

**PARTIAL LEAD PAINT
INSPECTION SURVEY REPORT
NEWBERRY COUNTY
COMMUNITY HALL
1109 MAIN STREET
NEWBERRY, SOUTH CAROLINA**

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NEWBERRY COUNTY

COMMUNITY HALL

1109 MAIN STREET

NEWBERRY, SOUTH CAROLINA

OWNER: NEWBERRY COUNTY

NEWBERRY, SOUTH CAROLINA

OCTOBER 2011

DAVIS & FLOYD, INC. JOB NUMBER 12883.03

PREPARED BY

DAVIS & FLOYD, INC.

ENVIRONMENTAL DIVISION

GREENWOOD, SOUTH CAROLINA

TABLE OF CONTENTS

	PAGE
1.0 SURVEY DESCRIPTION AND RESULTS	1.1
2.0 SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL LICENSE FOR XRF ANALYZER	2.1
3.0 SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL - BUREAU OF LAND AND WASTE MANAGEMENT	3.1
4.0 XRF READINGS LOCATION PLAN	4.1

1.0 SURVEY DESCRIPTION AND RESULTS

The Environmental Division personnel of Davis & Floyd, Inc. surveyed the Newberry County Community Hall, Newberry, South Carolina on September 27, 2011 for lead-based paint. This was a partial check and was limited to a first floor renovation area.

The survey was conducted only for the purposes of identifying painted surfaces with lead paint equal to or greater than 0.7 mg/cm^2 for purposes of disposal in either a construction and demolition landfill or a municipal solid waste landfill in compliance with the South Carolina Regulation 61-107.19 SWM: Solid Waste Landfills and Structural Fill, dated May 23, 2008.

All lead "shots" were accomplished using a x-ray fluorescence (XRF) Spectrum Analyzer. A copy of the current SCDHEC license is enclosed (SC Radioactive Material License No. 512).

Lead shots were taken on both interior and exterior surfaces at accessible areas of the upper portion of the structure. The results indicate that there are painted surfaces which are painted with lead based paint with a lead content equal to or greater than 0.7 mg/cm^2 .

Building materials coated with lead based paint equal to or greater than 0.7 mg/cm^2 are:

Unit Shot No.	Material
1	Calibration check
2	Calibration check
4	Window sash
6	Door frame
9	Window frame
13	Window sash
15	Door frame
21	Calibration check

For all XRF readings, see the Location Plan in this report.

A calibration check is the XRF reading of a template with a known lead content and is used to verify that the XRF analyzer is working properly. **All similar painted materials should be considered as lead based paint. The materials listed above are representative of like materials.**

The actual location, type of material and XRF analyzer reading can be more accurately determined by the XRF reading location plan enclosed in this report.

The materials with 0.7 mg/cm² or higher are not accepted by Construction and Demolition Landfills. They are acceptable at Class Two Landfills, as long as paint is adhered to the substrate. When removing any of the above materials, care should be taken not to loosen or damage painted surfaces on these materials.

Should the building be demolished or renovated, all loose, flaking, blistering, and chipping paint is to be collected and containerized. The contents should be tested for "Toxicity Leaching Characteristics (TCLP)." Based on the results of the toxicity test, disposal should be in accordance with Federal and State Regulations.

All other painted materials that may be removed and disposed of as part of a demolition or renovation project may be disposed of at a Construction and Demolition Landfill. A copy of this report should be given to any contractor disposing of any materials from this facility.

**2.0 SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL
CONTROL LICENSE FOR XRF ANALYZER**

Davis & Floyd, Inc.'s current South Carolina Department of Health and Environmental Control License for the XRF Analyzer is attached at the end of this section.



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

April 22, 2009

Wilson G. Hunter, RSO
Davis & Floyd, Inc.
Environmental Division
PO Drawer 428
Greenwood, SC 29648

Dear Mr. Hunter:

In accordance with your recent request, your S.C. Radioactive Material License No. 512 has been amended. Enclosed is License Amendment No. 08, which specifies a 12-month leak test frequency for radioactive material authorized by the license.

Amendment No. 08 also reflects the Department's new license renewal frequency for specific South Carolina Radioactive Material Licenses. The frequency has been changed from five (5) years to eight (8) years. This is in keeping with the Nuclear Regulatory Commission's extended renewal frequency for Federal Radioactive Material Licenses.

Please be advised that the enclosed License Amendment No. 08 supersedes all previous license amendments, and the change in your license expiration date has been promulgated per RHA 2.19, Modification, Revocation and Termination of licenses. You will receive a renewal notice approximately two months prior to your new expiration date.

If you have any questions regarding your license, please do not hesitate to contact our office at (803) 545-4400.

4407
Very truly yours,

James K. Peterson, Director
Division of Radioactive Material
Licensing and Compliance
Bureau of Radiological Health

/ksw

Enclosure

**SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
RADIOACTIVE MATERIAL LICENSE**

Pursuant to the Atomic Energy and Radiation Control Act, Section 13-7-40 et seq. of S.C. Code of Laws of 1976, as amended, and Supplements thereto, and the South Carolina Department of Health and Environmental Control Regulation 61-63, Radioactive Material (Title A), and in reliance on statements and representations heretofore made by the applicant, a license is hereby issued authorizing the licensee to receive, acquire, possess and transfer radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules and regulations of the South Carolina Department of Health and Environmental Control now or hereafter in effect and to any conditions specified below.

Amendment No. 08 amends

LICENSEE		3. License Number:
1. Name:	Davis & Floyd, Inc. Environmental Division	512 in its entirety.
2. Address:	1319 Reynolds Street PO Drawer 428 Greenwood, SC 29648	4. Expiration Date: July 31, 2012
5. Radioactive Material (Element & Mass No.)	6. Chemical and/or Physical Form	7. Maximum Radioactivity and/or quantity of material which licensee may possess at any one time.
A. Cobalt 57	A. Sealed source registered pursuant to RHA 2.29, 10 CFR 32.210 or an equivalent Agreement State regulation.	A. No single source to exceed 15 millicuries.
B. Cesium 137	B. Sealed source registered pursuant to RHA 2.29, 10 CFR 32.210 or an equivalent Agreement State regulation.	B. No single source to exceed 11 millicuries.
C. Americium 241:Be	C. Sealed source registered pursuant to RHA 2.29, 10 CFR 32.210 or an equivalent Agreement State regulation.	C. No single source to exceed 44 millicuries.
8. Authorized Use:		
A. To be used in a Radiation Monitoring Devices, Inc., Model LPA-1 x-ray fluorescence analyzer for the detection of lead on environmental surfaces.		
B. To be used in a Humboldt Scientific, Inc., Model 5001 Series gauge to measure the moisture and density of various construction materials.		

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Material License
Supplementary Sheet

License No. 512
Amendment No. 08

Conditions

9. Radioactive material may only be used at the licensee's address stated in Item 2 and temporary jobsites of the licensee anywhere in South Carolina, subject to the jurisdiction of the S.C. Department of Health and Environmental Control. This condition does not prohibit use in Agreement States or in U.S. Nuclear Regulatory Commission jurisdiction states under reciprocity procedures which may be established by those states or the U.S. Nuclear Regulatory Commission.
10. The licensee shall comply with the provisions of Title A, State of South Carolina Rules and Regulations for Radiation Control; Part I - General Provisions; Part II - Licensing of Radioactive Materials; Part III - Standards for Protection Against Radiation; and Part VI - Notices, Instructions, and Reports to Workers; Inspections.
11.
 - A. The Radiation Safety Officer for this license is Wilson G. Hunter.
 - B. Licensed material listed in Items 5.A., 6.A., and 7.A. shall only be used by or under the supervision and in the physical presence of individuals who have successfully completed the manufacturer's training program for x-ray fluorescence (XRF) analyzers, or a training program approved by the Nuclear Regulatory Commission or an Agreement State, have been instructed in the licensee's routine and emergency operating procedures, and who have been designated by the Radiation Safety Officer.
 - C. Licensed material listed in Items 5.B./C., 6.B./C., and 7.B./C. shall only be used by or under the supervision and in the physical presence of individuals who have successfully completed the manufacturer's training program for gauge users, or a training program approved by the Nuclear Regulatory Commission or an Agreement State, have been instructed in the licensee's routine and emergency operating procedures, and who have been designated by the Radiation Safety Officer.
12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
13.
 - A. Each sealed source containing radioactive material, other than Hydrogen-3, with a half-life greater than thirty (30) days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed twelve (12) months. In the absence of a certificate from a transferor indicating that a test has been made within twelve (12) months prior to the transfer, the sealed source shall not be put into use until tested.
 - B. The test shall be capable of detecting the presence of 0.005 microcuries of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Department.
 - C. If the test reveals the presence of 0.005 microcuries or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Department regulations. A report shall be filed within five (5) days of the test with the Chief, Bureau of Radiological Health, South Carolina Department of Health & Environmental Control, 2600 Bull Street, Columbia, South Carolina 29201, describing the equipment involved, the test results, and the corrective action taken.

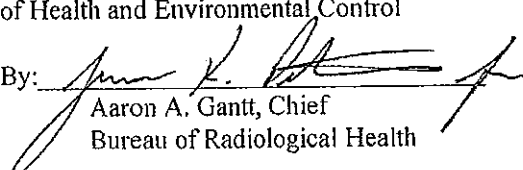
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Material License
Supplementary Sheet

License No. 512
Amendment No. 08

14. The licensee is authorized to collect leak test samples for analysis by Palmetto Counting Systems or Humboldt Scientific, Inc. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Department, the Nuclear Regulatory Commission or an Agreement State to perform such services.
15. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage or when not under the direct surveillance of an authorized user.
16. Any cleaning, maintenance, or repair of the gauge(s) that requires removal of the source rod shall be performed only by the manufacturer or by other persons specifically licensed by the Department, the Nuclear Regulatory Commission or an Agreement State to perform such services.
17. The licensee is authorized to transport licensed material only in accordance with the provisions of RHA 2.22, "Packaging and Transportation of Radioactive Material."
18. The licensee shall conduct a physical inventory every six (6) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for inspection by the Department and shall include the quantities and kinds of licensed material, location of sealed sources, and the date of the inventory.
19. The licensee shall maintain a utilization log indicating the date, name of person, and place where licensed radioactive material is used.
20.
 - A. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Department's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - a. Renewal application dated June 24, 2004, signed by Wilson G. Hunter.
 - B. The licensee shall not possess radioactive material in quantities at or above the limits specified in Table 1: Radionuclides of Concern.

Date of Issuance: April 22, 2009

For the South Carolina Department
of Health and Environmental Control

By: 

Aaron A. Gantt, Chief
Bureau of Radiological Health

Table 1. Radionuclides of Concern

Radionuclide	Quantity of Concern ¹ (TBq)	Quantity of Concern ² (Ci)
Am-241	0.6	16
Am-241/Be	0.6	16
Cf-252	0.2	5.4
Cm-244	0.5	14
Co-60	0.3	8.1
Cs-137	1	27
Gd-153	10	270
Ir-192	0.8	22
Pm-147	400	11,000
Pu-238	0.6	16
Pu-239/Be	0.6	16
Se-75	2	54
Sr-90 (Y-90)	10	270
Tm-170	200	5,400
Yb-169	3	81
Combinations of radioactive materials listed above ³		

Footnotes

¹ The aggregate activity of multiple, collocated sources of the same radionuclide should be included when the total activity equals or exceeds the quantity of concern.

² The primary values used for compliance with this Order are TBq. The curie (Ci) values are rounded to two significant figures for informational purposes only.

³ Radioactive materials are to be considered aggregated or collocated if breaching a common physical security barrier (e.g., a locked door at the entrance to a storage room) would allow access to the radioactive material or devices containing the radioactive material.

⁴ If several radionuclides are aggregated, the sum of the ratios of the activity of each source, i of radionuclide, n , A_i/n , to the quantity of concern for radionuclide n , $Q(n)$, listed for that radionuclide equals or exceeds one. [(aggregated source activity for radionuclide A) ÷ (quantity of concern for radionuclide A)] + [(aggregated source activity for radionuclide B) ÷ (quantity of concern for radionuclide B)] + etc..... >1

**3.0 SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL
CONTROL – BUREAU OF LAND AND WASTE MANAGEMENT**

Regulation 61-107.19, SWM: Solid Waste Landfills and Structural Fill, Effective Dated: May 23, 2008,
page 7 – lead paint is defined as:

“42. “Lead based paint” means paint containing greater than 600 parts per million (ppm) total lead by weight calculated as lead metal in the total non-volatile content, i.e., >0.06%; or, when measured in situ with an X-ray Fluorescence Spectrum Analyzer (SRF), paint containing >0.7 mg/cm².”

In Appendix I (page 109), Acceptable Waste for Class Two Landfills. (See next page for copy of Appendix I.) “Acceptable debris such as:.....painted waste (includes lead-based paint).”

The painted waste (including lead based paint) is acceptable as long as the paint is adhered to the surface to which it was applied and the paint meets the definition stated above.

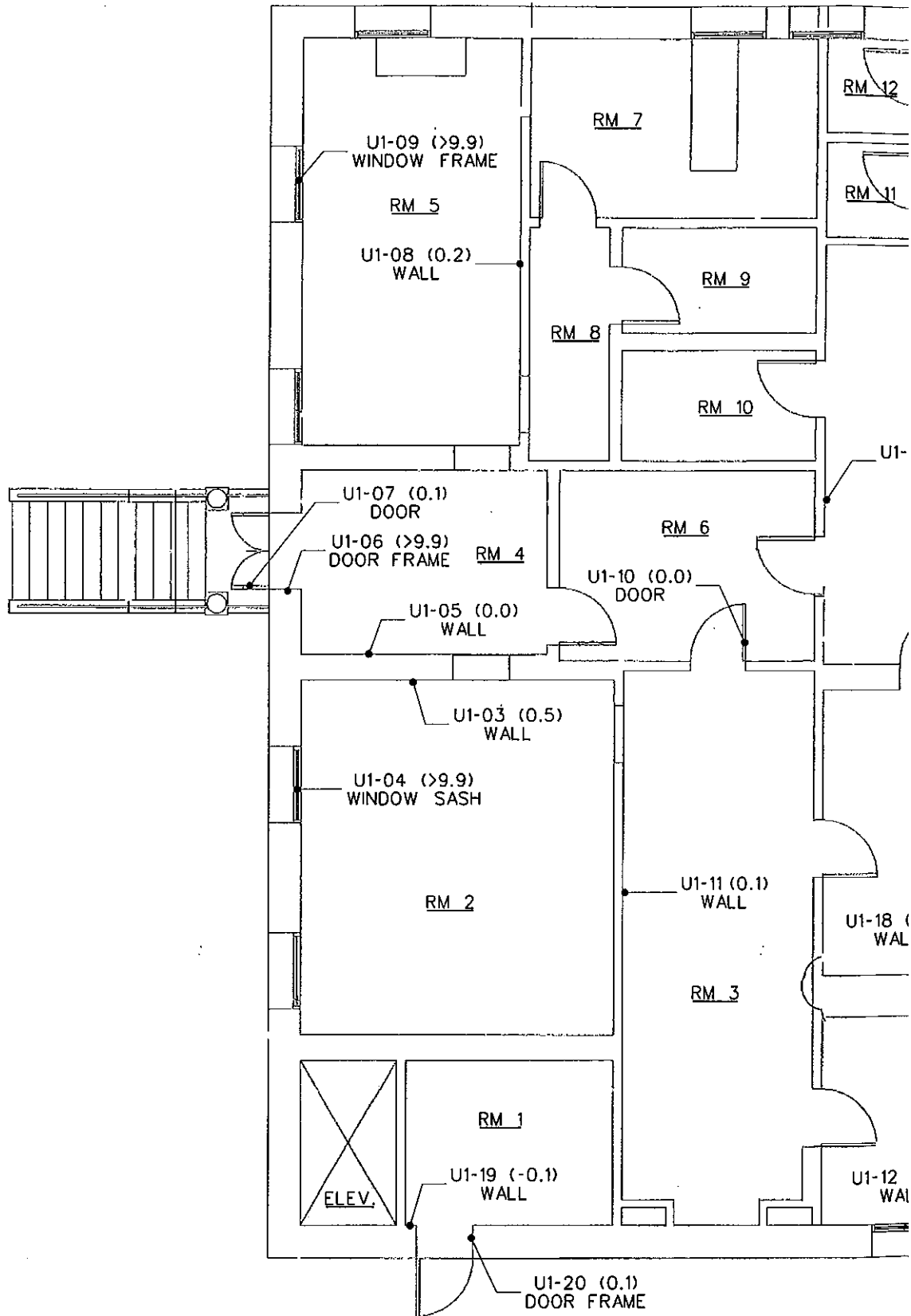
Loose, blistering and flaking paint should be collected and containerized. Each container of paint should be sampled and a TCLP analysis completed by a laboratory licensed to perform these tests.

If the TCLP analysis (toxicity characteristics leaching procedure) indicates the container contents are characteristic of hazardous materials (equal to or greater than 5.0 mg/l), the materials are hazardous waste and must be disposed of as hazardous waste. If the TCLP is less than 5.0 mg/l, the material may be disposed of at a Class Two Landfill.

4.0 XRF READINGS LOCATION PLAN

The following drawing is an XRF reading location plan for this project.

SCALE: 8'-0" / 1" = 1'-0"
PLOT DRIVER: XM Enviplot
PLOTTER: 10/11/2011
PEN TABLE: XM_half.tbl
FILE: H:\J06S000\12893-03\SS\Lead Point.dgn
THESE DRAWINGS AND THE DESIGN THEREON ARE THE PROPERTY OF DAVIS & FLOYD, INC. AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF THE ENGINEER / ARCHITECT AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION



FIRST FLOOR PLAN

SCALE AS SHOWN