MAR 30 2000

ENGINEERING DATA TRANSMITTAL

Page 1 of 1

1. EDT

629012

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.: G. Singh		7. Purchase Order No.: N/A	
8. Originator Remarks: N/A				9. Equip./Component No.: N/A	
11. Receiver Remarks: N/A 11A. Design Baseline Document? ☐ Yes ☒ No USQ: CUD-06-0129 <i>QBun 3/29/00</i>				10. System/Bldg./Facility: SNF CVDF/142K	
				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 Designator	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	SNF-6105	N/A	0	Local Exhaust System-Fans, Fan Motors, Backdraft Dampers, and Isolation Dampers	S ^N Q	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	3/29/00				See Distribution			
2	1	Design Authority	G. Singh	3/29/00							
2	1	Safety	J. Brehm	3/26/00		2	1	* C. Hatter		3/28/2000	
2	1	QA R. Ramsgate		3/29/00				* Approval Authority is parallel preparation of USQ Section w/implementation of Engineering			

18. Signature of EDT Originator <i>I. Nuxall</i> Date: 3/29/00		19. Authorized Representative for Receiving Organization <i>T. Choho</i> Date: 3/29/00		20. Design Authority/Cognizant Manager <i>G. Singh</i> Date: 3/29/00		21. DOE APPROVAL (if required) Ctrl. No. ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments	
--	--	--	--	--	--	--	--

BD-7400-172-2 (05/96) GEF097

BD-7400-172-1

[illegible]

Local Exhaust System - Fans, Fan Motors, Backdraft Dampers, and Isolation Dampers

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

TRADEMARK DISCLAIMER

Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors.

This report has been reproduced from the best available copy.
Available in paper copy and microfiche.

Available electronically at <http://www.doe.gov/bridge>. Available
for a processing fee to the U.S. Department of Energy and its
contractors, in paper, from:

U.S. Department of Energy
Office of Scientific and Technical Information
P.O. Box 62
Oak Ridge, TN 37831-0062
phone: 865-576-8401
fax: 865-576-5728
email: reports@adonis.osti.gov(423) 576-8401

Printed in the United States of America

SNF-6105
Revision 0

13 Total Pages
EDT-629012

Local Exhaust System - Fans, Fan Motors, Backdraft Dampers, and Isolation Dampers

Carl Van Katwijk
Fluor Hanford, Inc.

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

Commercial Grade Item Upgrade Dedication Form

SNF-6105, Rev. 0

ECN No. **N/A**

CGI No. **CGI-SNF-D-30-C1-063**

Page 1 of 11

Title: **Local Exhaust System - Fans, Fan Motors, Backdraft Dampers, and Isolation Dampers**

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.: CVDF Local Exhaust System: Fan System: HVAC-EXHF-8045, -8047; Dampers: Isolation Dampers: HVAC-DMP-005, -007; Backdraft Dampers: HVAC-DMP-006, -008	Specification No.: W-441-C1	Manufacturer: Barry Blower, Ruskin	Past P.O. No.: N/A
Procurement and/or Model No.: Fan/Fan Motor: UBD (Size 200); Isolation Damper; Backdraft Damper	Equipment Supplier (if different from manufacturer): Air Commodities, Norby		Equip. Supplier's Part No.: N/A
Component Description: CVDF Local Exhaust System Fan Upgraded Components: Fan/Fan Motor, Isolation Dampers and Backdraft Dampers.			
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)? ☐ YES (go to #2 below) ☒ 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 w/ project CGI Interface Engineer or BTR): ☐ YES (go to #2 below, dedicate Item) ☒ NO (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			
Section 2c CGI Determination			
<p>CGI Determination Questions:</p> <p>#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)</p> <p>#2: Is the Item used in applications other than nuclear facilities or activities? ☐ NO (the item is not commercial grade) ☒ YES (continue)</p> <p>#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)</p> <p>[X] All three criteria have been satisfied. The Item meets the definition of commercial grade.</p>			
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.		
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)		

Commercial Grade Item Upgrade Dedication Form

SNF-6105, Rev. 0

ECN No. **N/A**

CGI No. **CGI-SNF-D-30-C1-063**

Page 2 of 11

Title: **Local Exhaust System - Fans, Fan Motors, Backdraft Dampers, and Isolation Dampers**

Section 3 Failure Effects Evaluation

A. Part/Component Safety Function:

1. **Maintain routing of potentially contaminated and/or flammable air stream through the filtration system.**

2. **Prevention of high concentrations of hydrogen gas building up within the MCO's or the ductwork.**

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**

1.

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

1. **Fan shaft can seize or fail**

2. **External events that causes structural component failure**

3. **Seismic 3/1 Protection for adjacent SS SSCs -Containment**

Section 4 Environmental & Natural Phenomena Hazard Design

Environmental Qualification Required:

Yes ☐

No ☒

Environmental Condition A

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, W-441-C1

If yes: NPH Design Requirements

Performance Category: **PC-2**

NPH Design Req'ts.:

Required Safety Functions: **Seismic 3/1 Protection for adjacent SS SSCs - Containment**

Section 5 Component Functional Classification

Safety Class (SC)

General Service

☒

Safety Significant (SS)

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, SMACNA**

Safety Analysis Report (SAR): **HNF- 3553, Rev. 0, Annex B**

Drawings: **H-1-82206, Sht. 1, Rev. 2, HNF-SD-SNF-SEL-002, Rev. 7**

Vendor Manual/Manufacturer/Supplier Information: **Catalog Cut Sheets - Barry Blower, Ruskin Dampers**

Commercial Grade Item Upgrade Dedication Form

SNF-6105, Rev. 0

ECN No. N/A

CGI No. CGI-SNF-D-30-C1-063

Page 3 of 11

Title: **Local Exhaust System - Fans, Fan Motors, Backdraft Dampers, and Isolation Dampers**

Section 9 Critical Characteristics				
Critical Characteristics	Acceptance Criteria/Tolerances	Acc.Method	ID	Function
Fan/Fan Motor:				
1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
Manufacturer	Barry Blower	1, IN	X	
Model Number, Size	UBD, 200	1, IN	X	
Documentation and Leak Certification (supplied with fan/fan motor by evaluated supplier)	Documentation certifies fan supplied meets proc. spec. W-441-C1 with any exceptions specifically approved by the project.	1, IN	X	
Damper, Isolation:				
1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
2. Physical Critical Characteristics (for reasonable assurance that the Item delivered is the Item specified)				
Frame Inside Diameter	24" Nominal	1, IN	X	
Shaft Seal	Adjustable Gland Shaft Seal	1, IN	X	
3. Performance Critical Characteristics (for reasonable assurance that the Item will perform its intended safety function(s))				
Operation - Manual	Damper operates freely without binding or restriction.	1, T		X
Damper, Backdraft:				
1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
2. Physical Critical Characteristics (for reasonable assurance that the Item delivered is the Item specified)				
Frame Dimensions	21-1/2" X 21-3/8" Nominal	1, IN	X	
Frame Construction	Nominal 8" X 2" X 10 gage channel	1, IN	X	
3. Performance Critical Characteristics (for reasonable assurance that the Item will perform its intended safety function(s))				
Operation - Manual	Damper operates freely without binding or restriction.	1, T		X
System, Isolation and Backdraft Damper:				
3. Performance Critical Characteristics (for reasonable assurance that the Item will perform its intended safety function(s))				
System and Isolation Damper Seal Integrity	Damper leakage 32.82 SCFM installed in system at min. 10" WG for >10 minutes. Note 3	1, T		X
System and Backdraft Damper Seal Integrity	Damper leakage 84.9 SCFM installed in system at min. 10" WG for >10 minutes. Note 4	1, T		X
Environmental	Note 1			
Seismic Condition A	Note 2			

Commercial Grade Item Upgrade Dedication Form

SNF-6105, Rev. 0

ECN No. N/ACGI No. CGI-SNF-D-30-C1-063

Page 4 of 11

Title: Local Exhaust System - Fans, Fan Motors, Backdraft Dampers, and Isolation Dampers

4. Notes and Legend:

1. These dampers have neoprene and EPDM blade and jamb seals. 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. This equipment is seismically rugged. Evaluation shall be performed to determine potential impact to SS & SC SSCs.
3. Pressure test @ minimum 10" WG with acceptable leakage less than 32.82 SCFM. Acceptable leakage = 1.4 CFM (Acc. Criteria for ductwork) + 31.42 CFM (from N509 Criteria) = 32.82 SCFM. Test # ME-030-3-002
4. Pressure test @ minimum 10" WG with acceptable leakage less than 84.9 SCFM. Acceptable leakage = <4.9 CFM (Acc. Criteria for ductwork) + 80 CFM (from N509 Criteria) = 84.9 SCFM. Test # ME-030-3-003.

Rev. 0: Initial Issue.

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

Section 10 Initial Review and Approval

Approvals:

Designated Engineer

for Carl Vankatke 3/29/00

QA Engineer:

Hank M. Chafin 3-29-00

Design Authority:

Simon 3/29/2000 Other:

3/29/00

Commercial Grade Item Upgrade Dedication Form

SNF-6105, Rev. 0

ECN No. N/A

CGI No. CGI-SNF-D-30-C1-063

Page 5 of 11

Title: **Local Exhaust System - Fans, Fan Motors, Backdraft Dampers, and Isolation Dampers**

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.		
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.	X	Seizure of fan or damper blade mechanism
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. Structural Failure that affects neighboring SS or SC SSCs.			

Commercial Grade Item Upgrade Dedication Form

SNF-6105, Rev. 0

ECN No. N/A

CGI No. CGI-SNF-D-30-C1-063

Page 6 of 11

Title: **Local Exhaust System - Fans, Fan Motors, Backdraft Dampers, and Isolation Dampers**

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

SECTION 1			
Item Description: Local Exhaust System System #: 30		Equip #: Fan System: HVAC-EXHF-8045, -8047; Dampers: Isolation Dampers: HVAC-DMP-005, -007; Backdraft Dampers: HVAC-DMP-006, -008 Procurement and/or Model #: N/A	
Manufacturer (Address/Phone): Barry Blower - 99 N.E. 77 th Way, Fridley, Minn 55432 PH: 612-571-5200; Fax: 612-571-4125 Ruskin -3900 DR. Greaves Road, Grandview, Missouri 64030; PH: 816-761-7476; Fax: 816-765-8955		Supplier (Address/Phone): Air Commodities Norby	
SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.			
Insp	Test	Post-Test	
X			1. Manufacturer (fan only)
X			2. Model Number (fan only)
X			3. Size
X			4. Documentation and Leak Certification (supplied with fan/fan motor)
X			5. Dimensions
X			6. Construction
X			7. Shaft Seal
	X		8. Operation - Manual
	X		9. System and Isolation Damper Seal Integrity
	X		10. System and Backdraft Damper Seal Integrity
SECTION 3 BY INSPECTION * See Attachment H, Table H-1 of Desk Instruction for Sampling Size; References (See Section 7)			
Fan/Fan Motor:			
Characteristic: Manufacturer Acceptance Criteria: Barry Blower			Sample Size*: 100%
Receipt Inspection Plan / Report #:			
Characteristic: Model Number Acceptance Criteria: UBD			Sample Size*: 100%
Receipt Inspection Plan / Report #:			
Characteristic: Size Acceptance Criteria: 200			Sample Size*: 100%
Receipt Inspection Plan / Report #:			
Characteristic: Documentation and Leak Certification (supplied with fan/fan motor) Acceptance Criteria: Documentation Certifies Fan supplied meets proc. Spec. W-441-C1 with any exceptions specifically approved by the project. Receipt Inspection Plan / Report #:			Sample Size*: 100%

Commercial Grade Item Upgrade Dedication Form

SNF-6105, Rev. 0

ECN No. **N/A**

CGI No. **CGI-SNF-D-30-C1-063**

Page 7 of 11

Title: **Local Exhaust System - Fans, Fan Motors, Backdraft Dampers, and Isolation Dampers**

Damper, Isolation:		
Characteristic: Frame Inside Diameter	Receipt Inspection Plan / Report #:	Sample Size*: 100%
Acceptance Criteria: 24" Nominal		
Characteristic: Shaft Seal	Receipt Inspection Plan / Report #:	Sample Size*: 100%
Acceptance Criteria: Adjustable Gland Shaft Seal		
Damper, Backdraft:		
Characteristic: Frame Dimensions	Receipt Inspection Plan / Report #:	Sample Size*: 100%
Acceptance Criteria: 21-1/2" X 21-3/8" Nominal		
Characteristic: Frame Construction	Receipt Inspection Plan / Report #:	Sample Size*: 100%
Acceptance Criteria: Nominal 8" X 2" X 10 gage channel		
Section 4 By Special Test * See Attachment H, Table H-1 of Desk Instruction for Sampling Size; References (See Section 7)		
Characteristic for Test: Operation - Manual	Samp Size*: ☒ Normal[☐ Reduced[☐ Tightened	
Acceptance Criteria: Dampers operates freely without binding or restriction		
Actual Test Value:	Test Plan and Report #:	
Characteristic for Test: System and Isolation Damper Seal Integrity	Samp Size*: ☒ Normal[☐ Reduced[☐ Tightened	
Acceptance Criteria: Damper leakage <32.82 SCFM installed in system at min. 10" WG for >10 minutes.		
Actual Test Value:	Test Plan and Report #:	
Characteristic for Test: System and Backdraft Damper Seal Integrity	Samp Size*: ☒ Normal[☐ Reduced[☐ Tightened	
Acceptance Criteria: Damper leakage <84.9 SCFM installed in system at min. 10" WG for >10 minutes.		
Actual Test Value:	Test Plan and Report #:	

**If Supplier/Manufacturer or Other, Refer to CGI Checklist-2 for Support Information

Commercial Grade Item Upgrade Dedication Form

ECN No. N/A

CGI No. CGI-SNF-D-30-C1-063

Title: Local Exhaust System - Fans, Fan Motors, Backdraft Dampers, and Isolation Dampers

SNF-6105, Rev. 0

Page 8 of 11

Section 5 Test / Inspection Summary (Acceptance Method 1)

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

ITEM DESCRIPTION: Fan/Fan Motor

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
Manufacturer	Barry Blower	X		1, IN							
Model Number	UBD	X		1, IN							
Size	200	X		1, IN							
Documentation and Leak Certification (supplied with fan/fan motor by evaluated supplier)	Documentation Certifies Fan supplied meets proc. spec. W-441-C1 with any exceptions specifically approved by the project.	X		1, IN							

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: _____ Date _____

Testing Agency QA Engineer: _____ Date _____

Design Authority: _____ Date _____

QA Engineer: _____ Date _____

3/29/00

Commercial Grade Item Upgrade Dedication Form

SNF-6105, Rev. 0

ECN No. N/A CGI No. CGI-SNF-D-30-C1-063
 Title: Local Exhaust System - Fans, Fan Motors, Backdraft Dampers, and Isolation Dampers

Page 9 of 11

Section 5 Test / Inspection Summary (Acceptance Method 1)											
1. Summary Of Verified Critical Characteristics, Their Verification Methods, and Results											
ITEM DESCRIPTION: Dampers, Isolation											
Critical Characteristics						Verification Results					
Critical Characteristics	Acceptance Criteria/Tolerances	ID	Function	Method T/I/N	Procedure or RP#	Check-list ID	Number Tested	Number Failed	Verifying Organization	Printed Name Signature	Date
Frame Inside Diameter	24" Nominal	X		1, IN							
Shaft Seal	Adjustable Gland Shaft Seal	X		1, IN							
Operation - Manual	Damper operates freely with no binding or restriction		X	1, T							
System and Isolation Damper Seal Integrity	Damper leakage <32.82 SCFM installed in system at min. 10" WG for >10 minutes.		X	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 Is Satisfactory and Complete.											
Testing Agency Approval: _____ Date _____						Design Authority: _____ Date _____					
Testing Agency QA Engineer: _____ Date _____						QA Engineer: _____ Date _____					

Commercial Grade Item Upgrade Dedication Form

ECN No. <u>N/A</u>	CGI No. <u>CGI-SNF-D-30-C1-063</u>	SNF-6105, Rev. 0
Title: <u>Local Exhaust System - Fans, Fan Motors, Backdraft Dampers, and Isolation Dampers</u>		Page 10 of 11

Section 5 Test / Inspection Summary (Acceptance Method 1)											
1. Summary Of Verified Critical Characteristics , Their Verification Methods, and Results											
ITEM DESCRIPTION: Dampers, Backdraft											
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
Frame Dimensions	21-1/2" X 21-3/8" Nominal	X		1, IN							
Frame Construction	Nominal 8" X 2" X 10 gage steel channel	X		1, IN							
Operation - Manual	Damper operates freely with no binding or restriction		X	1, T							
System and Isolation Damper Seal Integrity	Damper leakage <84.9 SCFM installed in system at min. 10" WG for >10 minutes.		X	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 Is Satisfactory and Complete.											
Testing Agency Approval: _____	Date _____	Design Authority: _____				Date _____					
Testing Agency QA Engineer: _____	Date _____	QA Engineer: _____				Date _____					

Commercial Grade Item Upgrade Dedication Form

SNF-6105, Rev. 0

ECN No. N/A

CGI No. CGI-SNF-D-30-C1-063

Page 11 of 11

Title: **Local Exhaust System - Fans, Fan Motors, Backdraft Dampers, and Isolation Dampers**

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
☐	Drawings:	
☐	Manuals (specify type & number):	
☐	Design Calculations	
☐	Installation Instructions	
☐	Operation Instructions	
☐	Calibration Instructions	
☐	Manufacturer's Recommended Spare Parts List	
X	Other: : Catalog Cut Sheets - Barry Blower, Ruskin Dampers	All
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	
X	Other: W-441-C1 Sub. 215A, 227	