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RADIOLOGISTS



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DIAGNOSTIC RADIOLOGY
ULTRASOUND
RADIATION THERAPY

MEDICAL PHYSICS
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ADMINISTRATION
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G. L. LARSON

July 31, 1981

Material Licensing Branch
Division of Fuel Cycle and Material Safety
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

RE: Materials License No. 40-01493-02

To Whom It May Concern:

This letter and associated enclosures are to request an amendment to our current radioactive materials license. Specifically, the following additions and changes are requested:

1. Addition of Cesium-137 sealed sources (10 CFR 35.100.f.2) and Iridium-192 as seeds encased in nylon ribbons (10 CFR 35.100.f.6) for use in intracavitary and interstitial treatment of cancer. Donald G. Nordstrom, M.D. will be the only authorized user. Dr. Nordstrom was certified in Therapeutic Radiology on June 15, 1979.
2. Authorization for the use of Iodine-131 as iodide for treatment of thyroid carcinoma (10 CFR 35.100.e.2). Dr. Nordstrom and Robert P. DeClark, M.D. will be the only authorized users (preceptor statement attached).
3. Authorization for the use of Phosphorus-32 as colloidal chromic phosphate for intracavitary treatment of malignant effusions (10 CFR 35.100.d.3). Dr. Nordstrom will be the only authorized user (preceptor statement attached).
4. Change in designation of Radiation Safety Officer from Donald J. Peik, M.D. to Steven M. Jones, M.S. (form NRC-313M-Supplement A attached). This change is necessitated by the move of Dr. Peik to another city.
5. Change in location of isotope preparation laboratory (explanatory sketches attached). The new location is equipped with a fume hood and is better suited to keeping radiation exposures to all personnel ALARA.
6. Changes in our possession limits of I-131 from 100 millicuries to 200 millicuries and P-32 from 12 millicuries to 30 millicuries.

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Since these additions and changes will constitute a significant amendment to our license, we will adopt the model ALARA program outlined in NRC Regulatory Guide 10.8, appendix O. The required items on form NRC-313M have been completed and a check for \$40.00 is enclosed to cover the fee for your consideration of this amendment.

Upon approval of this license amendment, we plan to replace our Ra-226 sources with Cs-137. We believe this action, along with the relocation of our radioisotope laboratory, represent significant improvements in our efforts to keep radiation exposure to all personnel at the Medical X-Ray Center ALARA.

We appreciate your prompt review of this license amendment request, and hope that all the information you need has been included.

Sincerely Yours,



Steven M. Jones, M.S.
Medical Physicist
Medical X-Ray Center, P.C.

SMJ/sa
Enclosures

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