REGION II Calendar Year 2001

TRANSMITTAL FOR NRC, FORM 241	& REVISI	<u>ON SUBMITTALS</u>
3/7/01		
INITIAL 241 PACKAGE	LRN	000528
[] REVISION	LRN	
[] CLARIFICATION	LRN	
LICENSEE NAME : GEMEN	gines	ing the
LICENSE STATE : KU NUMBER	: 20	-642-51
CHECK NO: 00/167		
CHECK AMOUNT: \$ 1200.00	I. A	
FORWARDED BY:	Revis	ion Clarification
includes: Form 241 Fee License Copy		

LICENSE FEE & ACCOUNT RECEIVABLE BRANCH

Fee	Category	and	Amount:	
	Fee	Fee Category	Fee Category and	Fee Category and Amount:

2. Correct Fee Paid. Submittal may be processed for:

General License _____

Revision

Signed _____ Date _____

1/2001

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P.02



GEM Engineering, Inc. 2219 Plantside Drive Louisville, Kentucky 40299 phone (502) 493-7100 fax (502) 493-8190 email <u>mail@gemeng.com</u>

TRANSMIT TO:

Attention:	Regional Administrator
Agency:	Division of Nuclear Material Safety
	Attn: Reciprocity Request
	U.S. NRC, Region II
	Sam Nunn Atlanta Federal Center
Street Address:	61 Forsyth Street, SW, Suite 23T85
City, State, ZIP	Atlanta, GA 30303-8931



FROM:

Michael Ronayne

ATTACHMENTS:

No. of Copies	Description
4	Report of Proposed Activities (form 241)
1	Check for Application Fee
4	Copy of Kentucky License

N.

LICENSEE AND 2. ADDRESS 1.

> GEM ENGINEERING, INC. 2219 PLANTSIDE DRIVE LOUISVILLE, KY 40299

ATTENTION: G.T. "JERRY" VANDEVELDE, PRESIDENT TELEPHONE: 502-493-7100

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. _____

3. LICENSE NUMBER: 201-642-51

- AMENDMENT NO. 0
- 4. EXPIRATION DATE: APRIL 30, 2001
- 5. REVIEWER: 44

8. POSSESSION LIMIT

EXCEED 9 MILLI-

CURIES

CURIES

- 6. LICENSED MATERIAL 7. FORM
- A. AMERICIUM 241 A. SEALED SOURCE A. NO SINGLE SOURCE TO (TROXLER DRAWING EXCEED 44 MILLI-#A-102451)
- B. SEALED SOURCE B. NO SINGLE SOURCE TO B. CESIUM 137 (TROXLER DRAWING #A-102112)
- C. AMERICIUM 241 C. SEALED SOURCE C. NO SINGLE SOURCE TO (CPN MODEL 131) EXCEED 50 MILLI-CURIES

PAGE 1

LICE	NSE NUMBER:	201-642-51	AMENDMENT 0			PAGE	2
D.	CESIUM 137		SEALED SOURCE (CPN MODEL 131)	D.	NO SINGLE EXCEED 10 CURIES		ТО

9. AUTHORIZED USE

- A. AND B. TO BE USED IN TROXLER MODEL 3400 SERIES MOISTURE/DENSITY GAUGE TO MEASURE PROPERTIES OF CONSTRUCTION MATERIALS.
- C. AND D. TO BE USED IN CAMPBELL PACIFIC NUCLEAR INC. MODEL MC SERIES MOISTURE/DENSITY GAUGES TO MEASURE PROPERTIES OF CONSTRUCTION MATERIALS.

_____ CONDITIONS:

- THE LICENSEE SHALL COMPLY WITH THE PROVISIONS OF THE KENTUCKY 10. CABINET FOR HUMAN RESOURCES ADMINISTRATIVE RADIATION REGULATIONS, 902 KAR 100.
- 11. RADIOACTIVE MATERIAL MAY BE STORED AT: SAME AS ITEM #2.

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.)

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

JAMES G. ALEXANDER	JOHN NEAL
JAMES W. BREWER	MICHAEL C. RONAYNE
MELISA DAUMEN	RICHARD L. TINGLE
CHRISTY GARRETT	G.T. VANDEVELDE

13. THE RADIATION SAFETY OFFICER FOR THE ACTIVITIES AUTHORIZED BY THIS LICENSE IS MICHAEL RONAYNE .

LICENSE NUMBER:	201-642-51	AMENDMENT 0	PAGE	3

14. THIS LICENSEE IS AUTHORIZED TO COLLECT LEAK TEST SAMPLES IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE LICENSEE'S APPLICATION DATED APRIL 3, 2000 FOR ANALYSIS BY PACIFIC NUCLEAR TECHNOLOGY . ALTERNATIVELY, LEAK TEST SAMPLES MAY BE COLLECTED AND/OR ANALYZED BY OTHER PERSONS SPECIFICALLY AUTHORIZED BY THE CABINET, U.S. NUCLEAR REGULATORY COMMISSION OR AN AGREEMENT STATE.

- 15. SEALED SOURCES CONTAINING RADIOACTIVE MATERIAL SHALL NOT BE OPENED OR REMOVED FROM THEIR RESPECTIVE SOURCE HOLDERS BY THE LICENSEE.
- 16. 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.
- 17. 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.
- 20. IN ADDITION TO THE POSSESSION LIMITS IN ITEM 8, THE 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.

LICENSE NUMBER: 201-642-51 AMENDMENT 0 PAGE 4

- 21. 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 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 APRIL 3, 2000, SIGNED BY G.T. VANDEVELDE, P.E., PRESIDENT.
 - B. LETTERS DATED:

. . **.**

- 1. APRIL 17, 2000, SIGNED BY MICHAEL C. RONAYNE, P.E., VICE-PRESIDENT.
- 2. APRIL 19, 2000, FAX FROM MICHAEL C. RONAYNE, P.E., VICE-PRESIDENT.
- 3. APRIL 26, 2000, SIGNED BY MICHAEL C. RONAYNE, P.E., VICE-PRESIDENT.

pe, Ph. D

SUPERVISOR RADIATION HEALTH & TOXIC AGENTS BRANCH

DATE ISSUED MAY 2, 2000

JIMMY D. HELTON

SECRETARY CABINET FOR HEALTH SERVICES