



# Ashcroft Pressure Switch – Monitor for Low SCHe Supply Bottle Pressure

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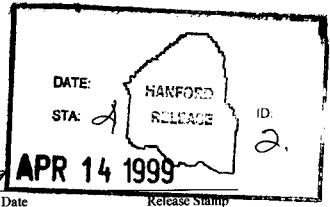
Abstract: Ashcroft Pressure Switch – Monitor for Low SCHe Supply Bottle Pressure  
CGI-SNF-D-13-P5-030

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4/14/99



Release Approval

Date

Release Stamp

**Approved for Public Release**

**Commercial Grade Item Upgrade Dedication Form**

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 Title: **ASHCROFT PRESSURE SWITCH - MONITOR FOR LOW SCHe SUPPLY BOTTLE PRESSURE**

**Section 1 Part Information**

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

**Section 2a Component Information**

Equipment No.: <b>SCHe-PSL-5*03, 5*22, 5*42, 5*62</b>	Specification No.: <b>W-441-P5, Rev. 2</b>	Manufacturer: <b>Ashcroft Instrument Division</b>	Past P.O. No.: <b>NA</b>
Manufacturer's Part/ Model No.: <b>LPS-N4-K-T-25-3000 PSI.</b>	Equipment Supplier (if different from manufacturer): <b>TBD</b>	Equip. Supplier's Part No.: <b>NA</b>	

**Component Description: These 0-3000 psig pressure switches are located in the SCHe helium supply lines at the pressure bottles and upstream of the PRV. The switches monitor the SCHe supply bottle pressure and are set to alarm at 2000 psig. There is one switch for each SCHe supply (4).**

**Section 2b Qualified Vendor/Supplier Survey**

- Is the item available from a catalog from a qualified NQA1 or ISO 9000 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.)  
*NA 12/21/98*
- List of Candidate qualified suppliers or ISO 9000 suppliers  
 company name and type      contact name      phone  
**NA**  


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

**Section 2c CGI Determination**

- 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)
- Question #2: Is the item used in applications other than nuclear facilities or activities?  
 NO (the item is not commercial grade)  
 YES (continue)

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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.

**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 pressure boundary after Seismic event.**

3.

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

C. Host Component Safety Function (if applicable):

1. **NA**

2.

3.

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D. Failure Mechanisms(s) and the effects on component or system safety function (see worksheet 1):		
1. <b>Fracture of the switch body or of the piping connection resulting in loss of helium from the SCHe supply.</b>		
2.		
3.		
4.		
5.		
<b>Section 4 Environmental &amp; Natural Phenomena Hazard Design</b>		
Environmental Qualification Required:	If yes: Environmental Qualification Requirements	
Yes [ ]	Limiting Environmental Conditions:	
No [X]	Required Safety Functions:	
<b>Environmental Condition B</b>	Qualification Period:	
Natural Phenomena Hazard (NPH) Design Required:	If yes: NPH Design Requirements	
Yes [X]	Performance Category: <b>PC-3</b>	
No [ ]	NPH Design Req'ts.: <b>Seismic Condition B</b>	
<b>HNF-PRO-97, Rev. 0</b>	Required Safety Functions: <b>Pressure Boundary Integrity</b>	
<b>W-441-P5, Rev. 2</b>		
<b>Section 5 Component Functional Classification</b>		
[X] Safety Class (SC)	[ ] General Service	[ ] Safety Significant (SS)
If part/component classification is different from host component/system, document basis.		
<b>Section 6 (reserved)</b>		
<b>Section 7 (reserved)</b>		
<b>Section 8 References (for Functional Classification)</b>		
National Codes/Standards: <b>IEEE-344</b>	Safety Analysis Report (SAR): <b>HNF-SD-SNF-SAR-002, Rev. 4A</b>	Drawings: <b>H-1-82165, Rev. 2</b> <b>HNF-SD-SNF-SEL-002, Rev. 4</b> <b>CVDF-SSD-003</b>
Vendor Manuals/Manufacturer/Supplier Information: <b>Ashcroft Instrument Division, L Series Switches, Bulletin Se-12</b>		
Other:		

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Section 9 - Critical Characteristics				
Critical Characteristics	Acceptance Criteria/Tolerances	Acceptance Method	ID	Function
Verification Document: <b>Vendor Specifications, HNF-SD-SNF-SEL-002, Rev. 4</b>				
1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
<b>Nameplate Data</b>	<b>Per Vendor Manual</b>	1,IN	X	
<b>Model Number</b>	<b>LPS-N4-K-T-25-3000 PSI</b>	1,IN	X	
<b>Manufacturer</b>	<b>Ashcroft Instruments</b>	1,IN	X	
<b>Process Connection</b>	<b>1/4 Inch FNPT</b>	1,IN	X	
<b>Pressure Range</b>	<b>0-3000 Psig</b>	1,IN	X	
<b>Enclosure</b>	<b>NEMA 4,4X</b>	1,IN	X	
2. Physical Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
<b>Material, Body</b>	<b>Stainless Steel</b>	1,T	X	
<b>Material, Process Connection</b>	<b>Stainless Steel</b>	1,T	X	
3. Performance Critical Characteristics (necessary & sufficient for reasonable assurance that the Item will perform its intended safety function(s))				
<b>Pressure Boundary Integrity</b>	<b>No Leakage at Test Pressure of 3300 Psig. Note 3.</b>	1,T		X
<b>Setpoint/Repeatability</b>	<b>2000 Psig / +/- 1% of Range</b>	1,T		X
<b>Environmental</b>	<b>Note 1</b>			
<b>Seismic Condition B</b>	<b>Maintain Pressure Boundary</b>	1,T		X
<b>Switch Contact Rating</b>	<b>Nominal 15 Amps at 120 VAC, Less Than 0.5 Volt Drop Across Contacts</b>	1,T		X
<b>Insulation Resistance</b>	<b>Greater Than 10 Megohm Resistance to Ground</b>	1,T		X
4. Notes and Legend:		Acceptance Method:		
<ol style="list-style-type: none"> <li>The pressure switch and Teflon seals are not subject to degradation at ambient conditions of 40°F and 60% RH or 115°F and 22% RH and are suitable for Environmental Condition B application.</li> <li>Maintain pressure boundary 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.</li> <li>Pressure test at 110% of system design pressure of 3000 psig.</li> </ol>		<ol style="list-style-type: none"> <li>Special Test and Inspection 1,IN for Inspection 1,T for Test</li> <li>Commercial Grade Survey</li> <li>Source Verification</li> <li>Vendor/Item History</li> </ol>		

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## Section 10 Initial Reviews and Approvals

Approvals:

Designated Engineer: [Signature] 12/21/98

Design Authority: [Signature] 12/21/98

QA Engineer: [Signature] 12/21/98

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## 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> ; If Yes, indicate failure Mode. <u>Failure of Transmitter Body or the Process Connection</u>
Corrosion	The gradual deterioration of a material due to chemical or electrochemical reactions, such as oxidation, between the material and its environment.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; If Yes, indicate failure Mode. _____
Seizure	Binding of a normally moving item through excessive pressure, temperature, friction, jamming.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> ; If Yes, indicate failure Mode. _____
Ductile Fracture	Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> ; If Yes, indicate failure Mode. _____

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

1. Process Connection/Body Break \_\_\_\_\_
2. \_\_\_\_\_



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**SUPPLY BOTTLE PRESSURE**

**CHECKLIST 1  
 ACCEPTANCE METHOD 1  
 SPECIAL TEST/INSPECTION VERIFICATION**

SECTION 1	
Item Description: <b>Ashcroft Pressure Switch – Monitor for Low SCHe Supply Bottle Pressure</b>	Equip #: <b>SCHe-PSL-5*03, 5*22, 5*42, 5*62</b> Model #: <b>LPS-N4-K-T-25-3000 PSI.</b>
System #: <b>13</b>	
Manufacturer (Address/Phone): <b>Ashcroft Instrument Division</b>	Supplier (Address/Phone):
P.O. #	

**SECTION 2: CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1**

Insp	Test	Post-Test	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>1. Nameplate Data</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>2. Model Number</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>3. Manufacturer</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>4. Process Connection</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>5. Pressure Range</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>6. Enclosure</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>7. Material, Body</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>8. Material, Process Connection</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>9. Pressure Boundary Integrity</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>10. Setpoint/Repeatability</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>11. Seismic Condition B</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>12. Switch Contact Rating</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>13. Insulation Resistance</b>

**SECTION 3 BY INSPECTION**

\* See Attachment G of Desk Instruction Sampling Size

Characteristic: **Nameplate Data**

Sample Size\*: **All Items**

Acceptance Criteria: **Per Vendor Manual**

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

References (see Section 7): **Ashcroft Instrument Division, L Series Switches, Bulletin SE-12**

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Characteristic: **Model Number**  
 Sample Size\*: **All Items**  
 Acceptance Criteria: **LPS-N4-K-T-25-3000 PSI**  
 Receipt Inspection Plan / Report #: \_\_\_\_\_  
 References (see Section 7): \_\_\_\_\_

Characteristic: **Manufacturer**  
 Sample Size\*: **All Items**  
 Acceptance Criteria: **Ashcroft Instruments**  
 Receipt Inspection Plan / Report #: \_\_\_\_\_  
 References (see Section 7): \_\_\_\_\_

Characteristic: **Process Connection**  
 Sample Size\*: **All Items**  
 Acceptance Criteria: **1/4 Inch FNPT**  
 Receipt Inspection Plan / Report #: \_\_\_\_\_  
 References (see Section 7): \_\_\_\_\_

Characteristic: **Pressure Range**  
 Sample Size\*: **All Items**  
 Acceptance Criteria: **0-3000 PSIG**  
 Receipt Inspection Plan / Report #: \_\_\_\_\_  
 References (see Section 7): \_\_\_\_\_

Characteristic: **Enclosure**  
 Sample Size\*: **All Items**  
 Acceptance Criteria: **NEMA 4, 4X**  
 Receipt Inspection Plan / Report #: \_\_\_\_\_  
 References (see Section 7): \_\_\_\_\_

**SECTION 4 BY SPECIAL TEST**

\* See Attachment G of Desk Instruction Sampling Size

Test To Be Performed by: <input type="checkbox"/> Purchaser <input type="checkbox"/> Supplier/Manufacturer** <input type="checkbox"/> Other	Number of Items to be Tested:  Test/Inspection Location:
--	--

Characteristic for Test: **Material, Body**  
 Acceptance Criteria: **Stainless Steel**  
 Sample Size\*: **Normal Sampling Size**  
 Actual Test Value:  
 Test Plan and Report #: \_\_\_\_\_ References (see Section 7): \_\_\_\_\_

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Characteristic for Test: **Material, Process Connection**

Acceptance Criteria: **Stainless Steel**

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

Actual Test Value:

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

Characteristic for Test: **Pressure Boundary Integrity**

Acceptance Criteria: **No Leakage at Test Pressure of 3300 Psig**

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

Actual Test Value:

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

Characteristic for Test: **Setpoint/Repeatability**

Acceptance Criteria: **2000 Psig / +/- 1% of Range**

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

Actual Test Value:

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

Characteristic for Test: **Seismic Condition B**

Acceptance Criteria: **Maintain Pressure Boundary 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\*: **Normal Sampling Size**

Actual Test Value:

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

Characteristic for Test: **Switch Contact Rating**

Acceptance Criteria: **Nominal 15 AMPS At 120 VAC, Less Than 0.5 VOLT Drop Across Contacts.**

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

Actual Test Value:

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

Characteristic for Test: **Insulation Resistance**

Acceptance Criteria: **Greater Than 10 Megohm Resistance to Ground**

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

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## Section 5 Test / Inspection Summary / Acceptance Method 1

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

Critical Characteristics		Verification Results							
Critical Characteristics	Acceptance Criteria/Tolerances	Method T/F/N	Procedure or REF	Check list ID	Number Tested	Number Failed	Verifying Organization	Printed Name Signature	Date
<b>Nameplate Data</b>	Per Vendor Manual								
<b>Model Number</b>	LPS-H4-K-T-25-3000 PSI.								
<b>Manufacturer</b>	Ashcroft Instruments								
<b>Process Connection</b>	1/4 Inch FNPT								
<b>Instrument Range</b>	0-3000 Psig								
<b>Enclosure</b>	NEMA 4, 4X								
<b>Material, Body</b>	Stainless Steel								
<b>Material, Process Connection</b>	Stainless Steel								
<b>Switch Contact Rating</b>	Nominal 15 Amps at 120 VAC, Less Than 0.5 Volt Drop Across Contacts								
<b>Insulation Resistance</b>	Greater Than 10 Megohm Resistance to Ground								
<b>Pressure Boundary Integrity</b>	No Leakage at Test Pressure of 3300 Psig								
<b>Set Point / Repeatability</b>	2000 Psig / +/- 1% of Range								

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Environmental	NA								
Seismic Condition B	Maintain Pressure Boundary	X							
<b>2. DISPOSITION OF UNVERIFIED OR FAILED CRITICAL CHARACTERISTICS</b>									
Critical Characteristic					Disposition				
<p><b>3. SIGNATURE INDICATES ALL CRITICAL CHARACTERISTICS VERIFIED SATISFACTORY OR ACCEPTABLY DISPOSITIONED AND COMMERCIAL GRADE DEDICATION IS SATISFACTORY AND COMPLETE.</b></p>									
Testing Agency Approval: _____					BUYER VERIFICATION				
Testing Agency QA Engineer: _____					Design Authority: _____				
Date: _____					Date: _____				
Date: _____					Date: _____				

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### 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:	