ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN 647508

Proj.
ECN

2. ECN Category (mark one) Supplemental ☐ Direct Revision ☒ Change ECN ☐ Temporary ☐ Standby ☐ Supersedure ☐ 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 6/22/99
	6. Project Title/No./Work Order No. W-441 Spent Nuclear Fuel Cold Vacuum Drying	7. Bldg./Sys./Fac. No. CVDF	8. Approval Designator SQ
	9. Document Numbers Changed by this ECN (includes sheet no. and rev.) SNF-3921, SNF-3926, SNF-3927, SNF-3929, SNF-3888, SNF-4418- RD	10. Related ECN No(s). N/A	11. Related PO 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 <hr/> Design Authority/Cog. Engineer Signature & Date	12d. Restored to Original Condition (Temp. or Standby ECN only) N/A <hr/> Design Authority/Cog. Engineer Signature & Date
13a. Description of Change Revision to meet SEL, Rev. 6a			
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)			
C. Miska	R3-86	1	
C. Van Katwijk	R3-47	1	
CVD Library (K. Boes)	R3-86	1	
T. Hays	R3-86	1	
J. Brehm	R3-26	1	
AVS-P. Morrell	G1-50	1	
AI-M. Evarts	N1-29	1	

RELEASE STAMP

JUL 01 1999

DATE: 4

STA: 4

HANFORD

RELEASE

ID: 4

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

647508

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

FCI MCO HELIUM INLET FLOW ELEMENT/INDICATOR TRANSMITTER

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

EDT/ECN: 647508	UC: 620
Org Code: 2G300	Charge Code: 105559/A000
B&R Code: 39EW40400	Total Pages: 5

Key Words: FCI MCO Helium Inlet Flow Element/Indicator Transmitter

Abstract: FCI MCO Helium Inlet Flow Element/Indicator Transmitter

TRADEMARK DISCLAIMER. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors.

Printed in the United States of America. To obtain copies of this document, contact: Document Control Services, P.O. Box 950, Mailstop H6-08, Richland WA 99352, Phone (509) 372-2420; Fax (509) 376-4989.

7/1/99
Release Approval

Approved for Public Release

[illegible]

SNF-3888

Page 1

FCI MCO Helium Inlet Flow Element/Indicator Transmitter

Change Control Record

Authorized for Release

(4) Description of Change - Replace, Add, and Delete Pages

(6) Cog. Mgr.

Date _____

(7)
ECN 647508, Revision to meet SEL Rev. 6a

7-2-92
Crm

7/2/99

Commercial Grade Item Upgrade Dedication Form

SNF-3888, Rev. 2

ECN No. **NA**CGI No. **CGI-SNF-D-13-P4-012**

Page 1 of 3

Title: **FCI MCO HELIUM INLET FLOW ELEMENT/ INDICATOR
TRANSMITTER**

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.: **He-FE/FIT-
1*20, 1*21**Specification No.:
**W-441-P4, Rev. 2
with DCN W-441-HO-
423**Manufacturer: **Fluid
Components, Intl**Past P.O. No.: **NA**

Equipment Supplier (if different from manufacturer):

Murrell-HickeyEquip. Supplier's Part No.: **NA**

Procurement and/or Model No.:

FE/FIT-1*20 LT87-*11MC3B1B3A2BA002700C0053C2A201A2B1A1B5A1000*B1A**FE/FIT-1*21 LT87-*11MC3B1B4A2BA002700C0053C2A201A2B1A1B5A1000*B1A****1*20 - TOP TO BOTTOM CONFIGURATION****1*21 - BOTTOM TO TOP CONFIGURATION****Component Description: Mass flow rate meter/indicator with integral flow rate totalizer, power supply, signal conditioner, linearizing circuit and output signal transmitter. Measure helium purge flow to the MCO. Seismic Condition is NA.**

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

Murrell-Hickey**Jim Joyce****(425) 454-0460****PO BOX 3511****BELLEVUE, WA 98009**

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

Purchase Qualified. HNF-SD-SNF-SEL-002, Rev. 6a, states Seismic Category is NA. Seismic dedication is not required.

06/22/99

Commercial Grade Item Upgrade Dedication Form

SNF-3888, Rev. 2

ECN No. **NA**

CGI No. **CGI-SNF-D-13-P4-012**

Page 2 of 3

Title: **FCI MCO HELIUM INLET FLOW ELEMENT/ INDICATOR TRANSMITTER**

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 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.

☒ It is determined that the item is not commercial grade. The item is currently specified to be procured as safety-grade from a qualified vendor and no commercial dedication is required.

Section 2d Reason for Dedication

The above described Item is being Dedicated for use in the application cited for the following reason(s):

Section 3 Failure Effects Evaluation

Section 4 Environmental & Natural Phenomena Hazard Design

Section 5 Component Functional Classification

Section 6 (Reserved)

Section 7 (Reserved)

Section 8 References (for Functional Classification)

Section 9 Critical Characteristics

4. Notes and Legend:

This item is nuclear quality and does not require CGI procurement dedication.

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: *C. M. King 6/22/99*

Design Authority: *C. M. King 6/22/99*

QA Engineer: *T. D. King 6/23/99*

Commercial Grade Item Upgrade Dedication Form

SNF-3888, Rev. 2

ECN No. NA

CGI No. CGI-SNF-D-13-P4-012

Page 3 of 3

Title: FCI MCO HELIUM INLET FLOW ELEMENT/ INDICATOR
TRANSMITTER

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
This item is nuclear quality and does not require CGI procurement dedication.											

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 _____