U.S. NUCLEAR REGULATORY COMMISSION

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

	Licensee				
1.	BWX Technologies, Inc. Nuclear Products Division		galitika Januari Januari Januari Januari	3.	License Number SNM-42, Amendment 2
2.	P.O. Box 785			4.	Expiration Date: March 29, 2027
	Lynchburg, Virginia 24505	-078	95 [:]	5.	Docket No. 70-27
		•			Reference No.
6.	Byproduct Source, and/or Special Nuclear Material		Chemical and/or P Form	hysical	Maximum amount that Licensee May Possess at Any One Time Under This License
Α.	Uranium enriched in U-235	A.	Any enrichment or form, except Ul	F ₆	A.:
B.	Uranium enriched in U-235	В.	Any enrichment in UF	1	B.
C.	U-233	C.	Any		C.
D.	Plutonium	D.	Unencapsulated and unirradiated		D.
E.	Plutonium	E.	Encapsulated foils in nuclear accident dosimete	ers	E
F.	Source material	F.	Any, except meta	ıl powde	r F. 1888
G.	Am-241	G.	Am-Be sealed neutron sources		G.
					Enclosure

Enclosure 1

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		License Number SNM-42 Docket or Reference Number 70-27 Amendment 2	·
Н.	NP-237	H. Double encapsulated H. foils	
I.	Any byproduct materials	I. Irradiated I. structural materials	
J.	Byproduct material with At. Nos. 1-83	J. Any J.	
K.	Fission products and transuranium elements	K. Irradiated fuel	
L.	Fission products and transuranium elements	L. Irradiated fuel	
M.	Fission products and transuranium elements	M. Irradiated fuel	
N.	Fission products and transuranium elements	N. Any	
Ο.	In-114m	O. Sealed sources O.	
P.	Yb-169	P. Sealed sources P. P.	
Q.	Cf-252	Q. Sealed sources Q.	
R.	H-3	R. Sealed sources R.	•
S.	H-3	S. Oxide S.	
T.	H-3	T. Ni Plated Sc T. tritide foil	

NRC F	ORM 374A U.S. NUCLE	EAR REGULATORY COMMISSION	
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			Amendment 2
U.	U-232	U. Any	U.
V.	Po-210	V. Oxide	V.
W.	Pu-239 in greater than Class C waste from Parks Township	W. Sealed Sources	W
Χ.	Transuranium elements in greater than Class C waste from Parks Township	X. Any	X.1 X.2 X.3
9.		The licensee's existing facilities ia, as described in the referen	es along the James River, approximately 8 miles ced application.
10.			Safety Conditions and Safeguards Conditions. Subject to compliance with all listed conditions
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	FO	R THE NUCLEAR REGULAT	ORY COMMISSION
		i vilita dan ga	
Date:		Fuel Facility L Division of Fu and Safegua	lear Material Safety

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	SAFETY CONDI	TIONS
S-1	Authorized use: For use in accordance with the Chapters 1 through 11 of the application submoursuant to 10 CFR 70.32 or 10 CFR 70.72: \$2006; February 20, May 4, and July 31, 2007.	
S-2	The licensee shall maintain and execute the re Revision 19, dated April 15, 2007, or as furthe	
S-3	The volume of a unit in the Multiple containers in Shall be specifically	Il be no larger than a nominal 5-gallon container. y shown to be critically safe by the licensee.
S-4	Inno more than two units may	be in transit within each cubicle at any one time.
S-5	The former 10 CFR 20.304, "Old Recovery" di accordance with letter dated January 31, 1997	
S-6	The "Cold" Surface Impoundment Pond was s dated April 29 and May 24, 1999, from A.F. Ol Safety and Safeguards, U.S. Nuclear Regulate Amendment 42 dated June 24, 1999.	
	The "Hot" Surface Impoundment Pond was rel April 28, 2000, from A.F. Olsen to the Director Safeguards, U.S. NRC and documented in An	, Office of Nuclear Material Safety and
		areas in the dose assessment for the entire site. erial which could migrate and re-impact the area
S-7	The Final Status Survey Report (FSSR) for the application dated August 10, 2005, has been requirements of 10 CFR 70.38 in that the land decommissioning plan approved on November however, the results of the FSSR may be real landfill in the site dose assessment. BWX Tea which could migrate and impact the area, and	determined by the NRC staff to meet the fill has been remediated in accordance with the r 21, 2003. At the time of license termination, ssessed in order to include any dose from this chnologies shall also control licensed material
S-8	• • • • •	dustrial Waste Landfills 2A and 2B, submitted in en reviewed by the NRC staff and determined to

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meet the requirements of 10 CFR 70.38 in that the landfills have been remediated in accordance with a decommissioning plan approved by NRC letter dated February 25, 1998. However, at the time of license termination, the results from the FSSR may be reassessed in order to include any possible dose from these landfills in the dose assessment for the entire site. BWX Technologies shall also control licensed material, which could migrate and re-impact the area, and keep records of all work done in these areas.

- S-9 The licensee is granted an exemption to 10 CFR 20.1201(d) and is authorized to use Annual Limit on Intake (ALI) and Derived Air Concentration (DAC) values based on dose coefficients adopted by the International Commission on Radiological Protection (ICRP), and published in ICRP Publication No. 68 for determining occupational dose, and for determining dose to individual members of the public, pursuant to 10 CFR 20.1302.
- S-10 BWX Technologies, is exempt from fissile material classification and from the fissile material package standards of 10 CFR 71.55 and 10 CFR 71.59 for the transport of certain bulk materials. The materials are listed in Table 1 of the attachment to BWX Technologies' application dated May 23, 2003, as modified by letter dated October 30, 2003, and are subject to the additional limits and controls listed in notes 1 through 11 in Table 1. Shipment of the materials is subject to all other requirements of 10 CFR Part 71.
- S-11 "Systems involving shall be deemed to include only workstations containing one or more machined and assembled by themselves, or in conjunction with other components that are not shall apply to the areas only.

SAFEGUARDS CONDITIONS

Section 1.0 - ABRUPT LOSS DETECTION

There are no license conditions in this section. The necessary information and commitments are contained in the Plan identified in Safeguards Condition SG-5.1.

Section 2.0 - ITEM MONITORING

There are no license conditions in this section. The necessary information and commitments are contained in the Plan identified in Safeguards Condition SG-5.1.

Section 3.0 - ALARM RESOLUTION

There are no license conditions in this section. The necessary information and commitments are contained in the Plan identified in Safeguards Condition SG-5.1.