CONTROL NUMBER: 318676

ITEMS 5 & 6. MATERIALS TO BE POSSESSED AND PROPOSED USES

Radioisotopes: Am-241:Be, Cs-137, and Ra-226:Be

Device manufacturer and models: Seaman Nuclear Corporation models C-300, C-200, and C-75. These are listed in the Sealed Source and Device Registry. For additional information see the enclosed page titled: "Devices and Sealed Source Details". Quantity: Not to exceed maximum activity per source as specified in Sealed Source and Device Registration Sheets.

The following devices are currently in our possession: Seaman Nuclear Corporation model: <u>C-200</u> containing Ra-226:Be, We also plan on purchasing an additional model: <u>C-200</u> containing Ra-226:Be, and a Troxler 3430 Plus or equal that would contain the following sources listed in the table below, for a total of up to 3 testing devices.

Radiological				
Gamma Source	0.30 GBq (8 mCl) ±10% Cs-137			
Neutron Source	1.48 GBq (40 mCl) ±10% Am-241:Be			
Source Housing	Stainless Steel Encapsulation			
Shielding	Tungsten, lead, and cadmium			
Surface Dose Rate (5 cm)	19 mrem/hr max., neutron and gamma			
Source Rod Material	Stainless Steel			
Shipping Case	DOT 7A, Type A, Yellow II label, TI = 0.3			
Sealed Source Approved for Domestic and International Shipments	Special For			

Use: Measuring the physical properties of construction materials as specified in Sealed Source and Device Registration Sheets.

Financial Assurance is Not Required. Quantities of material possessed will be less than limits specified in 10 CFR 30.35.

CONTROL NUMBER: 318676

ITEM 7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND **EXPERIENCE - RADIATION SAFETY OFFICER**

The RSO is <u>Greg Dorge</u>. The RSO has attended a portable gauge manufacturer's training course.

" Before obtaining licensed materials, the proposed RSO will have successfully completed one of the training courses described in Criteria in the section entitled 'Individual(s) Responsible for Radiation Safety Program and Their Training and Experience - Radiation Safety Officer' in NUREG-1556, Vol. 1, Rev. 1, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Portable Gauge Licenses,' dated November 2001 "

We understand that the RSO will not be able to be changed internally, that the NRC must do that for us via the amendment process



Check Photo ID

Missouri Department of Transportation

Greg Dorge

has successfully completed Radition Safety Officer Training conducted by MO State Emergency Mgt Agency and Mo Dept of Transportation in accordance with US DOT requirements of 49 CFR 172, Subpart H and License Requirements from the US Nuclear Regulatory Commission

11/14/2008

Vho (hoo

Tem Masso
Radiation Safety Trainer

CONTROL NUMBER: 318676

ITEMS ALSO NOTED:

The Portable Gauges in our possession are used at temporary job-sites. They are used to check compaction of material on construction sites.

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USNRC RIII

APPENDIX I

Typical Duties and Responsibilities of the Radiation Safety Officer and Sample Delegation of Authority

Model Radiation Safety Officer Duties and Responsibilities

The duties and responsibilities of the Radiation Safety Officer (RSO) include ensuring radiological safety and compliance with NRC and DOT regulations and the conditions of the license. Model procedures for describing the RSO's duties and responsibilities appear below. Applicants may either adopt these model procedures or develop alternative procedures to meet the requirements of 10 CFR 35.24. As a result of implementation of the EPAct, licensed material now includes accelerator-produced radioactive materials and discrete sources of Ra-226. Licensees authorized under 10 CFR 30.32(j) to produce and noncommercially transfer PET radioactive drugs to consortium members should review the model duties and responsibilities below, expanding on them as necessary to ensure radiation safety oversight of the production and transfer only to medical use consortium members.

Typically, these duties and responsibilities include ensuring the following:

- Unsafe activities involving licensed material are stopped;
- Radiation exposures are ALARA;
- Up-to-date radiation protection procedures in the daily operation of the licensee's byproduct material program are developed, distributed, and implemented;
- Possession, use, and storage of licensed material are consistent with the limitations in the license, the regulations, the SSDR certificate(s), and the manufacturer's recommendations and instructions;
- Individuals installing, relocating, maintaining, adjusting, or repairing devices containing sealed sources are trained and authorized by an NRC or Agreement State license;
- Personnel training is conducted and is commensurate with the individual's duties regarding licensed material;
- Documentation is maintained to demonstrate that individuals are not likely to receive, in
 l year, a radiation dose in excess of 10% of the allowable limits or that personnel
 monitoring devices are provided;
- When necessary, personnel monitoring devices are used and exchanged at the proper intervals, and records of the results of such monitoring are maintained;
- Licensed material is properly secured;
- Documentation is maintained to demonstrate, by measurement or calculation, that the total
 effective dose equivalent to the individual likely to receive the highest dose from the
 licensed operation does not exceed the annual limit for members of the public;
- Proper authorities are notified of incidents such as loss or theft of licensed material, damage to or malfunction of sealed sources, and fire;

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USNRC RIII

CMPS

APPENDIX-I

- Medical events and precursor events are investigated and reported to NRC, cause(s) and appropriate corrective action(s) are identified, and timely corrective action(s) are taken;
- Audits of the Radiation Protection Program are performed at least annually and documented;
- If violations of regulations, license conditions, or program weaknesses are identified, effective corrective actions are developed, implemented, and documented;
- Licensed material is transported, or offered for transport, in accordance with all applicable DOT requirements;
- Licensed material is disposed of properly;
- Appropriate records are maintained; and
- An up-to-date license is maintained, and amendment and renewal requests are submitted in a timely manner.

Model Delegation of Authority

Mexno To:	Radiation Safety Officer Chief Executive Officer		••	
ensuring the radiation prof corrective delegated to by employer radiation so	Delegation of Authority Req Derge sale use of radiation. You retection problems; initiating re actions; stopping unsafe a the authority necessary to ma see who do not meet the necessary. You are required to n	g, recommending, or providing completivities; and ensuring complete those responsibilities, increasing requirements and shurt courty management if staff do	adiation Safety Officer and are region to Radiation Protection Programs of corrective actions; verifying implement with regulations. You are building prohibiting the use of bypriting down operations where justifies not cooperate and does not addicar Regulatory Commission at an internal protection activities.	plementation hereby oduct material fied to maintain, ress tadiation
			P.E. 1. 15.10	
I accent th	e above responsibilities,	.e	1 /	

cc: Affected department heads

Radiation Safety Officer



Central Missouri Professional Services

2500 East McCarty Street Jefferson City, MO 65101 573-634-3455 573-634-8898 (fax)

Re:	CMPS License - Conf	- I. N 04.0070		
Phone:	630 - 829 - 9841	Datei	1/15/2010	
Dhonos	630 - 829 - 9841	Date:	1/15/2010	
Fax:	630 515 - 1078	Pages:		7 (including cover)
To:	Jose D. Macatangay	From:	Greg Dorge	nino Timbre

Mr. Macatangay,

Please find 6 pages following that contain the resolutions to the clarifications requested in your fax of 1/14/2010.

If there is any additional information needed to complete our license application, please let me know.

Thank you for your prompt attention to this matter

Greg Dorge

573-634-3455