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NEUTRON PRODUCTS inc

Dickerson, Maryland 20753

U. S. A.

301/349-5001 Cable: NUSWASH

May 14, 1969

U.S. Atomic Energy Commission
Division of Materials Licensing
Washington, D.C. 20545

Reference: By-Product License No. 19-12667-01
Request for Amendment No. 05

Gentlemen:

Pursuant to the Code of Federal Regulations, Title 10, Part 30, "Rules of General Applicability of Licenses of By-Product Material," Neutron Products, Inc. requests an amendment to paragraph 11 of our current by-product license no. 19-12667-01 to read as follows:

"By-product material shall be used by, or under the supervision of J.J. Hairston, J.A. Ransohoff, M.M. Turkanis, H.W. Calley, Jr., P.D. Arrowsmith, or D.L. Repp."

The addition of Messrs Arrowsmith and Repp as authorized users will allow more flexibility in scheduling personnel to cover periods involving long continuous use of by-product material. Each has had considerable experience in isotope handling, as evidenced in the attached schedules. Mr. Repp has been employed by Neutron Products since May 1967 and Mr. Arrowsmith has been employed by Neutron Products as a corporate officer and director since February 1969.

Please advise if any further information is necessary. Your prompt response will be greatly appreciated.

Very truly yours,

NEUTRON PRODUCTS, INC.

R. E. Moreland
R.E. Moreland, Treasurer

REM/cfm

DUPLICATED
FOR DIV. OF COMPLIANCE

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NAME: DALE L. REPP

COMPANY: NEUTRON PRODUCTS, INC., DICKERSON, MARYLAND

Type of Training	Where Trained	Duration of Training	On Job		Formal Course	
			Yes	No	Yes	No
Reactor Operator - Training Course	Natl. Bureau of Standards Gaithersburg, Maryland	December 1964 May 1967	x		x	
Reactor Operator Trainee and Hot Cell Set-up and Manipulation	Naval Research Lab. Washington, D. C.	4 weeks included under above duration	x			
Facility Technician Cobalt-60 handling and kilocurie irradiator operation - trainee	Neutron Products, Inc. Dickerson, Maryland	May 1967 to present	x			x

ISOTOPE HANDLING EXPERIENCE

Isotope	Maximum Amount	Where Experience was Gained	Duration of Experience	Type of Use
Iodine-128	100 millicurie	Natl. Bureau of Standards	3 weeks	Ck eff of carbon filters
Cobalt-60	3.0×10^5 curie	Neutron Products, Inc. IRL - Westinghouse and Big Rock Point	2 years	Irradiator and process for distribution

NAME: PETER D. ARROWSMITH

COMPANY: NEUTRON PRODUCTS, INC., DICKERSON, MARYLAND

Type of Training	Where Trained	Duration of Training	On Job		Formal Course	
			Yes	No	Yes	No
1. Principles and practices of radiological health safety	Oak Ridge School of Reactor Technology	6 months		x	x	
	U. S. Navy	4 years	x		x	
	U. S. Atomic Energy Comm.	3 years	x		x	
	NUS Corporation	5 years	x			x
2. Radioactivity measurements standardization and monitoring techniques and instruments	Same	Same	"	"	"	"
3. Mathematics and calculations basic to the use and measurement of radioactivity	Same	Same	"	"	"	"
4. Biological effects of radiation	Same	Same	"	"	"	"
5. Actual use of radioisotopes in the types and quantities for which application is being made, or equivalent	Neutron Products, Inc.	8 weeks	x			x

ISOTOPE HANDLING EXPERIENCE

Isotope	Maximum Amount	Where Experience was Gained	Duration of Experience	Type of Use
New Reactor Fuel	Classified	U. S. Navy, USAEC	7 years	Loading new submarine cores
Spent Reactor Fuel (mixed fission products)	Megacurie	U. S. Navy, USAEC	7 years	Refueling submarines
Cobalt-60	400,000 Ci	Neutron Products	8 weeks	Loading and unloading irradiators