

ENVIRONMENTAL COMPLIANCE & AREA COMPLETION PROJECTS

Baseline Asbestos Inspection Report of Building 484-9D





INTEROFFICE MEMORANDUM

January 9, 2020

Q-APG-D-00027
RSM Track Number 10755

TO: Andrew Macmillan, 730-4B Room 3026

FROM: Ken Padgett, 730-4B

BASELINE ASBESTOS INSPECTION REPORT OF BUILDING 484-9D

On January 9, 2020 a baseline asbestos inspection was performed in building 484-9D. The building was commissioned in 1991 and served as a valve house for the fire suppression system. The building's construction consists of concrete masonry walls erected on a concrete slab. The roof is poured concrete covered with a non-suspect ballasted EPDM roofing membrane. The building is divided into two sections. The larger section, the valve room, is approximately 350 SF. The smaller section is approximately 80 SF and houses the fire alarm panel and control center. The valve room has a catwalk running along the south wall. Along the north wall are the water deluge piping and valves, pressure switches, instrument air lines, and steam lines. The fire panel and control room contain the fire control panels, pull stations, system annunciator panels, battery back-ups, switches and relays, and other fire control devices.

Three (3) homogenous types of material were evaluated during this inspection. Please see the attached Inspection Survey Table for descriptions, estimated quantities, and location(s) of the materials inspected. Results from SDD-APG-2009-00555 have been reproduced and added to the Inspection Survey Table. The results from this inspection report will serve as the baseline reference of ACM in the building.

SUMMARY

All accessible, visible, suspect ACM was evaluated at the time of this inspection. Visible Thermal Systems Insulation (TSI) includes high temperature rigid insulation in metal jacketing. This evaluation was based on facility and material knowledge, document review, and the collection of bulk samples for laboratory analysis.

Samples collected in the SDD-APG-2009-00555 report were analyzed at the SRNS LLC. Industrial Hygiene Laboratory, which is accredited by the American Industrial Hygiene Association (AIHA) Laboratory Quality Assurance Program (LQAP) in the Field of Testing (FoT)/Polarized Light Microscopy (PLM). The laboratory ID number is 100642.

Although building 484-9D has been deactivated and placed in shutdown condition, the inspector could not verify that the building was de-energized. Therefore, suspect materials may exist inside electrical disconnect boxes and conduit.

If this report is used for contract bid or regulatory permit purposes, it is the obligation of the user to verify the actual quantities of the materials presented in the Inspection Survey Table. In accordance with 40CFR part 61.145, a **ten-day notification** must be filed with SC DHEC prior to demolition.

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INTEROFFICE MEMORANDUM

Q-APG-D-00027
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The removal of all Presumed Asbestos Containing Material (PACM) must be performed by asbestos trained personnel, with proper permitting, and waste disposal procedures.

<u>ASBESTOS INSPECTOR</u>	<u>INSTITUTION</u>	<u>CERT. NO.</u>	<u>STATE</u>	<u>EXP. DATE</u>
William K. Padgett 	AAA Environmental	06-1397	SC	04/17/20

(Included on the SRS long-term in-house group license ABS 8021)

C: C.R.F., 773-52A
Site D&D Correspondence File
J.K. Barrineau, 730-4B
Mark Wright, 705-3C Room 126

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INSPECTION SURVEY TABLE FOR BUILDING 484-9D

Homogeneous Number	SUSPECT MATERIAL	DESCRIPTION OF MATERIAL and SAMPLE NUMBERS	AMOUNT	TEST RESULTS	FRIABLE-NONFRIABLE
H01OB	Miscellaneous	Description: Expansion joint Sample Numbers: 4849D090325-01A, 4849D090325-01B, 4849D090325-01C Sample Number: 4849D090325-01B was analyzed via TEM	Approximately 120 LF	Negative	Non-Friable Good Condition
Location: Observed at the base of the interior and exterior walls					
H02	TSI	Description: High temperature rigid insulation in metal jacketing – white/gold Sample Numbers: 4849D090325-02, 4849D090325-03, 4849D09032504, 4849D090325-05, 4849D090325-06, 4849D090325-07	Not quantified	Negative	Non-Friable Good Condition
Location: Heater piping running east to west					
H03	Miscellaneous	Description: Gaskets Sample Numbers: N/A, inaccessible for evaluation	Not quantified	PACM (See note 1)	Non-Friable Good Condition
Location: Observed in pipe/valve flanges					

Note:

1. The gaskets were inaccessible for bulk sampling, therefore are considered Presumed Asbestos Containing Material (PACM). If the work (demolition) method used avoids the separation of flanges, they will not be disturbed. Gaskets in unbroken flanges are determined to be encased in a hardened substance therefore they are not subject to regulatory requirements.

OSR 4-434 (Rev 10-11-2006)

Washington Savannah River Company
 Industrial Hygiene Laboratory
 Building 735-B, Room 310
 Aiken, SC 29808
 Phone: (803) 952-7449/7459
 Fax: (803) 952-7881

Industrial Hygiene Chain of Custody Lab Report

Page <u>1</u> of <u>2</u>	Cost Code PRD70391E	Lab Log-In No. _____
Contaminant(s) SUSPECT ASBESTOS BUILDING 484-9D	Lab Report No. Required <input checked="" type="radio"/> EBL <input type="radio"/> F/H Lab	Lab Method No. and Name NIOSH 9002 (PM)
Submitted By (Print/Signature) Charles Carter <i>Charles Carter</i>	EBL-IH 2009-0182-	Lab Book and Page No. 09-0314 - 0322
Audited By (Print/Signature) R. Cochran <i>R. Cochran</i>		Disk No.
		Verbal Results Given (To Whom) How (Check One) <input type="radio"/> Person <input type="radio"/> Voice Mail
		Date/Time Verbal Results Given /

Sample ID	Sample Media/Size	Requested TAT*	Results/Unit	Reporting Limit	Remarks
4849D090325-01A		5-8-09	< 1%	1% ASB	H020B Expansion Joint
4849D090325-01B		5-8-09	< 1%	↓	H020B Expansion Joint
4849D090325-01C		5-8-09	< 1%		H020B Expansion Joint
4849D090325-02		5-8-09	< 1%		H03 TSI
4849D090325-03		5-8-09	< 1%		H03 TSI
4849D090325-04		5-8-09	< 1%		H03 TSI
4849D090325-05		5-8-09	< 1%		H03 TSI
4849D090325-06		5-8-09	< 1%		H03 TSI

NOTE: Results relate only to the items tested.
 NOTE: Results are not corrected for contamination based on the field blank or other analytical blank.

Analyst/Signature <i>R.M. Cooke</i>	Date Analyzed 4-3-09	Reviewed By (Print) M Bernard	Signature (Lab Director or Designee) <i>Maurice Bernard</i>	Date 4-3-09
Analyst/Signature <i>M Bernard</i>	Date Report Mailed 4-3-09	Report Received By (Print)	Signature (Field Use Only)	Date Received

Comments
Samples rec in good condition m/z 4/3/09

Chain of Custody
 NOTE: Samples from Radiological Contamination areas must be submitted to 772-F unless free release criteria are met.

Relinquished By				Received By			
Name	Signature	Date	Time	Name	Signature	Date	Time
Charles Carter	<i>Charles Carter</i>	3/25/2009	1430	M Bernard for R.M. Cooke	<i>M Bernard for R.M. Cooke</i>	3/25/09	1600

*TAT - Turn Around Time Disk No. - Only applicable to asbestos fiber counting.
 Retention - Permanent

OSR 4-434 (Rev 10-11-2006)

Industrial Hygiene Chain of Custody Lab Report

Washington Savannah River Company
Industrial Hygiene Laboratory
Building 735-B, Room 310
Aiken, SC 29808
Phone: (803) 952-7449/7459
Fax: (803) 952-7881

Page <u>2</u> of <u>2</u>	Cost Code PRD70391E	Lab Log-In No. _____
Contaminant(s) SUSPECT ASBESTOS BUILDING 484-9D	Lab Report No. Required <input checked="" type="radio"/> EBL <input type="radio"/> F/H Lab EBL-IH 2009-0182-	Lab Method No. and Name <u>NIOSH 9002 (Plm)</u>
Submitted By (Print/Signature) Charles Carter <i>Charles Carter</i>		Lab Book and Page No. <u>09-0314-0322</u>
Audited By (Print/Signature) R. Cochran <i>Ronald Cochran</i>		Disk No. Verbal Results Given (To Whom) How (Check One) <input type="radio"/> Person <input type="radio"/> Voice Mail
		Date/Time Verbal Results Given <u>1</u>

Sample ID	Sample Media/Size	Requested TAT*	Results/Unit	Reporting Limit	Remarks
4849D090325-07		5-8-09	< 1 st	PLM	H03 TSI

NOTE: Results relate only to the items tested.
NOTE: Results are not corrected for contamination based on the field blank or other analytical blank.

Analyst/Signature <i>R. Cochran</i>	Date Analyzed 4-2-09	Reviewed By (Print) M. Bernard 4-3-09	Signature (Lab Director or Designee) <i>M. Bernard</i>	Date 4-3-09
Analyst/Signature <i>M. Bernard</i>	Date Report Mailed 4-3-09	Report Received By (Print)	Signature (Field Use Only)	Date Received

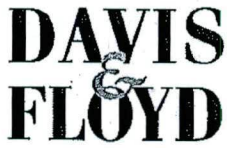
Comments

Chain of Custody

NOTE: Samples from Radiological Contamination areas must be submitted to 772-F unless free release criteria are met.

Relinquished By				Received By			
Name	Signature	Date	Time	Name	Signature	Date	Time
Charles Carter	<i>Charles Carter</i>	3/25/2009	1430	M. Bernard for R.M. Goke	<i>M. Bernard for R.M. Goke</i>	3/25/09	1600

*TAT - Turn Around Time Disk No. - Only applicable to asbestos fiber counting.
Retention - Permanent



LABORATORY ANALYSIS REPORT

April 24, 2009

James Koch II
Savannah River Nuclear Solutions, LLC
735-B Room 133
Aiken, SC 29804-6809

Re: Job 09396 Asbestos Analysis – TEM

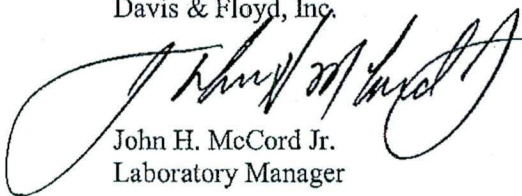
On April 15, 2009, the Davis & Floyd, Inc. laboratory received one solid waste samples from the Savannah River Nuclear Solutions LLC. The sample listed on the Chain-of-Custody (COC) form arrived at Davis & Floyd Laboratory intact. A fourteen-day turnaround was requested on the COC.

The samples were subcontracted to the RJ Lee Group, Inc. in Monroeville, PA for analysis of Asbestos by TEM. The sample(s) were received by the RJ Lee Group and logged in for analysis on April 17, 2009 as follows:

SRNS ID	RJ Lee Sample Number
09396-4849D090325-01B	0165353.HT

Enclosed are the Chain-of-Custody Records and the RJ Lee Group laboratory analysis report. Please contact me if you have any questions.

Sincerely,
Davis & Floyd, Inc.



John H. McCord Jr.
Laboratory Manager

Enclosure:



RJ Lee Group, Inc.

350 Hochberg Road, Monroeville, PA 15146

Tel: (724) 325-1776 | Fax: (724) 733-1799

Final Laboratory Report

TEM Compositional Analysis

Mr. John H. McCord, Jr.
Davis & Floyd, Inc.
P.O. Drawer 428
Greenwood, SC 29649
USA

Report Date: 4/21/2009
Sample Receipt Date: 4/17/2009
RJ Lee Group Job No.: ATH904027
Authorization/P.O. No.:
Samples Received: 1
Client Job No./Name: 62664_01

Method: Chatfield Technical Consulting Limited, SOP-1988-02.Rev1.

Client Sample Number	RJLG Sample Number	Sample Description	Starting Weight (gm)	Weight Percent					Total Asbestos	Amphibole Type
				Organic	Acid Soluble	Residue	Chry	Amph		
09396-4849D09 0325-01B	0165353.HT	Exp Joint	0.23260	83	7	10	0	0	0	

Authorized Signature: _____

/mb

Kimberly A. Allison, Manager - TEM Analysis

Notes:

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Trace indicates <1% asbestos was identified.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NSD-No Structures Detected.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

DISCLAIMER

P4

Caution must be applied when interpreting the results of samples prepared using indirect sample preparation techniques. Studies have shown that indirect preparation techniques may result in substantial increases in the fiber count when compared to fiber counts which would have been obtained using direct sample preparation.

RJ Lee Group, Inc. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for select test methods for airborne asbestos analysis (TEM), asbestos fiber analysis (PLM), New York Department of HEALTH Environmental Laboratory Program (ELAP), and by the American Industrial Hygiene Association (AIHA). This test report relates only to the items tested. This report may not be used to claim product endorsement by NVLAP, any agency of the US Government, or any other laboratory accrediting agency. Any reproduction of this document must be in full in order for the report to be valid. This report is not valid unless it bears the name of a NVLAP-approved signatory.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

