

ENVIRONMENTAL COMPLIANCE & AREA COMPLETION PROJECTS

Baseline Asbestos Inspection Report of Building 484-5D





Savannah River
Nuclear Solutions, LLC
A Fluor Daniel Partnership

INTEROFFICE MEMORANDUM

Q-APG-D-00007
RSM Track Number 10755

November 4, 2019

TO: Andrew MacMillan, 730-4B

FROM: Ken Padgett, 730-4B

BASELINE ASBESTOS INSPECTION REPORT OF BUILDING 484-5D

On November 4, 2019, an inspection was performed to determine the presence of any asbestos containing material (ACM) in building 484-5D. Building 484-5D is a steel framed storage building on a concrete foundation. The building is covered with corrugated metal siding. It has a footprint of approximately 380 SF.

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-2009-00551 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.

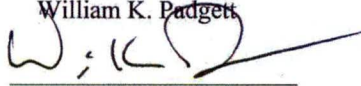
SUMMARY

All accessible, visible, suspect ACM was evaluated at the completion of this inspection. No Thermal Systems Insulation (TSI) was observed. This evaluation was based on facility knowledge, material knowledge, and document review.

Samples collected in the SDD-APG-2009-00551 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.

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.

The removal of all identified ACM and 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 12

INSPECTION SURVEY TABLE OF BUILDING 484-5D

Homogeneous Number	SUSPECT MATERIAL	DESCRIPTION OF MATERIAL and SAMPLE NUMBERS	AMOUNT	TEST RESULTS	FRIABLE-NONFRIABLE
H01OB	Miscellaneous	Description: Sealant - grey Sample Numbers: 4845D090310-01A, 4845D090310-01B, 4845D090310-01C	Approximately 84 LF	Positive	Non-friable Good Condition
Location: Perimeter of windows, doors louvers, and corners					
H02OB	Miscellaneous	Description: Expansion joint - white Sample Numbers: 4845D090310-02A, 4845D090310-02B, 4845D090310-02C Sample Number: 4845D090310-02B was analyzed via TEM	Approximately 75 LF	Negative	Non-friable Good Condition
Location: Observed behind interior partition walls					
H03OB	Miscellaneous	Description: Caulking - grey Sample Numbers: 4845D090310-03A, 4845D090310-03B, 4845D090310-03C	Approximately 28 LF	Positive	Non-friable Good Condition
Location: Roof eaves					

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 484-5D	Lab Report No. Required <input checked="" type="radio"/> EBL <input type="radio"/> F/H Lab	Lab Method No. and Name NIOSH 9002 (PCM)
Submitted By (Print/Signature) <i>Charles P. Carter</i>	EBL-IH 2009-0150-	Lab Book and Page No. 09-0177-0185
Charles Carter <i>Charles P. Carter</i>		Disk No.
Audited By (Print/Signature) R. Cochran <i>R. Cochran</i>		Verbal Results Given (To Whom) <input type="radio"/> Person <input type="radio"/> Voice Mail Date/Time Verbal Results Given 1

Sample ID	Sample Media/Size	Requested TAT*	Results/Unit	Reporting Limit	Remarks
4845D090310-01A		3-23-09	Chry 30-50% 16 ASB		H01OB Caulk
4845D090310-01B		3-23-09	Chry 30-50%		H01OB Caulk
4845D090310-01C		3-23-09	Chry 30-50%		H01OB Caulk
4845D090310-02A		3-23-09	< 1%		H02OB Caulk
4845D090310-02B		3-23-09	< 1%		H02OB Caulk used HC1
4845D090310-02C		3-23-09	< 1%		H02OB Caulk
4845D090310-03A		3-23-09	< 1%		H03OB Caulk
4845D090310-03B		3-23-09	Chry 1-5% ↓		H03OB Caulk

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>RM Cooke</i>	Date Analyzed 3-18-09	Reviewed By (Print) <i>M. Bernard</i>	Signature (Lab Director or Designee) <i>Maurice Bernard</i>	Date 3-18-09
Analyst/Signature <i>RM Cooke</i>	Date Report Mailed 3-19-09	Report Received By (Print)	Signature (Field Use Only)	Date Received

Comments
Samples rec'd in good condition m/s 3/18/09

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 P. Carter</i>	3/11/2009	1630	RM Cooke	<i>RM Cooke</i>	3/12/09	1700

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

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>2</u> of <u>2</u>		Cost Code PRD70391E		Lab Log-In No. _____	
Contaminant(s) Suspect Asbestos 484-5D		Lab Report No. Required <input checked="" type="radio"/> EBL <input type="radio"/> F/H Lab EBL-IH		Lab Method No. and Name NIOSH 9002 (PCM)	
Submitted By (Print/Signature) Charles Carter <i>Ch Carter</i>		2009-0150-		Lab Book and Page No. 09-0177-0185	
Audited By (Print/Signature) R. Cochrane <i>R Cochrane</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 1	
Sample ID	Sample Media/Size	Requested TAT*	Results/Unit	Reporting Limit	Remarks
4845D090310-03C		3-23-09	< 1%	1% ASB	H030B Caulk

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>CM Coe</i>	Date Analyzed 3-18-09	Reviewed By (Print) <i>M Bernard</i>	Signature (Lab Director or Designee) <i>Maurice Bernard</i>	Date 3-18-09
Analyst/Signature <i>CM Coe</i>	Date Report Mailed 3-19-09	Report Received By (Print)	Signature (Field Use Only)	Date Received

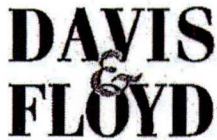
Comments

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>Ch Carter</i>	3/11/2009	1630	Bill Cooke	<i>Bill Coe</i>	3/12/09	1700

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



LABORATORY ANALYSIS REPORT

April 7, 2009

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

Re: Job 09075 Asbestos Analysis -- TEM

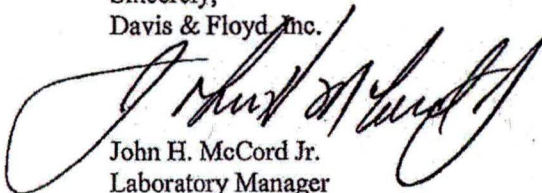
On March 27, 2009, the Davis & Floyd, Inc. laboratory received one solid waste sample from the Savannah River Nuclear Solutions LLC. The sample listed on the Chain-of-Custody (COC) form arrived at Davis & Floyd Laboratory intact. A fourteen-day turnaround was requested on the COC.

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 March 31, 2009 as follows:

SRNS ID	RJ Lee Sample Number
09075-4845D090310-02B	0165248.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:



P3

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: 4/3/2009
Sample Receipt Date: 3/31/2009
RJ Lee Group Job No.: ATH903036
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		
09075-4845D09 0310-02B	0165248.HT		0.21740	7	60	34	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

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.

DAVIS & FLOYD, INC.
LOGIN REPORT (ln01)
March 30 2009, 11:52 am

Login Number: L09033001
Account: WASSAV SAVANNAH RIVER NUCLEAR SOLUTIONS, LLC
Project: 62664.01 MISC. ANALYTICAL SERVICES

Laboratory Sample Number	Client Sample Number	Collect Date	Receive Date	Due PR Date
L09033001-01	09075-48450090310-02B	10 MAR 2009 08:00	27 MAR 2009 S	07 APR 200
Soil/SL/SW S SC/ASBESTOS/TEM		-----	PH <u>NA</u>	Remarks _____

COC Record (Present / Absent)
Sample Condition (Intact / Broken / Leaking)
Info on COC Records and Samples Agree (Yes / No / NA)
Sample Temp. _____ Received on Ice (Yes / No)

Encore Samples (Yes / No / NA)
RAD Samples (Yes / No)
Shipping Container Dose < 500 urem/hr (Yes / No / NA)
Remarks: Swipe OK = alpha < 20 dpm/100cm2 & beta < 1000 dpm/cm2

Reviewed: [Signature] 4-7-09
Date
Signature: [Signature] 3-30-09
Date