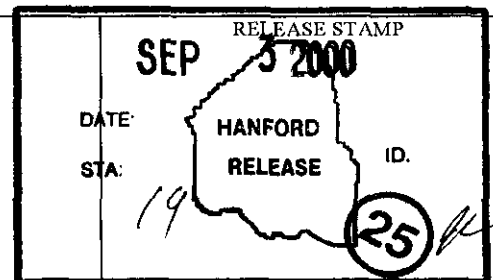


## ENGINEERING CHANGE NOTICE

Page 1 of 21. ECN **662314**Proj.  
ECN

<b>2. ECN Category (mark one)</b>  Supplemental <input type="checkbox"/> Direct Revision <input checked="" type="checkbox"/> Change ECN <input type="checkbox"/> Temporary <input type="checkbox"/> Standby <input type="checkbox"/> Supersedeure <input type="checkbox"/> Cancel/Void <input type="checkbox"/>	<b>3. Originator's Name, Organization, MSIN, and Telephone No.</b> T. Nuxall, CVDF, R3-86, 372-3739	<b>4. USQ Required?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>5. Date</b> 9/2/00
	<b>6. Project Title/No./Work Order No.</b> SNF/W-441 Spent Nuclear Fuel Cold Vacuum Drying	<b>7. Bldg./Sys./Fac. No.</b> CVDF 142-K	<b>8. Approval Designator</b> Q
	<b>9. Document Numbers Changed by this ECN (includes sheet no. and rev.)</b> See block 13a	<b>10. Related ECN No(s).</b> N/A	<b>11. Related PO No.</b> N/A
<b>12a. Modification Work</b>  <input type="checkbox"/> Yes (fill out Blk. 12b) <input checked="" type="checkbox"/> No (NA Blks. 12b, 12c, 12d)	<b>12b. Work Package No.</b> N/A	<b>12c. Modification Work Complete</b> N/A _____ Design Authority/Cog. Engineer Signature & Date	<b>12d. Restored to Original Condition (Temp. or Standby ECN only)</b> N/A _____ Design Authority/Cog. Engineer Signature & Date
<b>13a. Description of Change</b> <b>Hood</b>  SNF-3876, Rev. 2, SNF-3877, Rev. 2, SNF-3878, Rev. 1, SNF-3879, Rev. 3, SNF-3880, Rev. 1, SNF-3881, Rev. 2, SNF-3882, Rev. 2, SNF-3883, Rev. 3, SNF-3884, Rev. 2, <del>SNF-3886, Rev. 2</del> , Rev. 1, SNF-4418, Rev. 1, SNF-3933, Rev. 1, SNF-3936, Rev. 2, SNF-5964, Rev. 0, SNF-5970, Rev. 1 <sup>HM</sup> <del>9/2/00</del> SNF-4419, Rev. 1 <sup>9/2/00</sup>  Updated document numbers and deleted revision numbers.  USQ Approval: CX B.1 from AP-NS-4-001-15.			
<b>13b. Design Baseline Document?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<b>14a. Justification (mark one)</b> Criteria Change <input type="checkbox"/> Design Improvement <input checked="" type="checkbox"/> Environmental <input type="checkbox"/> Facility Deactivation <input type="checkbox"/> As-Found <input type="checkbox"/> Facilitate Const <input type="checkbox"/> Const. Error/Omission <input type="checkbox"/> Design Error/Omission <input type="checkbox"/>			
<b>14b. Justification Details</b> Editorial changes for configuration control.  The design verification method for SS/SC components is by independent review in accordance with EN-6-027-01. Documentation of this review is accomplished by the independent review approval signature provided on page 2 of this ECN.			
<b>15. Distribution (include name, MSIN, and no. of copies)</b> See distribution sheet.			



## Page 2 of 2

662314

16. Design Verification Required	17. Cost Impact	NA	18. Schedule Impact (days)
<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	ENGINEERING	CONSTRUCTION	NA
Additional	Additional	Additional	Improvement
Savings	Savings	Savings	Delay

SDD/DD	<input type="checkbox"/>	Seismic/Stress Analysis	<input type="checkbox"/>	Tank Calibration Manual	<input type="checkbox"/>
Functional Design Criteria	<input type="checkbox"/>	Stress/Design Report	<input type="checkbox"/>	Health Physics Procedure	<input type="checkbox"/>
Operating Specification	<input type="checkbox"/>	Interface Control Drawing	<input type="checkbox"/>	Spares Multiple Unit Listing	<input type="checkbox"/>
Criticality Specification	<input type="checkbox"/>	Calibration Procedure	<input type="checkbox"/>	Test Procedures/Specification	<input type="checkbox"/>
Conceptual Design Report	<input type="checkbox"/>	Installation Procedure	<input type="checkbox"/>	Component Index	<input type="checkbox"/>
Equipment Spec.	<input type="checkbox"/>	Maintenance Procedure	<input type="checkbox"/>	ASME Coded Item	<input type="checkbox"/>
Const. Spec.	<input type="checkbox"/>	Engineering Procedure	<input type="checkbox"/>	Human Factor Consideration	<input type="checkbox"/>
Procurement Spec.	<input type="checkbox"/>	Operating Instruction	<input type="checkbox"/>	Computer Software	<input type="checkbox"/>
Vendor Information	<input type="checkbox"/>	Operating Procedure	<input type="checkbox"/>	Electric Circuit Schedule	<input type="checkbox"/>
OM Manual	<input type="checkbox"/>	Operational Safety Requirement	<input type="checkbox"/>	ICRS Procedure	<input type="checkbox"/>
FSAR/SAR	<input type="checkbox"/>	IEFD Drawing	<input type="checkbox"/>	Process Control Manual/Plan	<input type="checkbox"/>
Safety Equipment List	<input type="checkbox"/>	Cell Arrangement Drawing	<input type="checkbox"/>	Process Flow Chart	<input type="checkbox"/>
Radiation Work Permit	<input type="checkbox"/>	Essential Material Specification	<input type="checkbox"/>	Purchase Requisition	<input type="checkbox"/>
Environmental Impact Statement	<input type="checkbox"/>	Fac. Proc. Samp. Schedule	<input type="checkbox"/>	Tickler File	<input type="checkbox"/>
Environmental Report	<input type="checkbox"/>	Inspection Plan	<input type="checkbox"/>		<input type="checkbox"/>
Environmental Permit	<input type="checkbox"/>	Inventory Adjustment Request	<input type="checkbox"/>		<input type="checkbox"/>

NA

[illegible]

[illegible]

# Nupro Inline Instrument Air Filters

Prepared for the U.S. Department of Energy  
Assistant Secretary for Environmental Management

Project Hanford Management Contractor for the  
U.S. Department of Energy under Contract DE-AC06-96RL13200

**Fluor Hanford**  
P.O. Box 1000  
Richland, Washington

SNF-4418  
Revision 2

ECN 662314

# Nupro Inline Instrument Air Filters

Project No: W-441

Document Type: RPT

Division: SNF

C Miska  
FH

Date Published  
September 2000

Prepared for the U.S. Department of Energy  
Assistant Secretary for Environmental Management

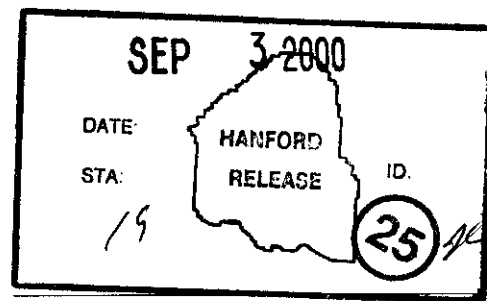
Project Hanford Management Contractor for the  
U.S. Department of Energy under Contract DE-AC06-96RL13200

**Fluor Hanford**

P.O. Box 1000  
Richland, Washington

  
Release Approval

9/3/2000  
Date



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# Commercial Grade Item Upgrade Dedication Form

SNF-4418, Rev. 2

ECN No. **NA** CGI No. **CGI-SNF-D-Various-P4-039**

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Title: **NUPRO INLINE INSTRUMENT AIR FILTERS**

## Section 1 Part Information

Item No.: <b>NA</b>	Manufacturer: <b>NA</b>	Supplier: <b>NA</b>
Mfg. Part/Model No.: <b>NA</b>	Supplier's P/N: <b>NA</b>	
Part Description: <b>NA</b>		
End Use Description: <b>NA</b>		

## Section 2a Component Information

Equipment No.: <b>Sys. 07</b> <b>VPS-F-1*05</b> <b>VPS-F-1*09</b> <b>VPS-F-1*11</b> <b>VPS-F-1*17</b> <b>Sys. 13-1</b> <b>HE-F-1*02</b> <b>HE-F-1*06</b> <b>Sys. 13-2</b> <b>SCHe-F-5*12</b> <b>SCHe-F-5*31</b> <b>SCHe-F-5*51</b> <b>SCHe F-5*71</b> <b>Sys. 46-1</b> <b>PWC-F-1*03</b> <b>PWC-F-1*30</b>	Specification No.: <b>SNF-5303</b> <b>(W-441-P4)</b>	Manufacturer: <b>NUPRO</b>	Past P.O. No.: <b>NA</b>
Procurement and/or Model No.: <b>SS-4FW-2</b>	Equipment Supplier (if different from manufacturer): <b>TBD</b>	Equip. Supplier's Part No.: <b>NA</b>	
Component Description: <b>2 Micron inline instrument air filters for Safety Class air operated isolation valves.</b>			

## 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 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.)
- List of Candidate qualified suppliers or ISO 9000 suppliers
 

company name & type	contact name	phone
<b>NA</b>		



# Commercial Grade Item Upgrade Dedication Form

SNF-4418, Rev. 2

ECN No. **NA** CGI No. **CGI-SNF-D-Various-P4-039**

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Title: **NUPRO INLINE INSTRUMENT AIR FILTERS**

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)

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. 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. **Filter out particulates which may be in the instrument air supply to the air operated isolation valves to prevent common mode valve actuator failure.**

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

# Commercial Grade Item Upgrade Dedication Form

SNF-4418, Rev. 2

ECN No. **NA** CGI No. **CGI-SNF-D-Various-P4-039**

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Title: **NUPRO INLINE INSTRUMENT AIR FILTERS**

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

1.

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

1. **Clogged Filter/High Differential Pressure - low flow and filter efficiency results in slower operation of the valve to actuate when air is supplied. This filter condition would not affect the valve stroke time when air is vented from the actuator for the valve to assume its safety position.**

2. **Break / Failure of filter element - release of particulates into solenoid valve and isolation valve actuator.**

## 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 [ ]

No [X]

**HNF-PRO-97**

**SNF-5303**

If yes: NPH Design Requirements

Performance Category: **PC-1**

NPH Design Req'ts.: **NA**

Required Safety Functions: **Remove possible particulates from instrument air supply to isolation valves actuators.**

## Section 5 Component Functional Classification

[X] 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:

**AMSE B31.3**

**Fluid Category D**

Safety Analysis Report (SAR):

**HNF-SD-SNF-SAR-002**

Drawings: **H-1-82161; H-1-82165**

**for System 13-2 SCHe filters**

**HNF-SD-SNF-SEL-002**

Vendor Manual/Manufacturer/Supplier Information: **Swagelok Companies - "FW" Series All Welded Inline Filters**

Other: **NA**

# Commercial Grade Item Upgrade Dedication Form

SNF-4418, Rev. 2

ECN No. **NA** CGI No. **CGI-SNF-D-Various-P4-039**

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Title: **NUPRO INLINE INSTRUMENT AIR FILTERS**

## Section 9 Critical Characteristics

Critical Characteristics Verification Document: <b>Vendor Specifications; HNF-SD-SNF-SEL-002</b>	Acceptance Criteria/Tolerances	Acceptance Method	ID	Function
--	--------------------------------	-------------------	----	----------

1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)

<b>Nameplate - Manufacturer</b>	<b>NUPRO</b>	<b>1, IN</b>	<b>X</b>	
<b>Component Number-Procurement and/or Model Number</b>	<b>SS-4FW-2, (Per SNF-5303, Section G, Design Data Sheets)</b>	<b>1, IN</b>	<b>X</b>	

2. Physical Critical Characteristics (for reasonable assurance that the Item delivered is the Item specified)

<b>Body Material</b>	<b>Stainless Steel (Note 3)</b>	<b>1, IN 1, T</b>	<b>X</b>	
<b>Process Connection</b>	<b>1/4 inch Swagelok</b>	<b>1, IN</b>	<b>X</b>	
<b>"A" Dimension</b>	<b>Nominal 2 3/16 inch</b>	<b>1, IN</b>	<b>X</b>	

3. Performance Critical Characteristics (for reasonable assurance that the Item will perform its intended safety function(s))

<b>Pressure Boundary Integrity</b>	<b>Pressure Test at 165 psig (leak tightNote 2)</b>	<b>1, T</b>		<b>X</b>
<b>Environmental</b>	<b>Note 1</b>			
<b>Seismic Condition</b>	<b>NA</b>			
<b>Flow Capacity</b>	<b>Nominal 4.98 scfm air at 70°F. Pressure drop 10 psi to atmosphere.</b>	<b>1, T</b>		<b>X</b>

4. Notes and Legend:

- The filter material 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.**
- Pressure test at 110% of design condition pressure of 150 psig.**
- Material verification acceptance method may be by either inspection or test.**

**Rev. 2: Updated reference documentation.**

Acceptance Method:

- Special Test and Inspection  
1, IN for Inspection  
1, T for Test
- Commercial Grade Survey
- Source Verification
- Vendor/Item History

## Section 10 Initial Review and Approval

Approvals:

Designated Engineer:

Design Authority:

QA Engineer:

*all for section*  
*Carl VanKester 9/2/00*  
*Jon 9/2/00*  
*Frank M. Chapin 9/2/00*

09/02/00

# Commercial Grade Item Upgrade Dedication Form

SNF-4418, Rev. 2

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Title: NUPRO INLINE INSTRUMENT AIR FILTERS

## 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 [ ] Mode _____	No [ X ]; If Yes, indicate failure
Corrosion	The gradual deterioration of a material due to chemical or electrochemical reactions, such as oxidation, between the material and its environment.	Yes [ ] Mode _____	No [ X ]; If Yes, indicate failure
Erosion	Destruction of materials by the abrasive action of moving fluids, usually accelerated by the presence of solid particles carried with the fluid.	Yes [ ] Mode _____	No [ X ]; If Yes, indicate failure
Open Circuit	An electrical circuit that is unintentionally broken so that there is no complete path for current flow.	Yes [ ] Mode _____	No [ X ]; If Yes, indicate failure
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 [ ] Mode _____	No [ X ]; If Yes, indicate failure
Blockage	Clogging of a filtering medium resulting in the inability to perform its purification function or blockage of flow.	Yes [ ] Mode _____	No [ X ]; If Yes, indicate failure
Seizure	Binding of a normally moving item through excessive pressure, temperature, friction, jamming.	Yes [ ] Mode _____	No [ X ]; If Yes, indicate failure
Unacceptable Vibration	Mechanical oscillations produced are beyond the defined permissible limits due to unbalancing, poor support, or rotation at critical speeds.	Yes [ ] Mode _____	No [ X ]; If Yes, indicate failure
Loss of Properties	A loss of mechanical and physical properties of a material due to exposure to high temperatures, radiation exposure.	Yes [ ] Mode _____	No [ X ]; If Yes, indicate failure
Excess Strain	Under the action of excessive external forces the material of the part has been deformed or distorted.	Yes [ ] Mode _____	No [ X ]; If Yes, indicate failure
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 [ ] Mode _____	No [ X ]; If Yes, indicate failure
Ductile Fracture	Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.	Yes [ ] Mode _____	No [ X ]; If Yes, indicate failure

### Section 2 Additional Failure Modes Applicable to the Component Under Evaluation

1. **Failure/rupture of filter element**

# Commercial Grade Item Upgrade Dedication Form

SNF-4418, Rev. 2

ECN No. **NA** CGI No. **CGI-SNF-D-Various-P4-039**

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Title: **NUPRO INLINE INSTRUMENT AIR FILTERS**

## CHECKLIST 1

### ACCEPTANCE METHOD 1

#### SPECIAL TEST/INSPECTION VERIFICATION

SECTION 1			
Item Description: <b>NUPRO Inline Instrument Air Filters for Air Operated Isolation Valves.</b> System #: <b>07, 13-1, 13-2, 46-1</b>		Equip #: <b>Sys. 07 VPS-F-1*05 VPS-F-1*09</b> <b>- VPS-F-1*11 VPS-F-1*17</b> <b>Sys. 13-1 HE-F-1*02 HE-F-1*06</b> <b>Sys. 13-2 SCHe-F-5*12 SCHe-F-5*31</b> <b>SCHe-F-5*51 SCHe F-5*71</b> <b>Sys. 46-1 PWC-F-1*03 PWC-F-1*30</b> Procurement and/or Model #: <b>SS-4FW-2</b>	
Manufacturer (Address/Phone): <b>NUPRO</b> <b>2451 Alamo S. E</b> <b>Albuquerque, NM.</b> <b>87106</b> <b>(505) 843-6078</b> P.O. #		Supplier (Address/Phone): <b>TBD</b>	
SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.			
Insp	Test	Post-Test	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Nameplate - Manufacturer
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Nameplate - Model Number
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. "A" Dimension
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Process Connection
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. Body Material (Verification may be by either inspection or test)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. Pressure Boundary Integrity
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. Flow Capacity
SECTION 3, VERIFIED BY INSPECTION			
* See Attachment G of Desk Instruction for Sampling Size			
Characteristic: <b>Nameplate - Manufacturer</b> Sample Size*: <b>All Items</b> Acceptance Criteria: <b>NUPRO</b> Receipt Inspection Plan / Report #: _____ References (see Section 7): _____			

09/02/00

# Commercial Grade Item Upgrade Dedication Form

SNF-4418, Rev. 2

ECN No. NA CGI No. CGI-SNF-D-Various-P4-039

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Title: NUPRO INLINE INSTRUMENT AIR FILTERS

Characteristic: **Component Number-Procurement and/or Model Number**

Sample Size\*: **All Items**

Acceptance Criteria: **SS-4FW-2, (Per SNF-5303, Section G, Design Data Sheet)**

Receipt Inspection Plan / Report #: \_\_\_\_\_

References (see Section 7): **Swagelok Companies - "FW" Series All Welded Inline Filters**

Characteristic: **Process Connection**

Sample Size\*: **All Items**

Acceptance Criteria: **1/4 inch Swagelok**

Receipt Inspection Plan / Report #: \_\_\_\_\_

References (see Section 7):

Characteristic: **"A" Dimension**

Sample Size\*: **All Items**

Acceptance Criteria: **Nominal 2 3/16 inch**

Receipt Inspection Plan / Report #: \_\_\_\_\_

References (see Section 7):

Characteristic: **Body Material**

Sample Size\*: **Normal Sampling Size**

Acceptance Criteria: **Stainless Steel**

Receipt Inspection Plan / Report #: \_\_\_\_\_

References (see Section 7): \_\_\_\_\_

# Commercial Grade Item Upgrade Dedication Form

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ECN No. NA CGI No. CGI-SNF-D-Various-P4-039

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Title: NUPRO INLINE INSTRUMENT AIR FILTERS

## SECTION 4 VERIFIED 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: **Pressure Test at 165 psig (leak tight)**

Sample Size\*: **Normal Sampling Size**

Actual Test Value:

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

Characteristic for Test: **Flow Capacity**

Acceptance Criteria: **Nominal 4.98 scfm air at 70°F. Pressure drop 10 psi to atmosphere.**

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

# Commercial Grade Item Upgrade Dedication Form

SNF-4418, Rev. 2	
ECN No. <u>NA</u>	Page 9 of 11
CGI No. <u>CGI-SNF-D-Various-P4-039</u>	
Title: <u>NUPRO INLINE INSTRUMENT AIR FILTERS</u>	

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
Nameplate - Manufacturer	NUPRO	X									
Component Number- Procurement and/or Model Number	SS-4FW-2, (Per SNF- 5303, Section G, Design Data Sheet)	X									
"A" Dimension	Nominal 2 3/16 inch	X									
Body Material	Stainless Steel	X									
Process Connection	1/4 inch Swagelok	X									
Pressure Boundary Integrity	Pressure Test at 165 psig (leak tight)		X								
Flow Capacity	Nominal 4.98 scfm air at 70°F. Pressure drop 10 psi to atmosphere.		X								



Commercial Grade Item Upgrade Dedication Form

SNF-4418, Rev. 2	
ECN No. <u>NA</u>	Page 10 of 11
CGI No. <u>CGI-SNF-D-Various-P4-039</u>	
Title: <u>NUPRO INLINE INSTRUMENT AIR FILTERS</u>	

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 _____

# Commercial Grade Item Upgrade Dedication Form

SNF-4418, Rev. 2

ECN No. NA CGI No. CGI-SNF-D-Various-P4-039

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Title: NUPRO INLINE INSTRUMENT AIR FILTERS

## 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:	
<b>Procurement Documents</b>	
<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:	