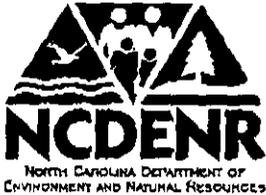




NRC FORM 241  
ATTACHMENT AMACTEC ENGINEERING & CONSULTING OF GEORGIA, INC.  
AUGUST 7, 2003

CLIENT NAME	PHYSICAL ADDRESS/ TELEPHONE NUMBER	SCHEDULE (to be determined)
Harris Contractors Chuck Freeman	1225 West Main Street Radford, Virginia 24141 540-639-1617	
Banker Steel Bob Campbell	1619 Wythe Rd. Lynchburg, VA 24501 434-847-4575	
Buncher Rail Car Service Leon Crist	494 Stokes Drive Hinton, WV 25951 (304) 466-5957	
SEACO Buddy Anderson	126 Reservoir Road Ridgeway, VA 24148 540-956-3176	
Aerofin Corporation Jeff Walker	4261 Murray Place Lynchburg, VA 434-845-7081	



**RADIOACTIVE MATERIALS BRANCH  
RADIATION PROTECTION SECTION  
N. C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES**

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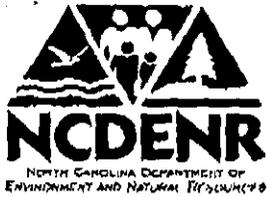
**RADIOACTIVE MATERIALS LICENSE**

Pursuant to North Carolina Regulations for Protection Against Radiation and in reliance on statements and representation heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer, or import radioactive materials listed below; and 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 North Carolina Department of Environment and Natural Resources now and hereafter in effect and to any conditions specified below.

<b>Licensee</b>		<b>3. License No:</b> 041-0082-8	
<b>1. Name:</b>	MACTEC Engineering and Consulting of Georgia, Inc.	<b>4. Expiration Date:</b> February 28, 2004	
<b>2a. Mailing Address:</b>	7347-E West Friendly Avenue Greensboro, NC 27410	<input type="checkbox"/> New License	<input type="checkbox"/> Corrected Copy
<b>b. Physical Address:</b>	7347-J West Friendly Avenue Greensboro, NC 27410	<input type="checkbox"/> Renewal	<input type="checkbox"/> Administrative
		<input checked="" type="checkbox"/> Termination Routine	
		<b>5. Amendment No:</b> 14	
<b>6. Radioactive Material (element and mass no.)</b>	<b>7. Chemical and/or Physical Form</b>	<b>8. Maximum Amount of Radioactivity and/Quantity of Radioactive Material which Licensee May Possess at Any One Time.</b>	
A. Iridium 192	A. Sealed Source (Amersham Model A4249)	A. No single source to exceed 100 curies	
B. Iridium 192	B. Sealed Source (Amersham Model A4249)	B. No single source to exceed 140 curies	
<b>9. Authorized Use:</b>			
A. To be used in an Amertest Model 660A camera for use in industrial radiography and an Amersham Industries Model 650L source changer for source exchange and storage.			
B. To be used in an Amertest Model 660B camera for use in industrial radiography and an Amersham Industries Model 650L source changer for source exchange and storage.			

**CONDITIONS**

10. A. The authorized place of receipt and storage of radioactive material is the licensee's address stated in Item 2b. above.
- B. Radioactive materials may be used at temporary jobsites of the licensee throughout the State of North Carolina in areas under exclusive Federal jurisdiction (Federal installations such as military bases, VA hospitals, etc). Authorization for the use of radioactive materials at temporary jobsites under exclusive Federal jurisdiction shall be obtained either by (1) filing an NRC Form 241 [10 CFR 150.20(b)], or (2) applying for reciprocity, or (3) applying for a specific license from the NRC if the length of the job is to exceed six (6) months.
- C. The North Carolina Radiation Protection Section, Radioactive Materials Branch shall be notified of the location(s) of temporary jobsites within North Carolina, except those under Federal jurisdiction, no later than three (3) days prior to the day of use. If the 3-day notification would impose a hardship on the licensee, the licensee may, upon application to the agency, obtain permission to proceed sooner for a specific job.
- D. This condition does not prohibit the use of radioactive materials in other states; however, before radioactive material can be used at a temporary jobsite in another state, authorization must be obtained from the State, if it is an Agreement State, or from the Nuclear Regulatory Commission for any non-Agreement State, either by filing for reciprocity or applying for a specific license.
- E. Radioactive material may be stored at the U.S. Industrial Piping, Inc. facility located at 105 Woodland Trail, Kernersville, N.C. jobsite trailer and at temporary jobsites.

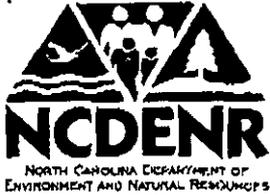


RADIOACTIVE MATERIALS BRANCH  
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N. C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

RADIOACTIVE MATERIALS LICENSE

**CONDITIONS (continued):**

11. The licensee shall comply with the provisions of 15A NCAC 11 .1600, "Standards for Protection Against Radiation," 15A NCAC 11 .1000, "Notices, Instructions, Reports and Inspections," and 15A NCAC 11 .0500, "Safety Requirements for Industrial Radiography Operations." (The North Carolina Regulations for Protection Against Radiation are contained in 15A NCAC 11.)
12.
  - A. Licensed material shall only be used by Mark A. Boger, or licensee employees who have successfully met or exceeded the requirements contained in the MACTEC Engineering and Consulting of Georgia, Inc. Training Section, and who have been designated in writing as having completed these requirements by the Radiation Safety Officer.
  - B. Records of these designations shall be maintained for three (3) years after the company no longer employs the individual.
  - C. The Radiation Safety Officer for the activities authorized by this license shall be Mark A. Boger.
13. The licensee is authorized to receive, possess, and use sealed sources of Iridium 192 or Cobalt 60 where the radioactivity exceeds the maximum amount of radioactivity specified in Item 8 of this license provided:
  - A. Such possession does not exceed the quantity per source specified in Item 8 by more than 20% for Iridium 192 or 10% for Cobalt 60; and
  - B. Records of the licensee show that no more than the maximum amount of radioactivity per source specified in Item 8 of this license was ordered from the supplier or transferor of the radioactive material; and
  - C. The levels of radiation for radiographic exposure devices and storage containers do not exceed those specified in 15A NCAC 11 .0503.
14. The licensee shall not transfer possession and/or control of materials or products containing radioactive material as a contaminant except:
  - A. By transfer of waste to an authorized recipient; or
  - B. By transfer to a specifically licensed recipient; or
  - C. As provided otherwise by specific condition of this license pursuant to the requirements of 15A NCAC 11 .1628.
15. The licensee is authorized to possess, use, and transfer up to 1000 pounds of Uranium contained as shielding material in the radiography exposure devices authorized by this license.
16.
  - A. Pursuant to 15A NCAC 11 .0507, the licensee is authorized to perform tests for leakage or contamination of the sealed source authorized by this license, or tests may be performed by other persons specifically authorized by this agency to perform such services.
  - B. The periodic leak test required by 15A NCAC 11 .0507 does not apply to sealed sources that are stored and not being used. All sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within six (6) months prior to the date of use or transfer.
17. Sealed sources of radioactive material shall not be combined for use in open air techniques to produce a radiation level in excess of the level produced by the largest single source authorized by this license for open air use.
18. The licensee shall conduct a program for inspection and maintenance of radiography exposure devices and storage containers to assure proper functioning of components important to safety. The inspection and maintenance program shall be conducted at intervals not to exceed three (3) months. Records of the results shall be maintained for inspection by the agency.
19. In accordance with 15A NCAC 11 .0509, the licensee shall maintain current utilization logs for inspection by the agency at the address specified in Item 2b.



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CONDITIONS (continued):

20. In accordance with 15A NCAC 11 .0508, the licensee shall conduct a quarterly physical inventory to account for all sealed source received and possessed under the license.
21. In addition to the possession limits in Item 8 above, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 15A NCAC 11 .0353 for establishing decommissioning financial assurance.
22. The licensee may transport licensed material or deliver licensed material to a carrier for transport, in accordance with the provisions of Section 71.5, Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Material For Transport."
23. The licensee shall annually review its Radiation Protection Program for content and implementation [Ref. 15A NCAC 11 .1603(c)]. Documentation of the Radiation Protection program reviews shall be retained for inspection by the agency [Ref. 15A NCAC 11 .1636].
24. The licensee shall institute the provisions of 15A NCAC 11 .1610 when an occupationally exposed woman voluntarily informs her supervisor, in writing, of her pregnancy and the estimated date of conception.
25. The licensee shall ensure that no individual "member of the public" [Reference: 15A NCAC 11 .0104(64)] receives a radiation dose in excess of the limits specified in 15A NCAC 11 .1611(a) while conducting licensed operations.
26. This license may be subject to amendment, revision, modification, suspension, or revocation in accordance with the provisions of 15A NCAC 11 .0344.
27. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 7., and 8. of this license in accordance with statements, representations and procedures contained in:
  - A. Application with attachments dated January 28, 1999, letter with attachments dated March 24, 1999 and telephone message received May 06, 1999 from Mark A. Boger, R.S.O.
  - B. Letter and application for amendment with attachment dated February 27, 2003, signed by Mark A. Boger, R.S.O.

Date of Issuance:

March 26, 2003

  
For: Beverly O. Hall, Chief  
Radiation Protection Section