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NEUTRON PRODUCTS inc

Dickerson, Maryland 20753 U. S. A.

301/349-5001 Cable: NUSWASH

March 11, 1970

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. 12

Gentlemen:

Pursuant to the Code of Federal Regulations, Title 10, Part 30 "Rules of General Accountability 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, D. L. Repp, R. J. Jacobs, J. R. Demory, and H. B. O'Neil, Jr."

Messrs. Calley and Arrowsmith are no longer employed at NPI and therefore may be dropped from the license.

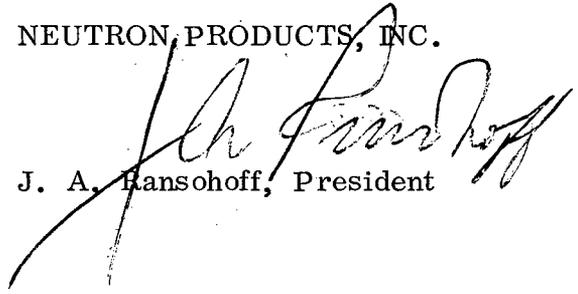
It is also requested that Mr. O'Neil be added as an additional Radiation Protection Officer. The addition of Mr. O'Neil as a Radiation Protection Officer will significantly increase the radiation protection support of the facility. Mr. O'Neil has approximately ten years experience in both the Army reactor program and the health physics department at Walter Reed Army Medical Center. He has been a consultant for the company for the past sixteen months.

Should you require any additional data, do not hesitate to let us know.

Sincerely,

NEUTRON PRODUCTS, INC.

J. A. Ransohoff, President



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Enclosure

15179

NAME:

COMPANY: NEUTRON PRODUCTS, INC., DICKERSON, MARYLAND

Type of Training	Where Trained	Duration of Training	On Job		Formal Course	
			Yes	No	Yes	No
(1) Radiation Science (Associates Degree)	Montgomery Junior College (Takoma Park)	Two-years			X	
(2) Army Nuclear Power Plant Operators Course	Fort Belvoir, Virginia	One-year (1963)			X	
(3) USPHS Medical X-Ray Protection	Chapman Avenue Rockville, Maryland	Two-weeks (1964)			X	
(4) Washington, D. C. Civil Defense Fallout Shelter Course	Chapman Avenue Rockville, Maryland	One-week (1965)			X	
(5) USPHS Gamma Ray Spectroscopy	Winchester, Massachusetts	Two-weeks (1969)			X	
(6) USPHS Measurement of Non-Ionizing Radiation	Chapman Avenue Rockville, Maryland	Two-weeks (1969)			X	
(7) USPHS Reactor Safety and Hazards Evaluation	Chapman Avenue Rockville, Maryland	Two-weeks (1969)			X	

ISOTOPE HANDLING EXPERIENCE

Isotope	Maximum Amount	Where Experience was Gained	Duration of Experience	Type of Use
15179	SEE ATTACHMENT ENTITLED "EXPERIENCE WITH RADIOACTIVE MATERIAL"			

EXPERIENCE WITH RADIOACTIVE MATERIAL

<u>1. Radioactive Material</u>	<u>Maximum Amount</u>	<u>Where Experience Was Gained</u>	<u>Duration</u>	<u>Type of Use</u>
Ra-266	450 milliCuries	Walter Reed Army Medical Center	8 years	Leak Testing, Prot. Survey
Ir-192	400 milliCuries	Walter Reed Army Medical Center	8 years	Health Physics Aspect of Therapy
Au-198	400 milliCuries	Walter Reed Army Medical Center	8 years	Health Physics Aspect of Therapy
I-131	200 milliCuries	Walter Reed Army Medical Center	8 years	Health Physics Aspect of Therapy
Ra-222	30 milliCuries	Walter Reed Army Medical Center	8 years	Health Physics Aspect of Therapy
P-32	50 milliCuries	Walter Reed Army Medical Center	8 years	Health Physics Aspect of Therapy
Co-60	2,000,000 Curies	Neutron Products, Incorporated	1 year	Leak Testing, Prot. Survey
Cs-137	450 milliCuries	Walter Reed Army Medical Center	8 years	Leak Testing, Prot. Survey
Sr-90	65 milliCuries	Walter Reed Army Medical Center	8 years	Leak Testing, Prot. Survey
H-c	100 milliCuries	Walter Reed Army Medical Center	8 years	General Health Physics
3-H	100 milliCuries	Walter Reed Army Medical Center	8 years	General Health Physics
Fission Prod.	MegaCurie	Diamond Ordnance Radiation Facility	1 year	General Health Physics
Fission Prod.	MegaCurie	Walter Reed Research Reactor	1 year	General Health Physics
Fission Prod.	MegaCurie	SM-1 Nuclear Power Plant (Ft. Belvoir, Va.)	1 year	Operations, Health Physics, and Process Control

2. Other experience includes 4 years experience in Health Physics conducting numerous radiation protection surveys in accordance with NBS Handbook Nos. 73, 76, 93) of radioisotope laboratories, Cobalt teletherapy units, medical and industrial X-ray generators, 1 mVp and 2 mVp Resonant Transformers, assisted in the installation of a 9000 Curie Cobalt teletherapy unit and subsequent protection surveys.