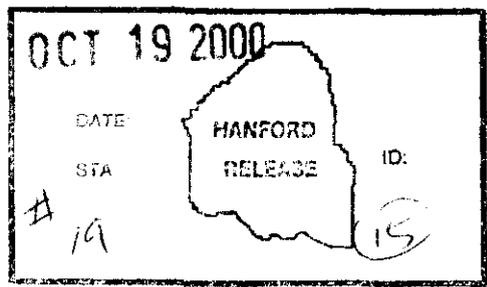
13a. Description of Change 13b. Design Baseline Document?  Yes  No

**SCHe** **SC**

Removed Critical Characteristic of "A" Dimension.

USQ Approval: CVD-00-2144 2140 tgh 10.19.00

14a. Justification (mark one) Criteria Change <input type="checkbox"/> Design Improvement <input checked="" type="checkbox"/> Environmental <input type="checkbox"/> Facility Deactivation <input type="checkbox"/> As-Found <input type="checkbox"/> Facilitate Const <input type="checkbox"/> Const. Error/Omission <input type="checkbox"/> Design Error/Omission <input type="checkbox"/>	14b. Justification Details  The valve length is specified by the Model Number making the measurement redundant.  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.
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15. Distribution (include name, MSIN, and no. of copies)  See distribution sheet.	RELEASE STAMP  
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# ENGINEERING CHANGE NOTICE

16. Design Verification Required [X] Yes [ ] No	17. Cost Impact <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">ENGINEERING</td> <td style="width: 50%; text-align: center;">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) Improvement [N/A] Delay [N/A]
ENGINEERING	CONSTRUCTION							
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	[ ]	Seismic/Stress Analysis	[ ]	Tank Calibration Manual	[ ]
Functional Design Criteria	[ ]	Stress/Design Report	[ ]	Health Physics Procedure	[ ]
Operating Specification	[ ]	Interface Control Drawing	[ ]	Spares Multiple Unit Listing	[ ]
Criticality Specification	[ ]	Calibration Procedure	[ ]	Test Procedures/Specification	[ ]
Conceptual Design Report	[ ]	Installation Procedure	[ ]	Component Index	[ ]
Equipment Spec.	[ ]	Maintenance Procedure	[ ]	ASME Coded Item	[ ]
Const. Spec.	[ ]	Engineering Procedure	[ ]	Human Factor Consideration	[ ]
Procurement Spec.	[ ]	Operating Instruction	[ ]	Computer Software	[ ]
Vendor Information	[ ]	Operating Procedure	[ ]	Electric Circuit Schedule	[ ]
OM Manual	[ ]	Operational Safety Requirement	[ ]	ICRS Procedure	[ ]
FSAR/SAR	[ ]	IEFD Drawing	[ ]	Process Control Manual/Plan	[ ]
Safety Equipment List	[ ]	Cell Arrangement Drawing	[ ]	Process Flow Chart	[ ]
Radiation Work Permit	[ ]	Essential Material Specification	[ ]	Purchase Requisition	[ ]
Environmental Impact Statement	[ ]	Fac. Proc. Samp. Schedule	[ ]	Tickler File	[ ]
Environmental Report	[ ]	Inspection Plan	[ ]	N/A	[ ]
Environmental Permit	[ ]	Inventory Adjustment Request	[ ]		[ ]

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

Signature	Date	Signature	Date
Design Authority C. Miska <i>[Signature]</i>	<u>10/19/00</u>	Design Agent	_____
Cog. Eng. N/A		PE	_____
Cog. Mgr. C. Haller <i>[Signature]</i>	<u>10/17/2000</u>	QA	_____
QA R. K. Ramsgate <i>[Signature]</i>	<u>10/19/00</u>	Safety	_____
Safety J. R. Brehm <i>[Signature]</i>	<u>10.19.00</u>	Design	_____
Environ.		Environ.	_____
Other		Other	_____
Independent Review <i>[Signature]</i>	<u>10/19/00</u>		_____
			_____
			_____
			_____
			_____
			_____
			_____
			_____
			_____
			_____
			_____
			_____

**DEPARTMENT OF ENERGY**  
Signature or a Control Number that tracks the Approval Signature

ADDITIONAL



# **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

Division: SNF

C. R. Miska  
Fluor Hanford, Inc.

Date Published  
October 2000

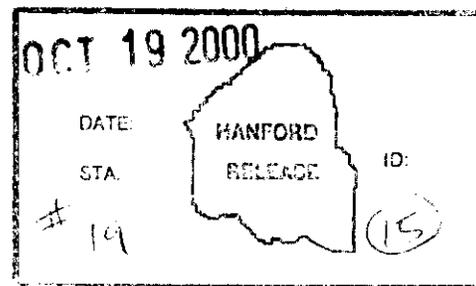
Prepared for the U.S. Department of Energy  
Assistant Secretary for Environmental Management

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

**Fluor Hanford**  
P.O. Box 1000  
Richland, Washington

*Janis Braden*  
Release Approval

10/19/00  
Date



Release Stamp

SNF-3932  
RWB

**TRADEMARK DISCLAIMER**

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Printed in the United States of America

Total Pages: 13



<b>Commercial Grade Item Upgrade Dedication Form</b>		SNF-3932, Rev. 6
ECN No. <b>NA</b>	CGI No. <b>CGI-SNF-D-30-P5-036</b>	Page 1 of 9
Title: <b>Whitey/Swagelok SCHe Ball Valves – Provide</b> <b>Isolation Between SCHe Purge Lines C and D and the process vent</b>		

**Section 1 Part Information**

Item No.: <b>NA</b>	Manufacturer:	Supplier:
Mfg. Part/Model No.:	Supplier's P/N:	
Part Description:		
End Use Description:		

**Section 2a Component Information**

Equipment No.: <b>PV-V-*079, -*080</b>	Specification No.: <b>SNF-5304</b> <b>(W-441-P5)</b>	Manufacturer: <b>Whitey Co./Swagelok</b>	Past P.O. No.: <b>N/A</b>
Procurement and/or Model No.: <b>SS-43VC04-5452-TR w/ NY-5K-43LL</b>	Equipment Supplier (if different from manufacturer): <b>N/A</b>		Equip. Supplier's Part No.: <b>N/A</b>

Component Description: **These valves are 1/2" ball valves fabricated of 316 stainless steel. Packing is TFE (standard). They provide an isolation function between SCHe Purge Line C, (PV-V-\*079), and Purge Line D, (PV-V-\*080), and the Process Vent.**

**Section 2b Commercial Availability of the Item**

- Is the Item available from a catalogue of a qualified NQA1 supplier? (coordinate with project CGI interface Engineer or BTR)
  - YES (go to #2 below)
  - NO (go to procedure step 6.3.2, proceed to dedicate Item.)

If not available from a qualified NQA1 supplier, is it available from an ISO 9000 supplier? (coordinate with project CGI interface Engineer or BTR)

  - YES (go to #2 below, then go to procedure step 6.3.2, proceed to dedicate Item)
  - NO (go to procedure step 6.3.2, proceed to dedicate Item.)
- List of Candidate qualified suppliers or ISO 9000 suppliers
 

company name & type	contact name	phone
<b>NA</b>		
- Recommended Procurement Strategy (coordinate with project CGI interface Engineer or BTR): **NA**

**Section 2c CGI Determination**

- 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)

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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 H<sub>2</sub> 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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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 [ <b>X</b> ]	If yes: Environmental Qualification Requirements Limiting Environmental Conditions: Required Safety Functions: Qualification Period:
<b>Environmental Condition A</b>	
Natural Phenomena Hazard (NPH) Design Required: Yes [ <b>X</b> ] No [ ]	If yes: NPH Design Requirements Performance Category: <b>PC-2</b> NPH Design Req'ts.: <b>Seismic Condition 3/1.</b> Required Safety Functions: <b>Prevent H<sub>2</sub> explosion, by not restricting flow. Provide Seismic 3/1 protection for adjacent SS and SC SSCs.</b>
<b>HNF-PRO-97</b> <b>SNF-5304</b>	

**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: <b>ASME B31.3</b>	Safety Analysis Report (SAR): <b>HNF-3553, Annex B</b>	Drawings: <b>H-1-82165</b> <b>HNF-SD-SNF-SEL-002</b>
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Vendor Manual/Manufacturer/Supplier Information: **Whitey Co. Whitey "40" Series Ball Valves, W-1288, July, 1992.**

Other: **NA**

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Section 9 Critical Characteristics

Critical Characteristics Verification Document: <b>Vendor's Manual; HNF-SD-SNF-SEL-002</b>	Acceptance Criteria/Tolerances	Acceptance Method	ID	Function
1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
<b>Nameplate - Manufacturer</b>	<b>Whitey Co. / Swagelok (Note 5)</b>	<b>1, IN</b>	<b>X</b>	
<b>Valve-Component Number- Procurement and/or Model Number</b>	<b>SS-43VCO-5452-TR w/ NY-5K-43LL, (Per SNF-5304, Section H, Design Data Sheet)</b>	<b>1, IN</b>	<b>X</b>	
2. Physical Critical Characteristics (for reasonable assurance that the Item delivered is the Item specified)				
<b>Valve Body Material</b>	<b>Stainless Steel (Note 4)</b>	<b>1, IN 1, T</b>	<b>X</b>	
3. Performance Critical Characteristics (for reasonable assurance that the Item will perform its intended safety function(s))				
<b>Pressure Boundary Integrity</b>	<b>Pressure Test at 165 psig (No Bubbles) Note 3</b>	<b>1, T</b>		<b>X</b>
<b>Valve Seat Leakage</b>	<b>15 minutes at 15 psig, (No leakage, No bubbles)</b>	<b>1, T</b>		<b>X</b>
<b>Environmental</b>	<b>Note 1</b>			
<b>Seismic Condition 3/1 Event</b>	<b>Note 2</b>			
4. Notes and Legend:		Acceptance Method:		
<p>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.</p> <p>2. Seismic 3/1 Event is not a critical characteristic for dedication of the component.</p> <p>3. Pressure test at 110% of 150 psig system design pressure.</p> <p>4. Material verification acceptance method may be by either inspection or test.</p> <p>5. Either Whitey or Swagelok is acceptable.</p> <p>Rev. 4: Updated reference documentation.</p> <p>Rev. 5: Revised valve "A" dimension from 2.12" to 1.88". Replaced seat leakage "&lt;0.1 SCC/min N2 @ 150 psig" with "15 minutes at 15 psig, (No leakage, No bubbles)"</p> <p>Rev. 6: Removed Critical Characteristic of "A" Dimension. The valve length is specified by the Model Number making the measurement redundant.</p>		<p>1. Special Test and Inspection 1, IN for Inspection 1, T for Test</p> <p>2. Commercial Grade Survey</p> <p>3. Source Verification</p> <p>4. Vendor/Item History</p>		

Section 10 Initial Review and Approval

Approvals:	<i>and per telecon</i>
Designated Engineer:	<i>for Carl Van Katwijk 10/19/00</i>
Design Authority:	<i>John P. ... per telecon for CRM 10/19/00</i>
QA Engineer:	<i>10/19/00</i>

Teflon trademark of E.I. du Pont de Nemours, Wilmington, Delaware

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<u>Isolation Between SCHe Purge Lines C and D and the 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 [ <b>X</b> ]; 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 [ <b>X</b> ]; 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 [ <b>X</b> ]; 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 [ <b>X</b> ]; 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 [ <b>X</b> ]; 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 [ <b>X</b> ]; If Yes, indicate failure Mode _____
Seizure	Binding of a normally moving item through excessive pressure, temperature, friction, jamming.	Yes [ ] No [ <b>X</b> ]; 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 [ <b>X</b> ]; 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 [ <b>X</b> ]; 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 [ <b>X</b> ]; 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 [ <b>X</b> ]; If Yes, indicate failure Mode _____
Ductile Fracture	Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.	Yes [ ] No [ <b>X</b> ]; If Yes, indicate failure Mode _____
Section 2 Additional Failure Modes Applicable to the Component Under Evaluation		
1. <b>Valve Body Break</b>		

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

SECTION 1			
Item Description: <b>Whitey/Swagelok Ball Valve</b>		Equip #: <b>PV-V-*079, -*080</b>	
System #: <b>30</b>		Procurement and/or Model #: <b>SS-43VCO4-5452-TR w/ NY-5K-43LL</b>	
Manufacturer (Address/Phone): <b>Whitey Co.</b> <b>318 Bishop Road</b> <b>Highland Heights, OH 44143</b> 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 ]	[ X ]	[ ]	3. Valve Body Material (Verification may be by either inspection or test)
[ ]	[ X ]	[ ]	4. Pressure Boundary Integrity
[ ]	[ X ]	[ ]	5. Valve Seat Leakage
SECTION 3 BY INSPECTION			
* See Appendix D, Table D-1, of Administrative Procedure EN-6-035-01 for Sampling Size			
Characteristic: <b>Nameplate - Manufacturer</b>			
Sample Size*: <b>All Items</b>			
Acceptance Criteria: <b>Whitey Co / Swagelok (Either Whitey or Swagelok is acceptable).</b>			
Receipt Inspection Plan / Report #: _____			
References (see Section 8): _____			
Characteristic: <b>Valve-Component Number-Procurement and/or Model Number</b>			
Sample Size*: <b>All Items</b>			
Acceptance Criteria: <b>SS-43VCO4-5452-TR w/ NY-5K-43LL, (Per SNF-5304, Section H, Design Data Sheet)</b>			
Receipt Inspection Plan / Report #: _____			
References (see Section 8): ): <b>Whitey Co. – Whitey “40” Series Ball Valves, W-1288, July, 1992</b>			

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Characteristic:

Sample Size\*:

Acceptance Criteria:

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 Appendix D, Table D-1, of Administrative Procedure EN-6-035-01 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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Isolation Between SCHe Purge Lines C and D and the process vent

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
<b>Nameplate - Manufacturer</b>	<b>Whitey Co. / Swagelok (Either Whitey or Swagelok is acceptable).</b>	<b>X</b>									
<b>Valve-Component Number-Procurement and/or Model Number</b>	<b>SS-43VCO4-5452-TR w/ NY-5K-43LL, (Per SNF-5304, Section H, Design Data Sheet)</b>	<b>X</b>									
<b>Valve Body Material</b>	<b>Stainless Steel</b>	<b>X</b>									
<b>Pressure Boundary Integrity</b>	<b>Pressure Test at 165 psig (No Bubbles)</b>		<b>X</b>								
<b>Valve Seat Leakage</b>	<b>15 minutes at 15 psig, (No leakage, No bubbles)</b>		<b>X</b>								

## 2. DISPOSITION OF UNVERIFIED OR FAILED CRITICAL CHARACTERISTICS

	<b>Disposition</b>

## 3. SIGNATURE INDICATES ALL CRITICAL CHARACTERISTICS VERIFIED SATISFACTORY OR ACCEPTABLY DISPOSITIONED AND COMMERCIAL GRADE DEDICATION IS SATISFACTORY AND COMPLETE.

Testing Agency Approval: _____	Date: _____
Testing Agency QA Engineer: _____	Date: _____
BUYER VERIFICATION	
Design Authority: _____	Date: _____
QA Engineer: _____	Date: _____

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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
<input type="checkbox"/> Drawings:	
<input type="checkbox"/> Manuals (specify type & number):	
<input type="checkbox"/> Design Calculations	
<input type="checkbox"/> Installation Instructions	
<input type="checkbox"/> Operation Instructions	
<input type="checkbox"/> Calibration Instructions	
<input type="checkbox"/> Manufacturer's Recommended Spare Parts List	
<input type="checkbox"/> Other:	
<b>Procurement Documents</b>	
<input type="checkbox"/> Certificate of Conformance/Compliance	
<input type="checkbox"/> Seismic Qualification Certificate	
<input type="checkbox"/> Environmental Qualification Certificate	
<input type="checkbox"/> Test Report (s):	
<input type="checkbox"/> Inspection Report (s):	
<input type="checkbox"/> CMTRs for ASME Pressure Retaining Materials	
<input type="checkbox"/> Valve Seat Leakage Report	
<input type="checkbox"/> Weld Records	
<input type="checkbox"/> Material Traceability Record	
<input type="checkbox"/> Other:	