# DIAMOND ENGINEERING, INC.

410 Main Street / P.O. Box 706 Greenup, Kentucky 41144 (606) 473-5474, 473-6848 or 473-5558 E-MAIL: diamond@wwd.net FAX (606) 473-5432

April 28, 2000

Regional Administrator Division of Nuclear Material Safety Attention: Reciprocity Request U. S. Nuclear Regulatory Commission Region II Sam Nunn Atlanta Federal Center 61 Forsyth Street, S. W. Suite 23T85 Atlanta, GA 30303-8931

Dear permit reviewer:

RE: NRC Form 241

Report of Proposed Activities in Non-Agreement State

TRANSMITTAL OF APPLICATION

Enclosed please find four (4) copies of NRC Form 241 with Radioactive Material License, an application and a fee payment in the amount of twelve hundred dollars (\$1,200.00).

If you need anything further, please contact our office.

Yours truly,

Philip T. Biggs, PE, PLS

President & General Manager

**Enclosure** 

PTB:vb

APPLIC.DOC/APPLICATION NUCLEAR DENSITY GAUGE

U.S. Muclear Regulatory

NRC Jorn 241

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	(Person or firm proposing to conduct the ectivities		respond to, th		OF REPORT				
	ENGINEERING, INC.		X INIT		ION CLARIFICATION				
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2	ENGINEERING, INC.			PHILIP T. BIGGS, PE, PLS					
401 MAIN	STREET			PRESIDENT & GENERAL MANAGER					
P. O. BO			5. TELEPHONE	NUMBER Code)	B. FACSHALE NUMBER (Include Aree Code)				
GREENUP	KENTUCKY 41144		606-47	606-473-5474 606-473-5432					
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P. O. BO		HUNT	INGTON, WI	EST VIRGINIA					
· ·	WEST VIRGINIA 25507-	-0429							
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	LIST ADDITIONAL WORK SITES ON SEPARATE SHEET(S) TO INCLUDE ALL INFORMATION CONTAINED IN ITEMS 9-16 ABOVE.  17. LIST RADIOACTIVE MATERIAL, WHICH WILL BE POSSESSED, USED, INSTALLED, SERVICED, OR TESTED								
(Include description	il type and quantity of radioactive material, seeled	sources, or devices to be use	ed.)						
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AMERICIO	AMERICIUM 241:BE CPN MODEL MC 500 SERIES MOISTURE/DENSITY GAUGES								
18. AGRESMENT STATE	SPECIFIC LICENSE WHICH AUTHORIZES THE UP	UCENSE NUMBE	R STATE	EXPIRATION DATE					
ABOVE. (Four copi	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.)			2-51 KY	9-30-2000				
I. THE UNDERSIGNED	19. CERTIFICAT HEREBY CERTIFY THAT:	TION (MUST BE COME	LETED BY APPL	ICANT)					
3	n in this report is true and complete.								
b. I have read a	nd understand the provision of the genera	il Roense 10 CFR 150,20 r	eprinted on the inst	ructions of this form	; and I understand that I am				
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•	ear. With the exception of work conducted								
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Spore of Min	above or without NRC authorization, may subject me to enforcement action, including civil or criminal penalties,  EKREYING OFFICER - RSO or Management Representative (Name and Title)  SCHATURE - CA								
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FOR NRC REM	Chief, MLIB2	SKINAGUNE	-	DATE	TOTAL USAGE - DAYS TO DATE				

MAC FORM 241 (7-1909)

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	1. NAME OF LICENSEE (Person or firm proposing to conduct the activities described below)					2. TYPE OF REPORT				
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33						PHILIP T. BIGGS, PE, PLS				
. <b>∠</b> ;	P. O. BOX 706				PRESIDENT & GENERAL MANAGER  5. TOLEPHONE NUMBER  6. FACSIMILE NUMBER					
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Atlanta	I, THE UNDERSIGNED, HEREBY CERTIFY THAT:									
7	a. All information in this report is true and complete.									
1 ,	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									
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8	d. I understand that I may be inspected by NRC at the above fisted work site locations and at the Licensee home office address for activities performed in									
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562-4723						PHILIP T. BIGGS, PE, PLS PRESIDENT & GENERAL MANAGER					
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1	17. LIST RADIOACTIVE MATERIAL, WHICH WILL BE POSSESSED, USED, INSTALLED, SERVICED, OR TESTED RINCHARD DESCRIPTION OF TYPE and Quantity of radioactive material, sented sources, or devices to be used.)										
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: 5	ABONE. (Four copies o	the specific license must accompan	y the initial NR(	Form 241.)	201-522	-51	KY 9	-30-2000			
Atlanta	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 ficense 10 CFR 150.20 reprinted on the instructions of this form; and I understand that I am										
= 1	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 ficense for which this report is filed with the U.S. Nuclear Regulatory Commission.  a. I understand that activities, including storage, conducted in non-agreement States under general ficense 10 CFR 150.20 are limited to a total of 180 days.										
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MRC FORM 241 (7-1909)

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/_VERIFY (404) 562-4723		
FAX (404) 562-4866	3/5/7	
USNKC Region II - Atlanta GA	* ***** **	
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NAC FORM 241 (7-1909)

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## CABINET FOR HEALTH SERVICES COMMONWEALTH OF KENTUCKY RADIOACTIVE MATERIAL LICENSE

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PAGE

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1. LICENSEE AND 2. ADDRESS

AUG 27 1999

CZOMAIO ENGINEERING, INC.

DIAMOND ENGINEERING 410 MAIN STREET PO BOX 706 GREENUP, KY 41144

ATTENTION: PHILIP T. BIGGS TELEPHONE: 606-473-5474

PURSUANT TO KRS 211.842 ET SEQ., THE KENTUCKY CABINET FOR HUMAN RESOURCES REGULATIONS, 902 KAR 100, AND IN RELIANCE ON STATEMENTS AND REPRESENTATIONS HERETOFORE MADE BY THE LICENSEE, A LICENSE IS HEREBY ISSUED TO RECEIVE, ACQUIRE, OWN, 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, REGULATIONS, AND ORDERS OF THE CABINET FOR HUMAN RESOURCES, NOW OR HEREINAFTER IN EFFECT AND TO ANY CONDITIONS SPECIFIED BELOW.

LICENSE NUMBER: 201-522-51 3.

AMENDMENT NO.

4.

EXPIRATION DATE: SEPTEMBER 30, 2000

5. REVIEWER:

41

LICENSED MATERIAL 7. FORM 6.

8. POSSESSION LIMIT

A. CESIUM 137

A. SEALED SOURCE A. NO SINGLE SOURCE TO (CPN COMPANY EXCEED 10 MILLI-

CURIES

В.

MODEL 131)

AMERICIUM 241:BE B. SEALED SOURCE B. NO SINGLE SOURCE TO EXCEED 50 MILLI-

(CPN COMPANY MODEL 131)

CURIES

## CABINET FOR HEALTH SERVICES COMMONWEALTH OF KENTUCKY RADIOACTIVE MATERIAL LICENSE

LICENSE NUMBER: 201-522-51 

AMENDMENT 9

PAGE

- 9. AUTHORIZED USE
- A. AND B. FOR USE IN CPN MODEL MC AND/OR 500 SERIES MOISTURE/ DENSITY GAUGES TO MEASURE PROPERTIES OF CONSTRUCTION MATERIALS.

#### CONDITIONS:

- THE LICENSEE SHALL COMPLY WITH THE PROVISIONS OF THE KENTUCKY CABINET FOR HUMAN RESOURCES ADMINISTRATIVE RADIATION REGULATIONS, 902 KAR 100.
- 11. RADIOACTIVE MATERIAL MAY BE STORED AT: 410 MAIN STREET, GREENUP, KY 41144

RADIOACTIVE MATERIAL MAY BE USED AT TEMPORARY JOB SITES, IN AREAS NOT UNDER EXCLUSIVE FEDERAL JURISDICTION, ANYWHERE IN THE COMMONWEALTH OF KENTUCKY WHERE THE CABINET MAINTAINS JURISDIC-TION FOR REGULATING THE USE OF RADIOACTIVE MATERIAL. (THIS CONDITION DOES NOT PROHIBIT USE IN OTHER STATES UNDER RECIPRO-CITY PRIVILEGES WHICH MAY BE GRANTED BY THE REGULATORY AGENCY HAVING JURISDICTION.)

RADIOACTIVE MATERIAL SHALL BE USED BY, OR UNDER THE DIRECT SUPERVISION AND IN THE PHYSICAL PRESENCE OF:

PHILIP T. BIGGS MICHAEL T. COLLEY

DAVID A. LILES

- THE RADIATION SAFETY OFFICER FOR THE ACTIVITIES AUTHORIZED BY THIS LICENSE IS PHILIP T. BIGGS .
- TESTS FOR LEAKAGE AND/OR CONTAMINATION SHALL BE PERFORMED BY 14. PERSONS SPECIFICALLY AUTHORIZED BY THE CABINET, U.S. NUCLEAR REGULATORY COMMISSION, OR AN AGREEMENT STATE.
- SEALED SOURCES CONTAINING RADIOACTIVE MATERIAL SHALL NOT BE 15. OPENED OR REMOVED FROM THEIR RESPECTIVE SOURCE HOLDERS BY THE LICENSEE.
- ANY CLEANING, MAINTENANCE OR REPAIR OF THE GAUGE(S) INVOLVING REMOVAL OF THE SOURCE ROD FROM THE DEVICES OR REMOVAL OR DISMANTLING OF SHIELDING MAY BE PERFORMED ONLY BY THE MANUFAC-TURER OR BY OTHER PERSONS SPECIFICALLY AUTHORIZED BY THE CABINET, THE U. S. NUCLEAR REGULATORY COMMISSION OR AN AGREE-MENT STATE TO PERFORM SUCH SERVICES.

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- EACH PORTABLE 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 NOT UNDER THE DIRECT SURVEILLANCE OF AN AUTHORIZED USER.
- 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 TWO (2) YEARS FROM THE DATE OF THE INVENTORY FOR INSPECTION BY THE CABINET, AND SHALL INCLUDE THE QUANTITIES AND KINDS OF RADIOACTIVE MATERIAL, LOCATION OF SEALED SOURCES, AND THE DATE OF THE INVENTORY.
- 19. THE LICENSEE MAY TRANSPORT RADIOACTIVE MATERIAL, OR DELIVER RADIOACTIVE MATERIAL TO A CARRIER FOR TRANSPORT, IN ACCORDANCE WITH THE PROVISIONS OF 902 KAR 100:070, AND OTHER DEPARTMENTS OF THE COMMONWEALTH OF KENTUCKY HAVING JURISDICTION.
- IN ADDITION TO THE POSSESSION LIMITS IN ITEM 8, THE 20. LICENSEE SHALL FURTHER RESTRICT THE POSSESSION OF RADIOACTIVE MATERIAL TO QUANTITIES BELOW THE MINIMUM LIMIT SPECIFIED IN 902 KAR 100:040, SECTION 15, FOR ESTABLISHING DECOMMISSIONING FINANCIAL ASSURANCE.
- EXCEPT AS SPECIFICALLY PROVIDED OTHERWISE IN THIS LICENSE, 21. THE LICENSEE SHALL CONDUCT ITS PROGRAM IN ACCORDANCE WITH THE STATEMENTS, REPRESENTATIONS, AND PROCEDURES CONTAINED IN THE DOCUMENTS, INCLUDING ANY ENCLOSURES, LISTED BELOW. THE CABINET FOR HUMAN RESOURCES REGULATIONS, 902 KAR 100, SHALL GOVERN UNLESS STATEMENTS, REPRESENTATIONS, AND PROCEDURES IN THE LICENSEE'S APPLICATION AND CORRESPONDENCE ARE MORE RESTRICTIVE THAN THE REGULATION.
  - A. APPLICATION DATED DECEMBER 1, 1998, SIGNED BY PHILIP T. BIGGS, PRESIDENT AND GENERAL MANAGER.

## CABINET FOR HEALTH SERVICES COMMONWEALTH OF KENTUCKY RADIOACTIVE MATERIAL LICENSE

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### B. LETTERS DATED:

- 1. MARCH 11, 1999, SIGNED BY PHILIP T. BIGGS, PRESIDENT AND GENERAL MANAGER.
- 2. APRIL 20, 1999, SIGNED BY PHILIP T. BIGGS, PRESIDENT AND GENERAL MANAGER.

SUPERVISOR

SUPERVISOR
RADIATION & TOXIC AGENTS
CONTROL SECTION

JOHN H. MORSE

SECRETARY
CABINET FOR HEALTH SERVICES

DATE ISSUED AUGUST 24, 1999