2. To: (Receiving Organization) Distribution	3. From: (Originating Organization) SNF Project W-441	4. Related EDT No.: N/A
5. Proj./Prog./Dept./Div.: SNF Project W-441	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: SNF CVDF
11. Receiver Remarks: 11A. Design Baseline Document? ☐ Yes ☒ No N/A		12. Major Assm. Dwg. No.: N/A
		13. Permit/Permit Application No.: N/A
		14. Required Response Date: N/A

[illegible]

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	4. Review	1. Approved	4. Reviewed no/comment	
	2. Release	5. Post-Review	2. Approved w/comment	5. Reviewed w/comment	
	3. Information	6. Dist. (Receipt Acknow. Required)	3. Disapproved 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	7/26/99				See Distribution			
2	1	Design Authority	C. Miska	7/26/99							
2	1	Safety	J. Brehm	7/28/99							
2	1	QA	T. Hays	7/27/99							

18. T. Nuxall <i>T. Nuxall 7/6/99</i> Signature of EDT Originator	19. T. Choho <i>T. Choho 7/27/99</i> Authorized Representative for Receiving Organization	20. C. Van Katwyk <i>C. Van Katwyk 7/26/99</i> Design Authority/ Cognizant Manager	21. DOE APPROVAL (if required) Ctrl. No. ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments
---	---	--	---

SCHe HELIUM SUPPLY BOTTLES AND ASSOCIATED ISOLATION VALVES

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

EDT/ECN: 626322	UC: 620
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B&R Code: 39EW40400	Total Pages: 13

Key Words: SCHe Helium Supply Bottles and Associated Isolation Valves

Abstract: SCHe Helium Supply Bottles and Associated Isolation Valves

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Gynis Braden
Release Approval

7/30/99

Approved for Public Release

Commercial Grade Item Upgrade Dedication Form

SNF-4887, Rev. 0

ECN No. **NA** CGI No. **CGI-SNF-D-13-2-P5-050**
 Title: **SCHe HELIUM SUPPLY BOTTLES AND ASSOCIATED ISOLATION VALVES**

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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-TK-5*01 with SCHe-V-*114 SCHe-TK-5*02 with SCHe-V-*115 SCHe-TK-5*03 with SCHe-V-*116 SCHe-TK-5*04 with SCHe-V-*117	Specification No.: W-441-P5, Rev. 2	Manufacturer: Matheson	Past P.O. No.:
Procurement and/or Model No.: Bottle: Matheson 1A. Valve: CGA No. 580	Equipment Supplier (if different from manufacturer): TBD		Equip. Supplier's Part No.: NA

Component Description: **These gas bottles and associated valves provide the safety grade helium source for emergency MCO purge.**

Section 2b Commercial Availability of the Item

- 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 6.3.2, 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 6.3.2, proceed to dedicate Item.)
☒ NO (go to procedure step 6.3.2, proceed to dedicate Item.)

- List of Candidate qualified suppliers or ISO 9000 suppliers

company name & type	contact name	phone
NA		

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

The bottles and associated valves will be procured as commercial grade. A CGI Upgrade Dedication Form will be prepared. Bottle is steel and is size "1A". Bottles will be fabricated to requirements of DOT standards (49 CFR 178.37). Valves are furnished as part of the helium bottles. The Documentation supplied by the fabricator will include serial number identification for the bottles.

The bottles are not individually seismically tested. The facility equipment rack/restraints holding them require seismic design and certification. Seismic testing of the assembled panel will be done with a "1A" bottle and connecting flex hose installed.

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Title: **SCHe HELIUM SUPPLY BOTTLES AND ASSOCIATED ISOLATION VALVES**

The DOT fabrication report provided by the fabricator will include, but not limited to documentation for: date of fabrication, liquid penetrant certification report, verification of leak test (stem, seat, and rupture disc) of the isolation valves, and hydrotest report.

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. **SCHe Pressure Boundary Integrity – Prevents helium leakage from the SCHe System.**
2. **Maintain critical function before and after Seismic event.**
3. **Supply Helium for MCO emergency helium purge.**

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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Title: **SCHe HELIUM SUPPLY BOTTLES AND ASSOCIATED ISOLATION VALVES**C. Host Component Safety Function (if applicable): **NA**

1.

2.

3.

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

1. **Fracture of the pressure boundary or of the piping connection resulting in loss of helium from the SCHe supply.**2. **Foreign matter introduced during bottle shipment and changout could block flow in the hose or in the regulator.**

3.

4.

5.

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: **Pressure boundary Integrity; Maintain supply of emergency helium; Maintain critical function before and after Seismic Event.**

Section 5 Component Functional Classification

☒ Safety Class (SC)☐ General Service (GS)☐ 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: **DOT 49 CFR 178.37**Safety Analysis Report (SAR): **HNF-SD-SNF-SAR-002, Rev. 4A**Drawings: **H-1-82165, Rev. 2**
HNF-SD-SNF-SEL-002, Rev. 6AVendor Manual/Manufacturer/Supplier Information: **Matheson Gases and Equipment Catalog, pg 20.**

Other:

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Section 9 Critical Characteristics

Critical Characteristics Verification Document: Vendor Specifications: HNF-SD-SNF-SEL-002, Rev. 6A	Acceptance Criteria/Tolerances	Acceptance Method	ID	Function
1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
Construction Documentation for DOT 49 CFR 178.37	Fabrication Report information including: serial numbers, date of fabrication, liquid penetrant certification report, verification of leak test (stem, seat and rupture disc) of the isolation valves, and hydrotest report.	1,IN	X	
Nameplate - Manufacturer	Matheson	1,IN	X	
Bottle Size	1A; 9 inch diameter by 51 inch height	1,IN	X	
Procurement and/or Model No.	Bottle: Matheson 1A. Valve: CGA No. 580	1,IN	X	
2. Physical Critical Characteristics (for reasonable assurance that the Item delivered is the Item specified)				
Material, Bottle	Steel (Note 3)	1,IN 1,T	X	
Material, Process Connection	Stainless Steel (Note 3)	1,IN 1,T	X	
3. Performance Critical Characteristics (for reasonable assurance that the Item will perform its intended safety function(s))				
Pressure Boundary Integrity	Pressure Test at minimum 3300 psig (See Fabrication Report Hydrotest Documentation)	1,IN		X
Environmental	Note 1			
Seismic Condition A Event	Note 2	1,T		X
Valve Leakage, Stem, Seat, and Rupture Disc.	Pressure Test at 3300 psig (No Bubbles) See Fabrication Report	1,IN		X
4. Notes and Legend:				
<p>1. The helium bottle and valve are 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.</p> <p>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.</p> <p>3. Material verification acceptance method may be by either inspection or test.</p>		<p>Acceptance Method:</p> <p>1. Special Test and Inspection 1, IN for Inspection 1,T for Test</p> <p>2. Commercial Grade Survey</p> <p>3. Source Verification</p> <p>4. Vendor/Item History</p>		

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Title: **SCH_e HELIUM SUPPLY BOTTLES AND ASSOCIATED ISOLATION VALVES**

Section 10 Initial Review and Approval

Approvals:

Designated Engineer:

Design Authority:

QA Engineer:

[Signature] 7/26/99
[Signature] 7/26/99
[Signature] 7/27/99

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Title: **SCHe HELIUM SUPPLY BOTTLES AND ASSOCIATED ISOLATION VALVES**

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: Fracture of the bottle or the connection would fail the pressure boundary and stop the supply of emergency helium to that purge path.
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

- Foreign matter introduced inside the hose during bottle changout could block flow in the hose or in the regulator.**
-
-
-
-

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Title: **SCHe HELIUM SUPPLY BOTTLES AND ASSOCIATED ISOLATION VALVES**

CHECKLIST 1

ACCEPTANCE METHOD 1

SPECIAL TEST/INSPECTION VERIFICATION

SECTION 1			
Item Description: SCHe Helium Supply Bottles and Associated Valves		Equip #: SCHe-TK-5*01, 5*02, 5*03, 5*04 with valves SCHe-V-*114, *115, *116 and *117 respectively.	
System #: 13-2		Procurement and/or Model No.: Bottle: Matheson 1A. Valve: CGA No. 580	
Manufacturer (Address/Phone): Matheson Gas Products 6775 Central Ave. Newark, CA 94560 P.O. #		Supplier (Address/Phone):	
SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.			
Insp	Test	Post-Test	
☒	☐	☐	1. Construction Documentation
☒	☐	☐	2. Nameplate - Manufacturer
☒	☐	☐	3. Bottle Size
☒	☐	☐	4. Procurement and/or Model No.
☒	☒	☐	5. Material, Bottle (Verification may be by either inspection or test)
☒	☒	☐	6. Material, Process Connection (Verification may be by either inspection or test)
☒	☐	☐	7. Pressure Boundary Integrity (See Fabrication Report)
☐	☒	☐	8. Seismic Condition A
☒	☐	☐	9. Valve Leakage (See Fabrication Report)
SECTION 3 VERIFIED BY INSPECTION			
* See Attachment H of Desk Instruction for Sampling Size			
Characteristic: Construction Documentation			
Sample Size*: All Items			
Acceptance Criteria: Fabrication report including: serial numbers, date of fabrication, liquid penetrant certification, verification of leak test (stem, seat, and rupture disc) of the isolation valves, and hydrotest certification.			
Receipt Inspection Plan / Report #: _____			
References (see Section 8): _____			

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Title: **SCHe HELIUM SUPPLY BOTTLES AND ASSOCIATED ISOLATION VALVES**Characteristic: **Nameplate - Manufacturer**Sample Size*: **All Items**Acceptance Criteria: **Matheson**

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Matheson Gases and Equipment Catalog, pg 20.**Characteristic: **Bottle Size**Sample Size*: **All Items**Acceptance Criteria: **1A; 9 inch diameter by 51 inch height**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Procurement and/or Model No.**Sample Size*: **All Items**Acceptance Criteria: **Bottle: Matheson 1A. Valve: CGA No. 580**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Material, Bottle**Sample Size*: **All Items**Acceptance Criteria: **Steel**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Material, Process Connection**Sample Size*: **All Items**Acceptance Criteria: **Stainless Steel**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic:

Sample Size*: **All Items**

Acceptance Criteria:

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

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SECTION 4 VERIFIED BY SPECIAL TEST

* See Attachment H 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: **Minimum Test Pressure of 3300 psig (110% of 3000 psig system design)**

Sample Size*: **Normal Sampling Size**

Actual Test Value:

Test Plan and Report #: _____ References (see Section 8): **See Fabrication Report Hydrotest Documentation**

Characteristic for Test: **Seismic Condition A**

Acceptance Criteria: **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**

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 8): _____

Characteristic for Test: **Valve Leakage, (stem, seat, and rupture disc)**

Acceptance Criteria: **No Bubbles at Test Pressure of 3300 psig**

Sample Size*: **Normal Sampling Size**

Actual Test Value:

Test Plan and Report #: _____ References (see Section 8): **See Fabrication Report**

Characteristic for Test:

Acceptance Criteria:

Sample Size*: **Normal Sampling Size**

Actual Test Value:

Test Plan and Report #: _____ References (see Section 8): _____

Characteristic for Test:

Acceptance Criteria:

Sample Size*: **Normal Sampling Size**

Actual Test Value:

Test Plan and Report #: _____ References (see Section 8): _____

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

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Title: **SCHe HELIUM SUPPLY BOTTLES AND ASSOCIATED ISOLATION VALVES**

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
Construction Documentation	Fabrication Report information including: serial numbers, date of fabrication, liquid penetrant certification report, verification of leak test (stem, seat, and rupture disc) of the isolation valves, and hydrotest report.	X									
Nameplate - Manufacturer	Matheson	X									
Bottle Size	1A; 9 inch diameter x 51 inch height	X									
Procurement and/or Model No.	Bottle: Matheson 1A. Valve: CGA No. 580	X									
Material, Bottle	Steel	X									
Material, Process Connection	Stainless Steel	X									
Pressure Boundary Integrity	Pressure Test at minimum 3300 psig (See Fabrication Report Hydrotest Documentation)		X								
Seismic Condition A	Maintain critical function before and after Seismic Event		X								

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Valve leakage, stem, seat, and rupture disc	Pressure Test at 3300 psig (No Bubbles) See Fabrication Report		X								

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.

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

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SNF-4628, Rev. 0

ECN No. **NA**

CGI No. **CGI-SNF-D-13-2-P5-050**

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Title: **SCHe HELIUM SUPPLY BOTTLES AND ASSOCIATED ISOLATION VALVES**

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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