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 ☒ 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 ^u
	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 PD 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. 6.		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) <i>see attached distribution</i>		RELEASE STAMP DATE: STA: A MAY 06 1999 KANFORD RELEASE ID: 2.	

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REOTEMP PRESSURE INDICATOR - LOCAL PRESSURE INDICATION IN THE 15 PSIG SCHe SYSTEM

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

EDT/ECN: ~~626879~~ 653776 UC: 620
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Key Words: Reotemp Pressure Indicator -Local Pressure Indication in the 15 psig SCHe System

Abstract: Reotemp Pressure Indicator -Local Pressure Indication in the 15 psig SCHe System

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Release Approval

Approved for Public Release

[illegible]

Commercial Grade Item Upgrade Dedication Form

SNF-3924, Rev. 1

ECN No. **NA** CGI No. **CGI-SNF-D-13-P5-027**
Title: **REOTEMP PRESSURE INDICATOR – LOCAL PRESSURE
INDICATION IN THE 15 PSIG SCHe SYSTEM**

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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-PI-5*07, 5*26, 5*46, 5*66	Specification No.: W-441-P5, Rev. 2	Manufacturer: Reotemp Instruments	Past P.O. No.: NA
Procurement and/or Model No.: PR-25-S-1-A-4-P16-D	Equipment Supplier (if different from manufacturer): TBD		Equip. Supplier's Part No.: NA

Component Description: **These 0-30 psig range pressure indicators are located in the SCHe supply piping after PCV 5*23 and before PCV 5*27. The pressure indicators provide information on the pressure being maintained between the two PCVs. This design is used for each of the SCHe supply lines (4).**

Section 2b Qualified Vendor/Supplier Survey

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 and 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)

☒ 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)

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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 (eg., 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– 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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INDICATION IN THE 15 PSIG SCHe SYSTEM

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

1. **Fracture of the indicator 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, Rev. 0

W-441-P5, Rev. 2

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.

Section 6 [reserved]

Section 7 [reserved]

Section 8 References (for Functional Classification)

National Codes/Standards:

IEEE-344

Safety Analysis Report (SAR):

**HNF-SD-SNF-SAR-002,
Rev. 4A**

Drawings: **H-1-82165, Rev. 2**

**HNF-SD-SNF-SEL-002, Rev. 6
CVDF-SSD-003**

Vendor Manuals/Manufacturer/Supplier Information: **Reotemp Instrument Corporation, Series PS, Stainless Steel Pressure Gauges**

Other:

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Title: REOTEMP PRESSURE INDICATOR – LOCAL PRESSURE
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Section 9 Critical Characteristics				
Critical Characteristics	Acceptance Criteria/Tolerances	Acceptance Method	ID	Function
Verification Document: Vendor Specifications, HNF-SD-SNF-SEL-002, Rev. 56				
1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
Component Number-Procurement and/or Model Number	PR-25-S-1-A-4-P16-D, (Per Procurement Package W-441-P5, Rev. 2, Section G, Design Data Sheet)	1,IN	X	
Nameplate - Manufacturer	Reotemp Instruments	1,IN	X	
Process Connection	1/4 Inch NPT with 1/4 Inch by 1/2 Inch Bushing; Bottom Mounted	1,IN	X	
Indicator Range	0-30 psig	1,IN	X	
Indicator Dial Diameter	Nominal 2.5 Inches	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
Operating Range/Accuracy	0-30 psig; / +/- 1.6% of Full Scale.	1,T		X
Environmental	Note 1			
Seismic Condition B	Note 2	1,T		X
4. Notes and Legend:		Acceptance Method:		
1. The pressure indicator 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.		1. Special Test and Inspection 1,IN for Inspection 1,T for Test		
2. Maintain pressure boundary 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.		2. Commercial Grade Survey		
3. Pressure test at 110% of system design pressure of 150 psig. Exposure to test pressure may seriously degrade the readout function. This test is considered to be a destructive test.		3. Source Verification		
4. Material verification acceptance may be by either inspection or test.		4. Vendor/Item History		

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Title: REOTEMP PRESSURE INDICATOR – LOCAL PRESSURE
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Section 10 Initial Reviews and Approvals

Approvals:

Designated Engineer: Com Kling

Design Authority: R. L. Smith 9/26/99

QA Engineer: S. Mischke 4/27/99

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Title: REOTEMP PRESSURE INDICATOR – LOCAL PRESSURE

INDICATION IN THE 15 PSIG SCHe SYSTEM

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: REOTEMP PRESSURE INDICATOR – LOCAL PRESSURE
INDICATION IN THE 15 PSIG SCHe SYSTEM

CHECKLIST 1
ACCEPTANCE METHOD 1
SPECIAL TEST/INSPECTION VERIFICATION

SECTION 1			
Item Description: : Reotemp Local Pressure Indicator – 15 Psig SCHe System System #: 13		Equip #: SCHe-PI-5*07, 5*26, 5*46, 5*66 Procurement and/or Model #: PR-25-S-1-A-4-P16-D	
Manufacturer (Address/Phone): Reotemp Instrument Corporation P.O. #		Supplier (Address/Phone):	
SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.			
Insp	Test	Post-Test	
☒	☐	☐	1. Component Number-Procurement and/or Model Number
☒	☐	☐	2. Nameplate - Manufacturer
☒	☐	☐	3. Process Connection
☒	☐	☐	4. Indicator Range
☒	☐	☐	5. Indicator Dial Diameter
☒	☒	☐	6. Material, Body (Verification may be by either inspection or test)
☒	☒	☐	7. Material, Process Connection (Verification may be by either inspection or test)
☐	☒	☐	8. Pressure Boundary Integrity
☐	☒	☐	9. Operating Range/Accuracy
☐	☒	☐	10. Seismic Condition B
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: PR-25-S-1-A-4-P16-D, (Per Procurement Package W-441-P5, Rev. 2, Section G, Design Data Sheet)			
Receipt Inspection Plan / Report #: _____			
References (see Section 7): Reotemp Instrument Corporation, Series PS, Stainless Steel Pressure Gauges _____			

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Title: REOTEMP PRESSURE INDICATOR - LOCAL PRESSURE
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Characteristic: **Nameplate - Manufacturer**

Sample Size*: **All Items**

Acceptance Criteria: **Reotemp Instruments**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

Characteristic: **Process Connection**

Sample Size*: **All Items**

Acceptance Criteria: **1/4 Inch NPT with 1/4 Inch by 1/2 Inch Bushing; Bottom Mounted**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

Characteristic: **Indicator Range**

Sample Size*: **All Items**

Acceptance Criteria: **0-30 psig**

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): _____

SECTION 4 BY SPECIAL TEST

*using Attachment G, Section 3

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): _____

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Characteristic for Test: **Operating Range/Accuracy**

Acceptance Criteria: **0-30 psig; / +/- 1.6% of Full Scale**

Sample Size*: **Normal Sampling Size**

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. W-441-P5, Rev. 2, Appendix I, page I-2, provides a seismic testing plan for these components at a seismic spectra TBD**

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: REOTEMP PRESSURE INDICATOR - LOCAL PRESSURE INDICATION IN THE 15 PSIG SCHE SYSTEM

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
Component Number- Procurement and/or Model Number	PR-25-S-1-A-4-P16-D 4, (Per Procurement Package W-441-P5, Rev. 2, Section G, Design Data Sheet)	X									
Nameplate - Manufacturer	Reotemp Instruments	X									
Process Connection	1/4 Inch NPT with 1/4 Inch by 1/2 Inch Bushing; Bottom Mounted	X									
Indicator Range	0-30 psig	X									
Indicator Dial Diameter	Nominal 2.5 Inches	X									
Material, Body	Stainless Steel	X									
Material, Process Connection	Stainless Steel	X									
Pressure Boundary Integrity	No Leakage at Test Pressure of 165 psig (No Bubbles)		X								
Operating Range/Accuracy	0-30 psig; +/- 1.6% of Full Scale.		X								
Seismic Condition B	Maintain Pressure Boundary Before and After Seismic Event.		X								

04/26/99

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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 _____		BUYER VERIFICATION
Testing Agency QA Engineer: _____ Date _____		Design Authority: _____ 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
☐ 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:	