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	3. License Number SNM-42
2.	P.O. Box 785	4. Expiration Date: March 29, 2027
	Lynchburg, Virginia 24505-0785	5. Docket No. 70-27
	Sept.	Reference No.
6.	Byproduct Source, and/or 7. Chemical and/or Special Nuclear Material Form	Physical 8. Maximum amount that Licensee May Possess at Any One Time Under This License
A.	Uranium enriched A in U-235	A
В.	Uranium enriched in U-235	B
C.	U-233 C	C.
D.	Plutonium D.	
E.	Plutonium E.	
F.	Source material F.	FEEDER PROPERTY OF THE PROPERT
G.	Am-241 G.	
		Enclosure 1

NRC FORM 374A U.S. NUCLEAR REGULATORY COMMISSION				
		RIALS LICENSE MENTARY SHEET	License Number SNM-42 Docket or Reference No. 70-27	umber
			Renewal	
Н.	NP-237	H	н.	
l.	Any byproduct materials			
J.	Byproduct material with At. Nos. 1-83		J,	
K.	Fission products and transuranium elements	K	K	
L.	Fission products and transuranium elements	L		
M.	Fission products and transuranium elements	M. Commission of the Commissio	M	
N.	Fission products and transuranium elements	N N N N N N N N N N N N N N N N N N N		
Ο,	In-114m		O	
P.	Yb-169	P	P. 1	
Q.	Cf-252	· Q.	Q	
R.	H-3	R.	R.	
S.	H-3	S.	S.	
Т.	H-3	T	Т.	

NRC F	ORM 374A U.S. N	IUCLEAR REGULATOR	Y COMMISSION			2
·				License Number SNM-42		3
		ALS LICENSE ENTARY SHEET		Docket or Reference 70-27	nce Number	
				Renewal		······
U.	U-232	U.		U.	, .	
V	Po-210	V.	na Pi	V.	,	
W.	Pu-239 in greater than Class C waste from Parks Township	W.	the second secon	W.A.		
X .	Transuranium elements in greater than Class C waste from Parks Township	X. ()			Wing of the control o	
9.	Authorized place of teast of Lynchburg, V	use: The licensee's /irginia, as described	existing facilitie	es along the James ced application.	s River, approxima	tely 8 miles
10.	This license shall be Each section is a pain each section.	deemed to contain rt of the license and	two sections: S the licensee is	Safety Conditions a subject to complia	and Safeguards Co ance with all listed o	onditions. conditions
		FOR THE NUCLE	AR REGULATO	ORY COMMISSIO	N	
	·			and the state of t		
Date:	3/29/07	Ву:	/RA/ Gary S. Janos	sko, Deputy Direct	or ·	
	. (icensing Directora el Cycle Safety irds	te	
ν,				ear Material Safety	y	
					·	<i>y</i>

NRC FO	RM 374A U.S. NUCLEAR REGULATORY COMMISSION	4		
		License Number SNM-42		
•	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 70-27		
		Renewal		
SAFETY CONDITIONS				
S-1	Authorized use: For use in accordance with the Chapters 1 through 11 of the application submit pursuant to 10 CFR 70.32 or 10 CFR 70.72: O			
S-2	The licensee shall maintain and execute the res Revision 18, dated May 1, 2006, as revised by	sponse measures in the Emergency Plan, the licensee in accordance with 10 CFR 70.32(i).		
S-3	The volume of a unit in the shall be specifically	be no larger than a nominal container. shown to be critically safe by the licensee.		
S-4	Inmay	pe in transit within each cubicle at any one time.		
S-5	S-5 The former 10 CFR 20.304, "Old Recovery" disposal area is released for unrestricted use in accordance with letter dated January 31, 1997, A.F. Olsen to M.F. Weber of NRC.			
S-6	The "Cold" Surface Impoundment Pond was surveyed and evaluated in accordance with letters dated April 29 and May 24, 1999, from A.F. Olsen to the Director, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission (NRC) and documented in Amendment 42 dated June 24, 1999.			
	The "Hot" Surface Impoundment Pond was remediated in accordance with the letter dated April 28, 2000, from A.F. Olsen to the Director, Office of Nuclear Material Safety and Safeguards, U.S. NRC and documented in Amendment 58 dated October 11, 2000.			
	The results from the above actions may be read order to include any possible dose from these a BWX Technologies shall control licensed mater and shall keep records of all work done in these	areas in the dose assessment for the entire site. rial 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 of requirements of 10 CFR 70.38 in that the landfidecommissioning plan approved on November however, the results of the FSSR may be re-as landfill in the site dose assessment. BWX Tecl which could migrate and impact the area, and in the site dose.	letermined by the NRC staff to meet the ll has been remediated in accordance with the 21, 2003. At the time of license termination, sessed in order to include any dose from this annologies shall also control licensed material		
S-8	The Final Status Survey Report (FSSR) for Ind application dated December 22, 2000, has bee meet the requirements of 10 CFR 70.38 in that	n reviewed by the NRC staff and determined to		

NRC FORM 3	74A U.S. NUCLEAR REGULATORY COMMISSION	5.	
	,	License Number SNM-42	
MATERIALS LICENSE SUPPLEMENTARY SHEET		Docket or Reference Number 70-27	
		Renewal	
·	accordance with a decommissioning plan appro- However, at the time of license termination, the order to include any possible dose from these la site. BWX Technologies shall also control licen- the area, and keep records of all work done in the	results from the FSSR may be reassessed in andfills in the dose assessment for the entire sed material, which could migrate and re-impact	
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	or more machined and assembled	ed to include only workstations containing one by themselves, or in conjunction with other all apply to	

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.