ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN 647508

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. Treah Nuxall, SNF CVD, R3-47, 372-3739	4. USQ Required? ☐ Yes ☒ No	5. Date 6/22/99
	6. Project Title/No./Work Order No. W-441 Spent Nuclear Fuel Cold Vacuum Drying	7. Bldg./Sys./Fac. No. CVDF	8. Approval Designator SQ
	9. Document Numbers Changed by this ECN (includes sheet no. and rev.) SNF-3921, SNF-3926, SNF-3927, SNF-3929, SNF-3888, SNF-4418-RD	10. Related ECN No(s). N/A	11. Related PO No. N/A
12a. Modification Work ☐ Yes (fill out Blk. 12b) ☒ No (NA Blks. 12b, 12c, 12d)	12b. Work Package No. N/A	12c. Modification Work Complete N/A Design Authority/Cog. Engineer Signature & Date	12d. Restored to Original Condition (Temp. or Standby ECN only) N/A Design Authority/Cog. Engineer Signature & Date
13a. Description of Change Revision to meet SEL, Rev. 6a			
13b. Design Baseline Document? ☐ Yes ☒ No			
14a. Justification (mark one) Criteria Change ☒ Design Improvement ☐ Environmental ☐ Facility Deactivation ☐ As-Found ☐ Facilitate Const ☐ Const. Error/Omission ☐ Design Error/Omission ☐			
14b. Justification Details Revision to SEL.			
15. Distribution (include name, MSIN, and no. of copies)			RELEASE STAMP
C. Miska	R3-86	1	
C. Van Katwijk	R3-47	1	
CVD Library (K. Boes)	R3-86	1	
T. Hays	R3-86	1	
J. Brehm	R3-26	1	
AVS-P. Morrell	G1-50	1	
AI-M. Evarts	N1-29	1	

A-7900-013-2 (05/96) GEF095

ENGINEERING CHANGE NOTICE

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

647508

16. Design
Verification
Required

[] Yes

[X] No

17. Cost Impact

ENGINEERING

CONSTRUCTION

Additional [] \$

Savings [] \$

Additional [] \$

Savings [] \$

18. Schedule Impact (days)

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	[]	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	[]		[]
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

6/22/99

Design Agent

Designated Cog. Eng.

C. Van Katwijk

6/1/99

PE

Authorized Rep. Mgr.

T. Choho

7/1/99

QA

QA

T. D. Hays

6/23/99

Safety

Safety

J. Brehm

6/28/99

Design

Environ.

Other

DEPARTMENT OF ENERGY

Signature or a Control Number that tracks the Approval Signature

ADDITIONAL

WHITEY SCHe GAUGE/ROOT VALVES

Carl Van Katwijk
Numatec Hanford, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

EDT/ECN: 647508	UC: 620
Org Code: 2G300	Charge Code: 105559/A000
B&R Code: 39EW40400	Total Pages: 14

Key Words: Whitey SCHe Gauge/Root Valves

Abstract: Whitey SCHe Gauge/Root Valves

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7/1/99

Release Approval

Date

Release Stamp

Approved for Public Release

<p align="center">RECORD OF REVISION</p>	<p>(1) Document Number SNF-3921</p>	<p align="right">Page <u>1</u></p>
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Page 1

Whitey SCHe Gauge/Root Valves

Change Control Record	
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[illegible]

Commercial Grade Item Upgrade Dedication Form

SNF-3921, Rev. 2

ECN No. **NA** CGI No. **CGI-SNF-D-13-P5-024**

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Title: **WHITEY SCHe GAUGE/ROOT VALVES**

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.: SCHe-V-*064,*065, *082,*084 (3000 psig); SCHe-V-*069,*070, *083,*085,*088, *089,*077,*078 (150 psig)	Specification No.: W-441-P5, Rev. 2	Manufacturer: Whitey Co.	Past P.O. No.: NA
Procurement and/or Model No.: SS-6PNBGM8-F8	Equipment Supplier (if different from manufacturer): TBD	Equip. Supplier's Part No.: NA	

Component Description: **These valves are ½" ball valves fabricated of 316 stainless steel. Packing is TFE (standard). They are used as isolation valves for pressure instrumentation in the SCHe System between the helium bottle supply manifolds and safety class helium pressure instrumentation, and in lower pressure SCHe supply line.**

Section 2b: Commercial Availability of the Item

- Is the Item available from a catalogue of a qualified NQA1 supplier? (coordinate with project CGI interface Engineer or BTR)
 - ☐ YES (go to #2 below)
 - ☒ NO (go to procedure step 5.3.2, 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 5.3.2, proceed to dedicate Item)
 - ☒ NO (go to procedure step 5.3.2, proceed to dedicate Item.)
- List of Candidate qualified suppliers or ISO 9000 suppliers

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

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Title: **WHITEY SCHe GAUGE/ROOT VALVES**

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)
 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. **Pressure boundary integrity/confinement. Prevents air inleakage/loss of SCHe during normal operation. Prevent H₂ Explosion**
2. **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
- ☒ 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

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Title: **WHITEY SCHe GAUGE/ROOT VALVES**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 cause a loss of SCHe supply from the affected bottle and manifold to the MCO.**

Section 4 Environmental & Natural Phenomena Hazard Design

Environmental Qualification Required:

Yes ☐No ☒**Environmental Condition B**

If yes: Environmental Qualification Requirements

Limiting Environmental Conditions:

Required Safety Functions:

Qualification Period:

Natural Phenomena Hazard (NPH) Design Required:

Yes ☒No ☐**HNF-PRO-97, Rev. 0****W-441-P5, Rev. 2**

If yes: NPH Design Requirements

Performance Category: **PC-3**NPH Design Req'ts.: **Seismic Condition A**Required Safety Functions: **Maintain pressure boundary/confinement, prevent H₂ explosion.**

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-SD-SNF-SAR-002,
Rev. 4A**Drawings: **H-1-82165, Rev. 2****HNF-SD-SNF-SEL-002, Rev. 6a**Vendor Manual/Manufacturer/Supplier Information: **Whitey Co. W-1086**Other: **NA**

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Title: **WHITEY SCHe GAUGE/ROOT VALVES**

Section 9 Critical Characteristics				
Critical Characteristics Verification Document: Vendor's Manual; HNF-SD-SNF-SEL-002, Rev. 6a	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.	1, IN	X	
Valve-Component Number-Procurement and/or Model Number	SS-6PNBGM8-F8, (Per Procurement Package W-441-P5, Rev. 2, Section H, Design Data Sheet)	1, IN	X	
Process Connection	1/2" MNPT to 1/2' FNPT	1, IN	X	
2. Physical Critical Characteristics (for reasonable assurance that the Item delivered is the Item specified)				
Valve Body Material	Stainless Steel (Note 5)	1, IN 1, T	X	
Process Connection Material	Stainless Steel (Note 5)	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 SCHe-V-*064, *065, *082, and *084	Pressure Test at 3300 psig (No Leakage) Note 3	1, T		X
Pressure Boundary Integrity SCHe-V-*069, *070, *077, *078, *083, *085, *089, and *089	Pressure Test at 165 psig (No Leakage) Note 4	1, T		X
Valve Seat Leakage	<0.1 SCC/min N2 @ 3000 psig	1, T		X
Environmental	Note 1			
Seismic Condition A	Note 2	1, T		X
4. Notes and Legend:		Acceptance Method:		
<ol style="list-style-type: none"> These valves do not have non-metallic parts that are subject to degradation from the 40°F and 60% RH or 115°F and 22% RH condition and are suitable for Condition B application. Maintain critical function before and after Seismic event. W-441-P5, Rev. 2, Appendix I, page I-2, provides a seismic testing plan for these components at a seismic spectra TBD. 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. Pressure test at 110% He Bottle max supply pressure of 3000 psig. For use of all valves for application at 3000 psig service, pressure test all valves at 3300 psig. Pressure test at 110% of 150 psig system design pressure. Material verification acceptance method may be by either inspection or test. 		<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 		

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Title: WHITEY SCHe GAUGE/ROOT VALVES

Section 10: Initial Review and Approval

Approvals:

Designated Engineer:

Design Authority:

QA Engineer:

[Signature]
[Signature]
[Signature]
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Title: **WHITEY SCHe GAUGE/ROOT VALVES**

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 [] Mode _____	No [X]; If Yes, indicate failure
Corrosion	The gradual deterioration of a material due to chemical or electrochemical reactions, such as oxidation, between the material and its environment.	Yes [] Mode _____	No [X]; If Yes, indicate failure
Erosion	Destruction of materials by the abrasive action of moving fluids, usually accelerated by the presence of solid particles carried with the fluid.	Yes [] Mode _____	No [X]; If Yes, indicate failure
Open Circuit	An electrical circuit that is unintentionally broken so that there is no complete path for current flow.	Yes [] Mode _____	No [X]; If Yes, indicate failure
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 [] Mode _____	No [X]; If Yes, indicate failure
Blockage	Clogging of a filtering medium resulting in the inability to perform its purification function or blockage of flow.	Yes [] Mode _____	No [X]; If Yes, indicate failure
Seizure	Binding of a normally moving item through excessive pressure, temperature, friction, jamming.	Yes [] Mode _____	No [X]; If Yes, indicate failure
Unacceptable Vibration	Mechanical oscillations produced are beyond the defined permissible limits due to unbalancing, poor support, or rotation at critical speeds.	Yes [] Mode _____	No [X]; If Yes, indicate failure
Loss of Properties	A loss of mechanical and physical properties of a material due to exposure to high temperatures, radiation exposure.	Yes [] Mode _____	No [X]; If Yes, indicate failure
Excess Strain	Under the action of excessive external forces the material of the part has been deformed or distorted.	Yes [] Mode _____	No [X]; If Yes, indicate failure
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 [] Mode _____	No [X]; If Yes, indicate failure
Ductile Fracture	Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.	Yes [] Mode _____	No [X]; If Yes, indicate failure

Section 2 Additional Failure Modes Applicable to the Component Under Evaluation

1. **Valve Body Break**

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Title: **WHITEY SCHe GAUGE/ROOT VALVES**

CHECKLIST 1

ACCEPTANCE METHOD 1

SPECIAL TEST/INSPECTION VERIFICATION

SECTION 1

Item Description: Whitey SCHe Gauge/Root Valve System #: 13	Equip #: SCHe-V-*064, *065, *082, *084 (3000 psig); SCHe-V-*069, *070, *083, *085, *088, *089,*077, *078 (150 psig) Procurement and/or Model #: SS-6PNBGM8-F8
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	
☒	☐	☐	1. Nameplate - Manufacturer
☒	☐	☐	2. Valve-Component Number-Procurement and/or Model Number
☒	☐	☐	3. Process Connection
☒	☒	☐	4. Valve Body Material (Verification may be by either inspection or test)
☒	☒	☐	5. Process Connection Material (Verification may be by either inspection or test.
☐	☒	☐	6. Pressure Boundary Integrity
☐	☒	☐	7. Valve Seat Leakage
☐	☒	☐	8. Seismic Condition A

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Title: WHITEY SCHe GAUGE/ROOT VALVES

SECTION 3 BY INSPECTION

* See Attachment G of Desk Instruction for Sampling Size

Characteristic: **Nameplate - Manufacturer**Sample Size*: **All Items**Acceptance Criteria: **Whitey Co.**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

Characteristic: **Valve-Component Number-Procurement and/or Model Number**Sample Size*: **All Items**Acceptance Criteria: **SS-6PNBGM8-F8**

Receipt Inspection Plan / Report #: _____

References (see Section 7): Whitey Co. W-1086, July 1991Characteristic: **Process Connection**Sample Size*: **All Items**Acceptance Criteria: **1/2" MNPT TO 1/2" FNPT**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

Characteristic: **Valve Body Material**Sample Size*: **Normal Sampling Size**Acceptance Criteria: **Stainless Steel**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

Characteristic: **Process Connection Material**Sample Size*: **Normal Sampling Size**Acceptance Criteria: **Stainless Steel**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

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Title: WHITEY SCHe GAUGE/ROOT VALVES

SECTION 4 BY SPECIAL TEST

* See Attachment G of Desk Instruction for Sampling Size

Test To Be Performed by:

- ☐ Purchaser
☐ Supplier/Manufacturer**
☐ Other

Number of Items to be Tested:

Test/Inspection Location:

Characteristic for Test: Pressure Boundary Integrity SCHe-V-*064, *065, *082, and *084

Acceptance Criteria: Pressure Test at 3300 psig (No Leakage)

Sample Size*: Normal Sampling Size

Actual Test Value:

Test Plan and Report #: _____ References (see Section 7): _____

Characteristic for Test: Pressure Boundary Integrity SCHe-V-*069, *070, *077, *078, *083, *085, *088, and *089

Acceptance Criteria: Pressure Test at 165 psig (No Leakage)

Sample Size*: Pressure Boundary tests performed at 3300 psig can also be used to document the critical characteristic pressure boundary test at 165 psig for valves in the same lot.

Actual Test Value:

Test Plan and Report #: _____ References (see Section 7): _____

Characteristic for Test: Valve Seat Leakage

Acceptance Criteria: <0.1 SCC/min N2 @ 3000 psig

Sample Size*: Normal Sampling Size

Actual Test Value:

Test Plan and Report #: _____ References (see Section 7): _____

Characteristic for Test: Seismic Condition A

Acceptance Criteria: Maintain Critical Function Before And After Seismic Event.

Sample Size*: W-441-P5, Rev. 2, 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 7): _____

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

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Title: WHITEY SCHe GAUGE/ROOT VALVES

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/N	Procedure or RR#	Check-list ID	Number Tested	Number Failed	Verifying Organization	Printed Name Signature	Date
Nameplate - Manufacturer	Whitey Co.	X									
Valve-Component Number-Procurement and/or Model Number	SS-6PNBGM8-F8, (Per Procurement Package W-441-P5, Rev. 2, Section H, Design Data Sheet)	X									
Process Connection	1/2" MNPT TO 1/2" FNPT	X									
Valve Body Material	Stainless Steel	X									
Process Connection Material	Stainless Steel	X									
Pressure Boundary Integrity SCHe-V- *064, *065, *082, and *084	Pressure Test at 3300 psig (No Leakage) NOTE 1		X								
Pressure Boundary Integrity SCHe-V- *069, *070, *077, *078, *083, *085, *088, and *089	Pressure Test at 165 psig (No Leakage)		X								
Valve Seat Leakage	<0.1 SCC/min N2 @ 3000 psig.		X								
Seismic Condition A	Maintain Critical Function Before and After Seismic Event.		X								

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CGI No. CGI-SNF-D-13-P5-024

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Title: WHITEY SCHe GAUGE/ROOT VALVES

Note 1: Pressure test all valves at 3300 psig and test seat leakage at 3000 psig for service at 3000 psig.

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.

Testing Agency Approval: _____ Date _____

Testing Agency QA Engineer: _____ Date _____

BUYER VERIFICATION

Design Authority: _____ Date _____

QA Engineer: _____ Date _____

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Title: **WHITEY SCHe GAUGE/ROOT VALVES**

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:	