

ENGINEERING CHANGE NOTICE

1. ECN **662315**

Page 1 of 2

Proj.
ECN

2. ECN Category (mark one) Supplemental Direct Revision Change ECN Temporary Standby Supersedure Cancel/Void	3. Originator's Name, Organization, MSIN, and Telephone No. T. Nuxall, CVDF, R3-86, 372-3739		
	4. USQ Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	5. Date 9/2/00		
	6. Project Title/No./Work Order No. SNF/W-441 Spent Nuclear Fuel Cold Vacuum Drying		
7. Bidg./Sys./Fac. No. CVDF 142-K			
8. Approval Designator Q			
9. Document Numbers Changed by this ECN (includes sheet no. and rev.) See block 13a			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 <hr/> Design Authority/Cog. Engineer Signature & Date	12d. Restored to Original Condi- tion (Temp. or Standby ECN only) N/A
	<hr/> Design Authority/Cog. Engineer Signature & Date		

13a. Description of Change

13b. Design Baseline Document? Yes No

SC

SCHe

SNF-3893, Rev. 1, SNF-3895, Rev. 2, SNF-3920, Rev. 2, SNF-3921, Rev. 4, SNF-3922, Rev. 1, SNF-3924, Rev. 1, SNF-3925, Rev. 1, SNF-3927, Rev. 3, SNF-3928, Rev. 2, SNF-3929, Rev. 5, SNF-3931, Rev. 2, SNF-3932, Rev. 3, SNF-4627, Rev. 2

Updated document numbers and deleted revision numbers.

USQ Approval: CX B.1 from AP-NS-4-001-15.

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

Editorial changes for configuration control.

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 sheet.

RELEASE STAMP

SEP 32 2000 <small>(JLB 9/3/00)</small>	
DATE:	STA.:
19	HANFORD RELEASE
ID: 15	

ENGINEERING CHANGE NOTICE				Page 2 of 2		1. ECN (use no. from pg. 1) 662315
16. Design Verification Required <input checked="" type="checkbox"/> Yes <i>9/2/00</i> <input checked="" type="checkbox"/> No	17. Cost Impact NA ENGINEERING Additional Savings <input type="checkbox"/> \$ <input type="checkbox"/> \$ CONSTRUCTION Additional Savings <input type="checkbox"/> \$ <input type="checkbox"/> \$				18. Schedule Impact (days) NA Improvement <input type="checkbox"/> Delay <input type="checkbox"/>	
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"/>	NA <input checked="" type="checkbox"/>		
Environmental Permit	<input type="checkbox"/>	Inventory Adjustment Request	<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						
Design Authority	Signature	Date	Signature			
C. Miska	<i>C. Miska</i>	<u>9-2-00</u>	Design Agent			
Cog. Eng. N/A			PE			
Cog. Mgr. C. Haller	<i>B. Parker for C. Haller</i>	<u>9-2-00</u>	QA			
QA H. Chafin	<i>Hank M. Chafin</i>	<u>9/2/00</u>	Safety			
Safety N/A			Design			
Ind. Review B. Parker	<i>B. Parker</i>	<u>9-2-00</u>	Environ.			
			Other			
DEPARTMENT OF ENERGY						
Signature or a Control Number that tracks the Approval Signature						
ADDITIONAL						

DISTRIBUTION SHEET

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 4

ECN 662315

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 Miska
FH

Date Published
September 2000

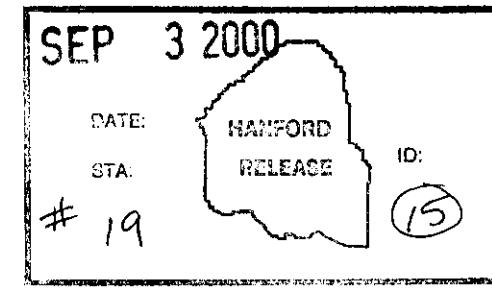
Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

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

Fluor Hanford
P.O. Box 1000
Richland, Washington

John S. Braden
Release Approval

9/13/00
Date



Release Stamp

SNF-3932
Rev 4

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Printed in the United States of America

Total Pages: 14

RECORD OF REVISION

(1) Document Number

SNF-3932

Page 1

(2) Title

WHITEY/SWAGELOK SCHe BALL VALVES - PROVIDE ISOLATION BETWEEN SCHe PURGE LINES C AND D AND THE PROCESS VENT

Change Control Record

Commercial Grade Item Upgrade Dedication Form

SNF-3932, Rev. 4

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
PROCESS VENT

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Section 1 Part Information

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

Section 2a Component Information

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

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

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

Section 5 Component Functional Classification

<input type="checkbox"/> Safety Class (SC)	<input type="checkbox"/> General Service	<input checked="" type="checkbox"/> 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
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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. 4

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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 2.12 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	X	
		1, T		
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	<0.1 SCC/min N2 @ 150 psig	1, T		X
Environmental	Note 1			
Seismic Condition 3/1 Event	Note 2			
4. Notes and Legend:		Acceptance Method:		
<ol style="list-style-type: none"> 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. Seismic 3/1 Event is not a critical characteristic for dedication of the component. Pressure test at 110% of 150 psig system design pressure. Material verification acceptance method may be by either inspection or test. Either Whitey or Swagelok is acceptable. <p>Rev. 4: Updated reference documentation.</p>				<ol style="list-style-type: none"> Special Test and Inspection 1, IN for Inspection 1, T for Test Commercial Grade Survey Source Verification Vendor/Item History

Section 10: Initial Review and Approval

Approvals:

Designated Engineer: *Carl Vankatavajj 9/2/00*
 Design Authority: *Jeffrey A. Miller*
 QA Engineer: *James M. Chupin 9-2-00*

Teflon trademark of E.I. du Pont de Nemours and Company
 (S10B 9/13/00)

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

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Section 5 Test / Inspection Summary (Acceptance Method)

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/N	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-43VC04-5452-TR w/ NY-5K-43LL, (Per SNF-5304, Section H, Design Data Sheet)	X									
"A" Dimension, Length	Nominal 2.12 Inches	X									
Valve Body Material	Stainless Steel	X									
Pressure Boundary Integrity	Pressure Test at 165 psig (No Bubbles)	X									
Valve Seat Leakage	< 0.1 SCC/min N2 @ 150 psig	X									

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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:	