224.20
AUG 24 1999

ENGINEERING DATA TRANSMITTAL

Page 1 of 1
1. EDT 627439

2. To: (Receiving Organization) Distribution		3. From: (Originating Organization) SNF Project W-441		4. Related EDT No.: N/A	
5. Proj./Prog./Dept./Div.: SNF Project W-441		6. Design Authority/ Design Agent/Cog. Engr.: D. Whitehurst		7. Purchase Order No.: N/A	
8. Originator Remarks: N/A				9. Equip./Component No.: N/A	
				10. System/Bldg./Facility: SNF CVDF	
11. Receiver Remarks: N/A 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					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Approval Design nator	Reason for Trans- mittal	Origi- nator Dispo- sition	Receiv- er Dispo- sition
1	SNF-5037		0	Process Hood Panel Conduit Accessories	SQ	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	4. Review	1. Approved	4. Reviewed no/comment
		2. Release	5. Post-Review	2. Approved w/comment	5. Reviewed w/comment
		3. Information	6. Dist. (Receipt Acknow. Required)	3. Disapproved w/comment	6. Receipt acknowledged

17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)											
(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN
2	1	Designated Engineer C. Vankatwijk	<i>[Signature]</i>	8/18/99				See Distribution			
2	1	Design Authority D. Whitehurst	<i>[Signature]</i>	8/18/99							
2	1	Safety J. Brehm	<i>[Signature]</i>	8/18/99							
2	1	QA R. Ramsgate	<i>[Signature]</i>	8/18/99							

18. T. Nuxall Signature of EDT Originator		19. T. Choho Authorized Representative for Receiving Organization		20. C. Van Katwijk Design Authority/ Cognizant Manager		21. DOE APPROVAL (if required) Ctrl. No. ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments	
---	--	---	--	--	--	---	--

PROCESS HOOD PANEL CONDUIT ACCESSORIES

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

EDT/ECN: 627439
Org Code: 2G300
B&R Code: 39EW40400

UC: 620
Charge Code: 105559/A000
Total Pages: 34
8-24-99.

Key Words: W-441, Cold Vacuum Drying Facility, Process Hood Panel Conduit Accessories

Abstract: W-441, Cold Vacuum Drying Facility, Process Hood Panel Conduit Accessories

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Release Approval

8/24/99

Date

Approved for Public Release

Commercial Grade Item Upgrade Dedication Form		SNF-5037, Rev. 0
ECN No. NA	CGI No. CGI-SNF-D-93-2-C1-055	Page 1 of 33
Title: PROCESS HOOD PANEL CONDUIT ACCESSORIES		

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.: See attached Section 9	Specification No.: W-441-C1	Manufacturer: Various	Past P.O. No.: NA						
Procurement and/or Model No.: See attached Section 9	Equipment Supplier (if different from manufacturer): Various		Equip. Supplier's Part No.: NA						
Component Description: Junction Boxes, Mounting Panels, Grounding Bar, Terminal Blocks, Wire Ducts, Covers, End Brackets, Mounting Rails, Hub Basic Screw Tight, Seal Fittings, EYS Fittings.									
Section 2b Commercial Availability of the Item									
<p>1. Is the Item available from a catalogue of a qualified NQA1 supplier? (coordinate with project CGI interface Engineer or BTR)</p> <p>☐ YES (go to #2 below)</p> <p>☒ NO (go to procedure step 6.3.2, proceed to dedicate Item.)</p> <p>If not available from a qualified NQA1 supplier, is it available from an ISO 9000 supplier? (coordinate with project CGI interface Engineer or BTR)</p> <p>☐ YES (go to #2 below, then go to procedure step 6.3.2, proceed to dedicate Item)</p> <p>☒ NO (go to procedure step 6.3.2, proceed to dedicate Item.)</p>									
<p>2. List of Candidate qualified suppliers or ISO 9000 suppliers</p> <table border="1"> <thead> <tr> <th>company name & type</th> <th>contact name</th> <th>phone</th> </tr> </thead> <tbody> <tr> <td colspan="3">NA</td> </tr> </tbody> </table>				company name & type	contact name	phone	NA		
company name & type	contact name	phone							
NA									
<p>3. Recommended Procurement Strategy (coordinate with project CGI interface Engineer or BTR):</p> <p>NA</p>									

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**

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 of specifications set forth in the published product information (e.g. manufacturer's 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. **Provide conduit protection, terminal mountings, structural support for safety class wiring.**
2. **Maintain critical function before, during, and after Seismic Event.**

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

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**

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. **Fracture or material fatigue leads to loss of structural support and possible damage to wiring.**

2. **Loss of sealtight integrity of fittings could result in moisture corrosion and possible damage to wiring.**

Section 4 Environmental & Natural Phenomena Hazard Design

Environmental Qualification Required:

Yes ☐

No ☒

Environmental Condition B

If yes: Environmental Qualification Requirements

Limiting Environmental Conditions:

Required Safety Functions:

Qualification Period:

Natural Phenomena Hazard (NPH) Design Required:

Yes ☒

No ☐

HNF-PRO-97, Rev. 0

If yes: NPH Design Requirements

Performance Category: **PC-3**

NPH Design Req'ts.: **Seismic Condition C**

Required Safety Functions: **Provide protection and support for safety class wiring. Maintain critical function before, during, and after Seismic Event.**

Section 5 Component Functional Classification

☒ Safety Class (SC)

☐ General Service (GS)

☐ Safety Significant (SS)

If part/component classification is different from host component/system, document basis: **NA**

Section 6 (Reserved)

Section 7 (Reserved)

Section 8 References (for Functional Classification)

National Codes/Standards: **IEEE 628; NEMA Standard 250**

Safety Analysis Report (SAR):
HNF-SD-SNF-SAR-002,
Rev. 4A

Drawings: **HNF-SD-SNF-SEL-002,**
Rev. 6A

Vendor Manual/Manufacturer/Supplier Information: **Hoffman Engineering Company - Junction Box, Page 4.12, Panels, Page 9.20, Wall-Mount Enclosures, Pages 4.24 and 4.26; Grounding Bar - Proline Internal Components, Bulletin P20, Page 1.55**

Phoenix Contact Universal Terminal Blocks, Page 24, Terminal Strip Marking, Page 270, Universal Terminal Block End Brackets, Page 300;

Panduit Electrical Group - Wiring Duct/Cover, Section I, Page 2;

Weidmuller Terminal Blocks, Strips, and Solderless Terminals, Page 1017;

Rail, Square D Terminal Blocks Class 9080, Page 20-12;

Hub Basis Scru-Tite, Meyers Page 5;

Plastic Bushings, Rigid-IMC, BWF Stephens;

Sealing Fittings, Appleton I-8, Page 8.

Other:

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Section 9 Critical Characteristics

Critical Characteristics Verification Document: HNF-SD-SNF-SEL-002, Rev. 6A. Dwg. H-1-82303	Acceptance Criteria/Tolerances	Acceptance Method	ID	Function
1. Item Identification Critical Characteristics (necessary for reasonable assurance that the item delivered is the item specified)				
Manufacturer, Continuous Hinge NEMA Type 4 "CHNF" Boxes with Panel, Pages 4.12 and 9.20	Hoffman Engineering Company	1, IN	X	
Component Number-Procurement and/or Model Number	Verify UL marking on the box and panel sample lot.	1, IN	X	
Box	Verify presence and acceptable condition of cover gasket.			
Panel	A-1008CHNF A-10P8			
Dimensions of box	Nominal 10.00 x 8.00 x 4.00 inches	1, IN	X	
Dimensions of panel	Nominal 8.75 x 6.88 inches			
Manufacturer, Wall-Mount Enclosure with panel, Pages 4.24 and 4.26	Hoffman Engineering Company	1, IN	X	
Component Number-Procurement and/or Model Number	Verify UL marking on the box and panel sample lot.	1, IN	X	
Box	Verify presence and acceptable condition of door gasket.			
Panel	C-SD20168 C-P2016			
Dimensions of box	Nominal 20.00 x 16.00 x 8.00 inches	1, IN	X	
Dimensions of panel	Nominal 18.20 x 14.20 inches			
Manufacturer, Grounding Bar	Hoffmann Engineering Company	1, IN	X	
Component Number-Procurement and/or Model Number	Verify UL marking on the sample lot.	1, IN	X	
	X-GS2K			
Manufacturer, Terminal Block UK 5 N and End Cover Page 24	Phoenix Contact	1, IN	X	
Component Number-Procurement and/or Model Number	Verify UL marking on the sample lot.	1, IN	X	
Terminal Block, Type / Order Number	UK 5 N / 30 04 36 2			
End Cover, Type / Order Number / Color	D-UK 4/10 / 30 03 02 0 / Grey			

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**

Dimensions of Terminal Block and End Cover, Width / Length / End Cover Width	Nominal 6.2 / 42.5 / 1.8 mm.	1, IN	X
Manufacturer, Terminal Strip Marking System Page 270	Phoenix Contact	1, IN	X
Component Number-Procurement and/or Model Number Terminal Strip, Type / Order Number	UBE/D + ES/KMK 3 / 10 04 07 6	1, IN	X
Manufacturer, End Brackets for NS 35 Mounting Rails, Page 300	Phoenix Contact	1, IN	X
Component Number-Procurement and/or Model Number Type/Order Number	Verify UL marking on the sample lot. E/NS 35 N / 08 00 88 6	1, IN	X
Width / Color of Mounting Rail End Bracket	Nominal 9.5 mm width / Gray	1, IN	X
Manufacturer, Panduct Wiring Duct and Cover, Page Section I, Page 2	Panduit Electrical Group.	1, IN	X
Component Number-Procurement and/or Model Number Wiring Duct, Part Number Cover, Part Number	Verify UL marking on the sample lot. G1x1.5LG6 C1LG6	1, IN	X
Type, Dimensions and Color Wiring Duct Type / Width and Height / Color Cover Type / Width / Color	"G" / Nominal 1 x 1.5 inches / Light Gray "C" / Nominal 1 inch / Light Gray	1, IN	X
Manufacturer, Terminal Block UK5, Ground Terminal Block, and End Plate, Page 1017	Weidmuller	1, IN	X

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**

Component Number- Procurement and/or Model Number Terminal Block, Type/Stock Number Ground terminal Block, Type/Stock Number End Plate, Type/Stock Number	Verify UL marking on the sample lot. 27966 / 94F0310 35456 / 98F9893 AP 2.5 / 27952	1, IN	X	
Description Terminal Block Ground Terminal Block End Plate	SAK2.5, 22-12 AWG, 600V/20A EK4, 22-10 AWG 2.5 SAK	1, IN	X	
Manufacturer, Terminal Block Steel Rail / End Bracket / End Plate, Page 1017	Weidmuller	1, IN	X	
Component Number- Procurement and/or Model Number Steel Rail, Type/Stock Number End Bracket, Type/Stock Number	Verify UL marking on the sample lot. 12880 / 90F7865 49516 / 16F4337	1, IN	X	
Manufacturer, Terminal Block Rail, Page 20-12	Square D	1, IN	X	
Component Number- Procurement and/or Model Number Terminal Block Rail Type	Verify UL marking on the sample lot. MH179 / Class 9080-DIN 1	1, IN	X	
Rail Width	Nominal 1.26 inch	1, IN	X	
Manufacturer, Hub Basic Scr- Tite, Page 5	Myers	1, IN	X	
Component Number- Procurement and/or Model Number Type / Order Number	Verify UL marking on the sample lot. 10003 / ST-1 10004 / ST-2 10005 / ST-3 10006 / ST-4 10007 / ST-5	1, IN	X	
Size, Nominal ID 10003 / ST-1 10004 / ST-2 10005 / ST-3 10006 / ST-4 10007 / ST-5	1/2 inch 3/4 inch 1 inch 1 1/4 inch 1 1/2 inch	1, IN	X	

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**

Manufacturer, Plastic Bushings	BWF Stephens	1, IN	X
Component Number- Procurement and/or Model Number	Verify UL marking on the sample lot.	1, IN	X
Catalog Number	150440		
	150441		
	150442		
	150443		
	150444		
Size, Nominal ID, inch		1, IN	X
150440	1/2		
150441	3/4		
150442	1		
150443	1 1/4		
150444	1 1/2		
Manufacturer, Unilets Sealing Fittings, EYSEF, Page 8	Appleton	1, IN	X
Component Number- Procurement and/or Model Number	Verify UL marking on the sample lot.	1, IN	X
	EYSEF50		
	EYSEF75		
	EYSEF100		
	EYSEF125		
	EYSEF150		
Size, Nominal ID, inches		1, IN	X
EYSEF50	1/2		
EYSEF75	3/4		
EYSEF100	1		
EYSEF125	1 1/4		
EYSEF150	1 1/2		
Manufacturer, Unilets Sealing Female Fittings, EYS, Page 8	Appleton	1, IN	X
Component Number- Procurement and/or Model Number	Verify UL marking on the sample lot.	1, IN	X
	EYF-50		
	EYF-75		
	EYF-100		
	EYF-125		
	EYF-150		
Size, Nominal ID, inches		1, IN	X
EYF-50	1/2		
EYF-75	3/4		
EYF-100	1		
EYF-125	1 1/4		
EYF-150	1 1/2		

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**

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

Material, Continuous Hinge NEMA Type 4 "CHNF" Boxes with panel	Steel (Note 3)	1, IN 1, T	X
Material, Wall-Mount Enclosure with panel	Steel (Note 3)	1, IN 1, T	X
Material, Grounding Bar	Plated Copper (Note 3)	1, IN 1, T	X
Material, Weidmuller Terminal Block Steel Rail	Steel (Note 3)	1, IN 1, T	X
Material, Square D Terminal Block Rail	Steel (Note 3)	1, IN 1, T	X
Material, Meyers Hub Basic Scru-Tite	Zinc (Note 3)	1, IN 1, T	X
Material, Appleton Unilets Sealing Fittings, EYSEF	Malleable Iron (Note 3)	1, IN 1, T	X
Material, Appleton Unilets Sealing Female Fittings, EYS	Malleable Iron (Note 3)	1, IN 1, T	X

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

Environmental	Note 1	NA	
Seismic Condition C	Note 2	1, T 1, A	X

4. Notes and Legend:

- The components are not subject to degradation from the 40°F or 60% RH or 115°F and 22% RH conditions and are suitable for Environmental Condition B application.
- Maintain critical function before, during, and after Seismic event. Equipment that has been shaker-table tested should not be installed in a plant (Ref. IEEE Standard 344-1984, Section 7). Consequently, the seismic test constitutes a destructive test. Seismic Design may be verified by analysis of the installed conduit system.
- Material verification acceptance method may be by either inspection or test.

Acceptance Method:

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

Section 10 Initial Review and Approval

Approvals:

Designated Engineer:

M/W 8/18/99

Design Authority:

B. Phillips 8/18/99

QA Engineer:

Sturick 8/18/99

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**

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 ☒ No ☐ ; If Yes, indicate failure Mode: <u>Fracture or material fatigue-loss of structural protection to wiring</u>
Corrosion	The gradual deterioration of a material due to chemical or electrochemical reactions, such as oxidation, between the material and its environment.	Yes ☐ No ☒ ; 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 ☐ No ☒ ; 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 ☐ No ☒ ; 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 ☐ No ☒ ; 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 ☐ No ☒ ; If Yes, indicate failure Mode _____
Seizure	Binding of a normally moving item through excessive pressure, temperature, friction, jamming.	Yes ☐ No ☒ ; 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 ☐ No ☒ ; 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 ☐ No ☒ ; 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 ☒ No ☐ ; If Yes, indicate failure Mode: <u>Material fatigue leads to loss of structural support and enclosure of wiring</u>
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 ☐ No ☒ ; If Yes, indicate failure Mode _____
Ductile Fracture	Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.	Yes ☒ No ☐ ; If Yes, indicate failure Mode: <u>Fracture or material fatigue -- loss of structural support and protection of wiring</u>

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

1.

2.

3.

4.

5.

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**

CHECKLIST 1

ACCEPTANCE METHOD 1

SPECIAL TEST/INSPECTION VERIFICATION

SECTION 1			
Item Description: Junction Boxes, Mounting Panels, Grounding Bar, Terminal Blocks, Wire Ducts, Covers, End Brackets, Mounting Rails, Hub Basic Screw Tight, Sealing Fittings, EYSEF and EYS.		Equip #: NA	
System #: 93-2		Procurement and/or Model #: See Catalog Numbers in Section 8 and Characteristics in Section 9.	
Manufacturer (Address/Phone): Various - See Sections 8 and 9.		Supplier (Address/Phone):	
P.O. #			
SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.			
Insp	Test	Post-Test	
☒	☐	☐	1. Description and characteristics for identification. (See 14 items listed below under inspection.)
☒	☒	☐	2. Material verification for identification. (See 8 items below under inspection)
☐	☒	☐	3. Seismic Condition C (Seismic verification may be by test or by analysis)
SECTION 3 VERIFIED BY INSPECTION			
* See Attachment H of Desk Instruction for Sampling Size: Reduced Sampling Plan Was Selected Due to The Product History and Simplicity of Product			
Characteristic: Manufacturer, Continuous Hinge NEMA Type 4 "CHNF" Boxes with Panel Pages 4.12 and 9.20			
Sample Size*: REDUCED SAMPLING PLAN			
Acceptance Criteria: Hoffman Engineering Company			
As Found: _____ Passed: Y / N (Circle)			
Receipt Inspection Plan / Report #: _____			
References (see Section 8): _____			

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**

Characteristic: **Continuous Hinge NEMA Type 4 "CHNF" Boxes with Panel - Component Number- Procurement and/or Model Number**

Sample Size*: **REDUCED SAMPLING PLAN**

ID Number/Acceptance Criteria: **Verify UL marking on the box and panel sample lot.**

Verify presence and acceptable condition of cover gasket.

Box A-1008CHNF

Panel A-10P8

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Hoffman Engineering Company - Junction Box, Page 4.12, Panels, Page 9.20**

Characteristic: **Continuous Hinge NEMA Type 4 "CHNF" Boxes with Panel - Dimensions of box/panel**

Sample Size*: **REDUCED SAMPLING PLAN**

Acceptance Criteria: **Box Nominal 10.00 x 8.00 x 4.00 inches**
Panel Nominal 8.75 x 6.88 inches

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Manufacturer, Wall- Mount Enclosure with panel, Pages 4.24 and 4.26**

Sample Size*: **REDUCED SAMPLING PLAN**

Acceptance Criteria: **Hoffman Engineering Company**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Wall- Mount Enclosure with panel - Component Number- Procurement and/or Model Number**

Sample Size*: **REDUCED SAMPLING PLAN**

ID Number/Acceptance Criteria: **Verify UL marking on the box and panel sample lot.**

Verify presence and acceptable condition of door gasket.

Box C-SD20168

Panel C-P2016

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Hoffman Engineering Company - Wall-Mount Enclosures, Pages 4.24 and 4.26;**

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**Characteristic: **Wall- Mount Enclosure with panel - Dimensions of box/panel**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Box** Nominal 20.00 x 16.00 x 8.00 inches
Panel Nominal 18.20 x 14.20 inches

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Manufacturer, Grounding Bar, Page I-55**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Hoffman Engineering Company**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Grounding Bar - Component Number- Procurement and/or Model Number**Sample Size*: **REDUCED SAMPLING PLAN**ID Number/Acceptance Criteria: **Verify UL marking on the sample lot.****X-GS2K**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Grounding Bar - Proline Internal Components, Bulletin P20, Page 1.55**Characteristic: **Manufacturer, Terminal Block UK 5 N and End Cover Page 24**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Phoenix Contact**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Terminal Block UK 5 N and End Cover - Component Number- Procurement and/or Model Number**Sample Size*: **REDUCED SAMPLING PLAN**ID Number/Acceptance Criteria: **Verify UL marking on the sample lot.****Terminal Block,** Type / Order Number **UN 5 N / 30 04 36 2****End Cover,** Type / Order Number / Color **D-UK 4/10 / 30 03 02 0 / Grey**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Phoenix Contact Universal Terminal Blocks, Page 24**

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**

Characteristic: **Terminal Block UK 5 N and End Cover - Dimensions of Terminal Block and End Cover, width / length / and cover width**

Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Nominal 6.2 / 42.5 / 1.8 mm.**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Manufacturer, Terminal Strip Marking System, Page 270**

Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Phoenix Contact**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Terminal Strip Marking System - Component Number- Procurement and/or Model Number**

Sample Size*: **REDUCED SAMPLING PLAN**ID Number/Acceptance Criteria: **Type / Order Number UBE/D + ES/KMK 3 / 10 04 07 6**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Phoenix Contact Universal Terminal Strip Marking, Page 270**

Characteristic: **Manufacturer, End Brackets for NS 35 Mounting Rails, Page 300**

Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Phoenix Contact**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **End Brackets for NS 35 Mounting Rails, - Component Number- Procurement and/or Model Number**

Sample Size*: **REDUCED SAMPLING PLAN**ID Number/Acceptance Criteria: **Verify UL marking on the sample lot.****Type / Order Number E/NS 35 N / 08 00 88 6**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Phoenix Contact Universal Terminal Block End Brackets, Page 300**

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**Characteristic: **End Brackets for NS 35 Mounting Rails, - Width / Color of Mounting Rail End Bracket**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Nominal 9.5 mm / Gray**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Manufacturer, Panduct Wiring Duct and Cover, Page Section I, Page 2**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Panduit Electrical Group**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Panduct Wiring Duct and Cover - Component Number- Procurement and/or Model Number**Sample Size*: **REDUCED SAMPLING PLAN**ID Number/Acceptance Criteria: **Verify UL marking on the sample lot.****Wiring Duct, Part Number G1x1.5LG6****Cover, Part Number C1LG6**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Panduit Electrical Group - Wiring Duct/Cover, Section I, Page 2**Characteristic: **Panduct Wiring Duct and Cover - Type / Width and Height / Color**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Dimensions and Color****Wiring Duct****Type / Width and Height / Color** "G" / Nominal 1 x 1.5 inches / Light Gray**Cover****Type / Width / Color** "C" / Nominal 1 inch / Light Gray

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**Characteristic: **Manufacturer, Terminal Block UK5, Ground Terminal Block, and End Plate, Page 1017**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Weidmuller**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Terminal Block UK5, Ground Terminal Block, and End Plate - Component Number-Procurement and/or Model Number**Sample Size*: **REDUCED SAMPLING PLAN**ID Number/Acceptance Criteria: **Verify UL marking on the sample lot.**

Terminal Block,	
Type/Stock Number	27966 / 94F0310
Ground Terminal Block,	
Type/Stock Number	35456 / 98F9893

End Plate	
Type/Stock Number	AP 2.5 / 27952

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Weidmuller Terminal Blocks, Strips, and Solderless Terminals, Page 1017**Characteristic: **Terminal Block UK5, Ground Terminal Block and End Plate**Sample Size*: **REDUCED SAMPLING PLAN**

Acceptance Criteria:

Description	
Terminal Block	SAK2.5, 22-12 AWG, 600V/20A
Ground Terminal Block	EK4, 22-10 AWG
End Plate	SAK 2.5

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Manufacturer, Terminal Block Steel Rail / End Bracket, Page 1017**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Weidmuller**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**

Characteristic: **Terminal Block Steel Rail / End Bracket - Component Number- Procurement and/or Model Number**

Sample Size*: **REDUCED SAMPLING PLAN**

ID Number/Acceptance Criteria: **Verify UL marking on the conduit sample lot.**

Steel Rail,

Type / Stock Number 12880 / 90F7865

End Bracket,

Type / Stock Number 49516 / 16F4337

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Weidmuller Terminal Blocks, Strips, and Solderless Terminals, Page 1017**

Characteristic: **Manufacturer, Terminal Block Rail, Page 20-12**

Sample Size*: **REDUCED SAMPLING PLAN**

Acceptance Criteria: **Square D**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Terminal Block Rail - Component Number- Procurement and/or Model Number**

Sample Size*: **REDUCED SAMPLING PLAN**

ID Number/Acceptance Criteria: **Verify UL marking on the sample lot.**

Terminal Block Rail - Type MH179 / Class 9080-Din1

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Rail, Square D Terminal Blocks Class 9080, Page 20-12**

Characteristic: **Terminal Block Rail - Width**

Sample Size*: **REDUCED SAMPLING PLAN**

Acceptance Criteria: **Rail Width Nominal 1.26 inch**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Manufacturer, Hub Basic Scru-Tite, Page 5**

Sample Size*: **REDUCED SAMPLING PLAN**

Acceptance Criteria: **Myers**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**Characteristic: **Hub Basic Scru-Tite, - Component Number- Procurement and/or Model Number**Sample Size*: **REDUCED SAMPLING PLAN**

ID Number/Acceptance Criteria:

Verify UL marking on the sample lot.

Type / Order Number

10003 / ST-1

10004 / ST-2

10005 / ST-3

10006 / ST-4

10007 / ST-5

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Hub Basis Scru-Tite, Meyers, Page 5** _____Characteristic: **Hub Basic Scru-Tite, - Size**Sample Size*: **REDUCED SAMPLING PLAN**

Acceptance Criteria:

Size, Nominal ID, inch	10003 / ST-1	1/2
	10004 / ST-2	3/4
	10005 / ST-3	1
	10006 / ST-4	1 1/4
	10007 / ST-5	1 1/2

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Manufacturer, Plastic Bushings**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **BWF Stephens**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**Characteristic: **Plastic Bushings - Component Number- Procurement and/or Model Number**Sample Size*: **REDUCED SAMPLING PLAN**

ID Number/Acceptance Criteria:

Catalog Number	150440
	150441
	150442
	150443
	150444

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Plastic Bushings, Rigid-IMC, BWF Stephens**Characteristic: **Plastic Bushings - Size**Sample Size*: **REDUCED SAMPLING PLAN**

Acceptance Criteria:

Size, Nominal ID, inch	150440	1/2
	150441	3/4
	150442	1
	150443	1 1/4
	150444	1 1/2

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 7): _____

Characteristic: **Manufacturer, Unilets Sealing Fittings, EYSEF, Page 8**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Appleton**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**Characteristic: **Unilets Sealing Fittings - Component Number- Procurement and/or Model Number**Sample Size*: **REDUCED SAMPLING PLAN**ID Number/Acceptance Criteria: **Verify UL marking on the sample lot.**

EYSEF50
EYSEF75
EYSEF100
EYSEF125
EYSEF150

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Sealing Fittings, Appleton I-8, Page 8.** _____Characteristic: **Unilets Sealing Fittings - Size**Sample Size*: **REDUCED SAMPLING PLAN**

Acceptance Criteria:

Size, Nominal ID, Inches	EYSEF50	1/2
	EYSEF75	3/4
	EYSEF100	1
	EYSEF125	1 1/4
	EYSEF150	1 1/2

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Unilets Sealing Female Fittings, EYS, Page 8**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Appleton**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**

Characteristic: **Unilets Sealing Female Fittings, EYS - Component Number- Procurement and/or Model Number**

Sample Size*: **REDUCED SAMPLING PLAN**

Acceptance Criteria: **Verify UL marking on the sample lot.**

**EYF50
EYF75
EYF100
EYF125
EYF150**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): **Sealing Fittings, Appleton I-8, Page 8.**

Characteristic: **Unilets Sealing Female Fittings, EYS - Size**

Sample Size*: **REDUCED SAMPLING PLAN**

Acceptance Criteria:

Size, Nominal ID, inch	EYF50	1/2
	EYF75	3/4
	EYF100	1
	EYF125	1 1/4
	EYF150	1 1/2

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Material, Continuous Hinge NEMA Type 4 "CHNF" Boxes with Panel**

Sample Size*: **REDUCED SAMPLING PLAN**

Acceptance Criteria: **Steel**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Material, Wall-Mount Enclosure with Panel**

Sample Size*: **REDUCED SAMPLING PLAN**

Acceptance Criteria: **Steel**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**Characteristic: **Material, Grounding Bar**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Plated Copper**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Material, Weidmuller Terminal Block Steel Rail**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Steel**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

Characteristic: **Material, Square D Terminal Block Rail**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Steel**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

Characteristic: **Material, Meyers Hub Basic Scru-Tite**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Zinc**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

Characteristic: **Material, Appleton Unilets Sealing Fittings, EYSEF**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Malleable Iron**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

Characteristic: **Material, Appleton Unilets Sealing Female Fittings, EYS**Sample Size*: **REDUCED SAMPLING PLAN**Acceptance Criteria: **Malleable Iron**

As Found: _____ Passed: Y / N (Circle)

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

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Title: **PROCESS HOOD PANEL CONDUIT ACCESSORIES**

SECTION 4 VERIFIED BY SPECIAL TEST

* See Attachment H of Desk Instruction for Sampling Size

Test To Be Performed by:

☐ Purchaser☐ Supplier/Manufacturer**☐ OtherNumber of Items to be Tested: **Reduced Sampling Plan Was Selected Due To The Product History and Simplicity Of Product**

Test/Inspection Location:

Characteristic for Test: **Seismic Condition C - All Items (13 items from Section 9-2)**Acceptance Criteria: **Maintain Critical Function Before, During, and After Seismic Event.**Sample Size*: **Sample Size is NA because seismic verification of the installed conduit system with fittings, supports, etc, will be done by analysis. Physical testing is not anticipated.**

Actual Test Value:

Test Plan and Report #: _____ References (see Section 8): _____

Characteristic for Test:

Acceptance Criteria:

Sample Size*: **REDUCED SAMPLING PLAN**

Actual Test Value:

Test Plan and Report #: _____ References (see Section 8): _____

** 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											
ITEM DESCRIPTION:											
Critical Characteristics					Verification Results						
Critical Characteristics	Acceptance Criteria/Tolerances	ID	Function	Method T/N	Procedure or RR#	Check- list ID	Number Tested	Number Failed	Verifying Organization	Printed Name/Signature	Date
Manufacturer, Continuous Hinge NEMA Type 4 "CHNF" Boxes with Panel	Hoffman Engineering Company	X		IN							
Continuous Hinge NEMA Type 4 "CHNF" Boxes with Panel - Component Number- Procurement and/or Model Number Box Panel	Verify UL marking on the box and panel sample lot. Verify presence and acceptable condition of cover gasket. A-1008CHNF A-10P8	X		IN							
Continuous Hinge NEMA Type 4 "CHNF" Boxes with Panel - Dimensions Box Panel	Nominal 10.00 x 8.00 x 4.00 inches Nominal 8.75 x 6.88 inches	X		IN							
Manufacturer, Wall- Mount Enclosure with Panel	Hoffman Engineering Company	X		IN							

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Terminal Block UK 5 N and End Cover - Component Number- Procurement and/or Model Number Terminal Block, Type / Order Number End Cover, Type / Order Number / Color	Verify UL marking on the sample lot. UK 5 N / 30 04 36 2 D-UK 4/10 / 30 03 02 0 / Grey	X		IN							
Terminal Block UK 5 N and End Cover - Dimensions Width / Length / and Cover Width	Nominal 6.2 / 42.5 / 1.8 mm	X		IN							
Manufacturer, Terminal Strip Marking System	Phoenix Contact	X		IN							
Terminal Strip Marking System - Component Number- Procurement and/or Model Number Terminal Strip, Type / Order Number	UBE/D + ES/KMK 3 / 10 04 07 6	X		IN							
Manufacturer, End Brackets for NS 35 Mounting Rails	Phoenix Contact	X		IN							

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[illegible]

Verify UL marking on the sample lot.

6
E/NS 35 N / 08 00 88

X

Z

Nominal 9.5 mm width /
Gray

X

**Manufacturer, Panduct
Wiring Duct and Cover**

Panduit Electrical Group

X

 $\mathbb{Z}$

**Panduct Wiring Duct
and Cover -
Component Number-
Procurement and/or
Model Number**

Verify UL marking on the sample lot.

G1x1.5LG6

Cover,

C1LG6

Panduct Wiring Duct and Cover - Type, Dimensions and Color

**"G" / Nominal 1 x 1.5
inches / Light Gray**

Cover

**"C" / Nominal 1 inch /
Light Gray**

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Manufacturer, Terminal Block UK5, Ground Terminal Block, and End Plate	Weidmuller	X	IN															
Terminal Block UK5, Ground Terminal Block, and End Plate - Component Number- Procurement and/or Model Number	Verify UL marking on the Enclosure and Panel sample lot.	X	IN															
Terminal Block, Type/Stock Number	27966 / 94F0310																	
Ground Terminal Block, Type/Stock Number	35456 / 98F9893																	
End Plate, Type/Stock Number	AP 2.5 / 27952																	
Terminal Block UK5, Ground Terminal Block and End Plate - Description	SAK2.5, 22-12 AWG, 600V/20A	X	IN															
Ground Terminal Block	EK4, 22-10 AWG																	
End Plate	SAK 2.5																	
Manufacturer, Terminal Block Steel Rail / End Bracket	Weidmuller	X	IN															

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Terminal Block Steel Rail / End Bracket - Component Number- Procurement and/or Model Number Steel Rail, Type/Stock Number End Bracket, Type/Stock Number	Verify UL marking on the sample lot. 12880 / 90F7865 49516 / 16F4337	X		IN							
Manufacturer, Terminal Block Rail	Square D	X		IN							
Terminal Block Rail - Component Number- Procurement and/or Model Number Terminal Block Rail - Type	Verify UL marking on the sample lot. MH179 / Class 9080-DIN 1	X		IN							
Rail Width	Nominal 1.26 inch	X		IN							
Manufacturer, Hub Basic Scru-Tite	Myers	X		IN							
Hub Basic Scru-Tite - Component Number- Procurement and/or Model Number Type / Order Number	Verify UL marking on the sample lot. 10003 / ST-1 10004 / ST-2 10005 / ST-3 10006 / ST-4 10007 / ST-5	X		IN							

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Unilets Sealing Fittings - Component Number-Procurement and/or Model Number	Verify UL marking on the sample lot. EYSEF50 EYSEF75 EYSEF100 EYSEF125 EYSEF150	X	IN							
Unilets Sealing Fittings - Size, Nominal ID, inches EYSEF50 EYSEF75 EYSEF100 EYSEF125 EYSEF150	1/2 3/4 1 1 1/4 1 1/2	X	IN							
Manufacturer, Unilets Sealing Female Fittings, EYS	Appleton	X	IN							
Unilets Sealing Female Fittings - Component Number-Procurement and/or Model Number	Verify UL marking on the sample lot. EYF-50 EYF-75 EYF-100 EYF-125 EYF-150	X	IN							

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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.			
Testing Agency Approval	Design Authority		BUYER VERIFICATION
	Date		Date
Testing Agency QA Engineer	QA Engineer		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
☐ Drawings:	
☐ Manuals (specify type & number):	
☐ Design Calculations	
☐ Installation Instructions	
☐ Operation Instructions	
☐ Calibration Instructions	
☐ Manufacturer's Recommended Spare Parts List	
☐ Other:	
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:	

[illegible]