NRC FORM 374

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 S	SNM-42, Amendment 114
2.	P.O. Box 785		4.	Expiration Date	September 30, 2005 Currently under timely renewal per letter dated June 30, 2004.
	Lynchburg, Virginia 24505	-0785	5.	Docket No. 70-2	7
				Reference No.	
6.	Byproduct Source, and/or Special Nuclear Material	7. Chemical and/or Form	Physical		at Any One Time
A.	Uranium enriched in U-235	A. Any enrichment or form, except t		A.	
B.	Uranium enriched in U-235	B. Any enrichment i UF ₆	n ·	В.	
C.	U-233	C. Any		C.	
D.	Plutonium	D. Unencapsulated and unirradiated		D.	
E.	Plutonium	E. Encapsulated foils in nuclear accident dosime	ters	E. II	
F.	Source material	F. Any		F. 1	,
G.	Am-241	G. Am-Be sealed neutron, sources		G.	

Enclosure 1

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H.	NP-237	H. Double encapsulated foils	H.	
1. 1	Any byproduct materials	Irradiated structural material		
J.	Byproduct material with At. Nos. 1-83	J. Any	J.	
K.	Fission products and transuranium elements	K. Irradiated fuel	K	
L.	Fission products and transuranium elements	L. Irradiated fuel		
M.	Fission products and transuranium elements	M. Irradiated fuel	M .	
N .	Fission products and transuranium elements	N. Any	N.	
Ο.	In-114m	O. Sealed sources	O. 1	
P.	Yb-169	P. Sealed sources	P. 1	
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	

NRC F	NRC FORM 374A OFFICIAL USE ONLY - DEPARTMENT OF ENERGY U.S. NUCLEAR REGULATORY COMMISSION 3				
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U.	U-232	U. Any	U.		
V.	Po-210	V. Any	V		
W.	Pu-239 in greater than Class C waste from Parks	W. Sealed Sources	. W. (1997)		
X.	Transuranium elements in greater than Class C waste from Parks	X. Any	X.1 X.2 X.3		
9.		The licensee's existing facilitien in the reference in th	es along the James River, approximately 8 miles ced application.		
10.	Each section is a part of in each section.		Safety Conditions and Safeguards Conditions subject to compliance with all listed conditions ORY COMMISSION		
Date:	7/28/06	By Gary S. Janosko, Gary S. Janosko, General Cycle Facilities Division of Fuel Cyand Safeguards, Washington, DC 2	es Branch /cle Safety NMSS		

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SAFETY CONDITIONS

- S-1 Authorized use: For use in accordance with the statements, representations, and conditions in Chapters 1 through 11 of the application submitted on the following dates, or as revised pursuant to 10 CFR 70.32 or 10 CFR 70.72: Application dated July 14,1995; and supplements dated August 4, August 9, August 21, August 29, and November 9, 1995; February 1, March 15, March 20, April 15, May 1 (two letters), September 23, and December 4, 1996; January 31, June 30, July 23, September 26, and October 2, 1997; February 5, March 12, April 15, April 24, May 5, August 27, September 8, October 15, and November 23, 1998; January 7, February 22, March 31, April 8, April 29, May 5, May 10, May 13, May 24, August 18, August 25, October 8, November 18, and November 24, 1999; February 8, February 15, February 28, April 28, June 6, October 11, December 5, December 14, and December 22, 2000; January 5, February 20, March 19, March 22, April 10, June 4, July 5, July 10, August 14, September 12, and December 18, 2001; January 2, May 24, June 11, July 16, August 7, August 30, December 1, December 10, December 19, and December 20, 2002; June 10, October 9, October 30, December 3, and December 16, 2003, February 18, March 8, April 13, May 5, June 10, July 22, August 9, August 13, August 19, November 4, 2004; and April 15, July 11, November 10, November 18, and December 22, 2005; and June 14, 2006.
- S-2 The licensee shall maintain and execute the response measures in the Emergency Plan, as revised on September 13, 2004, or as further revised by the licensee, consistent with 10 CFR 70.32(i).
- S-3 The volume of a unit in the state shall be no larger than a nominal 5-gallon container.

 Multiple containers shall be specifically shown to be critically safe by the licensee.
- S-4 In ______, no more than ______may be in transit within each cubicle at any one time.
- S-5 Deleted by Amendment 113, June 2006.
- S-6 Deleted by Amendment 72, June 2001.
- S-7 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 of B&W to M. F. Weber of NRC.
- S-8 Deleted by Amendment 22, March 1998. This Condition expired October 5, 1997.
- S-9 Deleted by Amendment 39, June 1999.

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S-10	Deleted by Amendment 49, December 1999.		
S-11	The "Cold" Surface Impoundment Pond was surdated April 29 and May 24, 1999, from A.F. Olse to the Director, C Safeguards, U.S. Nuclear Regulatory Commissidated June 24, 1999.	en of BWX Technologies, Inc (BWXT), Office of Nuclear Material Safety and	
e e	The "Hot" Surface Impoundment Pond was remarked April 28, 2000, from A.F. Olsen of BWXT, Safety and Safeguards, U.S. NRC and document	to the Director, Office of Nuclear Material	
	The results from the above actions may be reas order to include any possible dose from these a BWXT, shall control licensed material where shall keep records of all work done in these areas.	reas in the dose assessment for the entire site. hich could migrate and re-impact the area and	
S-12	; (b) the total qu	um may be of any enrichment. The licensee I in 10 CFR 71.53 with an exemption to the 0.1 waste may contain beryllium in any	
S-13	The Final Status Survey Report (FSSR) for the application dated August 10, 2005, has been de requirements of 10 CFR 70.38 in that the landfil decommissioning plan approved on November 2 however, the results of the FSSR may be re-asslandfill in the site dose assessment. BWXT sha migrate and impact the area, and keep records	etermined by the NRC staff to meet the I has been remediated in accordance with the 21, 2003. At the time of license termination, sessed in order to include any dose from this all also control licensed material which could	
S-14	The Final Status Survey Report (FSSR) for Induapplication dated December 22, 2000, has been meet the requirements of 10 CFR 70.38 in that accordance with a decommissioning plan appro	n reviewed by the NRC staff and determined to the landfills have been remediated in	

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	However, at the time of license termination, the order to include any possible dose from these la site. BWXT shall also control licensed material, and keep records of all work done in these area	andfills in the dose assessment for the entire which could migrate and re-impact the area,	
S-15	The licensee is granted an exemption to 10 CFF Limit on Intake (ALI) and Derived Air Concentra adopted by the International Commission on Ra ICRP Publication No. 68.	tion (DAC) values based on dose coefficients	
S-16	BWX Technologies, Inc., is exempt from fissile in material package standards of 10 CFR 71.55 ar materials. The materials are listed in Table 1 of application dated May 23, 2003, as modified by to the additional limits and controls listed in note materials is subject to all other requirements of	nd 71.59 for the transport of certain bulk the attachment to BWX Technologies' letter dated October 30, 2003, and are subject as 1 through 11 in Table 1. Shipment of the	
S-17	Notwithstanding the commitments in Section 5.2 Limiting Condition of Operation and a 0.96 Safe combined with a bias term of 0.015) shall only a the shall meet the 0.92 Limiting Condition of Shall meet the O.92 Limiting Condition of Shall me	ty Limit (equivalent to a limit of 0.975 when pply to systems involving the stem; and (2) designs subsequent to	
	or more machined and assembled	med to include only workstations containing one by themselves or in conjunction with other his shall apply to areas only.	
S-18	The licensee shall develop a cross-reference be scenarios. This cross-reference shall be comple cross-reference shall be maintained on file for in	eted by September 1, 2006. The completed	
	SAFEGUARDS COND	DITIONS	
Section 1.0 - A	ABRUPT LOSS DETECTION		
SG-1.1	Notwithstanding the requirement of 10 CFR 74.9 each unit process, the licensee shall follow Cha		

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Section 2.0 - ITEM MONITORING

SG-2.1 Currently, there are no conditions in this section. The necessary information and commitments are contained in the Plan identified in Condition SG-5.1.

Section 3.0 - ALARM RESOLUTION

SG-3.1 The licensee is authorized to continue material processing operations in Recovery Process Unit 3 under process monitoring alarm conditions. During the continuation of processing operations, the measures described in the letter from A. F. Olsen to T. S. Sherr dated May 31, 1991, which are intended to resolve the alarm and to protect materials and information, shall be implemented.

Section 4.0 - QUALITY ASSURANCE

- SG-4.1 Notwithstanding the requirements of 10 CFR 74.59(d)(1) to establish and maintain a system of measurements sufficient to substantiate the uranium and plutonium element and the uranium fissile isotope content of all SSNM received, inventoried, shipped, or discarded, the licensee:
 - (a) may follow Section 4.7.1.3 of the Plan identified in Condition SG-5.1 with respect to mechanical treatment of receipts of certified reactor fuel for the purpose of storage consolidation, without measurement for physical inventory purposes. That is, following mechanical treatment, the original receipt value shall be retained for accounting purposes until the material undergoes chemical processing;
 - (b) need not measure the total element content of those materials measured by nondestructive assay for the content is based on the measured isotope content divided by a previously established and traceable isotopic abundance (as a weight fraction) measurement at the area of generation;
 - (c) may, without measurement, process and/or store and higher tier components which are received with provided (i) they were manufactured by a DOE contractor, (ii) the remains intact prior to processing, and (iii) the previous SNM values determined by the manufacturer are assigned to these items;
 - (d) may follow Section 4.7.1.3 of the Plan identified in Condition SG-5.1 for the measurement of uranium and U-235 content of government-required retainer samples received, provided an unresolved statistically significant shipper-receiver difference does not exist on the parent fuel lot; and

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SG-4.2	(e) shall follow Section 4.3.1.7 of the Pla measurement of uranium and U-235 con metallurgical mounts. To satisfy the requirements of 10 CFR 74.59(h)(tent of in the form of pieces or
30-4.2	shipment, for finished reactor components and of the Plan identified in Condition SG-5.1.	
SG-4.3	Notwithstanding the requirements of 10 CFR 74 performance of measurement processes, to measurement, to perform replicate sampling and replicate replicate isotopic analysis, to generate and to generate separate random errors for samplicensee shall follow Section 4.4 of the Plan identification.	asure standards and replicates for bulk volume cate analysis for environmental releases, to bulk and random errors for process materials, apling and analysis on all sampling systems, the
SG-4.4	Notwithstanding the requirements of 10 CFR 74 licensee shall follow Section 4.4.2.4 of the Plan	
SG-4.5	The use of disposable pipettes is limited to those Plan identified in Condition SG-5.1.	e applications listed in Section 4.4.2.2.3 of the
SG-4.6	Any in-process measurements performed for the for accountability shall not be required to meet 1	
SG-4.7	Notwithstanding the requirements of 10 CFR 74 data and information, the licensee may exclude and bias corrections.	
SG-4.8	Notwithstanding the requirements of 10 CFR 74 control system designed to monitor the quality o licensee shall:	, , , ,
		ntified in Condition SG-5.1 in lieu of maintaining urements associated with scales and balances systems; and
	(b) follow Section 4.4.2.11 of the Plan ide within-lot sampling errors of	entified in Condition SG-5.1 in lieu of controlling at the .05 and .001 levels of significance.

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SG-4.9	Notwithstanding the requirements of 10 CFR 74 random and systematic errors, the licensee may airborne environmental releases from the measucalculation.	y exclude the measured discard path for urement control program and the SEID	
SG-4.10	Notwithstanding the requirement of 10 CFR 74.5 measurement systems for the purpose of determined requirement of 10 CFR 74.59(e)(8) to maintain a control standard measurements, the licensee new for point calibrated, bias-free systems. To be remust be calibrated by one or more measurement process unknowns are measured, and the measurest be based on that calibration.	mining bias, and notwithstanding the a statistical control system to monitor such eed not measure nor monitor control standards egarded as bias-free, a measurement system at sof a representative standard each time	
SG-4.11	Deleted by Amendment 15, June 1997. This Co	ondition expired November 30, 1996.	
SG-4.12	Deleted by Amendment 11, October 1996. This	Condition expired April 30, 1996.	
SG-4.13	Deleted by Amendment 15, June 1997. This Co	ondition expired November 30, 1996.	
SG-4.14	Deleted by Amendment 18, August 1997. This	Condition expired June 7, 1997.	
SG-4.15	Deleted by Amendment 21, November 1997. The	his Condition expired September 15, 1997.	
SG-4.16	Deleted by Amendment 21, November 1997. The	his Condition expired October 5, 1997.	
SG-4.17	Deleted by Amendment 24, May 1998. This Cor	ndition expired December 15, 1997.	
SG-4.18	Deleted by Amendment 31, November 1998. The	his Condition expired June 1998.	
SG-4.19	Nothwithstanding the commitment, in Section 4. Control (FNMC) Plan identified in Condition SG-distribute DOE/NRC Form 741 within 30 days of have 30 additional days (from the date of materi requirements relative to the subsequent material receipts associated with the letter dated October 7, 1998.	-5.1, to perform receipt measurements and f receiving shipments of SNM, the licensee shall ial receipt) to fulfill the above stated and	
SG-4.20	Deleted by Amendment 41, June 1999. This Co	ondition expired April 1999.	
SG-4.21	Deleted by Amendment 44, September 1999. T	his Condition expired June 1999.	
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SG-4.22	Notwithstanding the commitment, in Section 4.7 Control (FNMC) Plan identified in Condition SG-distribute DOE/NRC Form 741 within 30 days of shall have 30 additional days (from the date of requirements relative to the January 3, 2000, letter. This condition shall autoshipment of the subject	5.1, to perform receipt measurements and freceiving shipments of SSNM, the licensee material receipt) to fulfill the above stated identified in its	
SG-4.23	Deleted by Amendment 63, January 2001. This	Condition expired May 22, 2000.	
SG-4.24	Deleted by Amendment 70, May 2001. This Co	ndition expired February 5, 2001.	
SG-4.25	Notwithstanding the commitment, in Section 4.7 Control (FNMC) Plan identified in Condition SG-measurements and distribute DOE/NRC Form 7 strategic special nuclear material (SSNM), the lidate of the material receipt to fulfill the above standard identified in the Seshall automatically expire on completion of the light	5.1, to perform receipt verification 741 within 30 days of receiving shipments of censee shall have 30 additional days from the ated commitment relative to the eptember 6, 2002, request letter. This condition	
SG-4.26	Deleted by Amendment 80, August 2001. This	Condition expired August 16, 2001.	
SG-4.27	Deleted by Amendment 80, August 2001. This	Condition expired August 20, 2001.	
SG-4.28	Deleted by Amendment 83, October 2001. This	Condition expired October 1, 2001.	
SG-4.29	Deleted by Amendment 92, September 2002. T	This Condition expired October 31, 2001.	
SG-4.30	Deleted by Amendment 103, November 2003.	This Condition expired September 23, 2002.	
SG-4.31	Notwithstanding the commitment, in Section 4.7 Control (FNMC) Plan identified in Condition SG-distribute DOE/NRC Form 741 within 30 days of shall have 30 additional days (from the date of requirements relative to the October 1, 2003, letter. This Condition shall autoshipment of this subject	-5.1, to perform receipt measurements and f receiving shipments of SSNM, the licensee material receipt) to fulfill the above stated identified in its	
SG-4.32	Notwithstanding the commitments in Section 4.7 Control Plan identified in Condition SG-5.1 to fo NUREG/BR-0006, "Instructions for Completing performing and reporting receipt measurements acknowledge receipt of the shipment in accordance."	llow the requirements contained in Nuclear Material Transaction Reports," for the licensee shall: (a) within 10 days note with NUREG/BR-0006 using the shipper's	
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values, and (b) within 75 days after receipt of each shipment report receiver's values, if necessary, in accordance with NUREG/BR-0006. The condition only applies to the impure oxide identified in the licensee's letters dated September 28 and November 10, 2004, and shall automatically expire on completion of the final shipment of the subject impure oxide. Upon completion of the final shipment, BWXT shall notify NRC with a written request to amend SNM-42 to delete SG-4.32.

Section 5.0 - FNMC PLANS AND SPECIAL REGULATORY ISSUES

- To achieve the performance objectives of 10 CFR 74.51(a) and maintain the system capabilities of 10 CFR 74.51(b) with respect to all activities involving special nuclear material, the licensee shall follow the General Discussion Chapter and Chapters 1.0 through 4.0 (all pages dated March 9, 2005) of its "Fundamental Nuclear Materials Control Plan Special Nuclear Materials License 42." Any revisions to this Plan shall be made in accordance with, and pursuant to, either 10 CFR 70.32(c) or 70.34.
- To achieve the performance objectives of 10 CFR 74.31(a) and maintain the system capabilities of 10 CFR 74.31(c) with respect to all activities involving special nuclear material of low enriched uranium, the licensee shall follow Chapters 1.0 through 10.0 (all pages dated October 12, 2001) of its, "Low Enriched Fundamental Nuclear Materials Control Plan." Any revisions to this Plan shall be made in accordance with, and pursuant to, either 10 CFR 70.32(c) or 70.34.
- SG-5.3 In lieu of the requirements of 10 CFR 74.59(h)(1)(ii) to review and evaluate shipper-receiver differences on a container, lot, or shipment basis for receipts of off-site generated scrap, the licensee shall follow Sections 4.7.1.12, 4.7.2.10, 4.7.2.11, and 4.7.2.12 of the Plan identified in Condition SG-5.1. For this material, the recovered quantities and associated uncertainties for a campaign shall be evaluated in accordance with the requirements of 10 CFR 74.59(h)(1)(ii) relative to all shipments in a campaign and on a cumulative basis for like material.
- Notwithstanding the requirement of 10 CFR 74.59(h)(2)(ii) to recover any scrap measured with a standard deviation greater than five percent within six months from the end of the inventory period in which it was generated, the licensee may retain up to organic, or other mixed scrap with a standard deviation greater than five percent until processes can be developed to eliminate the generation of this scrap or an approved process for the conversion of this scrap to a better measured form is in place.
- Notwithstanding the requirement of 10 CFR 74.15(a) to complete and distribute a Special Nuclear Material Transaction Report DOE/NRC Form-741 for any transfer of special nuclear material of one gram or more of contained U-235, the licensee may return emptied and cleaned cans, originally used to ship SNM to its facility, to its original supplier or to a DOE-

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	data does not exceed 25 grams contained U-23	ed that the uranium value calculated from NDA	
SG-5.6	Operations involving special nuclear material wh Condition SG-5.1 shall not be initiated until an a by the Nuclear Regulatory Commission.		
SG-5.7	The licensee is authorized to conduct the MC&A power scrap described in the January 3, 1990 le		
SG-5.8	The restriction of 10 CFR 74.51(d)(2) is hereby the NRC, the licensee is authorized to conduct prequirements of 10 CFR 74.59(f)(1). The licens inventory difference (SEID) for a given plant if the contained in HEU or less than 9,000 grams U-23.	ohysical inventories in accordance with the ee need not calculate the standard error of ne ID for that plant is less than 300 grams U-235	
SG-5.9	Notwithstanding the SNM possession limits allow notwithstanding the material control and account apply to the authorized possession and use of sometime (LTC) plant is exempted from the MC&A except for those identified below. This exemption licensee's commitments, as given in the General Safeguards Condition SG-5.1, to	uch SNM quantities, the Lynchburg Technology requirements of 10 CFR Parts 70 and 74 on is conditional upon compliance with the	
	regulatory requirements of Parts 70 and 74 that		
	10 CFR 70.51(b)(1) through (6);10 CFR 74.6; 74 (2); 74.59(c); 74.59(d)(2); 74.59(e)(3), (4) and (8)		
Section 6.0 - I	PHYSICAL PROTECTION FOR STRATEGIC SP	ECIAL NUCLEAR MATERIAL	
SG-6.1	The licensee shall follow the measures describe Products Division, Physical Protection Plan," day security procedures that are used to comply with accordance with the provisions of 10 CFR 70.32	ted May 18, 2006, submitted as Revision 7, and in the plan as it may be further revised in	

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SG-6.2	SG-6.2 The licensee shall follow the measures described in the, "BWX Technologies Nuclear Products Division Security Training, Qualification, and Equipment Plan, dated April 29, 2004, submitted as Revision 11 on October 13, 2004, and as it may be further revised in accordance with the provisions of 10 CFR 70.32(e).	
SG-6.3	The licensee shall follow the measures described in the plan titled, "BWX Technologies Nuclear Products Division Safeguards Contingency Plan," dated March 3, 2006, submitted as Revision 3, and as it may be further revised in accordance with the provisions of 10 CFR 70.32(g).	
SG-6.4	Deleted by Amendment 110, October 2004.	
SG-6.5	The licensee shall follow the: "Low Strategic Significant Special Nuclear Material Security Plan" for the B&W Lynchburg Research Center, dated May 31, 1993, and as the Plan may be further reviewed under the provisions of 10 CFR 70:32(e).	
SG-6.6	Notwithstanding the requirements of 10 CFR 73.40 and 73.50 for the protection of formula quantities of SNM with radiation dose rates greater than that specified in 10 CFR 73.6(b), the licensee shall follow Security Plan B, submitted by letter dated July 21, 1986, and as revised by August 27 and 28, 1986, submittals for SNM identified above. SNM protected by Security Plan B shall be limited to equivalent components thereof which have undergone at least 300 days decay since being used as a source of energy in a power reactor. The licensee shall possess SNM which requires the application of Security Plan B at infrequent intervals with no one possession time period exceeding five months.	
SG-6.7	The licensee shall follow the measures described in the Physical Security Plan titled, "Physical Protection Plan for Special Nuclear Material of Moderate and Low Strategic Significance," dated December 16, 2004, for the BWXT Building FF, submitted as Revision 2, and security procedures that are used to comply with the plan as it may be further revised in accordance with the provisions of 10 CFR 70.32(e).	
Section 7.0 - INTERNATIONAL SAFEGUARDS		
SG-7.1	The Licensee shall comply with the current version of Facility Attachment No. 17 of the Subsidiary Arrangements to the U.S. IAEA Safeguards Agreement. Facility Attachment 17 applies to the areas of the BWXT identified in the current version of the IAEA Design Information Questionnaire for the facility.	