

ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN 663360

Proj.
ECN

2. ECN Category (mark one)		3. Originator's Name, Organization, MSIN, and Telephone No.		4. USQ Required?		5. Date	
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"/>		A. Artzer, CVDF, X3-78, 372-2785		[X] Yes <input type="checkbox"/> No		10/19/00	
		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 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-3932, 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)	
<input type="checkbox"/> Yes (fill out Blk. 12b) <input checked="" type="checkbox"/> 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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
SCHe Removed Critical Characteristic of "A" Dimension.				SC			
USQ Approval: CVD-00-2144 2140 tgh 10.19.00							
14a. Justification (mark one)				14b. Justification Details			
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"/>				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.			
15. Distribution (include name, MSIN, and no. of copies)						RELEASE STAMP	
See distribution sheet.							

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16. Design Verification Required [X] Yes [] No		17. Cost Impact			18. Schedule Impact (days)	
		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		10/18/00		Design Agent		
Cog. Eng. N/A				PE		
Cog. Mgr. C. Haller		10/17/2000		QA		
QA R. K. Ramsgate		10/19/00		Safety		
Safety N. J. R. Brehm		10.19.00		Design		
Environ.				Environ.		
Other				Other		
Independent Review		10/19/00				
DEPARTMENT OF ENERGY						
Signature or a Control Number that tracks the Approval Signature						
ADDITIONAL						

[illegible]

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

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

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

Fluor Hanford

P.O. Box 1000

Richland, Washington

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

Project No: W-441

Division: SNF

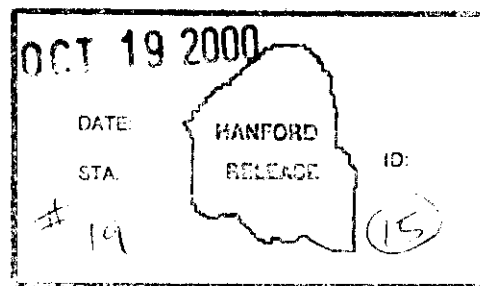
C. R. Miska
Fluor Hanford, Inc.

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



Chris Braden
Release Approval

10/19/00
Date

Release Stamp

SNF-3932
RUB

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Total Pages: 13

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

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

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								
<p>1. Is the Item available from a catalogue of a qualified NQA1 supplier? (coordinate with project CGI interface Engineer or BTR)</p> <p><input type="checkbox"/> YES (go to #2 below)</p> <p><input checked="" type="checkbox"/> NO (go to procedure step 6.3.2, 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><input type="checkbox"/> YES (go to #2 below, then go to procedure step 6.3.2, proceed to dedicate Item)</p> <p><input checked="" type="checkbox"/> NO (go to procedure step 6.3.2, 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								
<p>3. Recommended Procurement Strategy (coordinate with project CGI interface Engineer or BTR): NA</p>								

Section 2c CGI Determination	
<p>1. Question #1: Is the Item subject to design or specification requirements that are unique to nuclear facilities or activities?</p> <p><input type="checkbox"/> YES (the Item is not commercial grade)</p> <p><input checked="" type="checkbox"/> NO (continue)</p>	

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2. Question #2: Is the Item used in applications other than nuclear facilities or activities?
<input type="checkbox"/> NO (the item is not commercial grade) <input checked="" type="checkbox"/> 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)?
<input type="checkbox"/> NO (the Item is not commercial grade) <input checked="" type="checkbox"/> YES (continue)
<input checked="" type="checkbox"/> 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):
<input type="checkbox"/> Item is being purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Class application.
<input checked="" type="checkbox"/> Item is being purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Significant application.
<input type="checkbox"/> Item was purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Class application.
<input type="checkbox"/> Item was purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Significant application.
<input type="checkbox"/> 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:
<input type="checkbox"/> Active – Mechanical or Electrical change of state is required to occur for the component to perform its safety function <input checked="" type="checkbox"/> Passive – Change of state is not required for the component to perform its safety function
Safety Function #2:
<input type="checkbox"/> Active – Mechanical or Electrical change of state is required to occur for the component to perform its safety function. <input checked="" type="checkbox"/> Passive – Change of state is not required for the component to perform its safety function
Safety Function #3:
<input type="checkbox"/> Active – Mechanical or Electrical change of state is required to occur for the component to perform its safety function. <input type="checkbox"/> 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 & Natural Phenomena Hazard Design

Environmental Qualification Required:

Yes ☐

No ☒

Environmental Condition A

If yes: Environmental Qualification Requirements

Limiting Environmental Conditions:

Required Safety Functions:

Qualification Period:

Natural Phenomena Hazard (NPH) Design Required:

Yes ☒

No ☐

HNF-PRO-97

SNF-5304

If yes: NPH Design Requirements

Performance Category: **PC-2**

NPH Design Req'ts.: **Seismic Condition 3/1.**

Required Safety Functions: **Prevent H₂ explosion, by not restricting flow. Provide Seismic 3/1 protection for adjacent SS and SC SSCs.**

Section 5 Component Functional Classification

☐ Safety Class (SC)

☐ General Service

☒ Safety Significant (SS)

If part/component classification is different from host component/system, document basis. **NA**

Section 6 (Reserved)

Section 7 (Reserved)

Section 8 References (for Functional Classification)

National Codes/Standards:

ASME B31.3

Safety Analysis Report (SAR):

HNF-3553, Annex B

Drawings: **H-1-82165**

HNF-SD-SNF-SEL-002

Vendor Manual/Manufacturer/Supplier Information: **Whitey Co. Whitey "40" Series Ball Valves, W-1288, July, 1992.**

Other: **NA**

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Title: <u>Whitey/Swagelok SCHe Ball Valves – Provide</u> <u>Isolation Between SCHe Purge Lines C and D and the process vent</u>		

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	
2. Physical Critical Characteristics (for reasonable assurance that the Item delivered is the Item specified)				
Valve Body Material	Stainless Steel (Note 4)	1, IN 1, T	X	
3. Performance Critical Characteristics (for reasonable assurance that the Item will perform its intended safety function(s))				
Pressure Boundary Integrity	Pressure Test at 165 psig (No Bubbles) Note 3	1, T		X
Valve Seat Leakage	15 minutes at 15 psig, (No leakage, No bubbles)	1, T		X
Environmental	Note 1			
Seismic Condition 3/1 Event	Note 2			
4. Notes and Legend:		Acceptance Method:		
<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 "<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 Katwyck 10/19/00</i> Design Authority: <i>for CRMs 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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WORKSHEET 1 DETERMINATION OF FAILURE MECHANISMS/MODES SECTION 1		
Typical Failure Mechanisms	Definition	Applicable to Component under Evaluation
Fracture	Separation of a solid accompanied by little or no macroscopic plastic deformation.	Yes [] No [X]; If Yes, indicate failure Mode _____
Corrosion	The gradual deterioration of a material due to chemical or electrochemical reactions, such as oxidation, between the material and its environment.	Yes [] No [X]; If Yes, indicate failure Mode _____
Erosion	Destruction of materials by the abrasive action of moving fluids, usually accelerated by the presence of solid particles carried with the fluid.	Yes [] No [X]; If Yes, indicate failure Mode _____
Open Circuit	An electrical circuit that is unintentionally broken so that there is no complete path for current flow.	Yes [] No [X]; If Yes, indicate failure Mode _____
Short Circuit	An abnormal connection by which an electrical current is connected to ground, or to some conducting body, resulting in excessive current flow.	Yes [] No [X]; If Yes, indicate failure Mode _____
Blockage	Clogging of a filtering medium resulting in the inability to perform its purification function or blockage of flow.	Yes [] No [X]; If Yes, indicate failure Mode _____
Seizure	Binding of a normally moving item through excessive pressure, temperature, friction, jamming.	Yes [] No [X]; If Yes, indicate failure Mode _____
Unacceptable Vibration	Mechanical oscillations produced are beyond the defined permissible limits due to unbalancing, poor support, or rotation at critical speeds.	Yes [] No [X]; If Yes, indicate failure Mode _____
Loss of Properties	A loss of mechanical and physical properties of a material due to exposure to high temperatures, radiation exposure.	Yes [] No [X]; If Yes, indicate failure Mode _____
Excess Strain	Under the action of excessive external forces the material of the part has been deformed or distorted.	Yes [] No [X]; If Yes, indicate failure Mode _____
Mechanical Creep	From prolonged exposure to high temperature and stress, the object will show a slow change in its physical (shape and dimension) and mechanical characteristics.	Yes [] No [X]; If Yes, indicate failure Mode _____
Ductile Fracture	Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.	Yes [] No [X]; If Yes, indicate failure Mode _____
Section 2 Additional Failure Modes Applicable to the Component Under Evaluation		
1. Valve Body Break		

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CHECKLIST 1
ACCEPTANCE METHOD 1
SPECIAL TEST/INSPECTION VERIFICATION

SECTION 1			
Item Description: Whitey/Swagelok Ball Valve		Equip #: PV-V-*079, -*080	
System #: 30		Procurement and/or Model #: SS-43VCO4-5452-TR w/ NY-5K-43LL	
Manufacturer (Address/Phone): Whitey Co. 318 Bishop Road Highland Heights, OH 44143 P.O. #		Supplier (Address/Phone):	
SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.			
Insp	Test	Post-Test	
<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 checked="" type="checkbox"/>	<input type="checkbox"/>	3. Valve Body Material (Verification may be by either inspection or test)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Pressure Boundary Integrity
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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: 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: 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: <input type="checkbox"/> Purchaser <input type="checkbox"/> Supplier/Manufacturer** <input type="checkbox"/> Other	Number of Items to be Tested: Test/Inspection Location:
--	--

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

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

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

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