ENGINEERING CHANGE NOTICE

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1. ECN **662315**

Proj.
ECN

2. ECN Category (mark one) Supplemental ☐ Direct Revision ☒ Change ECN ☐ Temporary ☐ Standby ☐ Supersedeure ☐ Cancel/Void ☐	3. Originator's Name, Organization, MSIN, and Telephone No. T. Nuxall, CVDF, R3-86, 372-3739		4. USQ Required? ☐ Yes ☒ No	5. Date 9/2/00
	6. Project Title/No./Work Order No. SNF/W-441 Spent Nuclear Fuel Cold Vacuum Drying		7. Bldg./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 ☐ 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 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.				
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 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 3 2 2000 (JICB 9/3/00)	HANFORD RELEASE
DATE: STA # 19	ID: (15)

[illegible]

[illegible]

Ashcroft Pressure Switch - Monitor for Low SCHe Purge Pressure

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-3928
Revision 3

ECN 662315

Ashcroft Pressure Switch - Monitor for Low SCHe Purge Pressure

Project No: W-441

Division: SNF

C. Van Katwijk
Fluor Hanford, Inc.

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

Chris Braden
Release Approval

9/3/00
Date

Release Stamp

SNF-3928
Rev 3

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Total Pages: 16

RECORD OF REVISION

(1) Document Number	
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SNF-3928

Page 1

(2) Title

ASHCROFT PRESSURE SWITCH - MONITOR FOR LOW SCHe PRUGE PRESSURE

Change Control Record

[illegible]

Commercial Grade Item Upgrade Dedication Form

SNF-3928, Rev. 3

ECN No. **NA** CGI No. **CGI-SNF-D-13-P5-031**
 Title: **ASHCROFT PRESSURE SWITCH – MONITOR FOR LOW SCHe**
PURGE PRESSURE

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Section 1 Part Information

Item No.: NA	Manufacturer: NA	Supplier: NA
Mfg. Part/Model No.: NA	Supplier's P/N: NA	
Part Description: NA		
End Use Description: NA		

Section 2a Component Information

Equipment No.: SCHe- PSL-5*06, 5*25, 5*45, 5*65	Specification No.: SNF-5304 (W-441-P5)	Manufacturer: Ashcroft Instrument Division	Past P.O. No.: NA
Procurement and/or Model No.: LPS-N4-K-S-25-15 PSI.	Equipment Supplier (if different from manufacturer): TBD		Equip. Supplier's Part No.: NA

Component Description: **These 0-15 psig pressure switches are located in the SCHe helium purge lines after PCV-5*23 and before PCV-5*27. The pressure switches monitor the pressure being maintained between the two PCVs and actuate on low pressure of 15 psig. This design is used for each of the SCHe supply lines (4). Electronic output signal is NON-SAFETY (GS).**

Section 2b Qualified Vendor/Supplier Survey

- 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 and type	contact name	phone
NA		

- Recommended Procurement Strategy (coordinate with project CGI interface Engineer or BTR):
NA

Section 2c CGI Determination

- 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)
- Question #2: Is the Item used in applications other than nuclear facilities or activities?
☐ NO (the item is not commercial grade)
☒ YES (continue)

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Title: **ASHCROFT PRESSURE SWITCH – MONITOR FOR LOW SCHe
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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. **SCHe Pressure Boundary Integrity– Prevents helium leakage from the SCHe System.**

2. **Maintain pressure boundary 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

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

1.

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Title: ASHCROFT PRESSURE SWITCH – MONITOR FOR LOW SCHe
PURGE PRESSURE

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

1. **Fracture of the switch body or of the piping connection - helium leakage from the SCHe System.**

Section 4 Environmental & Natural Phenomena Hazard Design

Environmental Qualification Required:

Yes []

No [X]

Environmental Condition B

If yes: Environmental Qualification Requirements

Limiting Environmental Conditions:

Required Safety Functions:

Qualification Period:

Natural Phenomena Hazard (NPH) Design Required:

Yes [X]

No []

HNF-PRO-97

SNF-5304

If yes: NPH Design Requirements

Performance Category: **PC-3**

NPH Design Req'ts.: **Seismic Condition B**

Required Safety Functions: **Pressure Boundary Integrity**

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.

Pressure switch is pressure boundary Safety Class (SC).

Switch electronic output signal is General Service (GS).

Section 6 [reserved]

Section 7 [reserved]

Section 8 References (for Functional Classification)

National Codes/Standards:

**IEEE-344, ISA-S5.1,-S5.4,-
S18.1,-S20**

Safety Analysis Report (SAR):

HNF-3553, Annex B

Drawings: **H-1-82165**

HNF-SD-SNF-SEL-002

Vendor Manuals/Manufacturer/Supplier Information: **Ashcroft Instrument Division, L Series Switches, Bulletin SE-12**

Other: **NA**

Commercial Grade Item Upgrade Dedication Form

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Title: **ASHCROFT PRESSURE SWITCH – MONITOR FOR LOW SCH_e
PURGE PRESSURE**

Section 9: Critical Characteristics

Critical Characteristics	Acceptance Criteria/Tolerances	Acceptance Method	ID	Function
Verification Document:: Vendor Specifications, HNF-SD-SNF-SEL-002				
1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
Component Number-Procurement and/or Model Number	LPS-N4-K-S-25-15 PSI, (Per SNF-5304, Section G, Design Data Sheet)	1,IN	X	
Nameplate - Manufacturer	Ashcroft Instruments	1,IN	X	
Process Connection	1/4 Inch FNPT, Bottom Mounted	1,IN	X	
Pressure Range	0-15 psig	1,IN	X	
Enclosure	NEMA 4	1,IN	X	
2. Physical Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
Material, Body	Stainless Steel (Note 4)	1, IN 1, T	X	
Material, Process Connection	Stainless Steel (Note 4)	1, IN 1,T	X	
3. Performance Critical Characteristics (necessary & sufficient for reasonable assurance that the Item will perform its intended safety function(s))				
Pressure Boundary Integrity	No Leakage at Test Pressure of 165 psig. (No Bubbles) Note 3	1,T		X
Setpoint/Repeatability	15 psig/ + 0 /- 1 psi	1,T		X
Environmental	Note 1			
Seismic Condition B	Note 2	1,T		X
Switch Contact Rating	NA			
Insulation Resistance	NA			

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Title: ASHCROFT PRESSURE SWITCH – MONITOR FOR LOW SCHe
PURGE PRESSURE

4. Notes and Legend:

1. The pressure switch is not subject to degradation at ambient conditions of 40°F and 60% RH or 115°F and 22% RH and is suitable for Environmental Condition B application.
2. Maintain pressure boundary 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. Sensitive leak test per ASME B31.3, leakage acceptance criteria is $< 10^{-3}$ ml/sec or less. 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 system design pressure of 150 psig. Exposure to test pressure may seriously degrade the switch function. This test is considered to be a destructive test.
4. Material verification acceptance method may be by either inspection or test.

Rev. 3: Updated reference documentation.

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

-4

Section 10 Initial Reviews and Approvals

Approvals:

Designated Engineer: *aa for Carl Van Katwijk*
Design Authority: *pu telecom 9/2/00*
QA Engineer: *aa for Carl Huska pu telecom 9/2/00*
Hank M. Chapin 9/2/00

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Title: ASHCROFT PRESSURE SWITCH – MONITOR FOR LOW SCHe
PURGE PRESSURE

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 ☐ ; If Yes, indicate failure Mode. <u>Failure of Transmitter Body or the Process Connection</u>
Corrosion	The gradual deterioration of a material due to chemical or electrochemical reactions, such as oxidation, between the material and its environment.	Yes ☐ No ☒ ; 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 ☒ ; 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 ☒ ; 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 ☒ ; 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 ☒ ; If Yes, indicate failure Mode. _____
Seizure	Binding of a normally moving item through excessive pressure, temperature, friction, jamming.	Yes ☐ No ☒ ; 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 ☒ ; 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 ☒ ; 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 ☒ ; 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 ☒ ; If Yes, indicate failure Mode. _____
Ductile Fracture	Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.	Yes ☐ No ☒ ; If Yes, indicate failure Mode. _____

Section 2 Additional Failure Modes Applicable to the Component Under Evaluation

1. Process Connection/Body Break
2. _____

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Title: ASHCROFT PRESSURE SWITCH – MONITOR FOR LOW SCHe
PURGE PRESSURE

CHECKLIST 1

ACCEPTANCE METHOD 1

SPECIAL TEST/INSPECTION VERIFICATION

SECTION 1			
Item Description: Ashcroft Pressure Switch – Monitor For Low SCHe Purge Pressure		Equip #: SCHe-PSL-5*06, 5*25, 5*45, 5*65	
System #: 13		Procurement and/or Model #: LPS-N4-K-S-25-15 PSI.	
Manufacturer (Address/Phone): Ashcroft Instrument Division		Supplier (Address/Phone):	
P.O. #			
SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.			
Insp	Test	Post-Test	
[X]	[]	[]	1. Component Number-Procurement and/or Model Number
[X]	[]	[]	2. Nameplate - Manufacturer
[X]	[]	[]	3. Process Connection
[X]	[]	[]	4. Pressure Range
[X]	[]	[]	5. Enclosure
[X]	[X]	[]	6. Material, Body (Verification may be by either inspection or test)
[X]	[X]	[]	7. Material, Process Connection (Verification may be by either inspection or test)
[]	[X]	[]	8. Pressure Boundary Integrity
[]	[X]	[]	9. Setpoint/Repeatability
[]	[X]	[]	10. Seismic Condition B
[]	[]	[]	11. Switch Contact Rating
[]	[]	[]	12. Insulation Resistance
SECTION 3 BY INSPECTION			
* See Attachment G of Desk Instruction for Sampling Size			
Characteristic: Component Number-Procurement and/or Model Number			
Sample Size*: All Items			
Acceptance Criteria: LPS-N4-K-S-25-15 PSI, (Per SNF-5304, Section G, Design Data Sheet			
Receipt Inspection Plan / Report #: _____			
References (see Section 7): Ashcroft Instrument Division, L Series Switches, Bulletin Se-12			

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 Title: ASHCROFT PRESSURE SWITCH – MONITOR FOR LOW SCHe
PURGE PRESSURE

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Characteristic: **Nameplate - Manufacturer**

Sample Size*: **All Items**

Acceptance Criteria: **Ashcroft Instruments**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

Characteristic: **Process Connection**

Sample Size*: **All Items**

Acceptance Criteria: **1/4 Inch FNPT, Bottom Mounted**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

Characteristic: **Pressure Range**

Sample Size*: **All Items**

Acceptance Criteria: **0-15 psig**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

Characteristic: **Enclosure**

Sample Size*: **All Items**

Acceptance Criteria: **NEMA 4**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

Characteristic: **Material, Body**

Sample Size*: **Normal Sampling Size**

Acceptance Criteria: **Stainless Steel**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

Characteristic: **Material, Process Connection**

Sample Size*: **Normal Sampling Size**

Acceptance Criteria: **Stainless Steel**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

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ECN No. **NA**

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Title: **ASHCROFT PRESSURE SWITCH – MONITOR FOR LOW SCH_e
PURGE PRESSURE**

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**

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

Sample Size*: **Destructively Test Only One Item**

Actual Test Value:

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

Characteristic for Test: **Seismic Condition B**

Acceptance Criteria: **Maintain Pressure Boundary Before And After Seismic Event. Sensitive leak test per ASME B31.3, leakage acceptance criteria is $< 10^{-3}$ ml/sec (No Bubbles).**

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 7): _____

Characteristic for Test: **Setpoint/Repeatability**

Acceptance Criteria: **15 psig/ + 0 /- 1 psi**

Sample Size*: **Normal Sampling Size**

Actual Test Value:

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

Characteristic for Test: **Switch Contact Rating**

Acceptance Criteria: **NA**

Sample Size*: **Normal Sampling Size**

Actual Test Value:

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

Characteristic for Test: **Insulation Resistance**

Acceptance Criteria: **NA**

Sample Size*: **Normal Sampling Size**

Actual Test Value:

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

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

Commercial Grade Item Upgrade Dedication Form

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ECN No. NA CGI No. CGL-SNF-D-13-P5-031

Title: ASHCROFT PRESSURE SWITCH – MONITOR FOR LOW SCHE
PURGE PRESSURE

Section 5 Test / Inspection Summary (Acceptance Method 1)											
I. SUMMARY OF VERIFIED CRITICAL CHARACTERISTICS , THEIR VERIFICATION METHODS, AND RESULTS											
ITEM DESCRIPTION:											
Critical Characteristics						Verification Results					
Critical Characteristics	Acceptance Criteria/Tolerances	ID	Function	Method U/IN	Procedure or RR#	Check- list ID	Number Tested	Number Failed	Verifying Organization	Printed Name Signature	Date
Component Number- Procurement and/or Model Number	LPS-N4-K-S-25-15 PSI, (Per SNF-5304, Section G, Design Data Sheet)	X									
Nameplate - Manufacturer	Ashcroft Instruments	X									
Process Connection	1/4 Inch FNPT, Bottom Mounted	X									
Instrument Range	0-15 psig	X									
Enclosure	NEMA 4	X									
Material, Body	Stainless Steel	X									
Material, Process Connection	Stainless Steel	X									
Switch Contact Rating	NA										
Insulation Resistance	NA										
Pressure Boundary Integrity	No Leakage at Test Pressure of 165 psig (No Bubbles)		X								
Set Point / Repeatability	15 psig/ + 0 / - 1 psi		X								
Seismic Condition B	Maintain Pressure Boundary Before and After Seismic Event.		X								
2. DISPOSITION OF UNVERIFIED OR FAILED CRITICAL CHARACTERISTICS											

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Title: ASHCROFT PRESSURE SWITCH - MONITOR FOR LOW SCHe
PURGE PRESSURE

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 _____

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Title: ASHCROFT PRESSURE SWITCH – MONITOR FOR LOW SCHe
PURGE PRESSURE

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:	