

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number

06-00183-03

Docket or Reference number

030-00582

Amendment No. 50

Yale University
314 Wright Nuclear Structure
Laboratory West
260 Whitney Avenue
New Haven, Connecticut 06520

"OFFICIAL RECORD COPY"

In accordance with letter dated March 15, 1985 License Number 06-00183-03 is amended as follows:

Items 6, 7, 8, and 9 are amended to read:

- | | | |
|--|--|--|
| 6. Byproduct, source, and/or special nuclear material | 7. Chemical and/or physical form | 8. Maximum amount that licensee may possess at any one time under this license |
| A. Any byproduct material between Atomic Numbers 3 and 84, inclusive | A. Any | A. 500 millicuries each nuclide - Total 50 curies |
| B. Hydrogen 3 | B. Any | B. 200 curies |
| C. Sulfur 35 | C. Any | C. 35 curies |
| D. Cobalt 60 | D. Metallic wire | D. 2 curies |
| E. Copper 64 | E. Any | E. 25 curies |
| F. Strontium 90 | F. Sealed Source | F. 600 millicuries |
| G. Cesium 137 | G. Sealed Source | G. 12 curies |
| H. Thorium 228 | H. Any | H. 115 millicuries |
| I. Neptunium 239 | I. Any | I. 1 millicurie |
| J. Americium 241 | J. Any | J. 25 millicuries |
| K. Americium 241 | K. Am-Be Sealed Source | K. 300 millicuries |
| L. Californium 252 | L. Any | L. 3.5 millicuries |
| M. Uranium 232 | M. Any | M. 1 millicurie |
| N. Iridium 192 | N. 3 Sealed Sources | N. 12 curies |
| O. Neptunium 237 | O. Any | O. 1 millicurie |
| P. Thulium 170 | P. Any | P. 5 curies |
| Q. Americium 241 | Q. Sealed Source | Q. 250 millicuries |
| R. Curium 248 | R. Electroplated target | R. 4 microcuries |
| S. Protactinium 234 | S. Any | S. 1 millicurie |
| T. Actinium 227 | T. Any | T. 1 millicurie |
| U. Cesium 137 | U. Sealed Sources (ICN Model 76007, formerly U.S. Nuclear Model 375) | U. 8 curies, 2 sources of 4 curies each |
| V. Protactinium 233 | V. Any | V. 1 millicurie |
| W. Americium 241 | W. Any sealed sources | W. 18 curies, no source to exceed 2 curies |

9. Authorized use

A. through W. Research and development as defined in 30.4(q) of 10 CFR Part 30.

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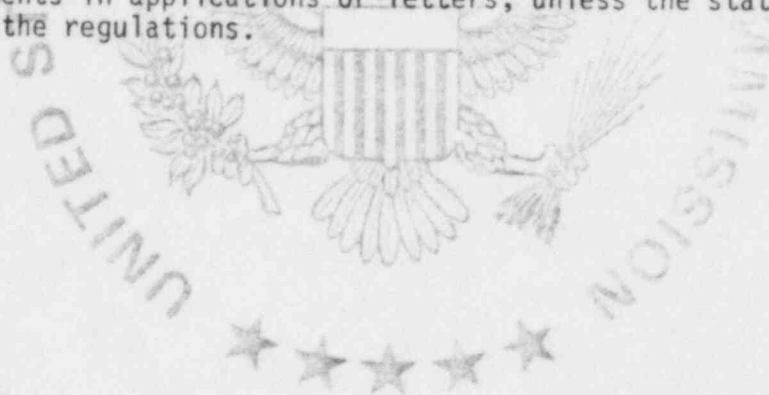
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Conditions 10, 12, and 21 are amended to read:

10. Byproduct material may only be used on premises possessed by, or under the direct control of Yale University, New Haven, Connecticut; at the Connecticut Mental Health Center, 34 Park Street, New Haven, Connecticut and at Miles Institute for Preclinical Pharmacology housed at Yale University, Osborn Laboratory, 165 Prospect Street, New Haven Connecticut.
12. Byproduct material shall be used by, or under the supervision of, individuals designated by the University Radiation Safety Committee, Peter D. Parker, Ph.D., Chairman. The Radiation Safety Committee may approve individuals from outside the University to be authorized as Principal Investigators under the Yale License to use radioactive materials on Yale University premises provided the individual's background and training are appropriate.
21. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated May 15, 1979, including manual of Radiation Safety Procedures dated July, 1977; and letters dated May 20, 1982, September 7, 1982, March 14, 1983, September 28, 1984, and March 15, 1985. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.



For the U.S. Nuclear Regulatory Commission

Original Signed By

Jenny M. Jonansen

Date

APR 24 1985

By

Nuclear Materials Safety and
Safeguards Branch, Region I
King of Prussia, Pennsylvania 19406