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 reviewer approval signature on page 1 of this EDT.

Item No. SNF-6263
Title or Description of Data Transmitted Diesel Generator Control Panel Components: Wiring, Terminals

15. DATA TRANSMITTED

1. Approval
2. Release
3. Information
4. Review
5. Post-Review
6. Dist. (Receipt Acknow. Required)

16. KEY

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)

18. Signature of EDT Originator

T. Nuxall

BD-7400-172-2 (10/97)
Diesel Generator Control
Panel Components: Wiring, Terminals

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-AC06-99RL13200

Fluor Hanford
P.O. Box 1000
Richland, Washington

Approved for public release; further dissemination unlimited
### Section 1 Part Information

<table>
<thead>
<tr>
<th>Item No.:</th>
<th>N/A</th>
<th>Manufacturer: N/A</th>
<th>Supplier: N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mfg. Part/Model No.:</td>
<td>N/A</td>
<td>Supplier's P/N: N/A</td>
<td></td>
</tr>
</tbody>
</table>

**Part Description:** N/A

**End Use Description:** N/A

### Section 2a Component Information

<table>
<thead>
<tr>
<th>Equipment No.: Diesel Generator Control Panel Components: Wiring and cable, Terminals</th>
<th>Specification No.:</th>
<th>Manufacturer: Thermo-O-Link Inc. &amp; Panduit Corp.</th>
<th>Past P.O. No.: N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement and/or Model No.: SIS-12-65-T</td>
<td>SNF/CSB spec for Diesel Generator</td>
<td></td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Equipment Supplier (if different from manufacturer):** N/A

**Equip. Supplier's Part No.:** N/A

**Component Description:** Diesel Generator Control Panel - electrical distribution materials

### Section 2b Commercial Availability of the Item

1. Is the Item available from a catalogue from a qualified NQA supplier or ISO 9000 supplier (coordinate with project CGI interface Engineer or BTR)?
   
   [ ] YES (go to #2 below)
   
   [X] NO (go to procedure step 6.3.2, proceed to dedicate Item)

   If not available from a qualified NQA supplier, is it available from an ISO 9000 supplier? (coordinate w/ project CGI interface Engineer or BTR):

   [ ] YES (go to #2 below, dedicate Item)
   
   [X] NO (dedicate Item)

2. List of Candidate qualified suppliers or ISO 9000 suppliers: N/A

**Recommended Procurement Strategy:** N/A

### Section 2c CGI Determination

**CGI Determination Questions:**

#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)

[X] NO (continue)

#2: Is the Item used in applications other than nuclear facilities or activities?

[ ] NO (the item is not commercial grade)

[X] YES (continue)

#3: Is the Item ordered from manufacturer-supplier on the basis of specifications set forth in the manufacturer's catalog?

[ ] NO (the item is not commercial grade)

[X] YES (continue)

[X] All three criteria have been satisfied. The item meets the definition of commercial grade.

### Section 2d Reason for Dedication

The above Commercial Grade (CG) 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 CG to be used in a Safety Class application.

- Item is being purchased from a non-ESL manufacturer supplier as CG to be used in a Safety Significant application.

- Item was purchased from a non-ESL manufacturer supplier as CG to be used in a Safety Class application.

- Item was purchased from a non-ESL manufacturer supplier as CG to be used in a Safety Significant application.

- X Item was purchased from a non-ESL manufacturer supplier as CG 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. Provide power supply to instruments and signal channels from safety related instruments in the control panel that provides and maintains standby electrical power to the Cold Vacuum Drying Facility.

<table>
<thead>
<tr>
<th>Safety Function #1:</th>
<th>Active</th>
<th>Passive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Function #2:</td>
<td>Active</td>
<td>Passive</td>
</tr>
<tr>
<td>Safety Function #3:</td>
<td>Active</td>
<td>Passive</td>
</tr>
</tbody>
</table>

B. Part/Component Functional Mode:

- Safety Function #1: Active, Passive
- Safety Function #2: Active, Passive
- Safety Function #3: Active, Passive

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): N/A

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

1. Fracture, material fatigue, insulation breakdown or loose connection leads to wiring short/open circuit and loss of signal channel.

### Section 4 Environmental & Natural Phenomena Hazard Design

<table>
<thead>
<tr>
<th>Environmental Qualification Required:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
</tr>
<tr>
<td>No</td>
</tr>
</tbody>
</table>

Natural Phenomena Hazard (NPH) Design Required:

<table>
<thead>
<tr>
<th>Yes</th>
<th>If yes: NPH Design Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>HNF-PRO-97, Rev. 0, W-441-C1</td>
</tr>
</tbody>
</table>

### Section 5 Component Functional Classification

<table>
<thead>
<tr>
<th>Safety Class (SC)</th>
<th>General Service</th>
<th>Safety Significant (SS)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If part/component classification is different from host component/system, document basis. N/A

### Sections 6 and 7 (Reserved)

### Section 8 References (for Functional Classification)

- National Codes/Standards: NEC
- Safety Analysis Report (SAR): HNF-3553, Rev. 0/Annex B
- Drawings: H-1-83978, Sht. 2, O/M Manual (Nutherm DWG. 59723)
- Vendor Manual/Manufacturer/Supplier Information: Catalog Cut Sheets – Therm-O-Link Inc. Panduit Corp.

4/26/00
## Section 9: Critical Characteristics

### Wiring/Cable:

<table>
<thead>
<tr>
<th>Critical Characteristics</th>
<th>Acceptance Criteria/Tolerances</th>
<th>Acc. Method</th>
<th>ID</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Item Identification Critical Characteristics (necessary for reasonable assurance that the item delivered is the item specified)</td>
<td>Therm-O-Link, Inc.</td>
<td>1, IN</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Manufacturer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model Number, Size</td>
<td>SIS-12-65-T</td>
<td>1, IN</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>2. Physical Critical Characteristics (for reasonable assurance that the item delivered is the item specified)</td>
<td>UL12 ga. SIS 90°C 600V, Nominal 0.162&quot;, 65 strand, tinned conductor</td>
<td>1, IN</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>SIS-12-65-T; Markings, O.D., No. of Strands, material</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Terminals:

<table>
<thead>
<tr>
<th>Critical Characteristics</th>
<th>Acceptance Criteria/Tolerances</th>
<th>Acc. Method</th>
<th>ID</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Item Identification Critical Characteristics (necessary for reasonable assurance that the item delivered is the item specified)</td>
<td>Panduit corp.</td>
<td>1, IN</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Manufacturer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model No.</td>
<td>PN10-10R</td>
<td>1, IN</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>2. Physical Critical Characteristics (for reasonable assurance that the item delivered is the item specified)</td>
<td>PN10-10R; Terminal Stud size/ Color code/ Nominal dimensions “A” &amp; “W” / rating</td>
<td>1, IN</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>PN10-10R; Terminal Stud size/ Color code/ Nominal dimensions “A” &amp; “W” / rating</td>
<td>10 / Yellow / Nominal 1.08 inch, 0.38inch / 600V, ≥ 90°C</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### All Items:

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

<table>
<thead>
<tr>
<th>Environmental</th>
<th>Seismic Condition A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note 1</td>
<td>Note 2</td>
</tr>
</tbody>
</table>

### Notes and Legend:

1. These materials are not subject to degradation at 60°F and 40% RH or 75°F and 25% RH and are suitable for Condition A Application.

2. Maintain critical function before and after Seismic event. Seismic certification does not apply to wiring and terminals. Wiring installation has been seismically certified by analysis (Ref. Nutherm Report #7713-SCE submittal W-379-1015))

## Section 10: Initial Review and Approval

Approvals:
Designated Engineer: H. K. H. 4/26/00
QA Engineer: H. M. C. 4/26/00
Design Authority: 4/26/00

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

4/26/00
**WORKSHEET 1**

**DETERMINATION OF FAILURE MECHANISMS**

<table>
<thead>
<tr>
<th>Typical Failure Mechanisms</th>
<th>Definition</th>
<th>X = Applicable to Component under Evaluation</th>
<th>X? Indicate Failure Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fracture</td>
<td>Separation of a solid accompanied by little or no macroscopic plastic deformation.</td>
<td>X</td>
<td>Fracture or material fatigue-loss of signal channel provided by the wiring</td>
</tr>
<tr>
<td>Corrosion</td>
<td>The gradual deterioration of a material due to chemical or electrochemical reactions, such as oxidation, between the material and its environment.</td>
<td>X</td>
<td>Deterioration of the insulation resulting in a short and loss of power.</td>
</tr>
<tr>
<td>Erosion</td>
<td>Destruction of materials by the abrasive action of moving fluids, usually accelerated by the presence of solid particles carried with the fluid.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open Circuit</td>
<td>An electrical circuit that is unintentionally broken so that there is no complete path for current flow.</td>
<td>X</td>
<td>An unintentional break of the wire would result in a loss of power.</td>
</tr>
<tr>
<td>Short Circuit</td>
<td>An abnormal connection by which an electrical current is connected to ground, or to some conducting body, resulting in excessive current flow.</td>
<td>X</td>
<td>An unintentional connection to ground would result in a loss of power.</td>
</tr>
<tr>
<td>Blockage</td>
<td>Clogging of a filtering medium resulting in the inability to perform its purification function or blockage of flow.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seizure</td>
<td>Binding of a normally moving item through excessive pressure, temperature, friction, jamming.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unacceptable Vibration</td>
<td>Mechanical oscillations produced are beyond the defined permissible limits due to unbalancing, poor support, or rotation at critical speeds.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Loss of Properties</td>
<td>A loss of mechanical and physical properties of a material due to exposure to high temperatures, radiation exposure.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Excess Strain</td>
<td>Under the action of excessive external forces the material of the part has been deformed or distorted.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Creep</td>
<td>From prolonged exposure to high temperature and stress, the object will show a slow change in its physical (shape and dimension) and mechanical characteristics.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ductile Fracture</td>
<td>Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Section 2 Additional Failure Modes Applicable to the Component Under Evaluation:**

1. Structural Failure that affects neighboring SS or SC SSCs.
Checklist 1 – Acceptance Method 1 – Special Test/Inspection Verification

<table>
<thead>
<tr>
<th>Item Description: Diesel Generator Control Panel</th>
<th>Equip #: DG Cntl. Pln. Components: Wiring and cable, Terminal Procurement and/or Model #: SIS-12-65-T, PN10-10R</th>
</tr>
</thead>
<tbody>
<tr>
<td>System #: 20-6</td>
<td>Supplier (Address/Phone): Therm-O-Link Inc. &amp; Panduit</td>
</tr>
</tbody>
</table>

SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.

<table>
<thead>
<tr>
<th>Inspec. Test</th>
<th>Section 2 Critical Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>1. Manufacturer</td>
</tr>
<tr>
<td>X</td>
<td>2. Model Number</td>
</tr>
<tr>
<td>X</td>
<td>3. Markings, O.D., No. of strands, material</td>
</tr>
<tr>
<td>X</td>
<td>4. Terminal Stud size/ Color code/ Nominal dimensions “A” &amp; “W” / rating</td>
</tr>
</tbody>
</table>

SECTION 3 BY INSPECTION * See Attachment H, Table H-1 of Desk Instruction for Sampling Size, References (See Section 7)

<table>
<thead>
<tr>
<th>Wiring/Cable:</th>
<th>Characteristic: Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acceptance Criteria: Therm-O-Link Inc.</td>
<td>Receipt inspection Plan / Report #.</td>
</tr>
<tr>
<td>Characteristic: Markings, Model Number, Size, No strands, material</td>
<td>Receipt Inspection Plan / Report #:</td>
</tr>
<tr>
<td>Acceptance Criteria: UL, SIS-12-65-T, 90°C 12 ga, 65 strand, tinned conductor</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Characteristic: Termination:</th>
<th>Acceptance Criteria: Panduit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample Size*: 100%</td>
<td>Receipt Inspection Plan / Report #:</td>
</tr>
<tr>
<td>Characteristic: Model Number, Terminal size, Color code, Nominal dimensions “A” &amp; “W”, rating</td>
<td></td>
</tr>
<tr>
<td>Acceptance Criteria: PN10-10R, 10, yellow, 1.08” &amp; 0.38, 600V, ≥ 90°C</td>
<td>Receipt Inspection Plan / Report #:</td>
</tr>
<tr>
<td>Sample Size*: 100%</td>
<td></td>
</tr>
</tbody>
</table>

Section 4 By Special Test: * See Attachment H, Table H-1 of Desk Instruction for Sampling Size, References (See Section 7)

<table>
<thead>
<tr>
<th>Characteristic for Test:</th>
<th>Acceptance Criteria:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample Size*:</td>
<td>Normal</td>
</tr>
<tr>
<td>Actual Test Value:</td>
<td>Test Plan and Report #:</td>
</tr>
</tbody>
</table>

**If Supplier/Manufacturer or Other, Refer to CGI Checklist-2 for Support Information**
## Section 5 Test / Inspection Summary (Acceptance Method 1)

### 1. Summary Of Verified Critical Characteristics, Their Verification Methods, and Results

**ITEM DESCRIPTION:** Wiring and Cable

<table>
<thead>
<tr>
<th>Critical Characteristics</th>
<th>Critical Characteristic</th>
<th>Acceptance Criteria/Tolerances</th>
<th>ID</th>
<th>Function</th>
<th>Method Type</th>
<th>Procedure or RRF</th>
<th>Checklist ID</th>
<th>Number Tested</th>
<th>Number Failed</th>
<th>Verifying Organization</th>
<th>Printed Name &amp; Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Therm-O-Link, Inc.</td>
<td>X</td>
<td></td>
<td></td>
<td>1, IN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model No., Size, Type</td>
<td>SIS-12-65-T, 12 ga. SIS</td>
<td>X</td>
<td></td>
<td></td>
<td>1, IN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SIS-12-65-T: Markings, O.D., No. of Strands, material</td>
<td>UL, SIS, 12ga. 0.162, 65 strand, tinned conductor, 90°C 600V</td>
<td>X</td>
<td></td>
<td></td>
<td>1, IN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 2. Disposition Of Unverified or Failed Critical Characteristics

<table>
<thead>
<tr>
<th>Critical Characteristic</th>
<th>Disposition</th>
</tr>
</thead>
</table>

### 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: _________________
### Section 5 Test/Inspection Summary (Acceptance Method 1)

**ITEM DESCRIPTION:** Disconnect Switch

<table>
<thead>
<tr>
<th>Critical Characteristics</th>
<th>Acceptance Criteria/Tolerances</th>
<th>ID</th>
<th>Function</th>
<th>Method</th>
<th>T/IN</th>
<th>Procedure or R#</th>
<th>Check-Test ID</th>
<th>Number Tested</th>
<th>Number Failed</th>
<th>Verifying Organization</th>
<th>Printed Name Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Panduit</td>
<td>X</td>
<td>1, IN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model No.</td>
<td>PN10-19R</td>
<td>X</td>
<td>1, IN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PN-10-10R; Terminal</td>
<td>16, yellow, Nominal 1.08</td>
<td>X</td>
<td>1, IN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>stud size, Color code,</td>
<td>inch,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>dimensions &quot;A&quot; &amp; &quot;W&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

#### 2. Disposition Of Unverified or Failed Critical Characteristics

<table>
<thead>
<tr>
<th>Critical Characteristic</th>
<th>Disposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Verify documentation for terminal rating for 800V ≥ 90°C</td>
<td></td>
</tr>
</tbody>
</table>

#### 3. Signature Indicates All Critical Characteristics Verified Satisfactory or Acceptably Dispositioned and Commercial Grade Dedication is Satisfactory and Complete.

<table>
<thead>
<tr>
<th>Testing Agency Approval:</th>
<th>Date</th>
<th>Design Authority:</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Testing Agency QA Engineer:</td>
<td>Date</td>
<td>QA Engineer:</td>
<td>Date</td>
</tr>
</tbody>
</table>
## Section 6: Contacts / Phone Numbers

<table>
<thead>
<tr>
<th>Title</th>
<th>Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Authority</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cog - Engineer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGI Engineer</td>
<td>Carl van Katwijk</td>
<td>376-9385</td>
</tr>
<tr>
<td>Procurement Engineer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Section 7: Supporting Documentation for This Checklist

<table>
<thead>
<tr>
<th>Initial Procurement Documents</th>
<th>For Critical Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drawings:</td>
<td></td>
</tr>
<tr>
<td>Manuals (specify type &amp; number):</td>
<td></td>
</tr>
<tr>
<td>Design Calculations</td>
<td></td>
</tr>
<tr>
<td>Installation Instructions</td>
<td></td>
</tr>
<tr>
<td>Operation Instructions</td>
<td></td>
</tr>
<tr>
<td>Calibration Instructions</td>
<td></td>
</tr>
<tr>
<td>Manufacturer's Recommended Spare Parts List</td>
<td></td>
</tr>
<tr>
<td>X Other: Catalog Cut Sheets Therm-O-Link and Panduit</td>
<td>All</td>
</tr>
</tbody>
</table>

**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:
## DISTRIBUTION SHEET

**To:** Distribution  
**From:** SNF-CVD  
**Page:** 1 of 1  
**Date:** 4/25/00  
**EDT No.:** 629023  
**ECN No.:** N/A

**Project Title/Work Order:**  
W-441, CGI Package

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