



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

JUN 19 1974

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70-1359
SNM-1405, Amendment No. 1

Intelcom Industries Incorporated
ATTN: Dr. C. A. Preskitt, Vice President
Intelcom Rad Tech
P. O. Box 80817
San Diego, California 92138

Gentlemen:

Pursuant to Title 10, Code of Federal Regulations, Part 70, Special Nuclear Material License No. SNM-1405 is hereby amended to authorize the construction and use of a subcritical assembly in accordance with the statements, representations and conditions specified in the licensee's application dated January 24, 1974, except that as a condition of this license amendment k_{eff} of the assembly shall not exceed 0.950.

All other conditions of this license shall remain the same.

The purpose of issuing this amendment is to enable you to construct the assembly and obtain experimental data to determine the accuracy of your calculations in designing the subassembly. Of particular interest to us are the effects of additional shielding or reflectors, measured radiation levels, function of fail-safe features, the effect of accident conditions, verification of optimum moderation conditions, structural integrity of components, expansion and temperature coefficients and thermal power. In addition to the experimental data an extrapolation of the data to $k_{eff} = 0.990$ should be provided.

In addition to the above data some other information is needed before we can further consider operation at $k_{eff} = 0.990$ as follows:

1. Describe the mechanism for automatically moving the Cf source. Describe also the shielding.
2. Is the shutter door fail-safe? Describe.
3. What is to prevent the further withdrawal of a control rod after $k_{eff} = 0.990$ is attained by one of your customers or by you?

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It is anticipated that there may be further questions after the receipt of the above information. Accordingly, it is suggested that you try to have all data to us by July 15, 1974.

FOR THE ATOMIC ENERGY COMMISSION

L. C. Rouse

L. C. Rouse, Chief
Fuel Fabrication and Reprocessing
Branch
Directorate of Licensing