ENGINEERING CHANGE NOTICE

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1. ECN

653776

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. Treah Nuxall, SNF CVD, R3-47, 372-3739	4. USQ Required? [] Yes [X] No	5. Date 3/31/99
	6. Project Title/No./Work Order No. Spent Nuclear Fuel Cold Vacuum Drying	7. Bldg./Sys./Fac. No. CVDF	8. Approval Designator Q, S
	9. Document Numbers Changed by this ECN (includes sheet no. and rev.) All Rev 0 SNF-3876, SNF-3877, SNF-3878, SNF-3879, SNF-3880, SNF-3881, SNF-3882, SNF-3883, SNF-3884, SNF-3886, SNF-3887, SNF-3888, SNF-3890, SNF-3891, SNF-3892, SNF-3893, SNF-3894, SNF-3895, SNF-3920, SNF-3921, SNF-3922, SNF-3923, SNF-3924, SNF-3925, SNF-3926, SNF-3927, SNF-3928, SNF-3929, SNF-3930, SNF-3931, SNF-3932, SNF-3933, SNF-3934, SNF-3935, SNF-3936	10. Related ECN No(s). N/A	11. Related PO No. N/A
12a. Modification Work [] Yes (fill out Blk. 12b) [X] 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. 6.		13b. Design Baseline Document? [] Yes [X] No	
14a. Justification (mark one) Criteria Change [X] 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) <i>see attached distribution</i>		RELEASE STAMP DATE: STA: 4 MAY 06 1999 KANFORD RELEASE ID: 2	

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A-7900-013-3 (05/96) GEF096

FISHER SCHe PRESSURE CONTROL VALVES

5*08, 5*27, 5*47, 5*67, 5*80, 5*82, 5*84, 5*86

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

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Abstract: Fisher SCHe Pressure Control Valves 5*08, 5*27, 5*47, 5*67, 5*80, 5*82, 5*84, 5*86

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Release Approval

5/6/99

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Approved for Public Release

[illegible]

A-7320-005 (10/97)

Commercial Grade Item Upgrade Dedication Form

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Title: FISHER SCHe PRESSURE CONTROL VALVES5*08, 5*27, 5*47, 5*67, 5*80, 5*82, 5*84, 5*86

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-PCV-5*08, 5*27, 5*47, 5*67, 5*80, 5*82, 5*84, & 5*86	Specification No.: W-441-P5, Rev. 2	Manufacturer: Fisher Controls	Past P.O. No.: NA
Procurement and/or Model No.: 95L-128W/1E3925 27022 Yellow for PCV-5*47, 5*67, 5*84, & 5*86 95L- 129W/1E3926 27012 Green for PCV-5*08, 5*27, 5*80, and 5*82	Equipment Supplier (if different from manufacturer): TBD		Equip. Supplier's Part No.: NA

Component Description: These valves are self-operated spring-loaded ¼-inch pressure-control valves made of 316 stainless steel. In combination, these valves provide preferred normal and SCHe MCO flowpaths because of their different pressure settings.

Section 2b Commercial Availability of the Item

1. Is the Item available from a catalogue of a qualified NQA1 supplier? (coordinate with project CGI interface Engineer or BTR)

☐ YES (go to #2 below)

☒ NO (go to procedure step 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.)

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**

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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 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. PCV-5*08, 27, 47, and 67 provide final stage pressure reduction of the SCHe from the SCHe helium bottles. Valves PCV-5*80, 82, 84, and 86 provide pressure regulation from non-SCHe storage to the SCHe system. Together, these valves provide the hierarchy of preferred SCHe flow paths and function to prevent a H₂ explosion.
2. SCHe pressure boundary/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
- ☐ 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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1.

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

1. **Valve seizure – failure of valve to operate as required. Valves PCV-5*80 and 5*82 provide redundant primary option flowpaths from the facility helium supply at 15 psig. PCV-5*08 and 5*27 provide the secondary option flowpaths from SCHe helium bottles at 14 psig. PCV-5*84 and 5*86 provide the tertiary option flowpaths from the facility helium supply at 3 psig, and PCV-5*47 and 5*67 provide the final option of SCHe from the SCHe bottles at 2 psig.**

2. **Valve body rupture - One train of SCHe would be lost. See 1 above for the four options which provide redundancy for SCHe flow.**

3.

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, 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: **Prevent H2 Explosion;****Pressure/Boundary Confinement**

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.

Section 6 (Reserved)

Section 7 (Reserved)

Section 8 References (for Functional Classification)

National Codes/Standards:

ASME B 31.3

Safety Analysis Report (SAR):

**HNF-SD-SNF-SAR-002, Rev.
4A**Drawings: **H-1-82165, Rev. 2****HNF-SD-SNF-SEL-002, Rev. 6**Vendor Manual/Manufacturer/Supplier Information: **Fisher Bulletin 71.4:98**Other: **NA**

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Section 9 Critical Characteristics				
Critical Characteristics Verification Document: Vendor Specifications; HNF-SD-SNF-SEL-002, Rev. 6	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	Fisher Controls	1, IN	X	
Component Number-Procurement and/or Model Number	95L-128W/1E3925 27022 Yellow or 95L-129W/1E3926 27012 Green, (Per Procurement Package W-441-P5, Rev. 2, 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	
Process Connection	1/4" NPT	1, IN	X	
3. Performance Critical Characteristics (for reasonable assurance that the Item will perform its intended safety function(s))				
Pressure Boundary	Pressure Test @ 165 psig (No Leakage - No Bubbles) Note 3	1, T		X
Valve Opening Pressure PCV-5*80 & 5*82 95L-129W/1E3926 27012 Green	Nominal 15 psig	1, T		X
Valve Opening Pressure PCV-5*08 & 5*27 95L-129W/1E3926 27012 Green	Nominal 14 psig	1, T		X
Valve Opening Pressure PCV-5*47 & 5*67 95L-128W/1E3925 27022 Yellow	Nominal 2 psig	1, T		X
Valve Opening Pressure PCV-5*84 & 5*86 95L-128W/1E3925 27022 Yellow	Nominal 3 psig	1, T		X
Environmental	Note 1			
Seismic Condition A	Note 2	1, T		X

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4. Notes and Legend:

1. The Pressure Control Valve and Fluoroelastomer Diaphragm and Nitrile O-ring are not subject to degradation at environmental conditions of 40°F and 60% RH or 115°F and 22% RH and are suitable for Condition B application.
2. 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.
3. Pressure Test at 110% of design accident condition pressure of 150 psig.
4. Material verification acceptance method may be by either inspection or test.

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

Section 10 Initial Review and Approval

Approvals: Designated Engineer: [Signature]

Design Authority: CR Min

QA Engineer: [Signature]

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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 [X] No []; If Yes, indicate failure Mode Valve Seizure
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: Fisher SCHe Pressure Control Valves		Equip #: SCHe-PCV-5*08, 5*27, 5*47, 5*67, 5*80, 5*82, 5*84, & 5*86	
System #: 13		Procurement and/or Model #: 95L-128W/1E3925 27022 Yellow	
		for PCV-5*47, 5*67, 5*84, & 5*86	
		95L- 129W/1E3926 27012 Green	
		for PCV-5*08, 5*27, 5*80, and 5*82	
Manufacturer (Address/Phone): Fisher-Rosemount, Inc 8200 Market Blvd. Chanhassen, MN 55317 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. Component Number-Procurement and/or Model Number
[X]	[X]	[]	3. Valve Body Material (Verification may be by either inspection or test)
[X]	[]	[]	4. Process Connection
[]	[X]	[]	5. Pressure Boundary
[]	[X]	[]	6. Valve Opening Pressure PCV-5*80 & 5*82 -- 95L-129W/1E3926 27012 Green
[]	[X]	[]	7. Valve Opening Pressure PCV-5*08 & 5*27 -- 95L-129W/1E3926 27012 Green
[]	[X]	[]	9. Valve Opening Pressure PCV-5*47 & 5*67 -- 95L-128W/1E3925 27022 Yellow
[]	[X]	[]	10. Valve Opening Pressure PCV-5*84 & 5*86 -- 95L-128W/1E3925 27022 Yellow
[]	[X]	[]	11. Seismic Condition A

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SECTION 3 BY INSPECTION

* See Attachment G of Desk Instruction for Sampling Size

Characteristic: **Nameplate - Manufacturer**

Sample Size*: **All Items**

Acceptance Criteria: **Fisher Controls**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

Characteristic: **Component Number-Procurement and/or Model Number**

Sample Size*: **All Items**

Acceptance Criteria: **95L-128W/1E3925 27022 Yellow**
or 95L-129W/1E3926 27012 Green,

(Per Procurement Package W-441-P5, Rev. 2, Section H, Design Data Sheet)

Receipt Inspection Plan / Report #: _____

References (see Section 7): Fisher Bulletin 71.4:98

Characteristic: **Process Connection**

Sample Size*: **All Items**

Acceptance Criteria: **1/4" NPT**

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): _____

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**

Acceptance Criteria: **Pressure Test @ 165 psig (No Leakage- No Bubbles)**

Sample Size*: **Normal Sampling Size**

Actual Test Value:

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

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Characteristic for Test: **Valve Opening Pressure PCV-5*80 & 5*82 -- 95L-129W/1E3926 27012 Green**

Acceptance Criteria: **Nominal 15 psig**

Sample Size*: **Normal Sampling Size**

Actual Test Value:

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

Characteristic for Test: **Valve Opening Pressure PCV-5*08 & 5*27 -- 95L-129W/1E3926 27012 Green**

Acceptance Criteria: **Nominal 14 psig**

Sample Size*: **Normal Sampling Size**

Actual Test Value:

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

Characteristic for Test: **Valve Opening Pressure PCV-5*47 & 5*67 -- 95L-128W/1E3925 27022 Yellow**

Acceptance Criteria: **Nominal 2 psig**

Sample Size*: **Normal Sampling Size**

Actual Test Value:

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

Characteristic for Test: **Valve Opening Pressure PCV-5*84 & 5*86 -- 95L-128W/1E3925 27022 Yellow**

Acceptance Criteria: **Nominal 3 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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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	Fisher Controls	X									
Component Number-Procurement and/or Model Number	95L-128W/1E3925 27022 Yellow or 95L-129W/1E3926 27012 Green, (Per Procurement Package W-441-P5, Rev. 2, Section H, Design Data Sheet)	X									
Valve Body Material	Stainless Steel	X									
Process Connection	1/4" NPT	X									
Pressure Boundary	Pressure Test @ 165 psig (No Leakage - No Bubbles)		X								
Valve Opening Pressure PCV-5*80 & 5*82 95L-129W/1E3926 27012 Green	Nominal 15 psig		X								
Valve Opening Pressure PCV-5*08 & 5*27 95L-129W/1E3926 27012 Green	Nominal 14 psig		X								
Valve Opening Pressure PCV-5*47 & 5*67 95L-128W/1E3925 27022 Yellow	Nominal 2 psig		X								

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Section 6 Contacts/Phone Numbers

Name	Phone
Design Authority	()
QA	()
QC	()
Cog - Engineer	()
CGI Engineer	()
Procurement Engineer	()
Other	()

Section 7 Supporting Documentation for this Checklist

Initial Procurement Documents	For Critical Characteristics
☐ 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:	

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