

NRC FORM 241 (8-2002)		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0013 <small>Estimated burden per response to comply with this mandatory collection request: 15 minutes. This notification is required so that NRC may schedule inspection of the activities to ensure that they are conducted in accordance with requirements for protection of the public health and safety. Send comments regarding burden estimate to the Records Management Branch (7-6 EB), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to info@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NE08-10202, (3150-0013), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.</small>	
REPORT OF PROPOSED ACTIVITIES IN NON-AGREEMENT STATES, AREAS OF EXCLUSIVE FEDERAL JURISDICTION, OR OFFSHORE WATERS <i>(Please read the instructions before completing this form)</i>					
1. NAME OF LICENSEE (Person or firm proposing to conduct the activities described below) MACTEL Engineering & Consulting, Inc			<input checked="" type="checkbox"/> INITIAL <input type="checkbox"/> REVISION <input type="checkbox"/> CLARIFICATION		
3. ADDRESS OF LICENSEE (Mailing address or other location where licensee may be located) 720 Glenn Rd, Ste. 132 Columbia, SC 29210			4. LICENSEE CONTACT AND TITLE Kevin Nicholson RSO		
			5. TELEPHONE NUMBER (Include Area Code) 803-798-1200		6. FACSIMILE NUMBER (Include Area Code) 803-750-1303
7. ACTIVITIES TO BE CONDUCTED UNDER THE GENERAL LICENSE GIVEN IN 10 CFR 150.20					
<input type="checkbox"/> WELL LOGGING		<input type="checkbox"/> LEAK TESTING AND/OR CALIBRATIONS		<input type="checkbox"/> TELE THERAPY/RADIATOR SERVICE	
<input type="checkbox"/> PORTABLE GAUGES		<input type="checkbox"/> OTHER (Specify) ⇒ _____			
<input checked="" type="checkbox"/> RADIOGRAPHY ⇒		REGISTERED AS USER OF PACKAGING (CERTIFICATES OF COMPLIANCE NUMBERS) Model 924-A INEA Special Form RA No. USA/0335/S			
8. CLIENT NAME, ADDRESS, CITY/COUNTY, STATE, ZIP CODE John J. Kirlin, Inc. 11-550 Jenkins Rd. Ft. Jackson, SC 29207			9. ACTUAL PHYSICAL ADDRESS OF WORK LOCATION (Street and Number or other location. Give as complete an address or directions as possible.) Same		
			10. CLIENT TELEPHONE NUMBER (Include Area Code) 803-743-4407		11. WORK LOCATION TELEPHONE NUMBER (Include Area Code) 803-743-4432
12. DATES SCHEDULED		13. NUMBER OF WORK DAYS	14. ADD	15. DELETE	16. LOCATION REFERENCE NUMBER
FROM	TO	20			NUMBER TO BE ASSIGNED BY NRC 001041
17. LIST ADDITIONAL WORK SITES ON SEPARATE SHEET(S) TO INCLUDE ALL INFORMATION CONTAINED IN ITEMS 8-16 ABOVE.					
17. LIST RADIOACTIVE MATERIAL WHICH WILL BE POSSESSED, USED, INSTALLED, SERVICED, OR TESTED (Include description of type and quantity of radioactive material, sealed sources, or devices to be used.) Ir-192 100 Curies Installed In A Amersham 660 Series Exposure Device					
18. AGREEMENT STATE SPECIFIC LICENSE WHICH AUTHORIZES THE UNDERSIGNED TO CONDUCT ACTIVITIES WHICH ARE THE SAME, EXCEPT FOR LOCATION OF USE, AS SPECIFIED IN ITEM 9 ABOVE. (Four copies of the specific license must accompany the initial NRC Form 241.)			LICENSE NUMBER 271	STATE SC	EXPIRATION DATE 2-28-2008
19. CERTIFICATION (MUST BE COMPLETED BY APPLICANT)					
I, THE UNDERSIGNED, HEREBY CERTIFY THAT:					
a. All information in this report is true and complete.					
b. I have read and understand the provision of the general license 10 CFR 150.20 reprinted on the instructions of this form; and I understand that I am required to comply with these provisions as to all byproduct, source, or special nuclear material which I possess and use in non-Agreement States or offshore waters under the general license for which this report is filed with the U.S. Nuclear Regulatory Commission.					
c. I understand that activities, including storage, conducted in non-Agreement States under general license 10 CFR 150.20 are limited to a total of 180 days in calendar year. With the exception of work conducted in off-shore waters, which is authorized for an unlimited period of time in the calendar year.					
d. I understand that I may be inspected by NRC at the above listed work site locations and at the Licensee home office address for activities performed in non-Agreement States or offshore waters.					
e. I understand that conduct of any activities not described above, including conduct of activities on dates or locations different from those described above or without NRC authorization, may subject me to enforcement action, including civil or criminal penalties.					
CERTIFYING OFFICER (Name and Title) Kevin Nicholson RSO			SIGNATURE 		DATE 9/29/03
WARNING: False statements in this certificate may be subject to civil and/or criminal penalties. NRC regulations require that submissions to the NRC be complete and accurate in all material respects. 18 U.S.C. Section 1001 makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.					
FOR NRC USE ONLY		REVIEWING OFFICIAL (Typed/Printed Name and Title) E JLLRICH		SIGNATURE 	DATE 10/1/03
		TOTAL USAGE - DAYS TO DATE 26			

② 10/01/03



2600 Bull Street
Columbia, SC 29201-1708

February 19, 2003

Mactec Engineering and Consulting, Inc.
Kevin Nicholson, RSO
720 Gracern Road, Suite 132
Columbia, SC 29210

Dear Mr. Nicholson:

In accordance with your renewal application dated January 14, 2002 and letter dated November 8, 2002, your S.C. Radioactive Material License No. 271 has been renewed. The enclosed License Amendment No. 29 extends the expiration date until February 28, 2008 and amends the license in its entirety. This license supersedes the original license and all previous amendments.

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

Very truly yours,

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

/dlk

Enclosures

**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. 29 amends

LICENSEE		3. License Number:
1. Name: Mactec Engineering and Consulting, Inc.		271 in its entirety
2. Address: 720 Gracern Road, Suite 132 Columbia, SC 29210		4. Expiration Date: February 28, 2008
5. Radioactive Material (Element & Mass No.)	6. Chemical and/or Physical Form	7. Maximum Radioactivity and quantity of material which licensee may possess at any one time.
A. Iridium 192	A. Sealed source AEA Technology, QSA Inc./Model 660A	No single source to exceed 116 curies
B. Cobalt 60	B. Sealed source AEA Technology, QSA Inc./Model 680	No single source to exceed 100 curies
C. Cesium 137	C. Sealed source Gamma Industries Model 137B	No single source to exceed 5 millicuries.
8. Authorized Use:		
A. To be used in an AEA Technology, QSA, Inc. Model 660A exposure device for industrial radiography and in an AEA Technology, QSA, Inc. Model 650L source changer for source exchange and storage.		
B. To be used in AEA Technology, QSA, Inc. Model 680 series exposure device for industrial radiography and in an AEA Technology, QSA, Inc. Model 771 source changer for source exchange and storage.		
C. To be used in Gamma Industries Model 137B Dosimeter Calibrator.		

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

License No. 271
Amendment No. 29

Conditions

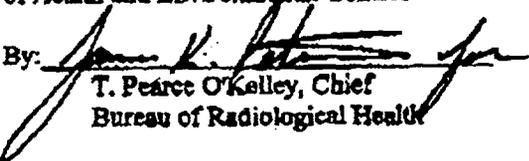
9. Licensed material may be stored at the licensee's facilities located at the address listed in Item 2 above and may be used at temporary job sites of the licensee anywhere in South Carolina where the South Carolina Department of Health and Environmental Control Regulatory Commission maintains jurisdiction for regulating the use of licensed material. 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 62, 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, Part V - Special Requirements for Industrial Radiographic Operations, and Part VI - Notices, Instructions, and Reports to Workers; Inspections.
11. Only those persons who have satisfactorily completed Mater. Engineering and Const. Inc.' training program as described in procedural manual entitled Radiographic Manual dated November 2002, and have met the requirements outlined in RHA 5.12.1 and RHA 5.12.2 shall be authorized by this license to act as radiographers and radiographer's assistants as defined in RHA 5.3.1 and RHA 5.3.2 respectively. The licensee shall maintain records of training for individuals who have completed the training program.
12. Kevin Nicholson is designated as the licensee's Radiation Safety Officer. The Radiation Safety Officer or his designee shall conduct field audits every six (6) months of all radiographers and radiographer's assistants. Records of such audits shall be maintained for inspection by the Department.
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 7 of this license provided:
 - A. Such possession does not exceed the quantity per source specified in Item 7 by more than 20 % for Iridium-192 or 10 % for Cobalt-60;
 - B. Records of the licensee show that no more than the maximum amount of radioactivity per source specified in Item 7 of the 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 RHA 5.5, Part V.
14. The licensee is authorized to possess, use, and transfer up to 400 Kilograms of depleted uranium contained as shielding in radiography exposure devices and source changers authorized by their license.

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

License No. 271
Amendment No. 29

15. 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 six (6) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) 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 shall be available 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 and Environmental Control, 2600 Bull Street, Columbia, South Carolina 29201, describing the equipment used for the test results, and the corrective action taken.
16. The licensee is authorized to collect leak test samples for analysis by an approved vendor. 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.
17. Radioactive material shall be transported in accordance with requirements of 49 CFR 173.44 - Transportation of Radioactive Materials, Department Regulation 61-63 - Rule A.
18. The licensee shall conduct a three (3) month inventory accounting of all Radiographic Cameras and Source Changers 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 Radiographic Cameras and Source Changers, and the date of the inventory.
19. Sealed sources containing radioactive material shall not be opened by the licensee.
20. Except as specifically provided otherwise, the licensee shall possess and use radioactive material described in Items 5, 6, and 7 of this license in accordance with statements, printed labels, and procedures contained in the following documents.
- A. Renewal application dated January 14, 2002, signed by Kevin Nicholson.
- B. Additional information letter dated November 8, 2002, signed by Kevin Nicholson.

For the South Carolina Department
of Health and Environmental Control

By: 
T. Pearce O'Kelley, Chief
Bureau of Radiological Health

Date of Issuance: February 18, 2003