

## ENGINEERING CHANGE NOTICE

Page 1 of 21. ECN 661400Proj.  
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 [x]	T. Nuxall, CVDF, R3-86, 372-3739	[x] Yes <input type="checkbox"/> No	6/19/00
	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 142-K	S <sup>N</sup> 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. 3, SNF-3927, Rev. 2 SNF-3928, Rev. 1, SNF-3932, Rev. 2, SNF-4627, Rev. 1, SNF-3926, Rev. 2	N/A	N/A

12a. Modification Work	12b. Work Package No.	12c. Modification Work Complete	12d. Restored to Original Condi- tion (Temp. or Standby ECN only)
<input type="checkbox"/> Yes (fill out Blk. 12b) [X] 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

SC

SCHe

SNF-3921, Rev. 3, SNF-3927, Rev. 2, SNF-3928, Rev. 1, SNF-3932, Rev. 2, SNF-4627, Rev. 1;  
Revised to match previous modifications to SNF-5304.

SNF-3926;

This document has been cancelled it was previously merged with SNF-3929.

USQ Approval: CVD-00-113586 6/20/06

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"/>

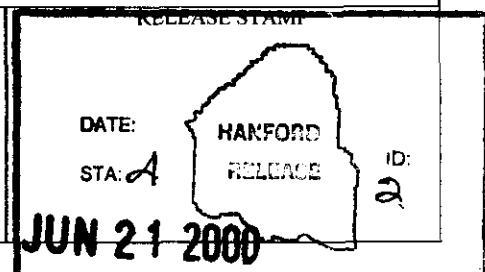
14b. Justification Details

Revised to match previous modifications to SNF-5304.

The design verification method for SS/SC 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)

See Distribution



**ENGINEERING CHANGE NOTICE**

1. ECN (use no. from pg. 1)

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16. Design Verification Required

17. Cost Impact

18. Schedule Impact (days)

 Yes

## ENGINEERING

## CONSTRUCTION

 No

Additional

 \$

Additional

 \$

Savings

 \$

Savings

 \$

Improvement

Delay

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	<input type="checkbox"/>	Seismic/Stress Analysis	<input type="checkbox"/>	Tank Calibration Manual	<input type="checkbox"/>
Functional Design Criteria	<input type="checkbox"/>	Stress/Design Report	<input type="checkbox"/>	Health Physics Procedure	<input type="checkbox"/>
Operating Specification	<input type="checkbox"/>	Interface Control Drawing	<input type="checkbox"/>	Spares Multiple Unit Listing	<input type="checkbox"/>
Criticality Specification	<input type="checkbox"/>	Calibration Procedure	<input type="checkbox"/>	Test Procedures/Specification	<input type="checkbox"/>
Conceptual Design Report	<input type="checkbox"/>	Installation Procedure	<input type="checkbox"/>	Component Index	<input type="checkbox"/>
Equipment Spec.	<input type="checkbox"/>	Maintenance Procedure	<input type="checkbox"/>	ASME Coded Item	<input type="checkbox"/>
Const. Spec.	<input type="checkbox"/>	Engineering Procedure	<input type="checkbox"/>	Human Factor Consideration	<input type="checkbox"/>
Procurement Spec.	<input type="checkbox"/>	Operating Instruction	<input type="checkbox"/>	Computer Software	<input type="checkbox"/>
Vendor Information	<input type="checkbox"/>	Operating Procedure	<input type="checkbox"/>	Electric Circuit Schedule	<input type="checkbox"/>
OM Manual	<input type="checkbox"/>	Operational Safety Requirement	<input type="checkbox"/>	ICRS Procedure	<input type="checkbox"/>
FSAR/SAR	<input type="checkbox"/>	IEFD Drawing	<input type="checkbox"/>	Process Control Manual/Plan	<input type="checkbox"/>
Safety Equipment List	<input type="checkbox"/>	Cell Arrangement Drawing	<input type="checkbox"/>	Process Flow Chart	<input type="checkbox"/>
Radiation Work Permit	<input type="checkbox"/>	Essential Material Specification	<input type="checkbox"/>	Purchase Requisition	<input type="checkbox"/>
Environmental Impact Statement	<input type="checkbox"/>	Fac. Proc. Samp. Schedule	<input type="checkbox"/>	Tickler File	<input type="checkbox"/>
Environmental Report	<input type="checkbox"/>	Inspection Plan	<input type="checkbox"/>		<input type="checkbox"/>
Environmental Permit	<input type="checkbox"/>	Inventory Adjustment Request	<input type="checkbox"/>		<input type="checkbox"/>

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.

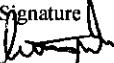
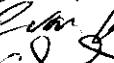
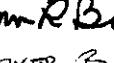
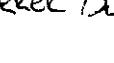
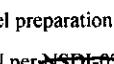
Document Number/Revision

Document Number/Revision

Document Number Revision

NA

21. Approvals

	Signature	Date	Signature	Date
Design Authority C. Miska		6-19-00	Design Agent	
Cog. Eng. C. VanKatwijk		6-19-00	PE	
Cog. Mgr. T. Choho		6-20-00	QA	
QA H. Chafin		6/20/00	Safety	
Safety J. Brehm		6/20/00	Design	
Independent Reviewer B. PARKER <i>B. Parker</i>		6/29/00	Environ.	
Other: * C. Haller			Other	

\* Approval authorized parallel preparation of USQ screen

with implementation of ECN per NSDI-02.

03-4-001 6/20/00

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

SNF-3932  
Revision 3

ECN 661400

# **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 Van Katwijk  
FH

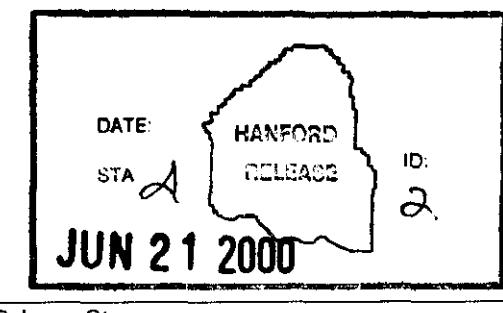
Date Published  
June 2000

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

*W. Van Katwijk* 6/21/00  
Release Approval Date



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Total Pages: 13

SNF-3932, nw3



# Commercial Grade Item Upgrade Dedication Form

SNF-3932, Rev. 3

ECN No. **NA** CGI No. **CGI-SNF-D-30-P5-036**

Title: **WHITEY/SWAGELOK SCHe BALL VALVES – PROVIDE  
ISOLATION BETWEEN SCHe PURGE LINES C AND D AND THE  
PROCESS VENT**

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## Section 1 Part Information

Item No.: <b>NA</b>	Manufacturer:	Supplier:
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Mfg. Part/Model No.:	Supplier's P/N:
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Part Description:
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End Use Description:
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## Section 2a Component Information

Equipment No.: <b>PV-V-*079, -*080</b>	Specification No.: <b>SNF-5304, Rev. 0 (W-441-P5, Rev. 2)</b>	Manufacturer: <b>Whitey Co./Swagelok</b>	Past P.O. No.: <b>NA</b>
-------------------------------------------	----------------------------------------------------------------------	---------------------------------------------	--------------------------

Procurement and/or Model No.: <b>SS-43VC04-5452-TR w/ NY-5K-43LL</b>	Equipment Supplier (if different from manufacturer): <b>TBD</b>	Equip. Supplier's Part No.: <b>NA</b>
-----------------------------------------------------------------------------	--------------------------------------------------------------------	------------------------------------------

Component Description: **These valves are 1/4" 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

1. 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.)

2. List of Candidate qualified suppliers or ISO 9000 suppliers

company name & type

contact name

phone

**NA**

3. Recommended Procurement Strategy (coordinate with project CGI interface Engineer or BTR): **NA**

## 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)

# Commercial Grade Item Upgrade Dedication Form

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ECN No. NA CGI No. CGI-SNF-D-30-P5-036

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Title: **WHITEY/SWAGELOK SChE BALL VALVES – PROVIDE**  
**ISOLATION BETWEEN SChE PURGE LINES C AND D AND THE**  
**PROCESS VENT**

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 of 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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Title: WHITEY/SWAGELOK SCHe BALL VALVES – PROVIDE  
ISOLATION BETWEEN SCHe PURGE LINES C AND D AND THE  
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 &amp; Natural Phenomena Hazard Design

Environmental Qualification Required:

Yes 

If yes: Environmental Qualification Requirements

No 

Limiting Environmental Conditions:

## Environmental Condition A

Required Safety Functions:

Qualification Period:

Natural Phenomena Hazard (NPH) Design Required:

Yes 

If yes: NPH Design Requirements

No 

Performance Category: PC-2

**HNF-PRO-97, Rev. 0**NPH Design Req'ts.: **Seismic Condition 3/1.****W-441-P5, Rev. 2**Required Safety Functions: Prevent H<sub>2</sub> 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 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, Rev. 0a, Annex B**Drawings: **H-1-82165, Rev. 2****HNF-SD-SNF-SEL-002, Rev. 6A**Vendor Manual/Manufacturer/Supplier Information: **Whitey Co. Whitey "40" Series Ball Valves, W-1288, July, 1992.**Other: **NA**

## Commercial Grade Item Upgrade Dedication Form

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Section 9 Critical Characteristics				
Critical Characteristics Verification Document: <b>Vendor's Manual; HNF-SD-SNF-SEL-002, Rev. 6A</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 Procurement Package W-441-P5, Rev. 2, Section H, Design Data Sheet)</b>	<b>1, IN</b>	<b>X</b>	
<b>"A" Dimension, Length</b>	<b>Nominal 2.12 Inches</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</b>	<b>X</b>	
		<b>1, T</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>&lt;0.1 SCC/min N2 @ 150 psig</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:		
<ol style="list-style-type: none"> <li><b>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.</b></li> <li><b>Seismic 3/1 Event is not a critical characteristic for dedication of the component.</b></li> <li><b>Pressure test at 110% of 150 psig system design pressure.</b></li> <li><b>Material verification acceptance method may be by either inspection or test.</b></li> <li><b>Either Whitey or Swagelok is acceptable.</b></li> </ol>		<ol style="list-style-type: none"> <li><b>Special Test and Inspection</b> 1, IN for Inspection 1, T for Test</li> <li><b>Commercial Grade Survey</b></li> <li><b>Source Verification</b></li> <li><b>Vendor/Item History</b></li> </ol>		
Section 10 Initial Review and Approval				
Approvals:				
Designated Engineer:	<u>John K. 6-19-00</u>			
Design Authority:	<u>John K. 6-19-00</u>			
QA Engineer:	<u>John K. 6/20/00</u>			

## Commercial Grade Item Upgrade Dedication Form

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ECN No. NA CGI No. CGI-SNF-D-30-P5-036Title: WHITEY/SWAGELOK SChE BALL VALVES – PROVIDE  
ISOLATION BETWEEN SChE PURGE LINES C AND D AND THE  
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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 <input type="checkbox"/> No <input checked="" type="checkbox"/> [ 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> [ 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> [ 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> [ 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> [ X ]; If Yes, indicate failure Mode _____
Blockage	<i>Clogging of a filtering medium resulting in the inability to perform its purification function or blockage of flow.</i>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> [ X ]; If Yes, indicate failure Mode _____
Seizure	Binding of a normally moving item through excessive pressure, temperature, friction, jamming.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> [ 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> [ 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> [ 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> [ 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> [ X ]; If Yes, indicate failure Mode _____
Ductile Fracture	Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> [ X ]; If Yes, indicate failure Mode _____

## Section 2 Additional Failure Modes Applicable to the Component Under Evaluation

1. **Valve Body Break**

## Commercial Grade Item Upgrade Dedication Form

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ISOLATION BETWEEN SCHe PURGE LINES C AND D AND THE  
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CHECKLIST 1  
ACCEPTANCE METHOD 1  
SPECIAL TEST/INSPECTION VERIFICATION

## SECTION 1

Item Description: <b>Whitey/Swagelok Ball Valve</b> System #: <b>30</b>	Equip #: <b>PV-V-*079, -*080</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	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>1. Nameplate - Manufacturer</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>2. Valve-Component Number-Procurement and/or Model Number</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>3. "A" Dimension, Length</b>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>4. Valve Body Material (Verification may be by either inspection or test)</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>5. Pressure Boundary Integrity</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>6. Valve Seat Leakage</b>

## 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 Procurement Package W-441-P5, Rev. 2, Section H, Design Data Sheet)**

Receipt Inspection Plan / Report #: \_\_\_\_\_

References (see Section 8): **Whitey Co. – Whitey "40" Series Ball Valves, W-1288, July, 1992**

**Commercial Grade Item Upgrade Dedication Form**

SNF-3932, Rev. 3

ECN No. NA      CGI No. CGI-SNF-D-30-P5-036

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**Title: WHITEY/SWAGELOK SCH<sub>E</sub> BALL VALVES – PROVIDE  
ISOLATION BETWEEN SCH<sub>E</sub> PURGE LINES C AND D AND THE  
PROCESS VENT**

**Characteristic: "A" Dimension, Length****Sample Size\*:** All Items**Acceptance Criteria:** Nominal 2.12 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:

Number of Items to be Tested:

 Purchaser

Test/Inspection Location:

 Supplier/Manufacturer\*\* Other**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:** <0.1 SCC/min N2 @ 150 psig**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

Commercial Grade Item Upgrade Dedication Form		SNF-3932, Rev. 3
ECN No. <u>NA</u>	CGI No. <u>CGI-SNF-D-30-P5-036</u>	Page 8 of 10
Title: <u>WHITEY/SWAGELOK SCHE BALL VALVES - PROVIDE ISOLATION BETWEEN SCHE PURGE LINES C AND D AND THE PROCESS VENT</u>		

<b>Section 5 Test / Inspection Summary (Acceptance Method )</b>											
<b>1. SUMMARY OF VERIFIED CRITICAL CHARACTERISTICS, THEIR VERIFICATION METHODS, AND RESULTS</b>											
<b>ITEM DESCRIPTION:</b>											
<b>Critical Characteristics</b>											
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>	X									
<b>Valve-Component Number-Procurement and/or Model Number</b>	<b>SS-43VCO4-5452-TR w/ NY-5K-43LL, (Per Procurement Package W-441-P5, Rev. 2, Section H, Design Data Sheet)</b>	X									
<b>"A" Dimension, Length</b>	<b>Nominal 2.12 Inches</b>	X									
<b>Valve Body Material</b>	<b>Stainless Steel</b>	X									
<b>Pressure Boundary Integrity</b>	<b>Pressure Test at 165 psig (No Bubbles)</b>	X									
<b>Valve Seat Leakage</b>	<b>&lt; 0.1 SCC/min N2 @ 150 psig</b>	X									

Commercial Grade Item Upgrade Dedication Form		SNF-3932, Rev. 3
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<p><u>WHITEY/SWAGELOK SCHE BALL VALVES – PROVIDE</u></p> <p><u>ISOLATION BETWEEN SChE PURGE LINES C AND D AND THE</u></p> <p><u>PROCESS VENT</u></p>		

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

# Commercial Grade Item Upgrade Dedication Form

SNF-3932, Rev. 3

ECN No. NA      CGI No. CGI-SNF-D-30-P5-036

Title: **WHITEY/SWAGELOK SCHe BALL VALVES – PROVIDE  
ISOLATION BETWEEN SCHe PURGE LINES C AND D AND THE  
PROCESS VENT**

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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:	
Procurement Documents	
<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:	