#### 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 119
2.	P.O. Box 785		4.	Expiration Date	September 30, 2005 Currently under timely renewal per letter dated June 30, 2004.
	Lynchburg, Virginia 2450	5-0785	5.	Docket No. 70-2 Reference No.	
6.	Byproduct Source, and/or Special Nuclear Material		cal and/or Physica		at Any One Time
A.	Uranium enriched in U-235		nrichment n, except UF <sub>6</sub>	A.	·
B.	Uranium enriched in U-235	B. Any e UF <sub>6</sub>	nrichment in	В	· · · · · · · · · · · · · · · · · · ·
C.	U-233	C. Any		C.	
D.	Plutonium		capsulated nirradiated	· D.	•
E.	Plutonium	foils i	psulated n nuclear ent dosimeters	E. <b>—</b>	
F.	Source material	F. Any		F.	
G.	Am-241	G. Am-E neutro	Be sealed on sources	G.	

Enclosure 1

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Н.	NP-237	H. Double encapsulated foils	Н.
I.	Any byproduct materials	I. 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	
N.	Fission products and transuranium elements	N. Any	N.
Ο.	In-114m	O. Sealed sources	O
P.	Yb-169	P. Sealed sources	P. <b>1</b>
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.

			N
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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	<b>W</b> . (
Χ.	Transuranium elements in greater than Class C waste from Parks	X. Any	X.1 X.2 X.3
9.		se: The licensee's existing facili ginia, as described in the refere	ties along the James River, approximately 8 miles need application.
10.			Safety Conditions and Safeguards Conditions. is subject to compliance with all listed conditions TORY COMMISSION
Date:	1/12/07	Fuel Facility Division of F and Safego	clear Material Safety

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	SAFETY CONDITIO	ONS
S-1 Au	uthorized 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, December 22, 2005; March 31, June 14, June 16, 2006, June 23, 2006, and September 28, 2006.
- S-2 The licensee shall maintain and execute the response measures in the Emergency Plan, Revision 18, dated May 1, 2006, or as further revised by the licensee, consistent with 10 CFR 70.32(i).
- S-3 The volume of a 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 a large 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	9.
S-11	The "Cold" Surface Impoundment Pond was surveyed and evaluated in accordance with letters dated April 29 and May 24, 1999, from A.F. Olsen of BWX Technologies, Inc.(BWXT), 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 of BWXT, 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 reassessed at the time of license termination in order to include any possible dose from these areas in the dose assessment for the entire site BWXT. Shall control licensed material which could migrate and re-impact the area and shall keep records of all work done in these areas:	
S-12	the requirements of 10 CFR Part 71. The transport may use the fissile material exemption specified percent beryllium-to-fissile mass ratio limit. concentration. The exemption to the 0.1 per of the following criteria are met: (a) the total quantity.	um waste with fission and activation products under iranium-may be of any enrichment. The licensee cified in 10 CFR 71.53 with an exemption to the 0.1 The waste may contain beryllium in any ercent beryllium-to-fissile mass limit is only valid if all all fissile mass per conveyance is less than or equal tity of fission and activation products in the waste is ed exclusive use; and (d) the waste is shipped prior
S-13	application dated August 10, 2005, has be requirements of 10 CFR 70.38 in that the la decommissioning plan approved on Novemhowever, the results of the FSSR may be re-	the Industrial Waste Landfill 1, submitted by en determined by the NRC staff to meet the andfill has been remediated in accordance with the ober 21, 2003. At the time of license termination, e-assessed in order to include any dose from this shall also control licensed material which could ords of all work done in the area.
S-14	application dated December 22, 2000, has meet the requirements of 10 CFR 70.38 in	Industrial Waste Landfills 2A and 2B, submitted in been reviewed by the NRC staff and determined to that the landfills have been remediated in pproved by NRC letter dated February 25, 1998.

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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 Concentrate 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 rematerial package standards of 10 CFR 71.55 are 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 section of the system of the section of Operation of	ty Limit (equivalent to a limit of 0.975 when pply to systems involving to subsequent to designs subsequent to	
	or more machined and assembled	ed to include only workstations containing one by themselves or in conjunction with other all 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	PITIONS	
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		

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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

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 if the calculated element 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 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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	(e) shall follow Section 4.3.1.7 of the Pla measurement of uranium and U-235 con metallurgical mounts.	·
SG-4.2	To satisfy the requirements of 10 CFR 74.59(h)(shipment, for finished reactor components and the Plan identified in Condition SG-5.1.	(1)(ii) that limits of error be calculated for each
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 and to generate separate random errors for samplicensee shall follow Section 4.4 of the Plan identification.	asure standards and replicates for bulk volume icate analysis for environmental releases, to bulk and random errors for process materials, appling 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 thos 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	10 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
SG-4.8	Notwithstanding the requirements of 10 CFR 74 control system designed to monitor the quality of 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 identificance.	entified in Condition SG-5.1 in lieu of controlling at the 0.05 and 0.001 levels of

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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 measural calculation.	exclude the measured discard path for	
SG-4.10	Notwithstanding the requirement of 10 CFR 74.5 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 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 into of a representative standard each time	
SG-4.11	Deleted by Amendment 15, June 1997. This Condition 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 the letter dated October 7, 1998.	-5.1, to perform receipt measurements and freceiving 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.	

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SG-4.21	Deleted by Amendment 44, September 1999. T	his Condition expired June 1999.	
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 shipment of 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 dentified 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 landard in the Seshall automatically expire on completion of the landard in the Seshall automatically expire on completion of the landard in the Seshall automatically expire on completion of the landard in the Seshall automatically expire on completion of the landard in the Seshall automatically expire on completion of the landard in the Seshall automatically expire on completion of the landard in the seshall expire in the seshall expire in the sesshall expire in the seshall	5.1, to perform receipt verification 41 within 30 days of receiving shipments of censee shall have 30 additional days from the ated commitment relative to the shipment of ptember 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	his 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 shipment of October 1, 2003, letter. This Condition shall aut shipment of this subject	5.1, to perform receipt measurements and receiving shipments of SSNM, the licensee naterial receipt) to fulfill the above stated identified in its	

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SG-4.32	Notwithstanding the commitments in Section 4.7 Control Plan identified in Condition SG-5.1 to fol NUREG/BR-0006, "Instructions for Completing I performing and reporting receipt measurements acknowledge receipt of the shipment in accorda values, and (b) within 75 days after receipt of eanecessary, in accordance with NUREG/BR-0006 oxide identified in the licensee's letters dated Se automatically expire on completion of the final shipment, BWXT shall no SNM-42 to delete SG-4.32.	Nuclear Material Transaction Reports," for the licensee shall: (a) within 10 days nce with NUREG/BR-0006 using the shipper's ach shipment report receiver's values, if 5. The condition only applies to the impure eptember 28 and November 10, 2004, and shall hipment of the subject impure oxide.	
Section 5.0 - F	FNMC PLANS AND SPECIAL REGULATORY IS	SUES	
SG-5.1	To achieve the performance objectives of 10 CF of 10 CFR 74.51(b) with respect to all activities i shall follow the General Discussion and Chapter 2006) of its "Fundamental Nuclear Materials Cor 42." Any revisions to this Plan shall be made in CFR 70.32(c) or 70.34.	s 1.0 through 4.0 (all pages dated March 29, htrol Plan - Special Nuclear Materials License	
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.	oters 1.0 through 10.0 (all pages dated nental Nuclear Materials Control Plan." Any	
SG-5.3	In lieu of the requirements of 10 CFR 74.59(h)(1 differences on a container, lot, or shipment basis 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	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 the requirements of 10 CFR 74.59(h)(1)(ii)	
SG-5.4	Notwithstanding the requirement of 10 CFR 74.5 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 decan be developed to eliminate the generation of conversion of this scrap to a better measured for	ithin six months from the end of the inventory pay retain up to in oil, eviation greater than five percent until processes this scrap or an approved process for the	

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SG-5.5	Nuclear Material Transaction Report DOE/material of one gram or more of contained cans, originally used to ship SNM to its designated facility without use of a DOE/N material in or on the cans and provide	R 74.15(a) to complete and distribute a Special /NRC Form-741 for any transfer of special nuclear U-235, the licensee may return emptied and cleaned sfacility, to its original supplier or to a DOE-RC Form-741, providing that there is no visible d that the uranium value calculated from NDA data so per shipment, and averages less than 0.50 gram t.
SG-5.6		rial which are not described in the Plan identified by I an appropriate safeguards plan has been approved
SG-5.7		MC&A activities associated with recovery of zero
SG-5.8	the NRC, the licensee is authorized to con- requirements of 10 CFR 74.59(f)(1). The l	ereby lifted, and based on performance acceptable to duct physical inventories in accordance with the licensee need not calculate the standard error of it if the ID for that plant is less than 300 grams U-235 s U-235 contained in LEU.
SG-5.9	notwithstanding the material control and ac apply to the authorized possession and us Center (LTC) plant is exempted from the N except for those identified below. This exe	s allowed by Conditions 6, 7 and 8 of this license, and counting (MC&A) requirements that would normally e of such SNM quantities, the Lynchburg Technology AC&A requirements of 10 CFR Parts 70 and 74 emption is conditional upon compliance with the eneral Discussion Section of the Plan identified in
	regulatory requirements of Parts 70 and 74	. Those MC&A 4 that apply to the LTC are as follows:
	10 CFR 70.51(b)(1) through (6);10 CFR 74(2); 74.59(c); 74.59(d)(2); 74.59(e)(3), (4)	4.6; 74.11; 74.13(a); 74.15; 74.17(c); 74.59(b)(1) and and (8); 74.59(f); and 74.59(h)(1)(I).
Section 6.0	- PHYSICAL PROTECTION FOR STRATEG	IC SPECIAL NUCLEAR MATERIAL
SG-6.1	Nuclear Products Division, Physical Protect	scribed in the plan titled, "BWX Technologies ction Plan," dated November 7, 2006, submitted as re used to comply with the plan as it may be further of 10 CER 70 32(e)

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SG-6.2	The licensee shall follow the measures described Division Security Training, Qualification, and Equas Revision 11 on October 13, 2004, and as it is provisions of 10 CFR 70.32(e).	uipment Plan, dated April 29, 2004, submitted		
SG-6.3	The licensee shall follow the measures describe Nuclear Products Division Safeguards Continge as Revision 3, and as it may be further revised in 10 CFR 70.32(g).	ncy Plan," dated March 3, 2006, submitted		
SG-6.4	Deleted by Amendment 110, October 2004.			
SG-6.5	The licensee shall follow the, "Low Strategic Sig for the B&W Lynchburg Research Center, dated reviewed under the provisions of 10 CFR 70.32(	May 31, 1993, and as the Plan may be further		
SG-6.6	Notwithstanding the requirements of 10 CFR 73 quantities of SNM with radiation dose rates greaticensee 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 undeused as a source of energy in a power reactor, the application of Security Plan B at infrequent i exceeding five months.	ater 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 requires		
SG-6.7	The licensee shall follow the measures described Protection Plan for Special Nuclear Material of Nuclear December 16, 2004, for the BWXT Building FF, procedures that are used to comply with the plawith the provisions of 10 CFR 70.32(e).	Moderate and Low Strategic Significance," dated submitted as Revision 2, and security		
SG-6.8	Notwithstanding the requirements of 10 CFR 73 73.46(b)(12)(ii); and Part 73, Appendix B, paragmay use nurse practitioners licensed under the 18 VAC 90-30-10, et seq., to conduct the requirements of 10 CFR 73 and 12 with the requirements of	raphs I.B.1.b, I.B.2.b, and I.C, the licensee Commonwealth of Virginia regulations		

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# Section 7.0 - INTERNATIONAL SAFEGUARDS

The Licensee shall comply with the current version of Facility Attachment No. 17 of the Subsidiary Arrangements to the US-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.