S

ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN 663359

Proj. ECN

2. ECN Category (mark one)	3. Originator's Name, Organization, MSIN, and Telephone No.	4. USQ Required?	5. Date
Supplemental [] Direct Revision [X] Change ECN [] Temporary [] Standby [] Supersedure [] Cancel/Void []	A. Artzer, CVDF, X3-78, 372-2785	[X] Yes [] No	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 $S^{N}Q$
	9. Document Numbers Changed by this ECN (includes sheet no. and rev.) SNF-3931, Rev. 4	10. Related ECN No(s). N/A	11. Related PO No. N/A

12a. Modification Work	12b. Work Package No.	12c. Modification Work Complete	12d. Restored to Original Condition (Temp. or Standby ECN only)
[] Yes (fill out Blk. 12b) [X] No (NA Blks. 12b, 12c, 12d)	N/A	N/A Design Authority/Cog. Engineer Signature & Date	N/A Design Authority/Cog. Engineer Signature & Date

13a. Description of Change

13b. Design Baseline Document? [] Yes [X] No

SCHe **SC**

Removed Critical Characteristic of "A" Dimension. The valve length is defined by the Model Number making the measurement redundant

USQ Approval: CVD-00-2140

14a. Justification (mark one)	14b. Justification Details
Criteria Change [] Design Improvement [X] Environmental [] Facility Deactivation [] As-Found [] Facilitate Const [] Const. Error/Omission [] Design Error/Omission []	The valve length is defined 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)

See distribution sheet.

RELEASE STAMP

OCT 19 2000

DATE:

STA. # 19

HANFORD RELEASE

ID: 15

A-7900-013-2 (10/97)

ENGINEERING CHANGE NOTICE

1. ECN (use no. from pg. 1)
663359

16. Design Verification Required	17. Cost Impact				18. Schedule Impact (days)	
	ENGINEERING		CONSTRUCTION			
[X] Yes	Additional	[N/A] $	Additional	[N/A] $	Improvement	[N/A]
[] No	Savings	[N/A] $	Savings	[N/A] $	Delay	[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
Design Authority C. Miska	Signature	10/19/00
Cog. Eng. N/A		
Cog. Mgr. C. Haller	John D Dearing for C. H.	10/19/2000
QA R. K. Ramsgate		10/19/00
Safety J. R. Brehm for N	Taber B Hersum	10.19.00
Environ.		
Other		
Independent Review		10/19/00

	Signature	Date
Design Agent		
PE		
QA		
Safety		
Design		
Environ.		
Other		

DEPARTMENT OF ENERGY

Signature or a Control Number that tracks the Approval Signature

ADDITIONAL

DISTRIBUTION SHEET

To	From	Page 1 of 1
Distribution	W-441 (CVDF)	Date 10/19/00
Project Title/Work Order		EDT No. N/A
W-441, CGI Package		ECN No. 663359

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
D. Whitehurst	X3-78	x			
G. Singh	X3-78	x			
T. Pierce HC	X3-78	x			
R. Ramsgate	X3-78	x			
J. Brehm	X3-79	x			
P. Beaudet	S8-07	x			
P. Morrell (AVS)	G1-50	x			
C. Miska HC	X3-78	x			
L. Price	X3-78	x			
SNF Startup HC	B2-64	x			
SNF Project Files HC	R3-11	x			
D. Whitworth	R3-11	x			
C. Van Katwijk	X3-78	x			

A-6000-135 (10/97)

SNF-3931
Revision 5

Whitey SCHe Ball Valves - Provide Test Port Isolation

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-3931
Revision 5

ECN 663359

Whitey SCHe Ball Valves - Provide Test Port Isolation

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

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U.S. Department of Energy under Contract DE-AC06-96RL13200
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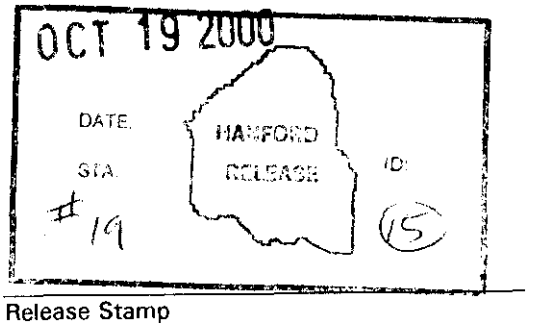
P.O. Box 1000
Richland, Washington



Release Approval

10/19/00
Date

Release Stamp

Approved for public release; further dissemination unlimited

SNF-3931
Rev 5

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Printed in the United States of America

Total Pages: 14

RECORD OF REVISION

(1) Document Number: SNF-3931

(2) Title: WHITEY SCHe BALL VALVES - PROVIDE TEST PORT ISOLATION

Change Control Record

(3) Revision	(4) Description of Change - Replace, Add, and Delete Pages	Authorized for Release	
		(5) Cog. Engr.	(6) Cog. Mgr. Date
0	(7) EDT 626280, INITIAL RELEASE	J. IRWIN	T. CHOHO
1	ECN 653776, REVISION TO MEET SEL REV. 6	C. MISKA	T. CHOHO
2	ECN 654032, CLARIFICATION OF VALVE MANUFACTURER	C. MISKA	T. CHOHO
3	ECN 662315, UPDATE OF DOC NUMBERS AND DELETION OF REVISION NUMBERS	C. MISKA	C. HALLER
4	ECN 662871, REVISED VALVE "A" DIMENSIONS. CHANGED VALVE SEAT LEAKAGE CHARACTERISTIC.	C. MISKA	C. HALLER
5 RS	ECN 663359, REMOVED CRITICAL CHARACTERISTIC OF "A" DIMENSION.	[signature] 10/18/00	[signature] for C. H. 10/19/2000

Commercial Grade Item Upgrade Dedication Form

ECN No. **NA** CGI No. **CGI-SNF-D-13-P5-035**

Title: **WHITEY SCHe BALL VALVES – PROVIDE TEST PORT ISOLATION**

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.:	Specification No.:	Manufacturer:	Past P.O. No.: **NA**
SCHe-V-*102,*103, *104,*105 **He-V-*094, *096, *098, *100**	**SNF-5304 (W-441-P5)**	**Whitey Co./ Swagelok**	
Procurement and/or Model No.: **SS-43VC04-5452-TR**	Equipment Supplier (if different from manufacturer): **TBD**		Equip. Supplier's Part No.: **NA**

Component Description: **These valves are ¼" ball valves fabricated of 316 stainless steel. Packing is TFE (standard). They are used as normally closed isolation valves for test ports in the SCHe System between the gage root valve and the pressure indicator.**

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)

   [**X**] 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)

   [**X**] 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)
   [**X**] NO (continue)
2. Question #2: Is the Item used in applications other than nuclear facilities or activities?
   [ ] NO (the Item is not commercial grade)
   [**X**] 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)
   [**X**] YES (continue)

[**X**] **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):

[**X**] 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. **Prevents air inleakage/loss of SCHe during normal operation. Prevent H_2 Explosion**
2. **Pressure boundary integrity/confinement.**
3. **Maintain critical function before and after seismic event.**

B. Part/Component Functional Mode:

Safety Function #1:

[ ] Active – Mechanical or Electrical change of state is required to occur for the component to perform its safety function

[**X**] 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.

[**X**] 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.

[**X**] Passive – Change of state is not required for the component to perform its safety function

C. Host Component Safety Function (if applicable): **NA**

1.

D. Failure Mode(s) and the effects on component or system safety function (see Worksheet 1):

1. **Valve Body Break/Pressure boundary failure. Could result in a loss of SCHe supply from the affected bottle and manifold to the MCO or air intrusion during vacuum operation.**

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 B	Qualification Period:
Natural Phenomena Hazard (NPH) Design Required:	If yes: NPH Design Requirements
Yes [**X**]	Performance Category: **PC-3**
No [ ]	NPH Design Req'ts.: **Seismic Condition A**
HNF-PRO-97	Required Safety Functions: **Maintain pressure boundary/confinement, prevent H_2 explosion.**
SNF-5304	

Section 5 Component Functional Classification

[**X**] Safety Class (SC) [ ] General Service [ ] Safety Significant (SS)

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

Section 6 (Reserved)

Section 7 (Reserved)

Section 8 References (for Functional Classification)

National Codes/Standards:	Safety Analysis Report (SAR):	Drawings: **H-1-82165**
ASME B31.3	**HNF-SD-SNF-SAR-002**	**HNF-SD-SNF-SEL-002**

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

Other: **NA**

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-43VC04-5452-TR, (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 A	**Note 2**	**1, T**		**X**

4. Notes and Legend:

1. **The ball valve Teflon packing is not subject to degradation from the 40°F and 60% RH or 115°F and 22% RH conditions and is suitable for Environmental Condition B application.**
2. **Maintain critical function before and after seismic event. SNF-5304, Appendix I, page I-2, provides a seismic testing plan for these components at a seismic spectra SNF-4895. Equipment that has been shaker-table tested should not be installed in a plant (Ref. IEEE Standard 344-1984, Section 7). Consequently, the seismic test constitutes a destructive test.**
3. **Pressure test at 110% of 150 psig system design pressure.**
4. **Material verification acceptance method may be by either inspection or test.**
5. **Either Whitey or Swagelok is acceptable.**

Rev. 4: Revised valve "A" dimension from 2.12" to 1.88". Changed valve seat leakage characteristic from "Bubble-tight Standard <10^{-3} ml He/sec" to "15 minutes at 15 psig. (No leakage, No bubbles".

Rev. 5: Removed Critical Characteristic of "A" Dimension. The valve length is defined by the Model Number making the measurement redundant

Acceptance Method:

1. Special Test and Inspection
   1, IN for Inspection
   1,T for Test
2. Commercial Grade Survey
3. Source Verification
4. Vendor/Item History

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

Section 10 Initial Review and Approval

Approvals:

Designated Engineer: Ana per telecom for Carl Van Katwyk 10/19/00

Design Authority: [signature] 10/19/00

QA Engineer: [signature] 10/20/00

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** _____

2. _____

CHECKLIST 1
ACCEPTANCE METHOD 1
SPECIAL TEST/INSPECTION VERIFICATION

SECTION 1

Item Description: **Whitey SCHe Ball Valve** System #: **13**	Equip #: **SCHe-V-*102,*103, *104,*105 He-V-*094, *096, *098, *100** Procurement and/or Model #: **SS-43VC04-5452-TR**
Manufacturer (Address/Phone): **Whitey Co.** **318 Bishop Road** **Highland Heights, OH 44143** P.O. #	Supplier (Address/Phone):

SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.

Insp	Test	Post-Test	
[X]	[ ]	[ ]	1. Nameplate - Manufacturer
[X]	[ ]	[ ]	2. Valve-Component Number-Procurement and/or Model Number
[X]	[X]	[ ]	3. Valve Body Material (Verification may be by either inspection or test)
[ ]	[X]	[ ]	4. Pressure Boundary Integrity
[ ]	[X]	[ ]	5. Valve Seat Leakage
[ ]	[X]	[ ]	6. Seismic Condition A

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-43VC04-5452-TR, (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**

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:	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: **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):_____

Characteristic for Test: **Seismic Condition A**

Acceptance Criteria: **Maintain Critical Function Before and After Seismic Event**

Sample Size*: **SNF-5304, Appendix I, page I-2, provides the seismic testing plan for these components. The seismic testing is conducted for one complete panel with the components assembled on the panel and tested as a complete assembly. The test seismically qualifies the entire assembly, including mountings, piping, and components. The number of components tested is dictated by the panel assembly design.**

Actual Test Value:

Test Plan and Report #: _____

References (see Section 8):_____

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

Section 5 Test / Inspection Summary (Acceptance Method 1)

1. SUMMARY OF VERIFIED CRITICAL CHARACTERISTICS , THEIR VERIFICATION METHODS, AND RESULTS

ITEM DESCRIPTION:

Critical Characteristics				Verification Results							
Critical Characteristics	Acceptance Criteria/Tolerances	ID	Function	Method T/IN	Procedure or RR#	Check-list ID	Number Tested	Number Failed	Verifying Organization	Printed Name Signature	Date
Nameplate - Manufacturer	**Whitey Co./Swagelok (Either Whitey or Swagelok is acceptable)**	**X**		**1,IN**							
Valve-Component Number-Procurement and/or Model Number	**SS-43VC04-5452-TR, (Per SNF-5304, Section H, Design Data Sheet)**	**X**		**1,IN**							
Valve Body Material	**Stainless Steel**	**X**		**1,IN 1,T**							
Pressure Boundary Integrity	**Pressure Test at 165 psig (No Bubbles)**		**X**	**1,T**							
Valve Seat Leakage	**15 minutes at 15 psig. (No leakage, No bubbles)**		**X**	**1,T**							
Seismic Condition A	**Maintain Critical Function Before and After Seismic Event.**		**X**								

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_____	Design Authority:_____ Date_____
Testing Agency QA Engineer:_____ Date_____	QA Engineer:_____ Date_____

Section 6 Contacts/Phone Numbers	
Name	Phone
Design Authority	( )
QA	( )
QC	( )
Cog - Engineer	( )
CGI Engineer	( )
Procurement Engineer	( )
Other	( )

Section 7 Supporting Documentation for this Checklist	
Initial Procurement Documents	**For Critical Characteristics**
[ ] Drawings:	
[ ] Manuals (specify type & number):	
[ ] Design Calculations	
[ ] Installation Instructions	
[ ] Operation Instructions	
[ ] Calibration Instructions	
[ ] Manufacturer's Recommended Spare Parts List	
[ ] Other:	
Procurement Documents	
[ ] Certificate of Conformance/Compliance	
[ ] Seismic Qualification Certificate	
[ ] Environmental Qualification Certificate	
[ ] Test Report (s):	
[ ] Inspection Report (s):	
[ ] CMTRs for ASME Pressure Retaining Materials	
[ ] Valve Seat Leakage Report	
[ ] Weld Records	
[ ] Material Traceability Record	
[ ] Other:	