ENGINEERING CHANGE NOTICE

Page 1 of 2

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,5"
	9. Document Numbers Changed by this ECN (includes sheet no. and rev.) All Rev0 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 Bk. 12b) ☒ No (NA Bk. 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: <i>A</i> MAY 06 1999 ID: <i>2</i>	

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

A-7900-013-1

ENGINEERING CHANGE NOTICE

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

653776

16. Design Verification Required ☐ Yes ☒ No	17. Cost Impact <table border="0"> <tr> <th colspan="2">ENGINEERING</th> <th colspan="2">CONSTRUCTION</th> </tr> <tr> <td>Additional</td> <td>☐ \$</td> <td>Additional</td> <td>☐ \$</td> </tr> <tr> <td>Savings</td> <td>☐ \$</td> <td>Savings</td> <td>☐ \$</td> </tr> </table>	ENGINEERING		CONSTRUCTION		Additional	☐ \$	Additional	☐ \$	Savings	☐ \$	Savings	☐ \$	18. Schedule Impact (days) Improvement ☐ Delay ☐																	
ENGINEERING		CONSTRUCTION																													
Additional	☐ \$	Additional	☐ \$																												
Savings	☐ \$	Savings	☐ \$																												
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 ☐ Functional Design Criteria ☐ Operating Specification ☐ Criticality Specification ☐ Conceptual Design Report ☐ Equipment Spec. ☐ Const. Spec. ☐ Procurement Spec. ☐ Vendor Information ☐ OM Manual ☐ FSAR/SAR ☐ Safety Equipment List ☐ Radiation Work Permit ☐ Environmental Impact Statement ☐ Environmental Report ☐ Environmental Permit ☐	Seismic/Stress Analysis ☐ Stress/Design Report ☐ Interface Control Drawing ☐ Calibration Procedure ☐ Installation Procedure ☐ Maintenance Procedure ☐ Engineering Procedure ☐ Operating Instruction ☐ Operating Procedure ☐ Operational Safety Requirement ☐ IEPD Drawing ☐ Cell Arrangement Drawing ☐ Essential Material Specification ☐ Fac. Proc. Samp. Schedule ☐ Inspection Plan ☐ Inventory Adjustment Request ☐	Tank Calibration Manual ☐ Health Physics Procedure ☐ Spares Multiple Unit Listing ☐ Test Procedures/Specification ☐ Component Index ☐ ASME Coded Item ☐ Human Factor Consideration ☐ Computer Software ☐ Electric Circuit Schedule ☐ ICRS Procedure ☐ Process Control Manual/Plan ☐ Process Flow Chart ☐ Purchase Requisition ☐ Tickler File ☐																													
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																															
<table border="0"> <tr> <th>Signature</th> <th>Date</th> </tr> <tr> <td>Design Authority C. Miska <i>C. Miska</i></td> <td>4/27/99</td> </tr> <tr> <td>Designated Cog. Eng. C. Van Katwijk <i>C. Van Katwijk</i></td> <td>4/22/99</td> </tr> <tr> <td>Authorized Rep. Mgr. T. Choho <i>T. Choho</i></td> <td>4/27/99</td> </tr> <tr> <td>QA T. D. Hays <i>T. D. Hays</i></td> <td>4/27/99</td> </tr> <tr> <td>Other R. W. Whitehurst <i>R. W. Whitehurst</i></td> <td>4/27/99</td> </tr> <tr> <td>Safety (Nuclear) <i>Jo Ann P. Brehm</i></td> <td>5/4/99</td> </tr> </table>	Signature	Date	Design Authority C. Miska <i>C. Miska</i>	4/27/99	Designated Cog. Eng. C. Van Katwijk <i>C. Van Katwijk</i>	4/22/99	Authorized Rep. Mgr. T. Choho <i>T. Choho</i>	4/27/99	QA T. D. Hays <i>T. D. Hays</i>	4/27/99	Other R. W. Whitehurst <i>R. W. Whitehurst</i>	4/27/99	Safety (Nuclear) <i>Jo Ann P. Brehm</i>	5/4/99	<table border="0"> <tr> <th>Signature</th> <th>Date</th> </tr> <tr> <td>Design Agent</td> <td>_____</td> </tr> <tr> <td>PE</td> <td>_____</td> </tr> <tr> <td>QA</td> <td>_____</td> </tr> <tr> <td>Safety</td> <td>_____</td> </tr> <tr> <td>Design</td> <td>_____</td> </tr> <tr> <td>Environ.</td> <td>_____</td> </tr> <tr> <td>Other</td> <td>_____</td> </tr> </table>	Signature	Date	Design Agent	_____	PE	_____	QA	_____	Safety	_____	Design	_____	Environ.	_____	Other	_____
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Design Agent	_____																														
PE	_____																														
QA	_____																														
Safety	_____																														
Design	_____																														
Environ.	_____																														
Other	_____																														
DEPARTMENT OF ENERGY Signature or a Control Number that tracks the Approval Signature ADDITIONAL		_____ _____ _____ _____ _____ _____ _____ _____ _____ _____																													

FIKE SCHe PURGE SUPPLY PRESSURE SAFETY ELEMENT

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

EDT/ECN: ~~626879~~ 653776 UC: 620
Org Code: 2G300 Charge Code: 105559/A000
B&R Code: 39EW40400 Total Pages: 14

Key Words: Fike SCHe Purge Supply Pressure Safety Element

Abstract: Fike SCHe Purge Supply Pressure Safety Element

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Release Approval

5/6/99

Approved for Public Release

[illegible]

A-7320-005 (10/97)

Commercial Grade Item Upgrade Dedication Form

SNF-3920, Rev. 1

ECN No. **NA**

CGI No. **CGI-SNF-D-13-P5-023**

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Title: **FIKE SCHe PURGE SUPPLY PRESSURE SAFETY ELEMENT**

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-PSE-5*05, 5*24, 5*44, 5*64.**

Specification No.: **W-441-P5, Rev. 2**

Manufacturer: **FIKE**

Past P.O. No.: **NA**

Procurement and/or Model No.: **CPV-ST-1/2" W/1/2-30SM-10-316SS**

Equipment Supplier (if different from manufacturer): **TBD**

Equip. Supplier's Part No.: **NA**

Component Description: **These pressure safety elements are 1/2 inch rupture discs used to prevent an overpressure condition in the helium supply lines or the MCO. The pressure safety elements are located in the supply lines between the pressure regulating valves at the SCHe supply bottles and the pressure reducing valves supplying the helium purge.**

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)

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Title: **FIKE SCHe PURGE SUPPLY PRESSURE SAFETY ELEMENT**

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. **Preclude MCO overpressurization and support the SCHe purge availability to the MCO by protecting the purge lines from possible overpressure from the helium supply bottles.**

2. **Pressure Boundary Integrity—Prevents helium leakage from the normal Helium System or the SCHe System or air leakage into the system during vacuum operation.**

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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CGI No. **CGI-SNF-D-13-P5-023**

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Title: **FIKE SCHe PURGE SUPPLY PRESSURE SAFETY ELEMENT**

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

1.

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

1. **Failure of the disc to rupture at its nominal burst pressure.**

2. **Fracture of the disc housing or piping attachment.**

3. **Disc ruptures or leaks past disc at a lower pressure than its nominal burst pressure.**

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: **Disc ruptures to relieve overpressure in the helium supply lines; Pressure Boundary Integrity.**

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:

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. 6
CVDF-SSD-003**

Vendor Manuals/Manufacturer/Supplier Information: **Fike Rupture Disc Application, Selection, and Specification, HOV Series**

Other:

Commercial Grade Item Upgrade Dedication Form

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Title: **FIKE SCHe PURGE SUPPLY PRESSURE SAFETY ELEMENT**

Section 9 Critical Characteristics				
Critical Characteristics	Acceptance Criteria/Tolerances	Acceptance Method	ID	Function
Verification Document:: Vendor Specifications, HNF-SD-SNF-SEL-002, Rev. 6				
1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
Component Number-Procurement and/or Model Number	CPV-ST-1/2" W/1/2-30SM-10-316SS , (Per Procurement Package W-441-P5, Rev. 2, Section G, Design Data Sheet)	1,IN	X	
Nameplate - Manufacturer	Fike	1,IN	X	
Process Connection	1/2 Inch NPT	1,IN	X	
2. Physical Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
Material, Housing	Stainless Steel (Note 4)	1, IN	1,T	X
Material, Process Connection	Stainless Steel (Note 4)	1, IN	1,T	X
Material, Rupture Disc	Urethane Coated Aluminum	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. Note 3.	1,T		X
Leak Past Rupture Disc	Pressure test to 15 psig, leakage to bubble tight standards < 10-3 ml/sec Note 5	1,T		X
Rupture Disc Burst Pressure	Nominal 125 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"> The pressure safety element and rupture disc 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. 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% of design accident condition pressure of 150 psig. The rupture disc burst pressure is 125 psig, nominal. The disc must be removed and a blank installed for this test. Material verification acceptance method may be by either inspection or test. During test - do not wet rupture disc (with wetting solution , e.g. Snoop type soap solution). 		<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: **FIKE SCHe PURGE SUPPLY PRESSURE SAFETY ELEMENT**

Section 10 Initial Reviews and Approvals

Approvals:

Designated Engineer:

C. Van Rensburg 4/26/99

Design Authority:

C. R. Nunn 4/27/99

QA Engineer:

D. Hoop

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Title: **FIKE SCHe PURGE SUPPLY PRESSURE SAFETY ELEMENT**

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. _____
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

- Failure of the disc to rupture at its nominal burst pressure.**
- Fracture of the disc housing or piping attachment.**
- Disc ruptures at a lower pressure than its nominal burst pressure.**

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Title: **FIKE SCHe PURGE SUPPLY PRESSURE SAFETY ELEMENT**

CHECKLIST 1

ACCEPTANCE METHOD 1

SPECIAL TEST/INSPECTION VERIFICATION

SECTION 1	
Item Description: SCHe Purge Supply Pressure Safety Element	Equip #: SCHe-PSE-5*05, 5*24, 5*44, 5*64.
System #: 13	Procurement and/or Model #: CPV-ST-1/2" W/1/2-30SM-10-316SS
Manufacturer (Address/Phone): Fike Company	Supplier (Address/Phone):
P.O. #	

SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1

Imp	Test	Post-Test	
☒	☐	☐	1. Component Number-Procurement and/or Model Number
☒	☐	☐	2. Nameplate - Manufacturer
☒	☐	☐	3. Process Connection
☒	☒	☐	4. Material, Rupture Disc (Verification may be by either inspection or test)
☒	☒	☐	5. Material, Housing (Verification may be by either inspection or test)
☒	☒	☐	6. Material, Process Connection
☐	☒	☐	7. Pressure Boundary Integrity
☐	☒	☐	8. Leakage, Rupture Disc
☐	☒	☐	9. Rupture Disc Burst Pressure
☐	☒	☐	10. Seismic Condition A

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: **CPV-ST-1/2" W/1/2-30SM-10-316SS-**

Receipt Inspection Plan / Report #: _____

References (see Section 7): **Fike Rupture Disc Application, Selection, and Specification, HOV Series**

Characteristic: **Nameplate - Manufacturer**

Sample Size*: **All Items**

Acceptance Criteria: **Fike**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

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ECN No. **NA**

CGI No. **CGI-SNF-D-13-P5-023**

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Title: **FIKE SCHe PURGE SUPPLY PRESSURE SAFETY ELEMENT**

Characteristic: **Process Connection**

Sample Size*: **All Items**

Acceptance Criteria: **1/2 Inch NPT**

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

Characteristic: **Material, Housing**

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): _____

Characteristic: **Material, Rupture Disc**

Sample Size*: **This is a destructive test since the coating must be damaged to test the material. Utilize the disc that has been ruptured for the burst pressure test to test the material. Test only one item.**

Acceptance Criteria: **Urethane Coated Aluminum**

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 Integrity**

Acceptance Criteria: **No Leakage at Process Test Pressure of 165 psig**

Sample Size*: **Normal Sampling Size**

Actual Test Value:

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

Commercial Grade Item Upgrade Dedication Form

SNF-3920, Rev. 1

ECN No. **NA**CGI No. **CGI-SNF-D-13-P5-023**

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Title: **FIKE SCHe PURGE SUPPLY PRESSURE SAFETY ELEMENT****Characteristic for Test: Leakage Past Rupture Disc****Acceptance Criteria: At 15 psig, Leakage to bubble type standards < 10-3 ml/sec (do not wet disc with liquid solution (e.g. Snoop))****Sample Size*: Normal Sampling Size****Actual Test Value:****Test Plan and Report #:** _____ **References (see Section 7):** _____**Characteristic for Test: Rupture Disc Burst Pressure****Acceptance Criteria: Nominal 125 psig****Sample Size*: Destructively Test Only One Item. After burst, use this disc for material test.****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**

Commercial Grade Item Upgrade Dedication Form

ECN No. NA

CGINo. CGI-SNF-D-13-P5-023

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Title: FIKE SCHe PURGE SUPPLY PRESSURE SAFETY ELEMENT

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#	Checklist ID	Number Tested	Number Failed	Verifying Organization	Printed Name Signature	Date
Component Number-Procurement and/or Model Number	CPV-ST-1/2" W/1/2-30SM-10-316SS	X									
Nameplate - Manufacturer	Fike	X									
Process Connection	1/2 Inch NPT	X									
Material, Rupture Disc	Urethane Coated Aluminum	X									
Material, Housing	Stainless Steel	X									
Material, Process Connection	Stainless Steel	X									
Pressure Boundary Integrity	No Leakage at Test Pressure of 165 psig		X								
Leakage Past Rupture Disc	Pressure Test to 15 psig, leakage to bubble tight standards <10-3 ml/sec		X								
Rupture Disc Burst Pressure	Nominal 125 psig		X								
Seismic Condition A	Maintain Critical Function Before and After Seismic Event		X								

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Title: FIKE SCHe PURGE SUPPLY PRESSURE SAFETY ELEMENT

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

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Title: **FIKE SCHe PURGE SUPPLY PRESSURE SAFETY ELEMENT**

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:	