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DML:LR

70-938

SNM-936, Amendment No. 5

Massachusetts Institute of Technology
Attn: Mr. John L. Cochrane, Assistant to
the Director, MIT Research Reactor
138 Albany Street
Cambridge, Massachusetts 02139

Gentlemen:

Pursuant to Title 10, Code of Federal Regulations, Part 70, AEC Materials License No. SNM-936 is hereby amended to add Items 7.F, 8.E and Condition 12 to read as follows:

"7.F. Sixteen (16) grams of plutonium in the form of metal foils.

"8.E. The plutonium metal foils specified in Item 7.F shall be used in accordance with the statements, representations and conditions specified in the licensee's application dated October 14, 1970, and supplement dated December 21, 1970.

"12. In addition to the initial testing of the encapsulated plutonium metal foils described in the licensee's application dated December 21, 1970, the licensee shall test the encapsulated plutonium foils for leakage prior to return to storage following each use of the foils in the experiments described in applications dated October 14 and December 21, 1970, or at an interval not to exceed six (6) months, whichever occurs sooner. Records of the leak test results, performed by making an alpha count of a wipe or smear of the encapsulated foils, shall be maintained for inspection by the Commission."

See serial with Cochrane, MIT, re license 1/13/71

All other conditions of this license shall remain the same.

Condition 12 above requires a leak test of the encapsulated plutonium foils before returning the foils to the storage safe after each use in your planned experiments. If the foils remain in storage, leak tests are required only every six months. This condition supersedes the proposed test every three months specified in your letter of December 21, 1970.

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- 2 -

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Please also note that, for the encapsulation of the foils, your air sampling procedures should include such surveys required to demonstrate compliance with §20.106(a), 10 CFR 20, Concentration in Effluents to Unrestricted Areas.

FOR THE ATOMIC ENERGY COMMISSION

Original signed by
Leland C. Rouse

Leland C. Rouse
Fuel Fabrication and
Transportation Branch
Division of Materials Licensing

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