Re: IRI-09-01

MARYLAND ENDORSEMENT OF NRC "EXEMPTION FROM 10 CFR PART 32 AND 10 CFR PART 35 REQUIREMENTS ON PROCUREMENT AND TRANSFER OF TECHNETIUM-99M, AND CALIBRATION OF INSTRUMENTATION USING TECHNITIUM-99M"

Dear Title and Name:

The Maryland Department of the Environment's (MDE) Radiological Health Program (RHP) is issuing this Information and Regulatory Interpretation Notice (IRI) 08-09 to inform diagnostic medical licensees of RHP's endorsement of the July 16, 2009 United States Nuclear Regulatory Commission's exemption titled, "EXEMPTION FROM 10 CFR PART 32 AND 10 CFR PART 35 REQUIREMENTS ON PROCUREMENT AND TRANSFER OF TECHNETIUM-99M, AND CALIBRATION OF INSTRUMENTATION USING TECHNITIUM-99M." In Maryland the exemption will be specific to COMAR 26.12.01.01 Part C and Part G requirements.

The recent shutdown of key nuclear reactors has demonstrated the fragility of molybdenum-99 production and has resulted in a current shortage and potential future shortage of technetium-99m. The reality of aging reactors has prompted the Nuclear Regulatory Commission to publish exemptions to 10 CFR Parts 32 and 35 concerning the transport of Technetium-99m and the performance of dose calibrator linearity. The Radiological Health Program has decided to allow Maryland licensees affected by the technetium-99m shortage to be covered by these exemptions, with the caveat that those licensees fully understand the licensing and documentation requirements needed to implement the exemptions.

The NRC exemption document (attached) should be carefully examined for application to your licensed activities. A basic summary of the exemptions as applied in Maryland is listed below:

1. Transportation of Technetium-99m or Technetium-99m

Transportation of technetium-99m and technetium-99m radiopharmaceuticals is allowed between medical licensees, and licensees are exempted from commercial distribution regulations. This exemption applies is in times of shortages only, and the material must be prepared and transported in accordance with radioactive

materials transportation requirements using adequate shielding, appropriate containers, and the proper shipping labels. Proper documentation must be maintained.

2. <u>Dose Calibrator Linearity</u>

Quarterly dose calibrator linearity may be postponed if certain conditions are met:

- a. The licensee must request an amendment to the license requesting the exemption from performing quarterly linearity if a shortage prevents it, but with the provision that as soon as technetium should become available, the linearity will be performed.
- b. The supplier must provide documentation to the licensee that the supplier is unable to provide technetium -99m for linearity.
- c. Time-dependent linearity can be performed with reduced activity in times of shortage.
- d. Time-dependent linearity can be postponed until sufficient activity can be obtained.
- e. Time-dependent linearity must be performed as soon as the supplier is able to provide sufficient activity
- f. Those with lead-sleeved linearity devices should be able to perform linearity measurements and use the technetium-99m used for performing linearity for patient dosing.

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Exemptions to the COMAR 26.12.01.01 Section G.60.B(b)(3) will be examined during inspections. Should you have any questions regarding this information notice, please contact Barbara Park or me at (410) 537-3301. You may also reach our office toll-free by dialing 1-800-633-6101 and requesting extension 3301. Also, you may contact this office via facsimile at (410) 537-3198.

Sincerely,

Raymond E. Manley, Chief Radioactive Material Licensing Compliance Division Air and Radiation Management Administration

Radioactive Material Use Codes: 02110, 02120, 02201, 02220, and 02200

Enclosure(s): NRC Exemption Notice dated July 16, 2009 titled, "EXEMPTION FROM 10 CFR PART 32 AND 10 CFR PART 35 REQUIREMENTS ON PROCUREMENT AND TRANSFER OF TECHNETIUM-99M, AND CALIBRATION OF INSTRUMENTATION USING TECHNITIUM-99M.