

ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN **652394**

Proj.
ECN

S

2. ECN Category (mark one) Supplemental <input type="radio"/> Direct Revision <input checked="" type="radio"/> Change ECN <input type="radio"/> Temporary <input type="radio"/> Standby <input type="radio"/> Supersedeure <input type="radio"/> Cancel/Void <input type="radio"/>	3. Originator's Name, Organization, MSIN, and Telephone No. JA Reynolds, 18230, N2-56, 376-9909	4. USQ Required? <input type="radio"/> Yes <input checked="" type="radio"/> No	5. Date 04/09/99
6. Project Title/No./Work Order No. FFTF		7. Bldg./Sys./Fac. No. 400G/21A	
9. Document Numbers Changed by this ECN (includes sheet no. and rev.) HNF-SD-FF-DP-008, Revision 5		10. Related ECN No(s). N/A	
12a. Modification Work <input type="radio"/> Yes (fill out Blk. 12b) <input checked="" type="radio"/> No (NA Blks. 12b, 12c, 12d)		12b. Work Package No. N/A	
12c. Modification Work Completed N/A Design Authority/Cog. Engineer Signature & Date		12d. Restored to Original Condition (Temp. or Standby ECNs only) N/A Design Authority/Cog. Engineer Signature & Date	

13a. Description of Change 13b. Design Baseline Document? Yes No
 New asbestos findings and changes to existing locations are added to this document, HNF-SD-FF-DP-008, by replacing with Revision 6.

14a. Justification (mark one) Criteria Change <input type="radio"/> Design Improvement <input type="radio"/> Environmental <input type="radio"/> Facility Deactivation <input type="radio"/> As-Found <input checked="" type="radio"/> Facilitate Const. <input type="radio"/> Const. Error/Omission <input type="radio"/> Design Error/Omission <input type="radio"/>	14b. Justification Details Changes/updates to HNF-SD-FF-DP-008 are required yearly to ensure the latest tracking information is available as a "good faith" inspection to all personnel for clean-up, removal and handling of asbestos.
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15. Distribution (include name, MSIN, and no. of copies)

TM Amundson	N2-57 (1)	Work Control Center	B2-13 (1)
GJ Boehnke	N1-88 (1)	SOM Office	N2-34 (1)
NR Dahl	N2-57 (1)	Central Files	L8-04 (1)
SV Doebler	N2-34 (1)	Tech. Ref.	A3-88 (1)
S. Guttenberg	N2-53 (1)		
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JA Reynolds	N2-56 (2)		

RELEASE STAMP

APR 13 1999

DATE: 22

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ID: **43**

ENGINEERING CHANGE NOTICE

Page 2 of 2

1. ECN (use no. from pg. 1)

652394

16. Design Verification Required

Yes
 No

17. Cost Impact

ENGINEERING

Additional \$ _____
Savings \$ _____

CONSTRUCTION

Additional \$ _____
Savings \$ _____

18. Schedule Impact (days)

Improvement _____
Delay _____

19. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 13. Enter the affected document number in Block 20.

<p>SDD/DD <input type="checkbox"/></p> <p>Functional Design Criteria <input type="checkbox"/></p> <p>Operating Specification <input type="checkbox"/></p> <p>Criticality Specification <input type="checkbox"/></p> <p>Conceptual Design Report <input type="checkbox"/></p> <p>Equipment Spec. <input type="checkbox"/></p> <p>Const. Spec. <input type="checkbox"/></p> <p>Procurement Spec. <input type="checkbox"/></p> <p>Vendor Information <input type="checkbox"/></p> <p>OM Manual <input type="checkbox"/></p> <p>FSAR/SAR <input type="checkbox"/></p> <p>Safety Equipment List <input type="checkbox"/></p> <p>Radiation Work Permit <input type="checkbox"/></p> <p>Environmental Impact Statement <input type="checkbox"/></p> <p>Environmental Report <input type="checkbox"/></p> <p>Environmental Permit <input type="checkbox"/></p>	<p>Seismic/Stress Analysis <input type="checkbox"/></p> <p>Stress/Design Report <input type="checkbox"/></p> <p>Interface Control Drawing <input type="checkbox"/></p> <p>Calibration Procedure <input type="checkbox"/></p> <p>Installation Procedure <input type="checkbox"/></p> <p>Maintenance Procedure <input type="checkbox"/></p> <p>Engineering Procedure <input type="checkbox"/></p> <p>Operating Instruction <input type="checkbox"/></p> <p>Operating Procedure <input type="checkbox"/></p> <p>Operational Safety Requirement <input type="checkbox"/></p> <p>IEFD Drawing <input type="checkbox"/></p> <p>Cell Arrangement Drawing <input type="checkbox"/></p> <p>Essential Material Specification <input type="checkbox"/></p> <p>Fac. Proc. Samp. Schedule <input type="checkbox"/></p> <p>Inspection Plan <input type="checkbox"/></p> <p>Inventory Adjustment Request <input type="checkbox"/></p>	<p>Tank Calibration Manual <input type="checkbox"/></p> <p>Health Physics Procedure <input type="checkbox"/></p> <p>Spares Multiple Unit Listing <input type="checkbox"/></p> <p>Test Procedures/Specification <input type="checkbox"/></p> <p>Component Index <input type="checkbox"/></p> <p>ASME Coded Item <input type="checkbox"/></p> <p>Human Factor Consideration <input type="checkbox"/></p> <p>Computer Software <input type="checkbox"/></p> <p>Electric Circuit Schedule <input type="checkbox"/></p> <p>ICRS Procedure <input type="checkbox"/></p> <p>Process Control Manual/Plan <input type="checkbox"/></p> <p>Process Flow Chart <input type="checkbox"/></p> <p>Purchase Requisition <input type="checkbox"/></p> <p>Tickler File <input type="checkbox"/></p> <p>_____ <input type="checkbox"/></p> <p>_____ <input type="checkbox"/></p>
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20. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision

Document Number/Revision

Document Number/Revision

21. Approvals

Signature	Date	Signature	Date
Design Authority _____	_____	Design Agent _____	_____
Cog. Eng. <u>JA Reynolds</u>	<u>4/8/99</u>	PE _____	_____
Cog. Mgr. <u>DL Polzin</u>	<u>4/8/99</u>	QA _____	_____
QA _____	_____	Safety _____	_____
Safety _____	_____	Design _____	_____
Environ. _____	_____	Environ. _____	_____
Other <u>DA Gantt</u>	<u>4/9/99</u>	Other _____	_____
_____	_____	_____	_____
_____	_____	_____	_____

DEPARTMENT OF ENERGY

Signature or a Control Number that tracks the Approval Signature

ADDITIONAL

DISTRIBUTION SHEET

To DISTRIBUTION	From STATION 22	Page 1 of 1
		Date
Project Title/Work Order FFTF		EDT No.
		ECN No. 652394

Name	MSIN	Text With All Attach.	Text Only	Attach./Appendix Only	EDT/ECN Only
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ANALYSIS & SUPPORT (OPS)	N2-57	(1)			
ANALYSIS & SUPPORT (EP)	N2-57	(1)			
ANALYSIS & SUPPORT (MAINTENANCE)	N2-57	(1)			
FFTF SAFETY	N2-57	(1)			
400 AREA TRAINING	N2-40	(1)			
FFTF QA	N2-11	(1)			X
STATION 22 GC PERKINS	N2-12	(1)			
TECHNICAL REFERENCE CENTER					
DOCUMENTS SD, OMM, SDD, FSAR, SPECS JCS/CI, JCS/PMS, SOFTWARE	N2-12	(1)			
DRAWINGS	N2-12	(2)			

TM Amundson	N2-57 (1)	Work Control Center	B2-13 (1)
GJ Boehnke	N1-88 (1)	SOM Office	N2-34 (1)
NR Dahl	N2-57 (1)	Central Files	L8-04 (1)
SV Doebler	N2-34 (1)	Tech. Ref.	A3-88 (1)
S. Guttenberg	N2-53 (1)		
DL Polzin	N2-56 (1)		
JA Reynolds	N2-56 (2)		

FAST FLUX TEST FACILITY ASBESTOS LOCATION TRACKING PROGRAM

J. A. Reynolds
B&W Hanford Company
Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

EDT/ECN: 652394 UC: 900
Org Code: 18200 Charge Code: 101587
B&R Code: EX04J1020 Total Pages: 30

Key Words: Asbestos, Tracking, Good Faith

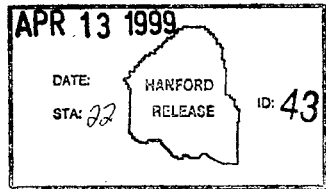
Abstract: This document updates the location and condition of asbestos found at the 400 Area Fast Flux Test Facility site.

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J. A. Reynolds (Reynolds)
Release Approval

APR 13 1999
Date



Release Stamp

Approved For Public Release

INFORMATION CLEARANCE FORM

A. Information Category <input type="checkbox"/> Abstract <input type="checkbox"/> Journal Article <input type="checkbox"/> Summary <input type="checkbox"/> Internet <input type="checkbox"/> Visual Aid <input type="checkbox"/> Software <input type="checkbox"/> Full Paper <input type="checkbox"/> Report <input checked="" type="checkbox"/> Other Supporting Document	B. Document Number HNF-SD-FF-DP-008, Revision 6 C. Title FTFF Asbestos Location Tracking Program D. Internet Address
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E. Required Information 1. Is document potentially Classified? <input checked="" type="radio"/> No <input type="radio"/> Yes (MANDATORY) <i>D.S. Polzin 4/8/99</i> Manager's Signature Required If Yes _____ <input checked="" type="radio"/> No <input type="radio"/> Yes Classified ADC Signature Required 2. Internal Review Required? <input checked="" type="radio"/> No <input type="radio"/> Yes If Yes, Document Signatures Below Counsel _____ Program _____ 3. References in the Information are Applied Technology <input checked="" type="radio"/> No <input type="radio"/> Yes Export Controlled Information <input checked="" type="radio"/> No <input type="radio"/> Yes	4. Does Information Contain the Following: (MANDATORY) a. New or Novel (Patentable) Subject Matter? <input checked="" type="radio"/> No <input type="radio"/> Yes If "Yes", Disclosure No.: _____ b. Information Received in Confidence, Such as Proprietary and/or Inventions? <input checked="" type="radio"/> No <input type="radio"/> Yes If "Yes", Affix Appropriate Legends/Notices. c. Copyrights? <input checked="" type="radio"/> No <input type="radio"/> Yes If "Yes", Attach Permission. d. Trademarks? <input checked="" type="radio"/> No <input type="radio"/> Yes If "Yes", Identify in Document. 5. Is Information requiring submission to OSTI? <input type="radio"/> No <input checked="" type="radio"/> Yes If Yes UC- 900 and B&R-EX04J1020 6. Release Level? <input checked="" type="radio"/> Public <input type="radio"/> Limited 7. Charge Code 201500 101587
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F. Complete for a Journal Article

1. Title of Journal _____

G. Complete for a Presentation

1. Title for Conference or Meeting _____

2. Group Sponsoring _____

3. Date of Conference _____

4. City/State _____

5. Will Information be Published in Proceedings? No Yes

6. Will Material be Handed Out? No Yes

H. Author/Requestor *J.A. Reynolds 4/8/99* **Responsible Manager** *DL Polzin D.S. Polzin 4/8/99*

J.A. Reynolds (Print and Sign) *DL Polzin* (Print and Sign)

I. Reviewers	Yes	Print	Signature	Public Y/N (If N, complete Y)
General Counsel	<input type="checkbox"/>	_____	_____	Y / N
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Other	<input checked="" type="checkbox"/>	<i>DA Gantt, Applied Technology Review</i>	<i>DL Polzin 4/9/99</i>	<input checked="" type="radio"/> Y / N
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<input type="checkbox"/> UCNI	



K. If Additional Comments, Please Attach Separate Sheet

RELEASE AUTHORIZATION

Document


Number: HNF-SD-FF-DP-008

Document

Title: FFTF ASBESTOS LOCATION TRACKING PROGRAM

This document, reviewed in accordance with DOE Order 241.1, "Scientific and Technical Information Management," and DOE 241.1-G "Guide to the Management of Scientific and Technical Information," does not contain classified or sensitive unclassified information and is:

APPROVED FOR PUBLIC RELEASE


G. C. (Jackie) Perkins

Lockheed Martin Services, Inc.

APR 13 1999

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RECORD OF REVISION

(1) Document Number
HNF-SD-FF-DP-008

Page 1

(2) Title
FFTF ASBESTOS LOCATION TRACKING PROGRAM

Change Control Record

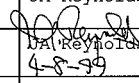
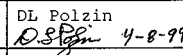
(3) Revision	(4) Description of Change - Replace, Add, and Delete Pages	Authorized for Release		
		(5) Cog. Engr.	(6) Cog. Mgr.	Date
0	(7) Initial release EDT 108828	BR Bowman	CG McCargar	
1	Revised per ECN 703853, all pages update to Revision 1 with latest information.	JA Reynolds	CG McCargar	
2	Revised per ECN 617608, all pages update to Revision 2 with latest information.	JA Reynolds	CG McCargar	
3	Revised per ECN 627272, all pages update to Revision 3 with latest information.	JA Reynolds	CG McCargar	
4	Revised per ECN 639819, all pages update to Revision 4 with latest information.	JA Reynolds	CG McCargar	
5	Revised per ECN 639823, all pages update to Revision 5 with latest information.	JA Reynolds	DL Polzin	
6	Revised per ECN 652394, all pages update to Revision 6 with latest information.	 JA Reynolds 4-8-99	DL Polzin 	4-8-99

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1.0 PURPOSE

Procedure Number HNF-PRO-408, revision 0, paragraph 1.0, "Purpose," and paragraph 2.0, "Requirements for Facility Management of Asbestos," relate building inspection and requirements for documentation of existing asbestos-containing building material (ACBM) per each building assessment. This documentation shall be available to all personnel (including contractor personnel) entering the facility at their request. Corrective action was required by 400 Area Integrated Annual Appraisal/Audit for Fiscal Year 1992 (IAA-92-0007) to provide this notification documentation. No formal method had been developed to communicate the location and nature of ACBM to maintenance personnel in the Fast Flux Test Facility (FFTF) 400 Area.

2.0 SCOPE

The scope of this Data Package Document is to locate and evaluate any ACBM found at FFTF which constitutes a baseline. This includes all buildings within the protected area. These findings are compiled from earlier reports, numerous work packages and engineering evaluations of employee findings.

3.0 INSPECTION PROGRAM

The inspection baseline program was generated by work package F2-902/A to locate, inspect, log, test and finalize into a working document all ACBM findings during the period, October 1992 to February 1993. As possible ACBM locations were found, they were investigated visually and samples taken if suspected by the Engineering Asbestos Representative by an Asbestos Hazard Emergency Response Act Building Inspector. These samples were logged, pictures taken of the sample location and numbered (see Appendix A). The representative pictures are provided in two reference binders; one maintained by the FFTF Engineering Asbestos Engineer and one by Operations Regulatory Compliance. Samples were taken to Waste Sampling and Characterization Facility, 600 Area, and tested for contents using the Polarized Light Microscopy and Dispersion Staining methods in accordance with 40 CFR Chapter I (7-1-93 Ed.) Part 763, Appendix E to Subpart E. For the retention period of all inspection results, see HNF-PRO-408, paragraph 2.0, subparagraph 5.

Appendix B is the location of ACBM listed by building number to simplify the task of finding possible asbestos locations.

In a few instances, ACBM findings documented to a specific location in Appendix B, are generic deficiencies, such as cable tray insulation. In these cases, work on and inspection of this type of equipment requires ACBM controls found in any/all plant location.

As normally inaccessible cells are opened per Operations Administrations Procedure A-16, inspections or air samples will be taken for airborne fiber content for an initial baseline inspection performed and documented per HNF-PRO-408, paragraph 2.0, subparagraph 5.

Appendix C lists the potential friable asbestos locations by building number and shall be inspected yearly.

4.0 FUTURE DATA UPDATES

FFTF Asbestos Engineering updates to this document will be made yearly by change revision. These changes will incorporate any new finding and sample results from continuing investigations through work packages, etc. When Appendices A, B and C are updated, similar revisions must be made to PMP 21A-M01.

5.0 FUTURE INSPECTION

Inspection of known friable locations and areas where heavy traffic or weather conditions may deteriorate insulation around piping or equipment will be performed once per year (see Appendix C). All known ACBM locations will be inspected every three years, along with the once a year inspection, per Appendix A and B. These inspections will be performed by the Preventive Maintenance Procedure, PMP 21-A-M01, "Inspection of Asbestos-Containing Building Material (ACBM)."

6.0 FUTURE MATERIAL/INSULATION INSTALLATION

All material and/or insulation that is installed in the facility shall be asbestos free if at all possible. If an ACBM or other asbestos containing material is used within the boundaries of this document, it will be reported to the Engineering Asbestos Engineer for documentation.

APPENDIX A: SUSPECT ACBM LOCATION SAMPLING

General Notes

1. Asbestos-containing building materials (ACBM) (one percent or more asbestos) are warning tagged/stickered or painted pink. Pink coating may be overlaid with a white insulation outer layer.
2. Samples that have been taken from either the East, West or South Dump Heat Exchanger (DHX) will be present in the other two DHX buildings.

Reference: Gaskets located behind windows and lamp mounts or between access plates and different structure modules.

3. Wiring in cable trays that have been coated with ACBM are shown in two Picture/ Locations (room 108, Picture/Location 93 and room 365, Picture/Location 143). All other cable trays located through the plant with sprayed on material must be treated as ACBM.
4. Floor tiles are sampled per color. Match the color in the Picture/Location to the existing tile. All rooms and hall are not identified in this report. See Picture/Location numbers 50, 130, 135, 144, 153, 158, 160, 161, and 163.

NOTE: Positive floor tiles and/or ceiling tiles are not marked as ACBM. All floor tiles in the main Fast Flux Test Facility (FFTF) building where suspected to have asbestos in them or their adhesive, have been overlaid.

5. Gaskets that contain asbestos and that are located in closed cells are not identified by Picture/Location number (reference Picture/Location 152 of cell entrance, for Connector Box Seals, H-4-16067, in cell 489). Other gaskets in closed cells are listed on H-4-16067.
6. Adverse Insulated Cable (yellow painted wire, TM 1, and white wire, Q12) as shown in Picture/Location 149 for yellow and 148 for white are located throughout the plant. These cables are mainly used for heat trace.

NOTE: Inner layer of material on both wires is ACBM.

7. Black Mastic coating on piping, tanks, and ductwork, usually located outside, is ACBM. Specific Picture/Location 1-16, 27, 36, 45, 47, 48, 63, 64, 65, 69, 71, 102, 104, 105, 120, 124, 129, 141 and 151 show this material, but all other locations are to be treated as ACBM.

8. Brake shoes manufactured for hoists, trolleys and bridge drives that are in place and in the 400 store stock (Building 4732) shall be treated as ACBM until proved otherwise (see Picture/Location numbers 147 and 150).
9. The expansion joint material for the oil-fired heaters in the DHXs are known to be ACBM and shall be handled as such. The asbestos percentage is not known at this time, but will be sampled as required. See drawing number 71-02-40265F151, Raybestos-Manhattan.
10. Buried cable may be contained within pipe made with asbestos. Upon excavation or repair, be aware of possible ACBM in the 400 Area.

SUSPECT ACBM LOCATION SAMPLING/FFTF-400 AREA			
Picture/ Item No.	Building- Cell/Room or Location	Object and/or Location in Cell or Room	Comments/Condition
01	4713D, Outside/South	HVAC duct and filter Southeast side- inside fence at ground level.	18-24% Asbestos HEHF Co. 16699M repaired November 1992.
02	4713D, Building/Roof	Edge of duct Southeast side-inside fence at ground level.	18-24% Asbestos HEHF Co. 16699M repaired November 1992
03	4713D, Building/Roof	Looking Northwest from top of ladder on south side of building.	18-24% Asbestos HEHF Co. 16699M repaired November 1992
04	4713D, Building/Roof	Looking due west from top of ladder on south side of building.	18-24% Asbestos HEHF Co. 16699M repaired November 1992
05	484, Inside	Air separator U-606 550 foot elevation.	3-8% Asbestos HEHF Co. 16595/see FO-2902A
06	484, Inside	Air separator U-606 550 foot elevation.	3-8% Asbestos HEHF Co. 16595 see FO-2902/A
07	484, Inside	Air separator U-480 550 foot elevation.	3-8% Asbestos HEHF Co. 16595 repaired 7/94
08	484, Inside	Air separator U-479 550 foot elevation.	3-8% Asbestos HEHF Co. 16595 repaired 7/94
09	484, Inside	Tank T-190 550 foot elevation.	3-8% Asbestos HEHF Co. 16595 see FO-2902/A.
10	484, Inside	Top of Tank T-190 550 foot elevation.	3-8% asbestos HEHF Co 16595 see FO-2902/A
11	484, Inside	Tank T-193 550 foot elevation.	3-8% asbestos HEHF Co 16678 see FO-2902/A
12	484, Inside	Tank T-193 550 foot elevation.	10-20% asbestos HEHF Co 16678 see FO-2902/A
13	484, Inside	Tank T-97A 550 foot elevation.	15-20% asbestos HEHF Co 16678 see FO-2902/A
14	484, Inside	Tank T-97A 570 foot elevation.	15-20% asbestos HEHF Co 16678 see FO-2902/A
15	484, Inside	Tank T-97A 570 foot elevation.	15-20% asbestos HEHF Co 16678 see FO-2902/A
16	484, Inside	Tank T-97B 570 foot elevation.	15-20% asbestos HEHF Co 16678 see FO-2902/A
17	484, Inside	Pump P-237 550 foot elevation.	No asbestos present HEHF Co 18793
18	484, Inside	Pump P-236 550 foot elevation.	No asbestos present HEHF Co 18793

ACRONYMS:

ACBM - Asbestos-Containing Building Material; HVAC - Heating, Ventilation and Air Conditioning; HEHF - Hanford Environmental Health Foundation; DHX - Dump Heat Exchanger; IVHM - In-vessel Handling Machine; PIC - Person-in-Charge; FSF - Fuel Storage Facility.

SUSPECT ACBM LOCATION SAMPLING/FFTF-400 AREA			
Picture/ Item No.	Building- Cell/Room or Location	Object and/or Location in Cell or Room	Comments/Condition
19	484, Inside	Valve 23-V-3013 550 foot elevation.	No asbestos present HEHF Co 18793
20	484, Inside	Valve 23-V-3303 at elbow 550 foot elevation	No asbestos present HEHF Co 18793
21	484, Inside	Valve 23-V-3004 at elbow 550 foot elevation	No asbestos present HEHF Co 18793
22	484, Inside	Evaporator E-144, 550 foot elevation	No asbestos present HEHF Co 18793
23	484, Inside	Evaporator E-145, 550 foot elevation	No asbestos present HEHF Co 18793
24	408A	550 foot level lights and sight port gasket near ladder RL-DHX-E-11	95-98% asbestos HEHF Co 18793
25	408A	Same item as above	95-98% asbestos HEHF Co 18793
26	408A	Insulation block material behind metal flashing E-9 570 foot elevation northeast corner	1% asbestos HEHF Co 16580
27	408A	Pipe traps P80 OR P143 three places 530 foot level elevation Blackmastic	20-23% asbestos HEHF Co 18813
28	408A	Part of red rubber at E-6 fabric expansion fan/isolate "White fibrous rope" 530 foot level elevation	40-45% asbestos HEHF Co 18813
29	408A	Tan fibrous insulation-Part of above at E-6	80-85% asbestos HEHF Co 18813
30	408A	View port light gasket at E-7 East, 550 foot elevation	40-45% asbestos HEHF Co 18813
31	408A	Manway gasket at E-7 East, 530 foot elevation	24-27% asbestos HEHF Co 18813
32	408A	Rope gasket from Q-3 vent fan, 530 foot elevation	60-65% asbestos HEHF Co 18813
33	408A	Sample from farside of Q-1 preheater at circ fan bearing, 530 foot elevation	No asbestos present HEHF Co 18813
34	408A	"White gasket material" sample from Q-1 vent fan, 530 foot elevation	30-40% asbestos HEHF Co 18813
35	408A	Sample from service air piping at southwest corner 530 foot elevation below stairs	No asbestos present HEHF Co 18813
36	408A	Black tar near R-807 roof, 555 foot elevation	5-7% present HEHF Co 18804

ACRONYMS:

ACBM - Asbestos-Containing Building Material; HVAC - Heating, Ventilation and Air Conditioning; HEHF - Hanford Environmental Health Foundation; DHX - Dump Heat Exchanger; IVHM - In-vessel Handling Machine; PIC - Person-in-Charge; FSF - Fuel Storage Facility.

SUSPECT ACBM LOCATION SAMPLING/FFTF-400 AREA			
Picture/ Item No.	Building- Cell/Room or Location	Object and/or Location in Cell or Room	Comments/Condition
37	408A, E-5	Tan fibrous insulation from light and sight view ports, 530 foot elevation near ladder L-DHX-E15	95-98% asbestos HEHF Co 18804
38	408A, E-5	Tan fibrous insulation from light and sight view ports, 530 foot elevation near ladder L-DHX-E16	95-98% asbestos HEHF Co 18804
39	408A, E-5	Tan fibrous insulation from light and sight view ports, 500 foot elevation near ladder L-DHX-E16	95-98% asbestos HEHF Co 18804
40	408A, E-5	Tan fibrous insulation from manway 530 foot elevation near GPE-377	95-98% asbestos HEHF Co 18804
41	408A, E-4	Tan fibrous insulation from light and sight view ports, 530 foot elevation near ladder L-DHX-E-4	80-85% asbestos HEHF Co 18804
42	408A, E-5	Sprayed on insulation 570 foot elevation above	No asbestos present HEHF Co 18816
43	408A, E-5	Sprayed on insulation 570 foot	No asbestos present HEHF Co 18816
44	408A, E-5	Gasket material around light and sight view port hole, 550 foot elevation near ladder L-DHX-E-18	80-90% asbestos HEHF Co 18816
45	408A, E-5	White gasket material around light and sight view ports, 550 foot elevation near ladder L-DHX-23	95-98% asbestos HEHF Co 18816
46	408A, E-6	Ceramic fiber, 550 foot elevation	No asbestos present HEHF Co 18816
47	Southeast Outside 491E, U-781-A	Black tar paper and white powder southeast corner of auxiliary east containment margins equipment	4-10% asbestos HEHF Co 18816 over all composition
48	Southeast Outside of 491, U-781B	Black fibrous tar paper southeast corner of auxiliary east containment margins equipment	16-24% asbestos HEHF Co 18816
49	Southeast Outside of 491E, U-781-C	Black fibrous tar paper and tan fibrous clumps southeast corner of auxiliary east containment margins equipment	16-24% asbestos HEHF Co 18816 over all composition
50	4713-D, all locations	Green floor tiles manipulator shop, east end	2-4% chrysotile asbestos HEHF Co 18926 redo

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SUSPECT ACBM LOCATION SAMPLING/FFTF-400 AREA			
Picture/ Item No.	Building- Cell/Room or Location	Object and/or Location in Cell or Room	Comments/Condition
51	409B, E-76	Red expansion point material-four places southwest corner	35-40% asbestos HEHF Co 18834
52	409B, E-76	Cloth material southwest corner at pipe penetration in slab	No asbestos present HEHF Co 18834
53	409B, E-76	Black gasket material southwest corner	40-45% asbestos HEHF Co 18834
54	409B, E-76	Black gasket material around light and sight port southwest corner	40-45% asbestos HEHF Co 18834
55	409B, E-76	Red rubber gasket shroud southeast corner	20-30% asbestos HEHF Co 18834
56	409B, E-76	Gasket material around light and sight port windows	20-30% asbestos HEHF Co 18834
57	409B, E-76	CERA blanket behind stainless flashing at fan damper	No asbestos present HEHF Co 18834
58	408B, E-76	Red canvas material at the 570 foot level CLS dump heat exchangers preheater exhaust	14-21% asbestos over all composition HEHF Co 18834
59	409B, E-76	Black gasket material at the 570 foot level around light and sight port windows	40-60% asbestos HEHF Co 18834
60	409B, E-76	Gasket material at the 570 foot level around windows	50-65% asbestos HEHF Co 18834
61	409A, Roof	Roof material near R-1 outside on roof on northeast side	15-20% asbestos HEHF Co 18834, repaired October 1993
62	409A, Roof	Gasket material near R-1 outside on roof on north side, east of low roof	No asbestos present HEHF Co 18834
63	409A, Roof	Insulkote mud on fuel oil piping elbow near R-3 outside on roof northeast side	6-12% asbestos HEHF Co 18834
64	491-E, Roof	Outer layer of duct covering southeast corner near E-615	No asbestos present HEHF Co 18837 repaired October 1993
65	491-E, Roof	Inner layer of duct covering southeast corner near E-615	15-20% present HEHF Co 18837 repaired October 1993
66	491-E, Roof	Roof walk pads at all locations	5-8% asbestos HEHF Co 18837 repaired October 1993
67	491-E, Roof	Mud on elbows southwest corner	No asbestos present HEHF Co 18862 repaired October 1993

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SUSPECT ACBM LOCATION SAMPLING/FFTF-400 AREA			
Picture/ Item No.	Building- Cell/Room or Location	Object and/or Location in Cell or Room	Comments/Condition
68	491-E, Roof	Mud on valves southwest corner	No asbestos present HEHF Co 18862
69	4621-W, Roof lower	West roof above E-68 air conditioner black Insulkote on duct	5-8% asbestos HEHF Co 18862 repaired October 1993
70	4621-W, Roof lower	West roof - mud on elbow at E-68 air conditioner	No asbestos present HEHF Co 18862
71	4621-W, Roof lower	Black Insulkote at 25-BD-0701	3-5% asbestos HEHF Co 18862 repaired October 1993
72	4621-W, Roof lower	Black walkway at E-67 air conditioner	No asbestos present HEHF Co 18862 repaired October 1993
73	491-S, Roof lower	Mud elbow at deionized water pipe near elbow asbestos found at other elbow. All insulation removed February 1995 per work package 4F-91-1984/W	No asbestos present HEHF Co 18862
74	4621-W, Roof lower	Expansion joint at E-68 air conditioner	20-25% asbestos HEHF Co 18862
75	405, Cell 578	Mud from elbow at E-202 cooler see Pic/Item 66	No asbestos present HEHF Co 18868
76	405, Cell 578	Mud from elbow at E-216	No asbestos present HEHF Co 18868
77	405, Cell 578	Mud on elbow by rack 168	No asbestos present HEHF Co 18868
78	405, Cell 578	Mud on flange by rack 164	No asbestos present HEHF Co 18868
79	403, Room 900	Ceiling tiles in control room	No asbestos present HEHF Co 18868
80	403, Room 900	Fireproofing on steel above control room ceiling	No asbestos present HEHF Co 18868
81	403, Cell 564	Fire retardant on top of C-840A preheat power control panel	No asbestos present HEHF Co 18874
82	405, Cell 561	Mud elbow from near E-201R cooler	No asbestos present HEHF Co 18874
83	405, Cell 577	Mud elbow E-215 cooler	No asbestos present HEHF Co 18874
84	405, Cell 572	Mud blank from near SV-87950	No asbestos present HEHF Co 18874
85	491-S, Room 484	Dip Lag and mud at elbow from TV-86527	No asbestos present HEHF Co 18874
86	491-S, Room 484	Dip-lab and mud at elbow 23-V-4385	No asbestos present HEHF Co 18874
87	491-S, Room 484	Fire retardant spray on C-986 control cabinet	No asbestos present HEHF Co 18874

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SUSPECT ACBM LOCATION SAMPLING/FFTF-400 AREA			
Picture/ Item No.	Building- Cell/Room or Location	Object and/or Location in Cell or Room	Comments/Condition
88	4621-E, Room 309	Mud on elbow near valve 23-V-1209	No asbestos present HEHF Co 18920
89	4621-E, Room 309	Mud on elbow near diesel generator tag E-340	No asbestos present HEHF Co 18920
90	4703, Room 121	Ceiling tiles at FFTF main entrance	No asbestos present HEHF Co 18920
91	4703, Room 106	Ceiling tiles above valve 26-V-503	No asbestos present HEHF Co 18920
92	4703, Room 108	Elbow/straight piece near PI-70031	No asbestos present HEHF Co 18920
93	4703, Room 108	Flammastic material on cable tray near hanger 108-1-02	1-2% asbestos HEHF Co 18920
94	4703, Room 101	Mud on valve 23-V-4356	No asbestos present HEHF Co 18920
95	4621-E, Room 331	Mud on elbow near valve 23-V-2746	No asbestos present HEHF Co 18926
96	4621-E, Room 331	Mud on elbow near TV-85456	No asbestos present HEHF Co 18926
97	4621-E, Room 331	Motor control center cabinet B-20 sprayed on flammastic	No asbestos present HEHF Co 18926/19070
98	4621-E, Room 332	Mud on elbow near tag E-521	No asbestos present HEHF Co 18926
99	4621-E, Room 332	Mud on flange on E-519	No asbestos present HEHF Co 18926
100	408A	EL530 mud from DHX-Q2 heater by R-831 induced draft fan	No asbestos present HEHF Co 18926
101	408A	EL530 mud from DHX-Q2 heater by R-831 induced draft fan	No asbestos present HEHF Co 18926
102	408A	EL560 DHX-east roof outside tag 23-V-5135 black Insulokote	5-10% Chrysotile asbestos HEHF Co 18926
103	4717, 258	Elbow tank T-13A	No asbestos present HEHF Co 18930
104	4717, 258	Black insulation from top T-13A	3-8% asbestos HEHF Co 18930
105	4717, 258	Black insulation top of tank T-13B	3-8% Chrysotile asbestos HEHF Co 18930

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SUSPECT ACBM LOCATION SAMPLING/FFTF-400 AREA			
Picture/ Item No.	Building- Cell/Room or Location	Object and/or Location in Cell or Room	Comments/Condition
106	4717, 258	Mud elbow on instrument air line tag 23-V-4169	No asbestos present HEHF Co 18930
107	4717, 258	Insulation from tower tank T-194 Tower 1	No asbestos present HEHF Co 18930
108	4717, 258	Insulation from top of the T-25 tower	No asbestos present HEHF Co 18930
109	4717, 258	Insulation from tower T-194 Tower 2 drain hole at knee level	3-5% asbestos HEHF Co 18930
110	4621-W, Room 366	Insulation from lube oil cooler tag E-320	No asbestos present HEHF Co 18948
111	4621-W, Room 366	Insulation from elbow tag VDPHG6093A	No asbestos present HEHF Co 18948
112	4621-W, Room 366	Insulation from trap tag 23-V-1820	No asbestos present HEHF Co 18948
113	4621-W, Room 366	Insulation from trap tag 1592	No asbestos present HEHF Co 18948
114	4621-W, Room 365	Insulation from flange tag E-651	No asbestos present HEHF Co 18941
115	4621-W, Room 365	Insulation from elbow tag E-652	No asbestos present HEHF Co 18948
116	4621-W, Room 365	Insulation from plus tag VFE75689B	No asbestos present HEHF Co 18948
117	4621-W, Room 354	Insulation from elbow on chilled water line at tree	No asbestos present HEHF Co 18955
118	4621-W, Room 356	Insulation from elbow on chilled water line tag 356-1-04	No asbestos present HEHF Co 18955
119	4621-W, Room 361	Insulation from valve tag 23-V-4373	No asbestos present HEHF Co 18955
120	436, Outside	Black insulation on duct East side of building	10-20% asbestos HEHF Co 18958
121	436, Outside	Insulation cloth material from duct work East side of building	No asbestos present HEHF Co 18958
122	491-S, Cell 497	Insulation from EM pump blower R188	No asbestos present HEHF Co 18958
123	408B	Q-6 induced draft fan asbestos gasket material	10-20% Chrysotile asbestos HEHF Co 18960

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SUSPECT ACBM LOCATION SAMPLING/FFTF-400 AREA			
Picture/ Item No.	Building- Cell/Room or Location	Object and/or Location in Cell or Room	Comments/Condition
124	483	Insulation from elbow below box GAB3	No asbestos present HEHF Co 18982
125	481	Gasket material on fire prot. Water line FE-68014	60-80% Chrysotile HEHF Co 18982
126	4717, Cell 244	Mud from valve by tank U-604	No asbestos present HEHF Co 18982
127	403, Cell 902	Mud on flange by tag 0411-05BB	No asbestos present HEHF Co 18994
128	491-W, Cell 435	Mud by hanger on secondary sodium line by tag Q 46 950-B	No asbestos present HEHF Co 18994
129	4621-W, Room 366	Black material north west corner by wall cooling water line heat trace throughout floor	5-8% Chrysotile HEHF Co 19007
130	405, 501	Floor tile IVHM control room	No asbestos present HEHF Co 19016
131	405, 501	Ceiling panel IVHM control room	No asbestos present HEHF Co 19016
132	405, 501	Ceiling panel IVHM control room	No asbestos present HEHF Co 19016
133	405, 500	Valve on chill water line by air cooler E-26	No asbestos present HEHF Co 19016
134	405, 500	Valve on chill water line tag 23-V-1456 by air cooler E-26	No asbestos present HEHF Co 19016
135	437, Stairwell #2	Floor tile in stairwell #2 by door 121	No asbestos present HEHF Co 19020
136	437, Cell #3	Large diameter cleaning vessel at valve asbestos present behind metal skin	No asbestos present HEHF Co 19020
137	437, Cell #3	Large diameter cleaning vessel asbestos present behind metal skin	No asbestos present HEHF Co 19020
138	408A, E-5	570 foot elevation fabric gasket (metal) to (metal) southeast corner E-5 damper frame	No asbestos present HEHF Co 19021
139	408A, E-5	565 foot elevation manway gasket into E-5 white fibrous gasket	90-95% Chrysotile asbestos HEHF Co 19021
140	481	Fire line gasket at east end of building outside	80-90% Chrysotile HEHF Co 19053
141	4621-W, 365	Firewater line into room 365 by heat trace box tag S-68	10-15% Chrysotile HEHF Co 19053, Recovered November 1997
142	4621-W, 365	Flammastic on cable trays BNO1N5 by B90	3-5% Chrysotile HEHF Co 16627/Co 19053

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SUSPECT ACBM LOCATION SAMPLING/FFTF-400 AREA			
Picture/ Item No.	Building- Cell/Room or Location	Object and/or Location in Cell or Room	Comments/Condition
143	4621-W, 365	Flammastic on B90 electrical unit (top)	3-5% Chrysotile HEHF Co 16627/Co 19053
144	4713-B	Door at loading dock floor tile and black mastic	Black mastic 15-18% Chrysotile HEHF Co 19053
145	4713-B, 143	Valve repair shop floor tile	No asbestos present HEHF Co 19053
146	491-E, Cell 419	White ceramic fiber by tag 27-V-0001	No asbestos present HEHF Co 19070
147	Any	Crane brake shoe "old" (sent to scrap)	20-50% Chrysotile HEHF Co 19070
148	Any	Anaconda/Hayeg power and control cable "white"	Inner white wrap 100% Chrysotile HEHF Co 19070
149	Any	"Yellow" power cable	Yellow covering 95-98% Chrysotile HEHF Co 19070
150	Any	"New" crane brake shoe (located in stores)	No asbestos present HEHF Co 19070
151	483	Elbows on cooling towers "black fibrous tar"	No asbestos present HEHF Co 19070
152	491-S, Cell 489 530 level	White gasket material on inert gad ducts (previous sample taken)	Room closed no entry 55-70% Chrysotile HEHF Co 16853
153	491-E, 438	White floor tile	2-4% Chrysotile HEHF Co 19070
154	4713-A, Hallway	White floor tile	1-2% Chrysotile HEHF Co 19070
155	4710, Roof	Black tar with silver paint	No asbestos present HEHF Co 19072
156	491-E, 418	Liquid rheostat housing inside cabinet	Asbestos in housing amount unknown
156	491-E, 429	Liquid rheostat housing inside cabinet	Asbestos in housing amount unknown
156	491-E, 447	Liquid rheostat housing inside cabinet	Asbestos in housing amount unknown
157	483, East off paid	Valve box cover removed ACM October 1994	40-50% Chrysotile HEHF Co 18006
158	4703, 136	Tile and adhesive at drain floor hole	2-4% Chrysotile HEHF Co 19086
159	4703, 136	Light gray floor tile	No asbestos present HEHF Co 19086
160	4713-B, North hallway	Floor tile in electrical shop	No asbestos present HEHF Co 19086
161	4621-E, 323	Green floor tile	2-4% Chrysotile HEHF Co 19086
162	4621-E, 319	Black wall guard at tornado door 130	No asbestos present HEHF Co 19086
163	491-E, 438	White/tan floor tile	2-5% Chrysotile HEHF Co 19086

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SUSPECT ACBM LOCATION SAMPLING/FFTF-400 AREA			
Picture/ Item No.	Building- Cell/Room or Location	Object and/or Location in Cell or Room	Comments/Condition
164	408A, Q-2	Expansion joint on Q-2 preheater at 545 foot level no sample taken-same material as Pic/Item No. 037 or 040	95-98% Chrysotile HEHF Co 18813
165A	408-B, Q-6	Outer door gasket on Q-6 preheater	No asbestos present HEHF Co 19021
165B	408-B, Q-6	Inner door gasket on Q-6 preheater	No asbestos present HEHF Co 19021
166	4842-B	Sheets on inside of motor control center doors B130 and B131	95-98% Chrysotile HEHF Co 17299
167	4703, 136	White/tan floor tile repaired September 1994 replaced 16 tiles	2-5% Chrysotile same as 163
168	4621E, 323	White/tan floor tile repaired September 1994 encapsulated/overlay	2-5% Chrysotile same as 163
169	4717	Tower (recovered)	
170	4621E, 332	Adhesive and gasket at HEPA filter door	Approximately 1% Chrysotile HEHF Co 21342
171	4717	Solid waste cask (old)	25-35% Chrysotile W95100L093
172	403, Cell 912	Pipe and elbow, FSF, NAK drain	No asbestos present
173	403, Cell 912	Housing, heat exchanger, NAK drain	No asbestos present
174	405	CLEM brake shoes	Typical brake composite
175	4703, 136	Before and after-control room floor	See picture no. 158
176	4703, 104	Chilled water line 1-1/2" elbow	No asbestos present, W961002468
177	4703, 254	Chilled water line 4" elbow	No asbestos present, W961002469
178	4717, 258	R189 Compressor 1st stage upper gasket-to be changed	Assumed asbestos gasket
179	491 W, 457	Dried roof tar droppings.	No asbestos present
180	408B, E-10	Reused old asbestos gasket	Reworked January 1998
181	408B, E-8	New (non-asbestos) gasket	Replaced January 1998
182	4713B, Cage Lockup	Resistive load bank cards total five units—three will be changed out and two units are tagged asbestos containing.	See electrical shop supervisor.
183	Many locations	Sump Tank Covers Gasket	Removed by work package 4F-98-1179/W.
184	Many locations	Cell to Valve Gaskets	Encapsulated by work package 4F-98-1290/W.

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SUSPECT ACBM LOCATION SAMPLING/FFTF-400 AREA			
Picture/ Item No.	Building- Cell/Room or Location	Object and/or Location in Cell or Room	Comments/Condition
185	4717/235	Sight Glass Gaskets @ 503' – 0" level	From vendor info, asbestos gaskets, see Brian Berglin.
186	4621W/369	ARC Chutes have asbestos liners for 131.87 Kv breakers.	From vendor info, see Ron Shaffer.
187	4717/212	Chilled water piping and elbows re-insulated.	No asbestos present, WSCF 98001646.
188	4717/221	Chilled water piping and elbows re-insulated.	No asbestos present, WSCF 98001646.
189	4717/244	Chilled water piping and elbows re-insulated.	No asbestos present, WSCF 98001646.
190	4717/Roof	RSB roof pads	No asbestos present, WSCF 991000365.
191	4717/Roof	RSB extension roof material.	No asbestos present, WSCF 991000365.
192	4717/Roof	RSB main roof material.	No asbestos present, WSCF 991000367.

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APPENDIX B: CURRENT IDENTIFIED ACBM LOCATIONS AND BUILDINGS

CURRENT IDENTIFIED ACBM LOCATIONS AND BUILDINGS				
Bldg	Room	Loc	Detailed Location and Identification	Picture Number
403	916	1	Bridge crane M-900 brake shoes	147
	902	2	White cloth cable coating-trace heat	148
	903	3	White cloth cable coating-trace heat	148
	905	4	White cloth cable coating-trace heat	148
405	500	1	Polar crane M-4 brake shoes	147
	-	2	Flammastic coating on cable trays at numerous locations	93
	-	3	Flammastic coating at cable entry to motor control center and panels	143
	-	4	Asbestos baskets in inert gas cooling piping flanges inside inert cells to be sampled when accessible	152
	-	5	Fibrous yellow and white cable coating at numerous locations in building for trace heating, thermocouple and servers environment power wiring-see H4-16061, H4-16062	148,149
	--	--	CLEM brake shoes (typical brake composite)	174
408A	-	1	E-4 530 foot elevation-three light/sight ports, three gaskets each light and sight-Total 18	38,39, 41
	-	2	E-5 530 foot elevation-three light/sight ports, three gaskets each light and sight-Total 18	38,39,41
	-	3	E-6 530 foot Elevation-three light/sight ports, three gaskets each light and sight-Total 18	38,39,41
	-	4	E-7 530 foot elevation-three light/sight ports, three gaskets each light and sight-Total 18	38,39,41
	-	5	E-4 530 foot elevation-two manways-gasket ea	40
	-	6	E-5 530 foot elevation-two manways-gasket ea	40
	-	7	E-6 530 foot elevation-two manways-gasket ea	40
	-	8	E-7 530 foot elevation-two manways-gasket ea	40
	-	9	E-4 530 foot elevation-fan/iso gate expansion joint	28,29
	-	10	E-5 530 foot elevation-fan/iso gate expansion joint	28,29
	-	11	E-6 530 foot elevation-fan/iso gate expansion joint	28,29
	-	12	E-7 530 foot elevation-fan/iso gate expansion joint	28,29
	-	13	Q-1 preheater enclosure 530 foot elevation-three gaskets-induced draft fan, ventilation fan and burner drawer	32,34, 102,123
	-	14	Q-2 preheater enclosure 530 foot elevation-three gaskets-induced draft fan, ventilation fan and burner drawer	32,34,102, 123
	-	15	Q-3 Preheater enclosure 530 foot elevation-three gaskets-induced draft fan, ventilation fan and burner drawer	32,34,102, 123
	-	16	Q-4 Preheater enclosure 530 foot elevation-three gaskets-induced draft fan, ventilation fan and burner drawer	32,34,102, 123
	-	17	530 foot elevation-fuel oil pumps P-80, P-143 black mastic at numerous locations	27
	-	18	Q-1 Preheater outside-economizer return under insulation-two gaskets	165
	-	19	Q-2 Preheater outside-economizer return under insulation-two gaskets	165

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CURRENT IDENTIFIED ACBM LOCATIONS AND BUILDINGS				
Bldg	Room	Loc	Detailed Location and Identification	Picture Number
408A	-	20	Q-3 Preheater outside-economizer return under insulation-two gaskets	165
	-	21	Q-4 Preheater outside-economizer return under insulation-two gaskets	165
	-	22	Q-1 Preheater 545 foot elevation-outlet expansion joint	164
	-	23	Q-2 Preheater 545 foot elevation-outlet expansion joint	164
	-	24	Q-3 Preheater 545 foot elevation-outlet expansion joint	164
	-	25	Q-4 Preheater 545 foot elevation-outlet expansion joint	164
	-	26	E-4 555 foot elevation light/sight viewpoints 10 ports-one gasket port-Total 20 port-Total 20	30,44,45
	-	27	E-5 555 foot elevation light/sight viewpoints 10 ports-one gasket port-Total 20 port-Total 20	30,44,45
	-	28	E-6 555 foot elevation light/sight viewpoints 10 ports-one gasket port-Total 20 port-Total 20	30,44,45
	-	29	E-7 555 foot elevation light/sight viewpoints 10 ports-one gasket port-Total 20 port-Total 20	30,44,45
	-	30	E-4 555 foot elevation-manway gasket-header	139
	-	31	E-5 555 foot elevation-manway gasket-header	139
	-	32	E-6 555 foot elevation-manway gasket-header	139
	-	33	E-7 555 foot elevation-manway gasket-header	139
	-	34	E-4 565 foot elevation-light/sight viewpoints four locations at ladders-three gaskets each port Total 24	45
	-	35	E-5 565 foot elevation-light/sight viewpoints four locations at ladders -three gaskets each port Total 24	45
	-	36	E-6 565 foot elevation-light/sight viewpoints four locations at ladders -three gaskets each port Total 24	45
	-	37	E-7 565 foot elevation-light/sight viewpoints four locations at ladders -three gaskets each port Total 24	45
	-	38	E-4 572 foot elevation-manway gasket-stack	45
	-	39	E-5 572 foot elevation-manway gasket-stack	139
	-	40	E-6 572 foot elevation-manway gasket-stack	139
	-	41	E-7 572 foot elevation-manway gasket-stack	139
	-	42	E-4 570 foot elevation-flat gasket damper assembly to stack-top to bottom	138
	-	43	E-5 570 foot elevation-flat gasket damper assembly to stack top to bottom	138
	-	44	E-6 570 foot elevation-flat gasket damper assembly to stack top to bottom	138
	-	45	E-7 570 foot elevation-flat gasket damper assembly to stack-top to bottom	138
	-	46	E-4 570 foot elevation-insulation block at dampers behind metal sheeting	26
	-	47	E-5 570 foot elevation-insulation block at dampers behind metal sheeting	26
	-	48	E-6 570 foot elevation-insulation block at dampers behind metal sheeting	26
	-	49	E-7 570 foot elevation-insulation block at dampers behind metal sheeting	26
-	50	555 foot elevation-west roof E-807 duct black mastic coating (east DHX only)	36	

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CURRENT IDENTIFIED ACBM LOCATIONS AND BUILDINGS				
Bldg	Room	Loc	Detailed Location and Identification	Picture Number
408A	-	51	555 foot elevation-north pipe tunnel roof black insulcote on valve 23-V-5135	102
	-	52	545 foot elevation-pipe tunnel roof material	61
	-	53	Numerous cable tray locations-yellow fibrous cable coating	149
408B	-	1	E-8 530 foot elevation-three light/sight ports-three gaskets each light and sight-Total 18	38,39,41
	-	2	E-9 530 foot elevation-three light/sight ports-three gaskets each light and sight-Total 18	38,39,41
	-	3	E-10 530 foot elevation-three light/sight ports-three gaskets each light and sight-Total 18	38,39,41
	-	4	E-11 530 foot elevation-three light/sight ports-three gaskets each light and sight-Total 18	38,39,41
	-	5	E-8 530 foot elevation-two manways-gasket ea	40
	-	6	E-9 530 foot elevation-two manways-gasket ea	40
	-	7	E-10 530 foot elevation-two manways-gasket ea	40
	-	8	E-11 530 foot elevation-two manways-gasket ea	40
	-	9	E-8 530 foot elevation-fan/iso gate expansion joint	28,29
	-	10	E-9 530 foot elevation-fan/iso gate expansion joint	28,29
	-	11	E-10 530 foot elevation-fan/iso gate expansion joint	28,29
	-	12	E-11 530 foot elevation-fan/iso gate expansion joint	28,29
	-	13	Q-5 preheater enclosure 530 foot elevation-three gaskets-induced draft fan, ventilation fan and burner drawer	32,34,102, 123
	-	14	Q-6 preheater enclosure 530 foot elevation-three gaskets-induced draft fan, ventilation fan and burner drawer	32,34,102, 123
	-	15	Q-7 preheater enclosure 530 foot elevation-three gaskets-induced draft fan, ventilation fan and burner drawer	32,34,102, 123
	-	16	Q-8 preheater enclosure 530 foot elevation-three gaskets-induced draft fan, ventilation fan and burner drawer	32,34,102, 123
	-	17	530 foot elevation-fuel oil pumps P-81, P-144 black mastic at numerous locations	27
	-	18	Q-5 preheater outside economizer return under insulation-two gaskets	165
	-	19	Q-6 preheater outside economizer return under insulation-two gaskets	165
	-	20	Q-7 preheater outside economizer return under insulation-two gaskets	165
	-	21	Q-8 preheater outside economizer return under insulation-two gaskets	165
	-	45	E-11 570 foot elevation-flat gasket-damper assembly to stack top to bottom	138
	-	46	E-8 570 foot elevation-insulation block at dampers behind metal sheeting	26
	-	47	E-9 570 foot elevation-insulation block at dampers behind metal sheeting	26
-	48	E-10 570 foot elevation-insulation block at dampers behind metal sheeting	26	
-	49	E-11 570 foot elevation-insulation block at dampers behind metal sheeting	26	
-	50	555 foot elevation-north pipe tunnel roof black insulcote in valve 23-V-5124	102	
-	51	545 foot elevation-pipe roof material	61	

ACRONYMS:

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CURRENT IDENTIFIED ACBM LOCATIONS AND BUILDINGS				
Bldg	Room	Loc	Detailed Location and Identification	Picture Number
408B	-	52	Numerous cable tray locations-yellow fibrous cable coating	149
	-	53	Inspection ports-upper	180,181
408C	-	1	E-12 530 foot elevation-one light/sight port-three gaskets each light and sight-Total 18	38,39,41
	-	2	E-13 530 foot elevation-one light/sight port-three gaskets each light and sight-Total 18	38,39,41
	-	3	E-14 530 foot elevation-one light/sight port-three gaskets each light and sight-Total 18	38,39,41
	-	4	E-15 530 foot elevation-one light/sight ports-three gaskets each light and sight-Total 18	38,39,41
	-	5	E-12 530 foot elevation-two manways-gasket each	40
	-	6	E-13 530 foot elevation-two manways-gasket each	40
	-	7	E-14 530 foot elevation-two manways-gasket each	40
	-	8	E-15 530 foot elevation-two manways-gasket each	40
	-	9	E-12 530 foot elevation-fan/iso gate expansion joint	28,29
	-	10	E-13 530 foot elevation-fan/iso gate expansion joint	28,29
	-	11	E-14 530 foot elevation-fan/iso gate expansion joint	28,29
	-	12	E-15 530 foot elevation-fan/iso gate expansion joint	28,29
	-	13	Q-9 preheater enclosure 530 foot elevation-two gaskets-induced draft fan, ventilation fan and burner drawer	31,34,102, 123
	-	14	Q-10 preheater enclosure 530 foot elevation-two gaskets-induced draft fan, ventilation fan and burner drawer	31,34,102, 123
	-	22	Q-5 preheater 545 foot elevation-outlet expansion joint	164
	-	23	Q-6 preheater 545 foot elevation-outlet expansion joint	164
	-	24	Q-7 preheater 545 foot elevation-outlet expansion joint	164
	-	25	Q-8 preheater 545 foot elevation-outlet expansion joint	164
	-	26	E-8 555 foot elevation-light/sight viewpoints 10 ports-one gasket port-Total 20	30,44, 45
	-	27	E-9 555 foot elevation-light/sight viewpoints 10 ports-one gasket port-Total 20	30,44, 45
	-	28	E-10 555 foot elevation-light/sight viewpoints 10 ports-one gasket port-Total 20	30,44, 45
	-	29	E-11 555 foot elevation-light/sight viewpoints 10 ports-one gasket port-Total 20	30,44, 45
	-	30	E-8 555 foot elevation-manway gasket-header	139
	-	31	E-9 555 foot elevation-manway gasket-header	139
	-	32	E-10 555 foot elevation-manway gasket-header	139
	-	33	E-11 555 foot elevation-manway gasket-header	139
	-	34	E-8 565 foot elevation-light/sight viewpoints four locations at ladders - three gaskets each port-Total 24	45
	-	35	E-9 565 foot elevation-light/sight viewpoints four locations at ladders-three gaskets each port-Total 24	45
	-	36	E-10 565 foot elevation-light/sight viewpoints four locations at ladders -three gaskets each port-Total 24	45

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CURRENT IDENTIFIED ACBM LOCATIONS AND BUILDINGS				
Bldg	Room	Loc	Detailed Location and Identification	Picture Number
408C	-	37	E-11 565 foot elevation-light/sight viewpoints four locations at ladders -three gaskets each port-Total 24.	45
	-	38	E-8 572 foot elevation-manway gasket-stack	139
	-	39	E-9 572 foot elevation-manway gasket-stack	139
	-	40	E-10 572 foot elevation-manway gasket-stack	139
	-	41	E-11 572 foot elevation-manway gasket-stack	139
	-	42	E-8 570 foot elevation-flat gasket-damper assembly to stack-top to bottom	138
	-	43	E-9 570 foot elevation-flat gasket-damper assembly to stack-top to bottom	138
	-	44	E-10 570 foot elevation-flat gasket-damper assembly to stack-top to bottom	138
	-	15	Q-11 preheater enclosure 530 foot elevation-two gaskets-induced draft fan, ventilation fan and burner drawer	31,34,102, 123
	-	16	Q-12 preheater enclosure 530 foot elevation-two gaskets-induced draft fan, ventilation fan and burner drawer	31,34,102, 123
	-	17	530 foot elevation-fuel oil pumps p-82, p-145 black mastic at numerous locations	27
	-	18	Q-9 preheater outside-economizer return under insulation-two gaskets	165
	-	19	Q-10 preheater outside-economizer return under insulation-two gaskets	165
	-	20	Q-11 preheater outside-economizer return under insulation-two gaskets	165
	-	21	Q-12 preheater outside-economizer return under insulation-two gaskets	165
	-	22	Q-9 preheater 545 foot elevation-outlet expansion joint	164
	-	23	Q-10 preheater 545 foot elevation-outlet expansion joint	164
	-	24	Q-11 preheater 545 foot elevation-outlet expansion joint	164
	-	25	Q-12 preheater 545 foot elevation-outlet expansion joint	164
	-	26	E-12 555 foot elevation-light/sight viewpoints 10 ports-one gasket port-total 20	30,44,45
	-	27	E-13 555 foot elevation-light/sight viewpoints 10 ports-one gasket port-total 20	30,44,45
	-	28	E-14 555 foot elevation-light/sight viewpoints 10 ports-one gasket port-total 20	30,44,45
	-	29	E-15 555 foot elevation-light/sight viewpoints 10 ports-one gasket port-total 20	30,44,45
	-	30	E-12 555 foot elevation-manway gasket-header	139
	-	31	E-13 555 foot elevation-manway gasket-header	139
	-	32	E-14 555 foot elevation-manway gasket-header	139
	-	33	E-15 555 foot elevation-manway gasket-header	139
	-	34	E-12 565 foot elevation-light/sight viewpoints four locations at ladders-three each port-total 24	45
	-	35	E-13 565 foot elevation-light/sight viewpoints four locations at ladders-three each port-total 24	45
	-	36	E-14 565 foot elevation-light/sight viewpoints four locations at ladders -three each port-total 24	45

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CURRENT IDENTIFIED ACBM LOCATIONS AND BUILDINGS				
Bldg	Room	Loc	Detailed Location and Identification	Picture Number
408C	-	37	E-15 565 foot elevation-light/sight viewpoints four locations at ladders -three each port-total 24	45
	-	38	E-12 572 foot elevation-manway gasket-stack	139
	-	39	E-13 572 foot elevation-manway gasket-stack	139
	-	40	E-14 572 foot elevation-manway gasket-stack	139
	-	41	E-15 572 foot elevation-manway gasket-stack	139
	-	42	E-12 570 foot elevation-flat gasket damper assembly to stack-top to bottom	138
	-	43	E-13 570 foot elevation-flat gasket damper assembly to stack-top to bottom	138
	-	44	E-14 570 foot elevation-flat gasket damper assembly to stack-top to bottom	138
	-	45	E-15 570 foot elevation-flat gasket damper assembly to stack-top to bottom	138
	-	46	E-12 570 foot elevation-insulation block at dampers behind metal sheeting	26
	-	47	E-13 570 foot elevation-insulation block at dampers behind metal sheeting	26
	-	48	E-14 570 foot elevation-insulation block at dampers behind metal sheeting	26
	-	49	E-15 570 foot elevation-insulation block at dampers behind metal sheeting	26
	-	50	555 foot elevation-north pipe tunnel roof-black insulocote in valve 23-V-5130	102
	-	51	545 foot elevation-pipe tunnel roof material	61
	-	52	Numerous cable tray locations-yellow fibrous cable coating	149
	-	1	E-76 CLS DHX #2 555 foot elevation-expansion joints at fans of two each	51,55,57
	-	2	E-74 CLS DHX #2 555 foot elevation-expansion joints at fans of two each	51,55,57
	-	3	E-76 CLS DHX #2 555 foot elevation-light/sight viewpoint-two at inlet dampers-three gaskets each-Total 12	54,56
	-	4	E-74 CLS DHX #2 555 foot elevation-light/sight viewpoint-two at inlet dampers-three gaskets each-Total 12	54,56
	-	5	E-76 CLS DHX #2 555 foot elevation-manway gasket-west side	40
	-	6	E-74 CLS DHX #2 555 foot elevation-manway gasket-west side	40
	-	7	E-76 CLS DHX #2 555 foot elevation-light/sight viewpoint north end-six gaskets	56
	-	8	E-74 CLS DHX #2 555 foot elevation-light/sight viewpoint north end-six gaskets	56
	-	9	E-76 CLS DHX #2 555 foot elevation-light/sight viewpoint north end-six gaskets	56
-	10	E-74 CLS DHX #1 555 foot elevation-light/sight viewpoint four places-24 gaskets	56	
-	11	E-76 CLS DHX #2 565 foot elevation-expansion joints on preheater duct outlet-two each	58	
-	12	E-76 CLS DHX #1 565 foot elevation-expansion joints on preheater duct outlet-two each	58	
-	13	E-76 CLS DHX #2 565 foot elevation-manway gasket-west side	40	
-	14	E-74 CLS DHX #1 565 foot elevation-manway gasket-west side	40	
-	15	E-76 CLS DHX #2 380 foot elevation-light/sight viewpoint-two at outlet dampers-three gaskets each total 12	59,60	

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CURRENT IDENTIFIED ACBM LOCATIONS AND BUILDINGS				
Bldg	Room	Loc	Detailed Location and Identification	Picture Number
408C	-	16	E-74 CLS DHX #1 580 foot elevation-light/sight viewpoint-two at outlet dampers-three gaskets each total 12	59,60
	-	17	E-76 CLS DHX #2 580 foot elevation-damper/stack gasket	138
	-	18	E-74 CLS DHX #1 580 foot elevation-damper/stack gasket	138
	-	19	Numerous locations-yellow coated cable for trace heat in headers and in pipeways-see H4-16061, H4-16062	148,149
432A	-		No locations identified	
436	-	1	East side, outside ductwork coating (repaired)	120
	-	2	East side, outside ductwork coating (repaired)	121
437	-	1	SDCV heat trace wire coating-various	149
	-	2	Crane brake shoes-M2003, M2004	149
	-	3	Fire wall penetration sealant on fire water supply piping	147
481	-	1	No locations identified	125
481A	-		Black mastic on piping-small diameter	
483	-	1	560 foot elevation on roof of interior building-four tanks-black mastic	151
484	-	1	550 foot elevation	9,10,11, 12,13,14, 15
	-	2	550 foot elevation-moisture separator U-479 black mastic coating (repaired)	8
	-	3	550 foot elevation-moisture separator U-480 black mastic coating	6
	-	4	550 foot elevation-moisture separator U-605 black mastic coating	7
	-	5	550 foot elevation-moisture separator U-606 black mastic coating	8
491E	418	1	Y-7, Y-10 liquid rheostat tank-asbestos concrete	156
	438	2	White floor tile (SISI cage)	163
	327	3	Green floor tile	161
	-	4	Yellow or white fabric coated cable for trace heat-see H4-16061, H4-16062	148,149
	-	5	Flammastic on cable trays numerous locations	93
	-	6	Flammastic at panel entry top-numerous locations	81
	465	7	Ductwork on roof black mastic coating	65
	465	8	Roof walkway pads	66
491S	489	1	Flange gaskets in inert gas cooler piping to ductwork in inert cells to be sampled when accessible	152
	-	2	Flammastic on cable trays numerous locations	93
	-	3	Flammastic at panel entry top-numerous locations	81
	-	4	Yellow or white fabric coated cable for trace heat-see H4-16061, H4-16062	148,149

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CURRENT IDENTIFIED ACBM LOCATIONS AND BUILDINGS				
Bldg	Room	Loc	Detailed Location and Identification	Picture Number
491S	498	5	Roof walkway pads	66
491W	429	1	Y-8, Y-11 liquid rheostat tank-asbestos concrete	156
	447	2	Y-9, Y-13 liquid rheostat tank-asbestos concrete	156
	-	3	Flammastic on cable trays numerous locations	93
	-	4	Flammastic at panel entry top-numerous locations	81
	-	5	Yellow or white fabric coated cable for trace heat-see H4-16061, H4-16062	148,149
	466	6	Roof walkway pads (repaired)	66
	466	7	Ductwork on roof black mastic coating (repaired)	65
4621E	311	1	Green floor tile	161
	312	2	Green floor tile	161
	314	3	Cream-white floor tile	163
	317	4	Cream-white floor tile	163
	319	5	Cream-white floor tile	163
	323	6	Cream-white floor tile	163
	-	7	Flammastic on cable trays numerous locations	93
	-	8	Flammatic at panel entry top-numerous locations	81
	-	9	Yellow or white fabric coated cable for trace heat-see H4-16061, H4-16062	148,149
	309	10	Diesel generator #1 exhaust system gaskets	NONE
	340	11	Roof walkway pads (repaired)	66
4621W	-	1	Flammastic on cable trays numerous locations	142
	-	2	Flammastic at panel entry top-numerous location	143
	366	3	Black mastic on cooling water line at floor in northwest corner-heat trace	129
	366	4	Black mastic on fire water line entering building outside near trace box tag S-68, recovered 11/97	141
	380	5	Roof walkway pads (repaired)	66
	380	6	Ductwork on roof black mastic coating (repaired)	65,69,71
	-	7	Yellow or white fabric coated for trace heat-see H4-16061, H4-16062	148,149
	369	8	Arc Chute Asbestos Liner	186
4703	121	1	Green floor tile under carpet (repaired)	161
	122	2	Green floor tile under carpet (repaired)	161
	128	3	Green and white floor tile (161 repaired)	161,163
	132	4	Green floor tile under carpet (repaired)	161
	135	5	Cream-white floor tile	163
	136	6	Cream-white floor tile	158

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CURRENT IDENTIFIED ACBM LOCATIONS AND BUILDINGS				
Bldg	Room	Loc	Detailed Location and Identification	Picture Number
4703	138	7	Cream-white floor tile	163
	139	8	Cream-white floor tile	163
	140	9	Cream-white floor tile	163
	-	10	Flamastic on cable trays numerous locations	93,142
	-	11	Flamastic at panel entry top-numerous locations	143
	104		Chilled water line 1-1/2" elbow (no asbestos present, W961002468)	176
	254		Chilled water line 4" elbow (no asbestos present, W961002469)	177
	136	--	Before and after-control room floor (see picture no. 158)	175
4710		None identified		
4713A	-	1	Floor tile mastic.	154
4713B			Resistive load banks (five total) - three changed out and two tagged asbestos containing.	182
4713C			None identified	
4713D	-	1	HVAC ducts at heater unit-550 foot elevation (repaired)	1,2
		2	Ductwork on roof black mastic coating (repaired)	3,4
		3	Green floor tile in manipulator shop	50
4716			None identified	
4717	258	1	Black mastic on top of T-13A chilled water surge tank-east side	104
	258	2	Black mastic on top of T-13B chilled water surge tank-east side	105
	258	3	T-194 insulation tower #2	109
	-	4	Roof walkway pads (repaired)	66
	220	5	Yellow or white fabric coated cable for trace heat-see H4-16061, H4-16062	148,149
	-	6	Flamastic on cable trays numerous locations	142
	-	7	Flamastic at panel entry top-numerous locations	143
	258	54	R189 Compressor 1st stage upper gasket to be changed-assumed ACBM	178
	235	8	Sign Glass Gasket at 530'-0" level.	185
	212	9	Chilled water piping and elbow re-insulated.	187
	221	10	Chilled water piping and elbow re-insulated.	188
	244	11	Chilled water piping and elbow re-insulated.	189
	Roof	12	RSB roof pads.	190
	Roof	13	RSB extension roof material.	191
Roof	14	RSB main roof material.	192	
4721	-	1	Gas turbine exhaust flanges and cabinet doors	NONE
4842	-	1	Molding at door	166

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CURRENT IDENTIFIED ACBM LOCATIONS AND BUILDINGS				
Bldg	Room	Loc	Detailed Location and Identification	Picture Number
OUT SIDE		1	Outside 491E at CON FTT margins equipment U-781A, U-781C-black paper and white powder	47,48
		2	Valve box east of cooling towers-coated (fixed)	157
		3	Buried process sewer piping-asbestos/concrete-numerous locations	

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APPENDIX C: CURRENT IDENTIFIED FRIABLE ACBM LOCATIONS BY BUILDING

Current Identified Friable ACBM Locations by Building for Annual Inspection				
Bldg #	Room	Loc	Identification	Pic/Item #
4621-W	365	1	Flammastic on cable trays at BN01N5 by B90	142
	380	6	HVAC on roofs (fixed) 11-93	65,69,71
4703	108	10	Flammastic on cable trays at hanger 108-1-02	93
Note: These cable tray locations are only two as sampled, Flammastic on cable tray are throughout the plant from the 489 foot level to the 570 foot level.				
491-E&W	465	8	HVAC ducts on roof near E615 (fixed) 11-93	65
	466	6	HVAC ducts on roof near E615 (fixed) 11-93	65
Note: These HVAC duct are located on most roofs at FFTF. Elements have cracked the outer black coating and exposed the white inner asbestos covering.				
436	-	33	Outside, black insulation on ducts, east side of building (fixed) 11-93	120,121
408 ABC	All DHXs	53	The only access door gasket in the DHXs that has been changed to a new non-asbestos gasket is E-8 in the South DHX, all others must be treated as ACBM.	180,181

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