APR 2 1999

ENGINEERING DATA TRANSMITTAL

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1. EDT 626261

Sta. 4 58

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? ☐ Yes ☒ No		12. Major Assm. Dwg. No.: N/A				
				13. Permit/Permit Application No.: N/A				
				14. Required Response Date: N/A				
15. DATA TRANSMITTED								
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	(F) Approval Design- ator	(G) Reason for Trans- mittal	(H) Origina- tor Dispo- sition	(I) Receiv- er Dispo- sition
1	SNF-3888		0	FCI MCO Helium Inlet Flow Element/Indicator Transmitter	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.	(I) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp.	(I) Name	(K) Signature	(L) Date	(M) MSIN
2	1	Designated Engineer	C. Van Katwijk	3/30/99							
2	1	Design Authority	R. Whitehurst	3/30/99							
2	1	QA	T. D. Hays	3/30/99							

18. Signature of EDT Originator C. Van Katwijk 3-9-99		19. T. Choho Authorized Representative Date for Receiving Organization 3/30/99		20. R. Whitehurst Design Authority/ Cognizant Manager Date 3/30/99		21. DOE APPROVAL (if required) Ctrl. No. ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments	
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FCI MCO Helium Inlet Element / Indicator Transmitter

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

EDT/ECN: 626261 UC: 620
Org Code: 2G300 Charge Code: 105559/A000
B&R Code: 39EW40400 Total Pages: 4

Key Words: Mass Flow Rate Meter / Indicator MCO

Abstract: FCI Helium Inlet Flow Element / Indicator Transmitter
CGI-SNF-D-13-P4-012

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Release Approval

3/31/99
Date

APR 2 1999
Release Stamp

Approved for Public Release

Commercial Grade Item Upgrade Dedication Form

Rev. No. 0

ECN No. **NA** CGI No. **CGI-SNF-D-13-P4-012**
Title: **FCI MCO HELIUM INLET FLOW ELEMENT/ INDICATOR**
TRANSMITTER

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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.: He-FE/FIT-1*20, 1*21	Specification No.: W-441-P4, Rev. 2	Manufacturer: Fluid Components, Intl	Past P.O. No.: NA
Equipment Supplier (if different from manufacturer): Murrell-Hickey		Equip. Supplier's Part No.: NA	
Manufacturer's Part/Model No.: FE/FIT-1*20 LT87-*11MC3B1B3A2BA002700C0053C2A201A1A1B5A1000*B1A FE/FIT-1*21 LT87-*11MC3B1B4A2BA002700C0053C2A201A1A1B5A1000*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.			

Section 2b Commercial Availability of the Item

1. Is the Item available from a catalogue from a qualified NQA1 supplier or ISO 9000 supplier (coordinate with project CGI interface Engineer or BTR)?
[X] YES (go to #2 below)
[] NO (go to procedure step 5.3.2, proceed to dedicate Item)
2. List of Candidate qualified suppliers or ISO 9000 suppliers *Rev 12/21/98*
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

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)

12/18/98

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ECN No. **NA**

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☐ 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: Sean M. Thompson 12/21/98

Design Authority: Richard Whitely 12/21/98

QA Engineer: JP Day 12/21/98

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FCI MCO HELIUM INLET FLOW ELEMENT/ INDICATOR

TRANSMITTER

1. SUMMARY OF VERIFIED CRITICAL CHARACTERISTICS, THEIR VERIFICATION METHODS, AND RESULTS

Critical Characteristics

Verification Results

Critical Characteristic

3. SIGNATURE INDICATES ALL CRITICAL CHARACTERISTICS VERIFIED SATISFACTORY OR ACCEPTABLY DISPOSITIONED AND COMMERCIAL GRADE DEDICATION IS SATISFACTORY AND COMPLETE.

Testing Agency Approval:

Date_____

Design Authority:

Date: _____

Testing Agency QA Engineer:

Date: _____

QA Engineer:

Date,