

ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN **658708**

Proj.
ECN

2. ECN Category (mark one) Supplemental <input type="checkbox"/> Direct Revision <input checked="" type="checkbox"/> Change ECN <input type="checkbox"/> Temporary <input type="checkbox"/> Standby <input type="checkbox"/> Supersedure <input type="checkbox"/> Cancel/Void <input type="checkbox"/>	3. Originator's Name, Organization, MSIN, and Telephone No. TA Nuxall, SNF CVD, R3-86, 372-3739	4. USQ Required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Date 3/6/00	
	6. Project Title/No./Work Order No. W-441 Spent Nuclear Fuel Cold Vacuum Drying	7. Bldg./Sys./Fac. No. 142-K	8. Approval Designator S ^N Q	
	9. Document Numbers Changed by this ECN (includes sheet no. and rev.) SNF-4626, Rev. 1	10. Related ECN No(s). N/A	11. Related PD No. N/A	

12a. Modification Work <input type="checkbox"/> Yes (fill out Blk. 12b) <input checked="" type="checkbox"/> No (NA Blks. 12b, 12c, 12d)	12b. Work Package No. N/A	12c. Modification Work Complete N/A Design Authority/Cog. Engineer Signature & Date	12d. Restored to Original Condition (Temp. or Standby ECN only) N/A Design Authority/Cog. Engineer Signature & Date
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13a. Description of Change
 Revised item 147 to P/N: 24-TLCT-03-10-S6A-100" & Length=100"; Added item 171, 172 & 173. ~~173~~ ¹⁷⁴ 3/6/00

13b. Design Baseline Document? Yes No

USQ-Like: CVD-00-0150 MM 3/30/00

14a. Justification (mark one)

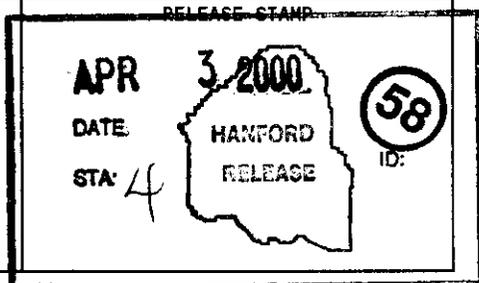
Criteria Change <input checked="" type="checkbox"/>	Design Improvement <input type="checkbox"/>	Environmental <input type="checkbox"/>	Facility Deactivation <input type="checkbox"/>
As-Found <input type="checkbox"/>	Facilitate Const <input type="checkbox"/>	Const. Error/Omission <input type="checkbox"/>	Design Error/Omission <input type="checkbox"/>

14b. Justification Details

Addition of Technical Detail. ^{and 658217.}
 change driven by ECN 656467. ^{TH 3/1/00}

The design verification method for SS/SC components is by independent review in accordance with ~~ENR-027-01~~ ^{ENR-14 3/1/00}. Documentation of this review is accomplished by the independent reviewer approval signature on page 2 of this ECN. ^{TH 3/1/00}

15. Distribution (include name, MSIN, and no. of copies)
 See Distribution



SNF-4626
Revision 2

Parts for Process Hood Assembly PV-HOOD-1*12

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

Parts for Process Hood Assembly PV- HOOD-1*12

C Van Katwijk
FH

Date Published
March 2000

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

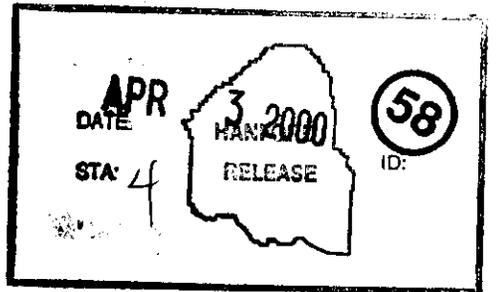
Project Hanford Management Contractor for the
U.S. Department of Energy under Contract DE-AC06-96RL13200

Fluor Hanford

P.O. Box 1000
Richland, Washington


Release Approval

3/30/00
Date



Release Stamp

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Total Pages: 18

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 2
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 1 of 14
Title: Parts For Process Hood Assembly PV-HOOD-1*12		

Section 1 Part Information		
Item No.: N/A	Manufacturer: N/A	Supplier: N/A
Mfg. Part/Model No.: N/A	Supplier's P/N: N/A	
Part Description: N/A		
End Use Description: N/A		

Section 2a Component Information			
Equipment No.: Parts For Process Hood Assembly PV-HOOD- 1*12	Specification No.: W-441-P4, Rev. 3 (SNF-5303, Rev. 0); Dwg.: H-1-82364; ECNs 658719 & 656467	Manufacturer: Various	Past P.O. No.: N/A

Mfr's Part/Model No.: Item Numbers per referenced Dwg.	Equipment Supplier (if different from manufacturer):	Equip. Supplier's Part No.:
H-1-82364 Item 33; -Wire Screen, 1/4" Mesh X 0.047 inch Wire, 65.9% Open	Item 33 – McMaster-Carr	Item 33 – 9266T2
H-1-82364, Item 143; – Hose: 9 inch I.D. X 20 feet, Neoprene Coated Fiber Glass	Item 143– McMaster-Carr	Item 143 –55125K31
H-1-82364, Item 144; – Duct Hose Clamp 9 inch I.D. X 1/2 inch width	Item 144 – McMaster-Carr	Item 144 – 45955K75
H-1-82364, Item 146; - Flex Hose, 13/32 inch I. D., VCO female swivel SST, both ends, teflon hose, 72 inch length	Item 146 – Swagelok	Item 146 - SS
H-1-82364, Item 147; - Flex Hose, 1 1/2 inch I. D., Male pipe NPT end, SST, both ends, teflon hose, Anti Kink Cover, 100 inch length	Item 147 - Either Meacon or Flexible Components	Item 147- 24-TLCT-03-10-S6A-100.
H-1-82364, Item 148; Flex Hose, 1 inch I. D., Weld end 1 inch pipe, both ends, SST, teflon, Anti Kink Cover, 168 inch length	Item 148 – Either Meacon or Flexible Components	Item 148 - 16-TLCT-41-41-S6A-168
H-1-82364, Item 168; Swivel Hoist Ring, 3/4 inch, 5000 lb. capacity	Item 168 – Crosby	Item 168 - 1016935
H-1-82364, Item 171; Adapter, 1-1/2" MNPT to Sanitary Clamp Fitting	Item 171 – Flexible Components	Item 171 - 6924241003
H-1-82364, Item 172; Clamp. Heavy Duty SST, 1-1/2"	Item 172 – Jensen	Item 172 – AJC13HP415
H-1-82364, Item 173; Gasket, Viton, 1-1/2"	Item 173 – Flexible Components	Item 173 – GAS-V150

Component Description: **These items are sub-assembly parts of the Process Hood, PV-HOOD-1*12. The parts are shown on W-441-P4, Rev. 2, Dwg. H-1-82364. The process hood is classed safety significant and has a safety function of radiation protection and confinement. These parts are procured from a non-qualified supplier and are being dedicated as Commercial Grade Items.**

Section 2b Commercial Availability of the Item	
<p>1. Is the Item available from a catalogue from a qualified NQA1 supplier or ISO 9000 supplier (coordinate with project CGI interface Engineer or BTR)? <input type="checkbox"/> YES (go to #2 below) <input checked="" type="checkbox"/> NO (go to procedure step 6.3.2, proceed to dedicate Item)</p> <p style="padding-left: 40px;">If not available from a qualified NQA1 supplier, is it available from an ISO 9000 supplier? (coordinate w/ project CGI Interface Engineer or BTR):</p> <p style="padding-left: 80px;"><input type="checkbox"/> YES (go to #2 below, procedure step 6.3.2, dedicate Item) <input checked="" type="checkbox"/> NO (procedure step 6.3.2, dedicate Item)</p>	
2. List of Candidate qualified suppliers or ISO 9000 suppliers: N/A	
3. Recommended Procurement Strategy (coordinate with project CGI interface Engineer or BTR): N/A	

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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) NO (continue)

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

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.
<input checked="" type="checkbox"/>	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.
	Other ('like-for-like', similar, substitution, replacement evaluation)

Section 3 Failure Effects Evaluation

A. Part/Component Safety Function:

1. **The safety function of the process hood is radiation protection and confinement.**

2. **The process hood is classified as Seismic Condition 3/1, Provide Seismic protection for SC, SS SSCs.**

B. Part/Component Functional Mode:				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 #1:	Active	<input checked="" type="checkbox"/>	Passive	
Safety Function #2:	Active	<input checked="" type="checkbox"/>	Passive	
Safety Function #3:	Active	<input type="checkbox"/>	Passive	

C. Host Component Safety Function (if applicable): **N/A**

1.

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

1. **Item 33 - Fracture/failure of the wire screen may allow foreign material to enter the hood and possibly obstruct the flow passages. Obstruction of the flow passages may impair the confinement function.**

2. **Items 143, 144, 146, 147, and 148 - Failure of the flex hoses and clamp may impair the process hood piping boundary and impair the confinement function.**

3. **Item 168 - A failure of the swivel hoist ring may result in drop of the process hood. Damage to the hood may impair the confinement function if hood were placed in service without proper repair.**

4. **Items 171, 172 & 173 - Failure of the adapter, clamp or gasket will result in loss of pressure and could cause a loss of cask liquid level.**

Section 4 Environmental & Natural Phenomena Hazard Design

Environmental Qualification Required: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Environmental Condition - None	If yes: Environmental Qualification Requirements Limiting Environmental Conditions: Required Safety Functions: Qualification Period:
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Natural Phenomena Hazard (NPH) Design Required: Yes [] No [X] HNF-SD-SNF-SEL-002, Rev. 7 HNF-PRO-097, Rev. 0	If yes: NPH Design Requirements Performance Category: Process Hood is PC-3 NPH Design Req'ts.: Process Hood is Seismic Condition 3/1 Required Safety Functions: The functions for the Process Hood are radiation protection and confinement. Provide Seismic 3/1 protection for SC, SS SSCs.
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Section 5 Component Functional Classification

Safety Class (SC)	General Service (GS)	X	Safety Significant (SS)
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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: **ASHRAE and ACGIH**
 Safety Analysis Report (SAR): **HNF- 3553, Rev. 0, Annex B**
 Drawings: **HNF-SD-SNF-SEL-002, Rev. 7; Dwg.: H-1-82364 with DCNs W-441-HO- 410, 411, 413, and 416; ECN 65647**
 Vendor Manual/Manufacturer/Supplier Information: **Vendor Manuals/Cut Sheets**

Section 9 Critical Characteristics

Critical Characteristics	Acceptance Criteria/Tolerances	Acc. Method	ID	Function
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1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)

Item 33 - Wire Screen

Supplier	McMaster-Carr	1, IN	X	
Part Number	9266T2	1, IN	X	
Mesh	Nominal 1/4 inch	1, IN	X	
Wire Diameter	Nominal 0.047 inch	1, IN	X	

Item 143 - Hose

Supplier	McMaster-Carr	1, IN	X	
Part Number	55125K31	1, IN	X	
I. D.	9 inch	1, IN	X	
Length	Nominal 20 feet	1, IN	X	

Item 144 Duct Hose Clamp

Supplier	McMaster-Carr	1, IN	X	
Part Number	45955K75	1, IN	X	
I. D.	Nominal 9 inch	1, IN	X	
Width	Nominal 1/2 inch	1, IN	X	

Item 146 - Flex Hose

Manufacturer	Swagelok	1, IN	X	
Part Number	SS-TH8-VF8-VF8-72	1, IN	X	
I. D.	13/32 inch	1, IN	X	
Connection	VCO female swivel, SST, 1/2 inch, both ends	1, IN	X	
Length	Nominal 72 inch	1, IN	X	

Item 147- Flex Hose

Manufacturer	Either Meacon or Flexible Components	1, IN	X	
Part Number	24-TLCT-03-10-S6A-100"	1, IN	X	
I. D.	1 1/2 inch	1, IN	X	
Connection	1 1/2 inch Male pipe NPT, SST, both ends	1, IN	X	
Length	Nominal 100 inch	1, IN	X	

Critical Characteristics	Acceptance Criteria/Tolerances	Acc. Method	ID	Function
Item 148- Flex Hose				
Manufacturer	Either Meacon or Flexible Components	1, IN	X	
Part Number	16-TLCT-41-41-S6A-168	1, IN	X	
I. D.	1 inch	1, IN	X	
Connection	1 inch, butt weld end, SST, both ends	1, IN	X	
Length	Nominal 168 inch	1, IN	X	
Item 168 - Swivel Hoist Ring				
Manufacturer	Crosby	1, IN	X	
Part Number	1016935	1, IN	X	
Size, Ring Thickness	Nominal 3/4 inch diameter	1, IN	X	
Size, Ring Opening	Nominal 1.76 inch diameter	1, IN	X	
"C" Dimension, Height	Nominal 4.82 inch	1, IN	X	
Capacity	5000 lbs.	1, IN	X	
Item 171 - Adapter				
Manufacturer	Flexible Components	1, IN	X	
Part Number	6924241003	1, IN	X	
Size	Nominal 1-1/2" MNPT to Sanitary Clamp Fitting	1, IN	X	
Item 172 - Clamp				
Manufacturer	Jensen	1, IN	X	
Part Number	AJC13HP415	1, IN	X	
I. D.	Nominal 1-1/2"	1, IN	X	
Item 173 - Gasket				
Manufacturer	Flexible Components	1, IN	X	
Part Number	GAS-V150	1, IN	X	
Size	Nominal 1-1/2"	1, IN	X	
2. Physical Critical Characteristics (for reasonable assurance that the Item delivered is the Item specified)				
Item 33 Wire Screen Material	Stainless Steel (Note 2)	1, IN; 1, T	X	
Item 143 Hose Material	Neoprene Coated Fiberglass (Note 2)	1, IN; 1, T	X	
Item 172 Clamp Material	Stainless Steel (Note 2)	1, IN; 1, T	X	
Item 173 Gasket Material	Viton (Note 2)	1, IN; 1, T	X	
3 Performance Critical Characteristics (for reasonable assurance that the Item will perform its intended safety function(s))				
All Items				
Environmental	N/A	N/A		
Seismic Condition 3/1	Note 1	N/A		
4. Notes and Legend:		Acceptance Method:		
1. Seismic 3/1 Event is not a critical characteristic for dedication of the component.		1. Special Test and Inspection 1, IN for Inspection 1, T for Test		
2. Material verification acceptance method may be by either inspection or test.		2. Commercial Grade Survey		
Rev. 2: Rev'd item 147 to P/N: 24-TLCT-03-10-S6A-100" and length = 100"; Added item 171, 172 & 173.		3. Source Verification		
		4. Vendor/Item History		
Section 10 Initial Review and Approval				
Approvals:				
Designated Engineer:	<i>[Signature]</i> 3/15/00	QA Engineer:	<i>[Signature]</i> 3/15/00	
Design Authority:	<i>[Signature]</i> 3/15/00	Other:		

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WORKSHEET 1

DETERMINATION OF FAILURE MECHANISMS

Section 1		
Typical Failure Mechanisms	Definition	X = Applicable to Component under Evaluation X? Indicate Failure Mode
Fracture	Separation of a solid accompanied by little or no macroscopic plastic deformation.	X Failure of hoist ring may result in hood drop and subsequent damage.
Corrosion	The gradual deterioration of a material due to chemical or electrochemical reactions, such as oxidation, between the material and its environment.	
Erosion	Destruction of materials by the abrasive action of moving fluids, usually accelerated by the presence of solid particles carried with the fluid.	
Open Circuit	An electrical circuit that is unintentionally broken so that there is no complete path for current flow.	
Short Circuit	An abnormal connection by which an electrical current is connected to ground, or to some conducting body, resulting in excessive current flow.	
Blockage	Clogging of a filtering medium resulting in the inability to perform its purification function or blockage of flow.	
Seizure	Binding of a normally moving item through excessive pressure, temperature, friction, jamming.	
Unacceptable Vibration	Mechanical oscillations produced are beyond the defined permissible limits due to unbalancing, poor support, or rotation at critical speeds.	
Loss of Properties	A loss of mechanical and physical properties of a material due to exposure to high temperatures, radiation exposure.	
Excess Strain	Under the action of excessive external forces the material of the part has been deformed or distorted.	
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.	
Ductile Fracture	Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.	
Section 2 Additional Failure Modes Applicable to the Component Under Evaluation		
1. Item 33 - Fracture/failure of the wire screen may allow foreign material to enter the hood and possibly obstruct the flow passages. Obstruction of the flow passages may impair the confinement function.		
2. Items 143, 144, 146, 147, and 148 - Failure of the flex hoses and clamp may impair the process hood piping boundary and impair the confinement function.		
3. Item 168 - A failure of the swivel hoist ring may result in drop of the process hood. Damage to the hood may impair the confinement function if hood were placed in service without proper repair.		
4. Items 171, 172 & 173 - Failure of the adapter, clamp or gasket will result in loss of pressure and could cause a loss of cask liquid level.		

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Checklist 1 - Acceptance Method 1 - Special Test/Inspection Verification

SECTION 1

Item Description: **Various - See Section 2a.**
System #: **30-3**

Equip #: **Parts For Process Hood Assembly PV-HOOD- 1*12**
Model #: **Various - See Section 2a.**

Manufacturer (Address/Phone):

Supplier (Address/Phone):

SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.

Insp	Test	Post-Test	
			1. Item 33 - Wire Screen
X			2. Supplier
X			3. Part Number
X			4. Mesh
X			5. Wire Diameter
X			6. Material (Verification may be by either inspection or test)
			7. Item 143 - Hose
X			8. Supplier
X			9. Part Number
X			10. I.D.
X			11. Length
X			12. Material (Verification may be by either inspection or test)
			13. Item 144 - Duct Hose Clamp
X			14. Supplier
X			15. Part Number
X			16. I.D.
X			17. Width
			18. Item 146 - Flex Hose
X			19. Manufacturer
X			20. Part Number
X			21. I.D.
X			22. Connection
X			23. Length
			24. Item 147 - Flex Hose
X			25. Manufacturer
X			26. Part Number
X			27. I.D.
X			28. Connection
X			29. Length
			30. Item 148 - Flex Hose
X			31. Manufacturer
X			32. Part Number
X			33. I.D.
X			34. Connection
X			35. Length

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SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.

Insp	Test	Post-Test	
			36. Item 168 - Swivel Hoist Ring
X			37. Manufacturer
X			38. Part Number
X			39. Size, Ring Thickness
X			40. Size, Width of Ring Opening
X			41. Size, "C" Dimension - Height
X			42. Capacity
			43. Item 171 - Adapter
X			44. Manufacturer
X			45. Part Number
X			46. Size
			47. Item 172 - Clamp
X			48. Manufacturer
X			49. Part Number
X			50. I. D.
X			51. Material (Verification may be by either inspection or test)
			52. Item 173 - Gasket
X			53. Part Number
X			54. Size
X			55. Material
X			56. Part Number

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

Characteristic: Item 33 - Wire Screen - Supplier	Sample Size*: 100%
Acceptance Criteria: McMaster-Carr	Receipt Inspection Plan / Report #:
Characteristic: Item 33 - Wire Screen - Part Number	Sample Size*: 100%
Acceptance Criteria: 9266T2	Receipt Inspection Plan / Report #:
Characteristic: Item 33 - Wire Screen - Mesh	Sample Size*: 100%
Acceptance Criteria: Nominal 1/4 inch	Receipt Inspection Plan / Report #:
Characteristic: Item 33 - Wire Screen - Wire Diameter	Sample Size*: 100%
Acceptance Criteria: Nominal 0.047 inch	Receipt Inspection Plan / Report #:
Characteristic: Item 33 - Wire Screen - Material	Sample Size*: 100%
Acceptance Criteria: Stainless Steel	Receipt Inspection Plan / Report #:
Characteristic: Item 143 - Hose - Supplier	Sample Size*: 100%
Acceptance Criteria: McMaster-Carr	Receipt Inspection Plan / Report #:
Characteristic: Item 143 - Hose - Part Number	Sample Size*: 100%
Acceptance Criteria: 55125K31	Receipt Inspection Plan / Report #:
Characteristic: Item 143 - Hose - I.D.	Sample Size*: 100%
Acceptance Criteria: Nominal 9 inch	Receipt Inspection Plan / Report #:

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Characteristic: Item 143 – Hose – Length	Sample Size*: 100%
Acceptance Criteria: Nominal 20 feet	Receipt Inspection Plan / Report #:
Characteristic: Item 143 – Hose – Material	Sample Size*: 100%
Acceptance Criteria: Neoprene Coated Fiberglass	Receipt Inspection Plan / Report #:
Characteristic: Item 144 – Duct Hose Clamp – Supplier	Sample Size*: 100%
Acceptance Criteria: McMaster-Carr	Receipt Inspection Plan / Report #:
Characteristic: Item 144 – Duct Hose Clamp – Part Number	Sample Size*: 100%
Acceptance Criteria: 45955K75	Receipt Inspection Plan / Report #:
Characteristic: Item 144 – Duct Hose Clamp – I.D.	Sample Size*: 100%
Acceptance Criteria: Nominal 9 inch	Receipt Inspection Plan / Report #:
Characteristic: Item 144 – Duct Hose Clamp – Width	Sample Size*: 100%
Acceptance Criteria: Nominal ½ inch	Receipt Inspection Plan / Report #:
Characteristic: Item 146 – Flex Hose – Manufacturer	Sample Size*: 100%
Acceptance Criteria: Swagelok	Receipt Inspection Plan / Report #:
Characteristic: Item 146 – Flex Hose – Part Number	Sample Size*: 100%
Acceptance Criteria: SS-TH8-VF8-VF8-72	Receipt Inspection Plan / Report #:
Characteristic: Item 146 – Flex Hose – I.D.	Sample Size*: 100%
Acceptance Criteria: Nominal 13/32 inch	Receipt Inspection Plan / Report #:
Characteristic: Item 146 – Flex Hose – Connection	Sample Size*: 100%
Acceptance Criteria: VCO female swivel, SST, 1/2 inch, both ends	Receipt Inspection Plan / Report #:
Characteristic: Item 146 – Flex Hose – Length	Sample Size*: 100%
Acceptance Criteria: Nominal 72 inch	Receipt Inspection Plan / Report #:
Characteristic: Item 147 – Flex Hose – Manufacturer	Sample Size*: 100%
Acceptance Criteria: Either Meacon or Flexible Components	Receipt Inspection Plan / Report #:
Characteristic: Item 147 – Flex Hose – Part Number	Sample Size*: 100%
Acceptance Criteria: 24-TLCT-03-10-S6A-100"	Receipt Inspection Plan / Report #:
Characteristic: Item 147 – Flex Hose – I.D.	Sample Size*: 100%
Acceptance Criteria: Nominal 1-1/2 inch	Receipt Inspection Plan / Report #:
Characteristic: Item 147 – Flex Hose – Connection	Sample Size*: 100%
Acceptance Criteria: 1-1/2 inch Male pipe NPT, SST, both ends	Receipt Inspection Plan / Report #:
Characteristic: Item 147 – Flex Hose – Length	Sample Size*: 100%
Acceptance Criteria: Nominal 100 inch	Receipt Inspection Plan / Report #:
Characteristic: Item 148 – Flex Hose – Manufacturer	Sample Size*: 100%
Acceptance Criteria: Either Meacon or Flexible Components	Receipt Inspection Plan / Report #:
Characteristic: Item 148 – Flex Hose – Part Number	Sample Size*: 100%
Acceptance Criteria: 16-TLCT-41-41-S6A-168	Receipt Inspection Plan / Report #:

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Characteristic: Item 148 – Flex Hose – I.D.		Sample Size*: 100%
Acceptance Criteria: Nominal 1 inch	Receipt Inspection Plan / Report #:	
Characteristic: Item 148 – Flex Hose – Connection		Sample Size*: 100%
Acceptance Criteria: 1 inch butt weld end, SST, both ends	Receipt Inspection Plan / Report #:	
Characteristic: Item 148 – Flex Hose – Length		Sample Size*: 100%
Acceptance Criteria: Nominal 168 inch	Receipt Inspection Plan / Report #:	
Characteristic: Item 168 – Swivel Hoist Ring – Manufacturer		Sample Size*: 100%
Acceptance Criteria: Crosby	Receipt Inspection Plan / Report #:	
Characteristic: Item 168 – Swivel Hoist Ring – Part Number		Sample Size*: 100%
Acceptance Criteria: 1016935	Receipt Inspection Plan / Report #:	
Characteristic: Item 168 – Swivel Hoist Ring – Size, Ring Thickness		Sample Size*: 100%
Acceptance Criteria: Nominal 3/4 inch Diameter	Receipt Inspection Plan / Report #:	
Characteristic: Item 168 – Swivel Hoist Ring – Size, Width of Ring Opening		Sample Size*: 100%
Acceptance Criteria: Nominal 1.76 inch Diameter	Receipt Inspection Plan / Report #:	
Characteristic: Item 168 – Swivel Hoist Ring – Size, “C” Dimension, Height		Sample Size*: 100%
Acceptance Criteria: Nominal 4.82 inch	Receipt Inspection Plan / Report #:	
Characteristic: Item 168 – Swivel Hoist Ring - Capacity		Sample Size*: 100%
Acceptance Criteria: 5000 lbs.	Receipt Inspection Plan / Report #:	
Characteristic: Item 171 – Adapter – Manufacturer		Sample Size*: 100%
Acceptance Criteria: Flexible Components	Receipt Inspection Plan / Report #:	
Characteristic: Item 171 – Adapter – Part Number		Sample Size*: 100%
Acceptance Criteria: 6924241003	Receipt Inspection Plan / Report #:	
Characteristic: Item 171 – Adapter – Size		Sample Size*: 100%
Acceptance Criteria: Nominal 1-1/2” MNPT to Sanitary Clamp Fitting	Receipt Inspection Plan / Report #:	
Characteristic: Item 172 – Clamp – Manufacturer		Sample Size*: 100%
Acceptance Criteria: Jensen	Receipt Inspection Plan / Report #:	
Characteristic: Item 172 – Clamp – Part Number		Sample Size*: 100%
Acceptance Criteria: AJC13HP415	Receipt Inspection Plan / Report #:	
Characteristic: Item 172 – Clamp – I.D.		Sample Size*: 100%
Acceptance Criteria: Nominal 1-1/2 inch Nominal	Receipt Inspection Plan / Report #:	
Characteristic: Item 172 – Clamp – Material		Sample Size*: 100%
Acceptance Criteria: Stainless Steel	Receipt Inspection Plan / Report #:	
Characteristic: Item 173 – Gasket – Manufacturer		Sample Size*: 100%
Acceptance Criteria: Flexible Components	Receipt Inspection Plan / Report #:	
Characteristic: Item 173 – Gasket – Part Number		Sample Size*: 100%
Acceptance Criteria: GAS-V150	Receipt Inspection Plan / Report #:	
Characteristic: Item 173 – Gasket – Size		Sample Size*: 100%
Acceptance Criteria: Nominal 1-1/2”	Receipt Inspection Plan / Report #:	
Characteristic: Item 173 – Gasket – Material		Sample Size*: 100%
Acceptance Criteria: Viton	Receipt Inspection Plan / Report #:	

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Title: **Parts For Process Hood Assembly PV-HOOD-1*12****Section 4 By Special Test * See Attachment H, Table H-1 of Desk Instruction for Sampling Size; References (See Section 7)**Characteristic for Test: **None**Acceptance Criteria: **N/A**

Test Plan and Report #:

Actual Test Value:

Samp. Size*:

 Normal

Reduced

Tightened

** 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										
		Acceptance Criteria/Tolerances	ID	Function	Method T/IN	Procedure or RR#	Check -list ID	Number Tested	Number Failed	Verifying Organization	Printed Name Signature	Date
Item 33 - Wire Screen												
Supplier	McMaster-Carr	X			1, IN							
Part Number	9266T2	X			1, IN							
Mesh	Nominal 1/4 inch	X			1, IN							
Wire Diameter	Nominal 0.047 inch	X			1, IN							
Material	Stainless Steel	X			1, IN; 1, T							
Item 143 - Hose												
Supplier	McMaster-Carr	X			1, IN							
Part Number	55125K31	X			1, IN							
I. D.	9 inch	X			1, IN							
Length	Nominal 20 feet	X			1, IN							
Material	Neoprene Coated Fiberglass	X			1, IN; 1, T							
Item 144 - Duct Hose Clamp												
Supplier	McMaster-Carr	X			1, IN							
Part Number	45955K75	X			1, IN							
I. D.	Nominal 9 inch	X			1, IN							
Width	Nominal 1/2 inch	X			1, IN							
Item 146 - Flex Hose												
Manufacturer	Swagelok	X			1, IN							
Part Number	SS-T8-VF8-VF8-72	X			1, IN							
I. D.	13/32 inch	X			1, IN							
Connection	VCO female swivel, SST, 1/2 inch, both ends	X			1, IN							
Length	Nominal 72 inch	X			1, IN							

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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
Item 147 - Flex Hose											
Manufacturer	Either Meacon or Flexible Components	X		1, IN							
Part Number	24-TLCT-03-10-S6A-100"	X		1, IN							
I. D.	1 1/2 inch	X		1, IN							
Connection	1 1/2 inch Male pipe NPT, SST, both ends	X		1, IN							
Length	Nominal 100 inch	X		1, IN							
Item 148 - Flex Hose											
Manufacturer	Either Meacon or Flexible Components	X		1, IN							
Part Number	16-TLCT-41-41-S6A-168	X		1, IN							
I. D.	1 inch	X		1, IN							
Connection	1 inch butt weld end, SST, both ends	X		1, IN							
Length	Nominal 168 inch	X		1, IN							
Item 168 - Swivel Hoist Ring											
Manufacturer	Crosby	X		1, IN							
Part Number	1016935	X		1, IN							
Size, Ring Thickness	Nominal 3/4 inch Diameter	X		1, IN							
Size, Width of Ring Opening	Nominal 1.76 inch Diameter	X		1, IN							
Size, "C" Dimension, Height	Nominal 4.82 inch	X		1, IN							
Capacity	5000 lbs.	X		1, IN							
Item 171 - Adapter											
Manufacturer	Flexible Components	X		1, IN							
Part Number	6924241003	X		1, IN							
Size	Nominal 1-1/2" MNPT to Sanitary Clamp Fitting	X		1, IN							

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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
Item 172 - Clamp											
Manufacturer	Jensen	X		1, IN							
Part Number	AJC13HP415	X		1, IN							
I.D.	1-1/2 inch nominal	X		1, IN							
Material	Stainless Steel	X		1, IN; 1, T							
Item 173 - Gasket											
Manufacturer	Flexible Components	X		1, IN							
Part Number	GAS-V150	X		1, IN							
Size	Nominal 1-1/2"	X		1, IN							
Material	Viton	X		1, IN; 1, T							

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 as Satisfactory and Complete.

BUYER VERIFICATION

Testing Agency Approval: _____ Date _____

Testing Agency QA Engineer: _____ Date _____

Design Authority: _____ Date _____

QA Engineer: _____ Date _____

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Section 6 Contacts / Phone Numbers

Title	Name	Phone
Design Authority		
QA		
QC		
Cog - Engineer		
CGI Engineer	Larry Price	372-8770
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 checked="" type="checkbox"/>	Other: : Vendor Manuals/Cut Sheets	All
Procurement Documents		
<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:	