

APR 2 1999
Sta. 4 58

ENGINEERING DATA TRANSMITTAL

2. To: (Receiving Organization) Distribution	3. From: (Originating Organization) SNF Project	4. Related EDT No.: N/A
5. Proj./Prog./Dept./Div.: Spent Nuclear Fuel Project	6. Design Authority/ Design Agent/Cog. Engr.: C. Van Katwijk	7. Purchase Order No.: N/A
8. Originator Remarks: N/A		9. Equip./Component No.: N/A
		10. System/Bldg./Facility: Spent Nuclear Facility
11. Receiver Remarks: 11A. Design Baseline Document? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		12. Major Assm. Dwg. No.: N/A
		13. Permit/Permit Application No.: N/A
		14. Required Response Date: N/A

15. DATA TRANSMITTED					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Approval Designator	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	SNF-3926		0	Reotemp Pressure Indicator - Local Pressure Indication to Monitor the SCHe Supply Bottle Pressure	Q	2	1	N/A

16. KEY

Approval Designator (F)	Reason for Transmittal (G)		Disposition (H) & (I)	
E, S, Q, D or N/A (see WHC-CM-3-5, Sec.12.7)	1. Approval 2. Release 3. Information	4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)	1. Approved 2. Approved w/comment 3. Disapproved w/comment	4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged

17. SIGNATURE/DISTRIBUTION
(See Approval Designator for required signatures)

(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN
2	1	Designated Engineer	C. Van Katwijk								
2	1	Design Authority	R. Whitehurst		3/30/99						
2	1	QA	T. D. Hays		3/30/99						

18. C. Van Katwijk Signature of EDT Originator Date 2-9-99	19. T. Choho Authorized Representative for Receiving Organization Date 3/30/99	20. R. Whitehurst Design Authority/Cognizant Manager Date 3/30/99	21. DOE APPROVAL (if required) Ctrl. No. <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/comments <input type="checkbox"/> Disapproved w/comments
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S

Reotemp Pressure Indicator – Local Pressure Indication to Monitor the SCHe Supply Bottle Pressure

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

EDT/ECN: 626275 UC: 620
Org Code: 2G300 Charge Code: 105559/A000
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Key Words: Pressure Indicators – Purge Lines

Abstract: Reotemp Pressure Indicator – Local Pressure Indication to Monitor the SCHe Supply Bottle Pressure
CGI-SNF-D-13-P5-029

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[Handwritten Signature] 3/31/99

DATE
STAFF

HANFORD
RELEASE

ID: 58

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Release Approval Date Release Stamp

Approved for Public Release

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Title: REOTEMP PRESSURE INDICATOR - LOCAL PRESSURE		
INDICATION TO MONITOR THE SCHe SUPPLY BOTTLE PRESSURE		

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*02, 5*21, 5*41, 5*61	Specification No.: W-441-P5, Rev. 2	Manufacturer: Rebtemp Instruments	Past P.O. No.: NA
Manufacturer's Part/ Model No.: PR-25-S-1-A-4-P32-D	Equipment Supplier (if different from manufacturer): TBD		Equip. Supplier's Part No.: NA

Component Description: These 0-3000 psig range pressure indicators are located in the SCHe helium supply lines at the pressure bottles and upstream of the PRV. These accident monitoring local pressure indicators monitor the SCHe supply bottle pressure. There is one gauge for each SCHe supply (4).

Section 2b Qualified Vendor/Supplier Survey

- Is the Item available from a catalog from a qualified NQA1 or ISO 9000 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.)
Rev 12/21/98
- List of Candidate qualified suppliers or ISO 9000 suppliers *Rev 12/21/98*

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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3. Question #3: Is the Item ordered from manufacturer/supplier on the basis or specifications set forth in the manufacturers 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. **Post-accident monitoring for H2 explosion.**
3. **Maintain critical function 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):

1. **NA**
- 2.
- 3.

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- 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 resulting in loss of helium from the SCHe supply.**
 2. **Failure in gauge movement mechanism resulting in inaccurate or loss of Supply bottle pressure indication.**
 - 3.
 - 4.
 - 5.

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 Reqts.: Seismic Condition A Required Safety Functions: Pressure Boundary Integrity, Post Accident Monitoring for 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.

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. 4 CVDF-SSD-003
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Vendor Manuals/Manufacturer/Supplier Information: **Rootemp Instrument Corporation, Series PR, Stainless Steel Pressure Gauges**

Other:

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Title: **REOTEMP PRESSURE INDICATOR – LOCAL PRESSURE****INDICATION TO MONITOR THE SCHe SUPPLY BOTTLE PRESSURE**

Section 9: Critical Characteristics				
Critical Characteristics	Acceptance Criteria/Tolerances	Acceptance Method	ID	Function
Verification Document:: Vendor Specifications, HNF-SD-SNF-SEL-002, Rev. 4				
1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
Nameplate Data	Per Vendor Manual	1,IN	X	
Model Number	PR-25-S-1-A-4-P32-D	1,IN	X	
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	0-3000 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	1,T	X	
Material, Process Connection	Stainless Steel	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 3300 Psig. Note 3.	1,T		X
Operating Range/Accuracy	0-3000 Psig / +/- 1.6% of Full Scale	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"> 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. Maintain critical function 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. Pressure test at 110% of system design pressure of 3000 psig. 		<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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Section 10 Initial Reviews and Approvals

Approvals:

Designated Engineer: [Signature] 12/21/98Design Authority: [Signature] 12/21/98QA Engineer: [Signature] 12/21/98

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Title: **REOTEMP PRESSURE INDICATOR - LOCAL PRESSURE**

INDICATION TO MONITOR THE SCHe SUPPLY BOTTLE 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> ; If Yes, indicate failure Mode. Failure of Transmitter Body or the Process connection
Corrosion	The gradual deterioration of a material due to chemical or electrochemical reactions, such as oxidation, between the material and its environment.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; If Yes, indicate failure Mode. _____
Seizure	Binding of a normally moving item through excessive pressure, temperature, friction, jamming.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; If Yes, indicate failure Mode. _____
Ductile Fracture	Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> ; If Yes, indicate failure Mode. _____

SECTION 2 Additional Failure Modes Applicable to the Component Under Evaluation

- Process Connection/Body Break** _____
- _____

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<u>INDICATION TO MONITOR THE SCHe SUPPLY BOTTLE PRESSURE</u>	

**CHECKLIST 1
ACCEPTANCE METHOD 1
SPECIAL TEST/INSPECTION VERIFICATION**

SECTION 1	
Item Description: Reotemp Local Pressure Indicator – Monitor the SCHe Supply Bottle Pressure System #: 13	Equip #: SCHe-PI-5*02, 5*21, 5*41, 5*61 Model #: PR-25-S-1-A-4-P32-D
Manufacturer (Address/Phone): Reotemp Instruments	Supplier (Address/Phone):
P.O. #	

SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.

Insp	Test	Post-Test	
[X]	[]	[]	1. Nameplate Data
[X]	[]	[]	2. Model Number
[X]	[]	[]	3. Manufacturer
[X]	[]	[]	4. Process Connection
[X]	[]	[]	5. Indicator Range
[X]	[]	[]	6. Indicator Dial Diameter
[]	[X]	[]	7. Material, Body
[]	[X]	[]	8. Material, Process Connection
[]	[X]	[]	9. Pressure Boundary Integrity
[]	[X]	[]	10. Operating Range/Accuracy
[]	[X]	[]	11. Seismic Condition A

SECTION 3 BY INSPECTION

* See Attachment G of Desk Instruction for Sampling Size

Characteristic: **Nameplate Data**

Sample Size*: **All Items**

Acceptance Criteria: **Per Vendor Manual**

Receipt Inspection Plan / Report #: _____

References (see Section 7): **Reotemp Instrument Corporation, Series PR, Stainless Steel Pressure Gauges**

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Characteristic: **Model Number**
 Sample Size*: **All Items**
 Acceptance Criteria: **PR-25-S-1-A-4-P32-D**
 Receipt Inspection Plan / Report #: _____
 References (see Section 7): _____

Characteristic: **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: **0-3000 Psig**
 Receipt Inspection Plan / Report #: _____
 References (see Section 7): _____

Characteristic: **Indicator Dial Diameter**
 Sample Size*: **All Items**
 Acceptance Criteria: **Nominal 2.5 Inches**
 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:	Number of Items to be Tested:
<input type="checkbox"/> Purchaser	Test/Inspection Location:
<input type="checkbox"/> Supplier/Manufacturer**	
<input type="checkbox"/> Other	

Characteristic for Test: **Material, Body**
 Acceptance Criteria: **Stainless Steel**
 Sample Size*: **Normal Sampling Size**
 Actual Test Value:
 Test Plan and Report #: _____ References (see Section 7): _____

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Title: REOTEMP PRESSURE INDICATOR – LOCAL PRESSUREINDICATION TO MONITOR THE SCHe SUPPLY BOTTLE PRESSURECharacteristic for Test: **Material, Process Connection**Acceptance Criteria: **Stainless Steel**Sample Size*: **Normal Sampling Size**

Actual Test Value:

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

Characteristic for Test: **Pressure Boundary Integrity**Acceptance Criteria: **No Leakage at Test Pressure of 3300 Psig**Sample Size*: **Normal Sampling Size**

Actual Test Value:

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

Characteristic for Test: **Operating Range/Accuracy**Acceptance Criteria: **0-3000 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 A**Acceptance Criteria: **Maintain Critical Function 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*: **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

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Sheet 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/DN	Procedure or RR#	Checklist ID	Number Tested	Number Failed	Verifying Organization	Printed Name Signature	Date
Nameplate Data	Per Vendor Manual	X									
Model Number	PR-25-S-1-A-4-P32-D	X									
Manufacturer	Rootemp Instruments	X									
Process Connection	1/4 Inch NPT With 1/4 Inch by 1/2 Inch Bushing; Bottom Mounted	X									
Indicator Range	0-3000 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 3300 Psig		X								
Operating Range/Accuracy	0-3000 Psig / +/- 1.6% of Full Scale		X								
Environmental	NA		X								
Seismic Condition A	Maintain Critical Function										

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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
<input type="checkbox"/> Drawings:	
<input type="checkbox"/> Manuals (specify type & number):	
<input type="checkbox"/> Design Calculations	
<input type="checkbox"/> Installation Instructions	
<input type="checkbox"/> Operation Instructions	
<input type="checkbox"/> Calibration Instructions	
<input type="checkbox"/> Manufacturer's Recommended Spare Parts List	
<input type="checkbox"/> Other:	
Procurement Documents	
<input type="checkbox"/> Certificate of Conformance/Compliance	
<input type="checkbox"/> Seismic Qualification Certificate	
<input type="checkbox"/> Environmental Qualification Certificate	
<input type="checkbox"/> Test Report (s):	
<input type="checkbox"/> Inspection Report (s):	
<input type="checkbox"/> CMTRs for ASME Pressure Retaining Materials	
<input type="checkbox"/> Valve Seat Leakage Report	
<input type="checkbox"/> Weld Records	
<input type="checkbox"/> Material Traceability Record	
<input type="checkbox"/> Other:	