Page	1	of	4
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NRC FORM 7 (07-2019) 10 CFR 110 APPLICATION FOR NRC EXPORT OR IMPLICENSE, AMENDMENT, RENEWAL, OP CONSENT PEOLIEST(S)				SION APPROVED BY OMB: NO. 3150-0027 EXPIRES: 02/28/2022 Estimated burden per response to comply with this mandatory collection request: 2.4 hours. This submittal is reviewed to ensure that the applicable statutory, regulatory, and policy considerations are satisfied. Send comments regarding burden estimate to the Information Services Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0027), Office of						
(See Instructions on Pages 4 and 5)					Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.					
PART A. FOR NR	C USE ONLY	X Put	olic OR	Γ	Date Received Non-Public					
License Number		Docket Numb	er		- 03/01/21 JMS Adams Accession Number					
XB1355		110064	11							
PART B. TO (If more space	BE COMPLETED F ce is needed to compl	FOR ALL I ete any of t	LICENSES, he items, use	AME Pages	NDMENTS, REN s 3-4 first, and then	EWAL attach	S, OR CONSEN additional sheets, it	T REQUESTS necessary.)		
1. Name and Address of Applic Siemens Medical Solu 3850 Quadrangle Bou	ant/Licensee ution USA, Inc. ulevard		1a. Name of A	Applicant's Contact			1b. Applicant's Reference Number NRC7176			
Orlando, FL 32817.			1c. Office Tel (407) 619	ephone 9 - 352	Number 26		1d. Office Facsimile	Telephone Number		
		1	1e. Applicant prasanta.	's E-ma rijal@	il Address)siemens-health	nineer	s.com			
2. Type of Action Requested	Export (Parts B,	C, E)	Amendment/F	Renewa	I Current Lic	ense Nu	umber:	-12		
(Check one)	Import (Parts B,	D, E)	Consent Requ	uest (Pa	arts B, C) Current Lic	ense Nu	umber:			
3. Contract Number(s) 4504225612				4	4. First Shipment Date 01/15/2021	t Shipment Date 1/15/2021 5. Last Shipment Date 6. Proposed Ex 01/14/2023 07/20		6. Proposed Expiration Date 07/20/2023		
PART C. TO BE COMPLETED FOR EXPORT LICENSES, AMENDMENTS, OR RENEWALS (If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)										
7. Name(s)/Address(es) of U. S. Suppliers and/or other U. S. Parties to the Export8. Name(s)/Address(es Foreign Consignee(Siemens Medical Solution USA, Inc.810 Innovation Drive Knoxville, TN 37932 United State of America.8. Name(s)/Address(es Foreign Consignee(Siemens Health Rittigfeld 1 91301 Forchhei Germany.Please see page no. 3 of 4 for additional parties to export.9. Name(s)/Address(es Foreign Consignee(Siemens Health Rittigfeld 1 91301 Forchhei Germany.			i)/Address(es) (Consignee(s) Is Healthca Id 1 Forchheim ny.	of Interr are G	nediate mbH	9. Na Ca Dr. Ple ado	Dr. Ziauddin Hospital North Nazimbad Please see page no. 3 of 4 for addresses and other details			
7a. Function(s) Performed/Service(s) Provided 8a. Intermediate Use Source Manufacturer Please see page Please see page no. 3 of 4 Please see page		ediate Use(s) See page	^(s) ge no. 3 of 4 details		9a. U Sou ima	9a. Ultimate End Use(s) Sources for Biograph mCT medical imaging system				
 Description of Radioactive Materials, Sealed Sources, Nuclear Facilities Equipment, or Components; for Nuclear Equipment include Total Dollar of Equipment for Export 		acilities, I Dollar Value	10a. M E T	faximum Total Volume lement WGT (KG), or otal Activity (TBq)	e/ 10b.	Max Enrichment or WGT%	10c. Max Isotope WGT (KG)			
Germanium -68 Solid Polymer				1) C Max	S-27:11.7 Kg; . Activity 92.5	1)C	S-27 contains 26% Ge-68.	1)CS-27 contains 3 grams of Ge-68.		
Eight kits of Ge-68. Each kit contains one unit of CS-27 and two units of L LA.			ts of LS-	MBq 2) L 4.8 (Activ	S-LA set Up rod Grams. Max vity 46.25	2) 0.2	LS-LA contains 6% Ge-68	2) LS-LA contains 0.0125 grams of Ge-68 per rod.		
Maximum activity per	Maximum activity per kit 185 MBq				-					
see page 4 of 4 for additional details.										
11. Foreign origin (or obligation None: 100% US Oblig	ns by country and, if know	vn, by percen	tage of maxim	um tota	l volume)					

NRC FORM 7					U. S. NU(CLEAR REG	JLATC	ORY COMMISSION
10 CFR 110		APPLICATION		NRC EXPORT OR IMPO	ORT			
	LICENSE, AMEN	NDMENT, REM	IEWAL	, OR CONSENT REQU	EST(S) (C	ontinued)		
License Number	Docket Number			Adams Accession Number				
XB1355	11006411		ľ			X Public	OR	Non-Public
PART				TUCENSES AMEND			AI S	
(If more space	is needed to comple	te any of the ite	ms, use	Pages 3-4 first, and then at	ttach additio	onal sheets, it	f neces	ssary.)
12. Name(s)/Address(es) of Forei	ign Suppliers and/or	13. Name(s)/Add	dress(es)	of Foreign or U. S.	14. Name(s	s)/Address(es)	of Ultim	ate
other Foreign Parties to Impor	rt	Intermediate	Consigne	ee(S)	U.S.C	onsignee(s)		
12a NBC Export Licopeo Numbo	vr(a) (if applicable)	12a Lioonso Nu	mbor(c) /	Expiration Data(a)	14a Licon	Number(e) /	Evpirati	ion Data(a)
12a. NING Export Eldense Numbe		13a. License Nu	inder(s)/		14a. Licens		Lynau	ION Date(S)
		10h Justemasediet	- (-)		4.4			
		13b. Intermediat	e Use(s)		14b. Uluma	ate End Use(s)		
				45 M · · · · · · · · · · · · · · · · · ·	451 14 5		115	
15. Description of Radioactive Ma	aterials, Sealed Sources	s, Nuclear Facilitie	s	Element WGT (KG), or	or WG	ST%	150.	Wax Isotope WGT (KG)
				Total Activity (TBq)				
16. Foreign obligations (By count	ry and by Percentage o	f Maximum Total \	/olume)					
PART E. TO BE	E COMPLETED F	OR ALL LICE	NSES, A	AMENDMENTS, RENE	WALS OF		REQ	UEST(S)
(If more space	is needed to comple	te any of the ite	ms, use	Pages 3-4 first, and then at	ttach additio	onal sheets, it	f neces	ssary.)
17. Additional Information provide	ed on pages 3, 4, and/or	separate sheets?		17a. Copies of Recipie	ent's Authoriz	zations Provide	d?	
	Yes No				Yes		C	
18. Certification:								
I, the applicant's authorized and that all information pro	l official, hereby cer vided is correct to t	rtify that this a _l the best of my	oplicatio knowled	n is prepared in conform lge.	ity with Tit	le10, Code c	of Fede	eral Regulations,
18a. Print Name and Title of Auth	orized Official		18b. Siar	- nature Authorized Official				18c. Date
Prasanta Rijal,Di	irector			Riial 🥢	Digitally signed b	y Rijal Prasanta santa,		01/09/2021
Import Export Con	mpliance	The		Prasanta	o=Siemens, email=prasanta.ri healthineers.com	ijal@siemens-		UI/UO/ZUZI
Siemens Medical S	SOLUTIONS USA	A INC.		LIQ201119	Date: 2021.01.08	16:54:17 -05'00'		

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U. S. NUCLEAR REGULATORY COMMISSION

NRC FORM	7
(07-2019)	
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APPLICATION FOR NRC EXPORT OR IMPORT

LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)							
License Number	Docket Number	Adams Accession Number	X Public	OR		Non-Public	
XB1300	11006411						
Additional Information (Reference applic	able block numbers from page 1 and/or p	page 2 for each entry)					
Block 7) Bollore Logistics USA-Chica	ago Branch 10700 Waveland	Avenue Franklin Park, IL, 6013	31				
Block 7a) Bollore Logistics USA is frei	ght forwarder that will ship dir	rectly to the ultimate consignees	located in	Pakis	tan.		
Block 8a) Siemens Healthcare GmbH, listed on block 9 of the appli 4504225612 to Siemens M	, Rittigfeld 1, 91301 Forchheir cation. As part of fulfillment to ledical Solutions (SMS) USA	m, Germany received orders from the order, Siemens Healthcare to drop ship items mentioned in	m the end GmbH iss block 10 to	user i sued p o the e	n Pa urcha end u	kistan as ase orders iser.	
Block 9) Dr. Ziauddin Hospital North Contact: Dr. Sajid Sattar, Pr Dr. Ziauddin Hospital North mCT. Dr. Ziauddin Hospital	Nazimabad, Block B, Karachi none: 0092-21-36648237-9, F Nazimabad is end user for G North Nazimabad is also imp	i, Pakistan. Fax: 0092-21-36640670 e-68 Source kit for use with me porter of record.	dical imagi	ng sys	stem	Biograph	
End user may receive maxir replacement kits will be delive	num of four kits during the va vered to the end users only a	lidity of the license. After the firs s needed until the expiration of t	t delivery o the license	of the l	kits,		
Block 9a) Sealed sources Ge-68 is for	use with Biograph mCT me	dical imaging systems					
Biograph mCT PET/CT merimaging technique that is us tumors, brain diseases etc. radionuclide (or trances), wh of tracer concentration within dimensional imaging is ofter session, in the same maching in diagnosis, treatment prep	dical imaging system. Positro ed to observe metabolic proc The system detects pairs of g nich is introduced into the boo n the body are then construct n accomplished with the aid o ne. Images delivered by Biogra paration and radiation therapy	on emission tomography (PET) is cesses in the body. The medical gamma rays emitted indirectly by dy on a biologically active molect ed by computer analysis. In mod f a CT X-Ray scan performed of rahph mCT are used by trained in planning.	s a nuclear system de a positror ule. Three- dern PET-0 n the patie medical pro	medic tects c -emitt dimen CT sca ent dur ofessio	cine, cance ing ision anne ing ti onals	functional ers, al images rs, three he same s as an aid	

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NRC FORM	7
(07-2019)	
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APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)

License Number	Docket Number	Adams Accession Number	V Dublia	0.0	Non Dublic
XB1355	11006411		X Public	OR	Non-Public

Additional Information (Reference applicable block numbers from page 1 and/or page 2 for each entry)

Block10)

The model CS-27 is the Siemens product name for our 27 cm uniform phantom. A uniform phantom is a cylindrical source that is mechanically sealed with a uniform mixture of solid Ge-68 and polymer inside. The uniform phantom is used to set up the system as well as perform the daily quality control on the scanner. The primary purpose of this scan is to quality control the scanner's detectors prior to scanning a patient to ensure everything is operating correctly.

The model LS-LA set up rods are rod (also called line) sources that are used primarily to align the PET scanner with the CT scanner. The rods are made of a solid Ge-68 and polymer mixture that is welded on each end to seal the source. The rods are placed in the scanner field of view and a scan is performed. The PET scanner images the radiation inside the rods and the CT images the physical rod. The two scanners are successfully aligned to create one unit when the two images align.

The PET-CT Phantom includes internal structures which, when imaged with both modalities, can demonstrate how accurately the two image sets are aligned. In addition, a single sample of radioactive water is attenuated by water, bone, and CT contrast material (as

well as air only) to determine how accurately the CT-based PET attenuation correction works.