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 SNM-42, Amendment 116
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. 70-27 Reference No.
6.	Byproduct Source, and/or Special Nuclear Material	7. Chemical and/or F Form	Physical 8. Maximum amount that Licensee May Possess at Any One Time Under This License
A.	Uranium enriched in U-235	A. Any enrichment or form, except U	F ₆
B.	Uranium enriched in U-235	B. Any enrichment ir UF ₆	
C.	U-233	C. Any	C.
D.	Plutonium	D. Unencapsulated and unirradiated	D
E.	Plutonium	E. Encapsulated foils in nuclear accident dosimete	E. E.
F.	Source material	F. Any	F.
G.	Am-241	G. Am-Be sealed neutron sources	G.
			Enclosure 1



NRC F	ORM 374A U.S. NUCLEAR REGULATORY COMMISSION	3
	· •	License Number SNM-42
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 70-27
		Amendment No. 116
U	U-232 U. Any	U.
V.	Po-210 V. Any	
W.	Pu-239 in greaterW. Sealed Sourcesthan Class C wastefrom Parks	
Х.	Transuranium elements in greater than Class C waste from Parks	X.1 X.2 X.3
9.	Authorized place of use: The licensee's existing facilities east of Lynchburg, Virginia, as described in the referer	es along the James River, approximately 8 miles need application.
10.	This license shall be deemed to contain two sections: Each section is a part of the license and the licensee is in each section.	Safety Conditions and Safeguards Conditions. subject to compliance with all listed conditions
	FOR THE NUCLEAR REGULAT	ORT COMMISSION
Date:	By Gary S. Janosko, Fuel Cycle Faciliti Division of Fuel C and Safeguards Washington, DC	Chief es Branch ycle Safety , NMSS 20555

.

ſ

NRC FORM 37	4A U.S. NUCLEAR REGULATORY COMMISSION	4
		License Number SNM-42
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 70-27
		Amendment No. 116
	SAFETY CONDITION	ONS
S-1	Authorized use: For use in accordance with the Chapters 1 through 11 of the application submitt pursuant to 10 CFR 70.32 or 10 CFR 70.72: Ap dated August 4, August 9, August 21, August 29 March 15, March 20, April 15, May 1 (two letters January 31, June 30, July 23, September 26, an April 15, April 24, May 5, August 27, September January 7, February 22, March 31, April 8, April August 18, August 25, October 8, November 18 February 15, February 28, April 28, June 6, Octo December 22, 2000; January 5, February 20, M July 10, August 14, September 12, and Decemb July 16, August 7, August 30, December 1, Dec 2002; June 10, October 9, October 30, Decemb March 8, April 13, May 5, June 10, July 22, Augu and April 15, July 11, November 10, November and June 16, 2006.	statements, representations, and conditions in ted on the following dates, or as revised plication dated July 14,1995; and supplements and November 9, 1995; February 1, b), September 23, and December 4, 1996; nd October 2, 1997; February 5, March 12, 8, October 15, and November 23, 1998; 29, May 5, May 10, May 13, May 24, , and November 24, 1999; February 8, ober 11, December 5, December 14, and arch 19, March 22, April 10, June 4, July 5, ber 18, 2001; January 2, May 24, June 11, ember 10, December 19, and December 20, er 3, and December 16, 2003, February 18, ust 9, August 13, August 19, November 4, 2004; 18, and December 22, 2005; June 14, 2006,
S-2	The licensee shall maintain and execute the res Revision 18, dated May 1, 2006, or as further re 10 CFR 70.32(i).	ponse measures in the Emergency Plan, vised by the licensee, consistent with
S-3	The volume of a second shall shall be specifically	be no larger than a nominal 5-gallon container. shown to be critically safe by the licensee.
S-4	, no more than may b	e 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" disp accordance with letter dated January 31, 1997,	oosal area is released for unrestricted use in A. F. Olsen of B&W to M. F. Weber of NRC.
S-8	Deleted by Amendment 22, March 1998. This C	Condition expired October 5, 1997
S-9	Deleted by Amendment 39, June 1999.	

. .

.

NRC FORM 3	74A U.S. NUCLEAR REGULATORY COMMISSION	
		5
<u></u>		License Number SNM-42
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 70-27
		Amendment No. 116
		1
S-10	Deleted by Amendment 49, December 1999.	
S-11	The "Cold" Surface Impoundment Pond was sur dated April 29 and May 24, 1999, from A.F. Olse Safeguards, U.S. Nuclear Regulatory Commissi dated June 24, 1999.	rveyed and evaluated in accordance with letters en of BWX Technologies, Inc.(BWXT), Office of Nuclear Material Safety and ion (NRC) and documented in Amendment 42
	The "Hot" Surface Impoundment Pond was rem April 28, 2000, from A.F. Olsen of BWXT, Safety and Safeguards, U.S. NRC and documen	ediated in accordance with the letter dated to the Director, Office of Nuclear Material nted in Amendment 58 dated October 11, 2000.
	BWXT, Shall control licensed material will shall keep records of all work done in these area	reas in the dose assessment for the entire site. hich could migrate and re-impact the area and as.
S-12	The licensee may transport uranium-beryllium we the requirements of 10 CFR Part 71. The uranium may use the fissile material exemption specified percent beryllium-to-fissile mass ratio limit. The concentration. The exemption to the 0.1 percent of the following criteria are met: (a) the total fiss (b) the total quantity of fit less than (c) the waste is shipped ex- to June 1, 2002.	vaste with fission and activation products under 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 nt beryllium-to-fissile mass limit is only valid if all ile mass per conveyance is less than or equal to ission and activation products in the waste is acclusive use; and (d) the waste is shipped prior
S-13	The Final Status Survey Report (FSSR) for the application dated August 10, 2005, has been do 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-ass landfill in the site dose assessment. BWXT sha migrate and impact the area, and keep records	Industrial Waste Landfill 1, submitted by 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 III also control licensed material which could of all work done in the area.
S-14	The Final Status Survey Report (FSSR) for Induated December 22, 2000, has been meet the requirements of 10 CFR 70.38 in that accordance with a decommissioning plan appro	ustrial Waste Landfills 2A and 2B, submitted in In reviewed by the NRC staff and determined to the landfills have been remediated in wed by NRC letter dated February 25, 1998.

.÷ +

NRC FORM 3	74A U.S. NUCLEAR REGULATORY COMMISSION	
		6
		SNM-42
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 70-27
		Amendment No. 116
		I
	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 areas	results from the FSSR may be reassessed in indfills in the dose assessment for the entire which could migrate and re-impact the area, s
S-15	The licensee is granted an exemption to 10 CFF Limit on Intake (ALI) and Derived Air Concentrat adopted by the International Commission on Rad ICRP Publication No. 68	R 20.1201(d) and is authorized to use Annual tion (DAC) values based on dose coefficients diological Protection (ICRP) and published in
S-16	BWX Technologies, Inc., is exempt from fissile r material package standards of 10 CFR 71.55 an 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	material classification and from the fissile of 71.59 for the transport of certain bulk the attachment to BWX Technologies' letter dated October 30, 2003, and are subject s 1 through 11 in Table 1. Shipment of the 10 CFR Part 71.
S-17	Notwithstanding the commitments in Section 5.2 Limiting Condition of Operation and a 0.96 Safet combined with a bias term of 0.015) shall only a the Section 1 is the reactivity driver of the syst shall meet the 0.92 Limiting Condition of Operation	3 of the License Application, (1) a 0.94 ty Limit (equivalent to a limit of 0.975 when pply to systems involving and the second in which em; and (2) and the second subsequent to ion and 0.95 Safety Limit.
· ·	"Systems involving sector of an analysis " shall be deeme or more machined and assembled sector of an analysis . This sha	ed to include only workstations containing one by themselves or in conjunction with other Il apply to see a reas 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	tween the individual IROFS and the accident eted by September 1, 2006. The completed spection.
	SAFEGUARDS COND	ITIONS
Section 1.0 -	ABRUPT LOSS DETECTION	
SG-1.1	Notwithstanding the requirement of 10 CFR 74.5 each unit process, the licensee shall follow Chap	53(b) to have a process detection capability for oter 1 of the Plan identified in Condition SG-5.1.

· ·

	•	
NRC FORM 374A U.S. NUCLEAR REGULATORY COMMISSION		
	7	
,	License Number	
	SNM-42	
MATERIALS LICENSE	Docket or Reference Number	
SUPPLEMENTARY SHEET	70-27	
	Amendment No. 116	
· · · · · · · · · · · · · · · · · · ·	I	
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 condition	r from A E. Olson to T. S. Shorr dated May 31	
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		
The second s		

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 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 **contraction** and higher tier components which are received with the provided (i) they were manufactured by a DOE contractor, (ii) the previous 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

NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION		8
· · · · · · · · · · · · · · · · · · ·		License Number SNM-42	
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 70-27	
		Amendment No. 116	
		· ·	
	en e		
		ing dia nana amin'ny fisiana amin'ny fisiana Amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana	
			·

:

•

'

NRC FORM 37	4A U.S. NUCLEAR REGULATORY COMMISSION	G C
		License Number SNM-42
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 70-27
		Amendment No. 116
	(e) shall follow Section 4.3.1.7 of the Pla measurement of uranium and U-235 con metallurgical mounts.	n identified in Condition SG-5.1 for the itent of the form of pieces or
SG-4.2	To satisfy the requirements of 10 CFR 74.59(h) shipment, for finished reactor components and o the Plan identified in Condition SG-5.1.	(1)(ii) that limits of error be calculated for each cores, the licensee may follow Section 4.7.2 of
SG-4.3	Notwithstanding the requirements of 10 CFR 74 performance of measurement processes, to me systems, to perform replicate sampling and replicate perform replicate isotopic analysis, to generate I and to generate separate random errors for sam licensee shall follow Section 4.4 of the Plan iden	.59(e)(3) to generate current data on the asure standards and replicates for bulk volume icate analysis for environmental releases, to bulk and random errors for process materials, npling and analysis on all sampling systems, the tified in Condition SG-5.1.
SG-4.4	Notwithstanding the requirements of 10 CFR 74 licensee shall follow Section 4.4.2.4 of the Plan	59(e)(6) concerning bias corrections, the identified in Condition SG-5.1.
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	e sole purpose of process monitoring and not 0 CFR 74.59(e) requirements.
SG-4.7	Notwithstanding the requirements of 10 CFR 74 data and information, the licensee may exclude and bias corrections.	.59(e)(5) to statistically evaluate all program secondary weights from the SEID calculation
SG-4.8	Notwithstanding the requirements of 10 CFR 74 control system designed to monitor the quality o licensee shall:	.59(e)(8) to establish and maintain a statistical f each type of program measurement, the
	(a) follow Section 4.4.2.3 of the Plan iden control charts for control standard measurement and nondestructive assay measurement	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 fuel at the .05 and .001 levels of significance.

NRC FORM 37	74A U.S. NUCLEAR REGULATORY COMMISSION	10
	······································	License Number SNM-42
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 70-27
		Amendment No. 116
SG-4.9	Notwithstanding the requirements of 10 CFR 74 random and systematic errors, the licensee may airborne environmental releases from the meas calculation.	.59(e)(3) and (8) to determine and control / exclude the measured discard path for urement control program and the SEID
SG-4.10	Notwithstanding the requirement of 10 CFR 74.8 measurement systems for the purpose of deterr requirement of 10 CFR 74.59(e)(8) to maintain a control standard measurements, the licensee ne for point calibrated, bias-free systems. To be re- must be calibrated by one or more measurement process unknowns are measured, and the measurement must be based on that calibration.	59(e)(3)(i) to measure control standards for all mining bias, and notwithstanding the a statistical control system to monitor such eed not measure nor monitor control standards garded as bias-free, a measurement system hts of a representative standard each time surement value assigned to a given unknown
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. T	his Condition expired September 15, 1997.
SG-4.16	Deleted by Amendment 21, November 1997. T	his Condition expired October 5, 1997.
SG-4.17	Deleted by Amendment 24, May 1998. This Co	ndition expired December 15, 1997.
SG-4.18	Deleted by Amendment 31, November 1998. T	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 mater requirements relative to the subsequent material receipts associated with th letter dated October 7, 1998.	7.1.2 of the Fundmental Nuclear Material -5.1, to perform receipt measurements and f receiving shipments of SNM, the licensee shall ial receipt) to fulfill the above stated and e and which is identified in its
SG-4.20	Deleted by Amendment 41, June 1999. This Co	ondition expired April 1999.
SG-4.21	Deleted by Amendment 44, September 1999. 1	This Condition expired June 1999.

NRC FORM 3	74A U.S. NUCLEAR REGULATORY COMMISSION	11
		License Number SNM-42
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 70-27
		Amendment No. 116
		· · · · · · · · · · · · · · · · · · ·
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 r requirements relative to the shipment of January 3, 2000, letter. This condition shall auto shipment of the subject	7.1.2 of the Fundamental Nuclear Material -5.1, to perform receipt measurements and f receiving shipments of SSNM, the licensee material receipt) to fulfill the above stated identified in its omatically expire on completion of the last
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 li date of the material receipt to fulfill the above st identified in the Se shall automatically expire on completion of the li	7.1.2 of the Fundamental Nuclear Material 45.1, to perform receipt verification 741 within 30 days of receiving shipments of icensee shall have 30 additional days from the ated commitment relative to the shipment of optember 6, 2002, request letter. This condition ast shipment of the subjection
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	s 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 r requirements relative to the shipment of October 1, 2003, letter. This Condition shall aut shipment of this subject	7.1.2 of the Fundamental Nuclear Material -5.1, to perform receipt measurements and f receiving shipments of SSNM, the licensee material receipt) to fulfill the above stated identified in its tomatically expire on completion of the last
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	7.1.2 of the Fundamental Nuclear Material Ilow the requirements contained in Nuclear Material Transaction Reports," for

NRC FORM 374	U.S. NUCLEAR REGULATORY COMMISSION	12
		License Number SNM-42
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 70-27
		Amendment No. 116
	performing and reporting receipt measurements acknowledge receipt of the shipment in accorda values, and (b) within 75 days after receipt of ea necessary, in accordance with NUREG/BR-0000 oxide identified in the licensee's letters dated Se automatically expire on completion of the final si completion of the final shipment, BWXT shall no SNM-42 to delete SG-4.32.	a, the licensee shall: (a) within 10 days ince with NUREG/BR-0006 using the shipper's ach shipment report receiver's values, if 6. The condition only applies to the impure eptember 28 and November 10, 2004, and shall hipment of the subject impure oxide. Upon otify NRC with a written request to amend
Section 5.0 - I	FNMC PLANS AND SPECIAL REGULATORY IS	<u>SUES</u>
SG-5.1	To achieve the performance objectives of 10 CF of 10 CFR 74.51(b) with respect to all activities is shall follow the General Discussion Chapter and March 9, 2005) of its "Fundamental Nuclear Mat License 42." Any revisions to this Plan shall be either 10 CFR 70.32(c) or 70.34.	R 74.51(a) and maintain the system capabilities involving special nuclear material, the licensee I Chapters 1.0 through 4.0 (all pages dated terials Control Plan - Special Nuclear Materials made in accordance with, and pursuant to,
SG-5.2	To achieve the performance objectives of 10 CF of 10 CFR 74.31(c) with respect to all activities i enriched uranium, the licensee shall follow Chap October 12, 2001) of its, "Low Enriched Fundam revisions to this Plan shall be made in accordan 70.32(c) or 70.34.	FR 74.31(a) and maintain the system capabilities involving special nuclear material of low pters 1.0 through 10.0 (all pages dated nental Nuclear Materials Control Plan." Any ice with, and pursuant to, either 10 CFR
SG-5.3	In lieu of the requirements of 10 CFR 74.59(h)(⁴ differences on a container, lot, or shipment basi licensee shall follow Sections 4.7.1.12, 4.7.2.10 Condition SG-5.1. For this material, the recover campaign shall be evaluated in accordance with relative to all shipments in a campaign and on a	1)(ii) to review and evaluate shipper-receiver s for receipts of off-site generated scrap, the , 4.7.2.11, and 4.7.2.12 of the Plan identified in red quantities and associated uncertainties for a n the requirements of 10 CFR 74.59(h)(1)(ii) a cumulative basis for like material.
SG-5.4	Notwithstanding the requirement of 10 CFR 74.3 a standard deviation greater than five percent w period in which it was generated, the licensee m organic, or other mixed scrap with a standard de can be developed to eliminate the generation of conversion of this scrap to a better measured for	59(h)(2)(ii) to recover any scrap measured with within six months from the end of the inventory may retain up to second screen second in oil, eviation greater than five percent until processes this scrap or an approved process for the form is in place.
SG-5.5	Notwithstanding the requirement of 10 CFR 74. Nuclear Material Transaction Report DOE/NRC material of one gram or more of contained U-23	15(a) to complete and distribute a Special Form-741 for any transfer of special nuclear 5, the licensee may return emptied and cleaned

NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION		13
		License Number SNM-42	
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number	<u> </u>
		Amendment No. 116	
	cans, originally used to ship SNM to its facil	ity, to its original supplier or to a DOE-	
			•

.

÷

NRC FORM 37	4A U.S. NUCLEAR REGULATORY COMMISSION	
	· · ·	License Number
		SNM-42 Docket or Reference Number
	SUPPLEMENTARY SHEET	Amendment No. 116
	designated facility without use of a DOE/NRC For material in or on the cans and provided that does not exceed 25 grams contained U-235 per U-235 per can within a given shipment.	orm-741, providing that there is no visible 10 the uranium value calculated from NDA data shipment, and averages less than 0.50 gram
SG-5.6	Operations involving special nuclear material which are not described in the Plan identified by Condition SG-5.1 shall not be initiated until an appropriate safeguards plan has been approved by the Nuclear Regulatory Commission.	
SG-5.7	The licensee is authorized to conduct the MC&A activities associated with recovery of zero power scrap described in the January 3, 1990 letter from A. F. Olsen to Martha Williams.	
SG-5.8	The restriction of 10 CFR 74.51(d)(2) is hereby lifted, and based on performance acceptable to the NRC, the licensee is authorized to conduct physical inventories in accordance with the requirements of 10 CFR 74.59(f)(1). The licensee need not calculate the standard error of inventory difference (SEID) for a given plant if the ID for that plant is less than 300 grams U-235 contained in HEU or less than 9,000 grams U-235 contained in LEU.	
SG-5.9	Notwithstanding the SNM possession limits allowed by Conditions 6, 7 and 8 of this license, and notwithstanding the material control and accounting (MC&A) requirements that would normally apply to the authorized possession and use of such SNM quantities, the Lynchburg Technology Center (LTC) plant is exempted from the MC&A requirements of 10 CFR Parts 70 and 74 except for those identified below. This exemption is conditional upon compliance with the licensee's commitments, as given in the General Discussion Section of the Plan identified in Safeguards Condition SG-5.1, to	
	regulatory requirements of Parts 70 and 74 that	apply to the LTC are as follows:
	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)	4.11; 74.13(a); 74.15; 74.17(c); 74.59(b)(1) and 8); 74.59(f); and 74.59(h)(1)(I).
Section 6.0 -	PHYSICAL PROTECTION FOR STRATEGIC SP	PECIAL NUCLEAR MATERIAL
SG-6.1	The licensee shall follow the measures describe Products Division, Physical Protection Plan," da security procedures that are used to comply with accordance with the provisions of 10 CFR 70.32	ed in the plan titled, "BWX Technologies Nuclear ted May 18, 2006, submitted as Revision 7, and h the plan as it may be further revised in 2(e).
		۰.

1.

······	A U.S. NUCLEAR REGULATORY COMMISSION	15
		License Number SNM-42
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 70-27
		Amendment No. 116
G-6.2	The licensee shall follow the measures describe Division Security Training, Qualification, and Equ as Revision 11 on October 13, 2004, and as it m provisions of 10 CFR 70.32(e).	d in the, "BWX Technologies Nuclear Products uipment Plan, dated April 29, 2004, submitted nay be further revised in accordance with the
G-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).	
G-6.4 G-6.5	Deleted by Amendment 110, October 2004. 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)	
G-6.6	Notwithstanding the requirements of 10 CFR 73 quantities of SNM with radiation dose rates grea licensee shall follow Security Plan B, submitted August 27 and 28, 1986, submittals for SNM ide Plan B shall be limited to equivalent components thereof which have unde used as a source of energy in a power reactor. the application of Security Plan B at infrequent in exceeding five months.	.40 and 73.50 for the protection of formula iter than that specified in 10 CFR 73.6(b), the by letter dated July 21, 1986, and as revised by entified above. SNM protected by Security or ergone at least 300 days decay since being The licensee shall possess SNM which require ntervals with no one possession time period
G-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).	
ection 7.0 - II	NTERNATIONAL SAFEGUARDS	
G-7 1	The Licensee shall comply with the current versi Subsidiary Arrangements to the U.S. IAEA Safe applies to the areas of the BWXT	ion of Facility Attachment No. 17 of the guards Agreement. Facility Attachment 17 identified in the current version of the