Radiation Safety Office

501 West 14th Street PO Box 1668 Wilmington, Delaware 19899-1668 302-733-1000

Joseph Solge 428-2148 FAX # 428-4527

Br.

August 12, 2008

U.S. Nuclear Regulatory Commission Region I 475 Allendale Road King of Prussia, PA 19406-1415

Re:

NRC License 07-12153-02

03001303

Dear Sir or Madam:

I would like to submit the following three changes to the license listed above:

- 1. Hann-Senn Chen has resigned from Christiana Care. Please remove him from the list of Authorized Medical Physicists in Item 13 C.
- 2. We have ceased the use of Iodine 125 liquid Iotrex and the Gliasite RTS System as listed in Items 6 H., 7 H., and 8 H. Please remove all references to liquid Iotrex and the Gliasite RTS System.
- 3. We would like to add Hungcheng Chen, MS to this license as an Authorized Medical Physicist. I have attached documentation of Mr. Chen's training and experience. Also attached is a copy of USNRC License No. 37-02523-01on which Mr. Chen was most recently listed as an Authorized Medical Physicist.

If you have any questions about this request, or need any further information, please contact me at either of the numbers listed above. I can also be reached at jsolge@christianacare.org.

Thank you very much for your consideration of these changes.

Sincerely,

Joseph F. Solge, Jr.

Radiation Safety Officer

NUCCHISM WATERIALS-002

Aug 15 2008 03:43pm P003

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Christiana Care Health Services, Inc. License No. 07-12153-02

Approved by:

Patrick Grusenmeyer, ScD, Vice President, Helen F. Graham Cancer Center

JFS/jfs

Cc:

W. Holden

T. Manzone, MD

L. Simpson, PhD



HUNGCHENG(HANK) CHEN, MS

March 3, 2008

Office Address & Telephone:

Department of Radiation Oncology

UPMC McKeesport Hospital

1500 5th Avenue, McKeesport, PA 15132

TEL: 412-664-2678

FAX: 412-664-6751

E-mail: chenhx@upmc.edu

Present Title:

 Medical Physicist, Department of Radiation Oncology, UPMC Cancer Centers at Mckeesport

Education:

• M.S. in Radiological Sciences (September 1998 - June 2001)

National Yang-Ming University, Taiwan

• B.S. in Biornedical Engineering (September 1986 - June 1990)

Chung Yuan Christian University, Taiwan

Certification:

- American Board of Radiology Certified in Therapeutic Radiological Physics, 2008
- The Chinese Society for Medical Physics in Taipei Certified Medical Physicist, 1999

Professional Experience::

- Medical Physicist (April/2006 - Now)

Department of Radiation Oncology, UPMC Cancer Centers at Mckeesport, Mckeesport
PA

Medical Physicist (December/2002 - March/2006)

Department of Radiation Oncology, UPMC Cancer Centers at Shadyside, Pittsburgh, PA

• Medical Physicist (July/1992 - October/2002)

Department of Radiation Oncology, Mackay Memorial Hospital, Taipei, Taiwan

Professional Affiliations:

- Active member of American Society of Therapeutic Radiology and Oncology since
 2008
- Full member of American Association of Physicists in Medicine since 2004
- Full Member of The Chinese Society for Medical Physics, Taipei since 1996

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Clinical Experience and Skills:

- Radiation Safety Officer for the Medical Accelerator License at UPMC McKeesport, 2007
- Authorized Medical Physicist at UPMC McKeesport Hospital for LDR Brachytherapy, 2006.
- Authorized Medical Physicist at UPMC Shadyside Hospital for Ir-192 in HDR Brachytherapy and Sr-90 in Intravascular Brachytherapy Unit, 2005.
- Two years experience in 4DCT imaging and respiratory gating system
- Two years experience in CyberKnife stereotactic radiosurgery

Received CyberKnife user training at Accuray Inc., Sunnyvale, CA, in May, 2005

- Three years experience in HDR planning, treatment and QA
- Five years experience in IMRT QA
- · Five years experience in LDR prostate seed implant
- Highly experienced in general external RT, treatment planning, dosimetry, radiation protection and quality assurance.

Research Skills:

- Famillar with EGS4 and Beamnre Monte Carlo software Received Beamnre training in NRCC Ottawa, Canada, in October, 2006
- Familiar with digital image processing and registration
- · Highly experienced in Visual BASIC programming
- Highly experienced in DICOM image format

Conference Presentations:

- Poster(Co-author) in 2006 AAMP Annual Meeting, Orlando FL
- Feasibility Study of Management of Respiration Induced Target Motion for the Radiotherapy Treatment of Lung Cancer Patients In the Absence of a 4DCT Simulator. M Sontag, <u>Hungcheng Chen</u>, D Michalski, R Andrade, I Uslene, F Li, N Yue, D Heron, and M Huq
- Poster(Presenting Author) in 2005 AAMP Annual Meeting, Seattle WA
- A New Device for the Verification of Temporal Function of the 4DCT and Gating Delivery System. <u>Hungcheng Chen</u>, Edward Brandner, Andrew Wu, Krishna Komanduri, Zhenyu Shou
- Poster(Co-author) in 2005 AAMP Annual Meeting, Seattle WA

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- Phase Lag Measurements of Abdominal Organs Relative to An External Marker Block Using Retrospective 4D CT Imaging. Edward Brandner, Andrew Wu, <u>Hungcheng Chen</u>, Dwight Heron, Krishna Kornanduri, Shalom Kalnicki, Kristina Gerszten, and Steven Burton
- Poster(Co-author) in 2005 AAMP Annual Meeting, Seattle WA
 Imaged-Based Simulation Technique To Determine Stepping Source Dwell Position For MammoSite Brachytherapy Procedures. Cheng Saw, Krishna Komanduri, Raj Selvaraj, Hungcheng Chen, Fang Li, and Dwight Heron
- Poster(Co-author) in 2005 AAMP Annual Meeting, Seattle WA
 Imaged-Based Simulation Technique To Determine Stepping Source Dwell Position For MammoSite Brachytherapy Procedures. Cheng Saw, Krishna Komanduri, Raj Selvaraj, Hungcheng Chen, Fang Li, and Dwight Heron
- Poster(Co-author) in 2005 AAMP Annual Meeting, Seattle WA
- Multi-Institutional Retrospective Analysis of IMRT QA Measurements. Marc Sontag, X
 Chen, Lihong Qin, Frank Ottino, <u>Hungcheng Chen</u>, Fang Li, Alphonse Loper, Krishna Komanduri, Ron Lalonde, Ning Yue, Dwight Heron, and M Huq
- Poster(Co-author) in 2005 AAMP Annual Meeting, Seattle WA
- The Use of Diode in In-Vivo Dosimetry Quality Assurance in IMRT. H Kim, Z Wang, R Lalonde, M Sontag, <u>Hungcheng Chen</u>, F Li, R Smith, M Huq, D Heron, and N Yue
- Oral(Presenting Author) in 2004 AAPM Annual Meeting, Pittsburgh PA
- Dosimetric Evaluations and Analyses of A Moving Target Volume Treated with Respiratory-Gated Intensity Modulated Radiotherapy
- Hungcheng Chen, Edward Brandner, Shalom Kalnicki, Dwight Heron, Krishna Komanduri, Andrew Wu
- Oral(Co-author) in 2004 AAPM Annual Meeting, Pittsburgh PA
- Quantitative Studies of Abdominal Organ Motions Resulting From Respiration Using Retrospective 4D CT Imaging. Edward Brandner, Andrew Wu, <u>Hungcheng Chen</u>, Dwight Heron, Shalom Kalnicki, George Henning, Kristina Gerszten, Steven Burton **Publications**:
- ublications .
 - (1) Brandner ED, Heron D, Wu A, Huq MS, Yue NJ, <u>Chen H</u>: Localizing moving targets and organs using motion-managed CTs. Med Dosirn. 2006 Summer;31(2):134-40.
 - (2) Brandner ED, Wu A, <u>Chen H</u>, Heron D, Kalnicki S, Komanduri K, Gerszten K, Burton S, Ahmed I, Shou Z.: Abdominal organ motion measured using 4D CT. Int J Radiat

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Oncol Biol Phys. 2006 Jun 1;65(2):554-60.

- (3) H Chen, W.L. Chen, and K.H. Chang: Monte Carlo simulation of an 192ir brachytherapy source in bone and lung. Therapeutic Radiology and Oncology, Vol. 8, No. 1, 43-53, March 2001
- (4) Y.J. Chen, Y.S. Dai, B.F. Chen, Anita Change, <u>H Chen</u>, Y.C. Lin, K.H. Chang, Y.L. Lai, C.H. Chung, Y.J. Lai: The effect of tetrandrine and extracts of centella asiatica on acute radiation dermatitis in rats., Blol. Pharm. Bull. Vol. 22, No. 7, 703-706, July 1999
- (5) Y.J. Chen, S.D. Shyur, Anita Change, <u>H Chen</u>, K.H. Chang, Y.L. Lai, P.G. Chen: The combined effect of colchicine and radiation on human hepatoma HA22T/VGH cells., Therapeutic Radiology and Oncology, Vol. 6, No. 2, 83-87, June 1999
- (6) <u>H Chen</u>, J.I. Yeh, C.Y. Yeh, Y.L. Lai and W.C.Chen: Normal tissue doses of radiation from radiotherapy of breast cancer Therapeutic Radiology and Oncology, Vol. 2, No. 4, 337-344, December 1995

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U.S. NUCLEAR REGULATORY COMMISSION

OF 10. PAGES Amendment No. 92

MATERIALS HE

ublicate

Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code Pregulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations The made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to Ever or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license hall 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. UPMC Presbyterian Shadyside

Pittsburgh, Pennsylvania 15232 2. 5230 Centre Avenue

In accordance with the letter dated

April 15, 2005,

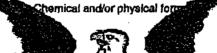
3. License number 37-02523-01 is amended in its entirety to read as follows:

Expired of date November 30, 2011

Reference No. 37492523-03

Byproduct, source, and/or special nuclear material

- A. Any byproduct materialpermitted by 10 CFR 35-100
- B. Any byproduct material permitted by 10 CFR 35
- C. Any byproduct material permitted by 10 CFR 35.306
- D. Any byproduct material permitted by 10 CFR 35.400
- E. Any byproduct material permitted by 10 CFR 35.500
- F. Iridium 192 permitted by 10 CFR 35.600
- permitted by 10 CFR 31



Maximum amount that licensee may sess at any one time under this

needed

Aneeded

2600 millicuries

D. 3,500 millicuries

E. Sealed Sources (North American Scientific Model MED 3601; DuPont Pharma Model NES 8412; IPL Model HEG-137)

F. Sealed Sources (Nucletron Model 105.002 [manufactured by Mallinckrodt Medical and AEA Technology, Inc.]; Nucletron Model 096.001 [manufactured by Mailinckrodt Medical and AEA Technology,

E. Prepadupkicate

E, 2,120 millicurles total

F. 12 curies per source and 24 curies total

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S.	For	r medical use in a Guidant C				chytherapy		à	I
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11.	Th€	e Radiation Safety Officer for	this licens	e is Ronald J. Scr	ala, M.S.				
12.	Lice	ensed material is only authori	1.	-	-		•		
	A.	Individuals permitted to work with 10 CFR 35.13 and 35.1		ithorized user and	or authorized med	dical physic	ist in ac	corda	nce
	B.	The following individuals are	; authorize	ed users for the m	aterials and uses Ir	ndicated:	,		
		Authorized Üsers	!	<u>Material</u>	and Use				
	٠. (Ingrid Naugle, M.D. Duplicate	1		35,200; 35.300; 35 tadies = 0 Uranium	Dupl	icat	e .	

Susan Rakfal, M.D.

Une Wealth State

Kristina Gerszten, M.D.

Robert S. Werner, M.D. Sushil Beriwal

Ryan Smith, M.D.

和obertiPiroliaM.D:

35.400; Iridium 192 for uses in a High Dose Rate Remote Afterloader Unit; Strontium 90 and Phosphorus 32 for intravascular brachytherapy procedures

35.400; Iridium 192 for uses in a High Dose Rate Remote Afterloader Unit; Strontium 90 and Phosphorus 32 for intravescular brachytherapy procedures

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m 192 for uses in a High Dose Rate doader Unity Strontium 90 for brachythe by procedures

92 for the In a High Dose Rate der Units Strontium 90 for e apy procedures

The following individuals authorize

Authorized Medical Physicist

Bruce Libby, Ph.D.

Satya Bose, Ph.D.

Mubina Quadar, Ph.D.

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fridium 192 in a High Dose Rate Remote Afterloader Unit and Strontium 90, Iridium 192 and Phosphorus 32 in an Intravascular Brachytherapy Afterloader Device for calibrations, spot checks, and training

Iridium 192 in a High Dose Rate Remote Afterloader Unit and Strontium 90, Iridium 192 and Phosphorus 32 in an Intravascular Brachytherapy Afterloader Device for calibrations, spot checks, and training

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NUCLEAR REGULATORY COMMISSION PAGES License Number 07-02523-01 ket or Reference Numb 030-03021/37-02523-03 Amendment No. 92 Material and Use dinonzed Users Vijav K. Bahl, M.D. 35.100 Steven Burton, M.D. 35.400; Iridium 192 for uses in a High Dose Rate MUCLEAR Remote Afterloader Unit; Strontium 90, Iridium 192 and Phosphorus 32 for intravascular brachytherapy 35.400; Iridio 92 for uses in a High Dose Rate Alexander Chen, M.D. Remote Afterloader Unit; Strontium 90, Iridium 192 and Phosphorus 3. br intravascular brachytherapy procedures 192 for uses in a High Dose Rate 35.400: Irielita John Flickinger, pader Unit, Strontlum 90, Iridium 192 rus 32 for ibravascular brachytherapy 192 for oses in a High Dose Rate Dwight E. Heron, CD er Unstrontium 90 and or intravascular brachytherapy Barry M. McCook, M Frank S. Torok. M.D. A00: Feium 192 for uses in a High Dose Rate Melvin Deusch, M.D. Remote Afterloader Unit; Strontium 90 and Phosphorus 32 for intravascular brachytherapy procedures Joel Greenberger, M.D. 35.400; Iridium 192 for uses in a High Dose Rate Remote Afterloader Unit; Strontium 90 and Phosphorus 32 for intravascular brachytherapy procedures Joseph Wapenski, M.D. 35.100; 35.200; 35.300 35.200 Christopher C. Allen, M.D. Judith M. Joyce, M.D. 35.100; 35.200; 35.300 85.100<u>1.35.200</u>; 35.300 lames M. Mountz, M.D. **Duplicate**

Lee Tao. Pl

Ronald Scala M.S

Krishna Komanduri

Cheng Saw, Ph.D.

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s 32 in an intravascular Brachytherapy Device for alibrations, spot checks,

a High Bose Rate Remote onlt and Strontium 90, Iridium 192 and us 32 in an intravascular Brachytherapy er Device for calibrations, spot checks,

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Iridium 192 in a High Dose Rate Remote Afterloader Unit and Strontium 90, Iridium 192 and Phosphorus 32 in an Intravascular Brachytherapy Afterloader Device for calibrations, spot checks, and training

Iridium 192 in a High Dose Rate Remote Afterloader Unit and Strontium 90 in an Intravascular Brachytherapy Afterloader Device for calibrations, spot checks, and training

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License Number 97-02523-01_ Docket or Reference Number 030-03021/37-02523-03 UPPLEMENTARY SHEET Amendment No. 92

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Manammed Santilithua: Ph.D.

Iridium 192 in a High Dose Rate Remote Afterloader Unit and Strontium 90 In an Intravascular Brachytherapy Afterloader Device for calibrations, spot checks, and training

Home Chen, M.S. CLEAR

Iridium 192 in a High Dose Rate Remote Afterloader Unit and Strontium 90 in an Viscular Brachytherapy Afterloader Device for calibrations, spot checks, and training

The following individuals are authorized users for non-medical uses as indicated:

Material and <u>Users</u> Carbon 14 Phosphorus 32; Joel Nelson us 33; Sulfur 35 and lodine 125 3; Carbon Phosphorus 32; Beth Pflug. Carbon 14; Phosphorus 32; Uddhav P. K 🚰 35 and lodine 125 h 3; Carban 14; Phosphorus 32; Janey Whalen, P Sulfur 35 and lodine 125

- Licensed material in Item 6.1. shall be used by or under the supervision of, individuals who have received the training described in application, sated April 16, 1995 and have been designated, in writing, by the Radiation Safety Officer.
- Intravascular brachytherapy procedures shall be conducted under the supervision of the authorized user, who will consult with the interventional cardiologist/physician and authorized medical physicist prior to initiating treatment. The procedures shall be conducted in the physical presence of the authorized user or the authorized medical physicist.
- 13. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d), 40.36(b), and 70.25(d) for establishing decommissioning financial assurance.
- 14. In lieu of 10 CFR 35.404, immediately after retracting the source from the patient into its shielded position in the intravascular brachytherapy device, a radiation survey shall be made of the patient and the intravascular tracbytherapy device with a portable radiation detection survey instrument of confirm that the source has been emoved from the patient. Fleeting of the source shall be maintained in lieu of the record required in 10 CFR 35.2404.

TE NUCLEAR REGULATORY COMMISSION PAGE PAGES License Number Ouplicate 2523-01 Docket or Reference Numb 030-03021/37-02523-03 **OPPLEMENTARY SHEET** Amendment No. 92

Fax 3024284527

- The intravascular brachytherapy afterloader device shall be inspected and serviced at intervals recommended by the manufacturer, and maintenance and repair shall be performed by the manufacturer orbeisons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- The licensee shall not use licensed material in or on human beings except as provided otherwise by specific condition of this license.
- The licensee shall not use licer see material in field applications where it is released except as provided otherwise by specific condition of this license.
- 18. For sealed sources not associated with 10 CFR Part 35 use, the following conditions apply:
 - A. Sealed sources shall be test for leakage and/or contaminate at intervals not to exceed the intervals specified in the certification issued to U.S. Nuclear Regulatory Commission greement State. under 10 CFR 32.210 or under ent regulations
 - Notwithstanding Paragraph A of es designetto primarily emit alpha particles shall be tosled for lask intervals nor to exceed 3 months.
 - leak test has been made within the ine U.S. Midlear Regulatory Commission Agreemed State, prior to the transfer, a C. In the absence of a scriffical Intervals specified in the carbinate under 10 CFR 32.210 of under but into as until tested and the test results sealed source received from another pers received.
 - D. Sealed sources need not be tested if thet contain dely fiverogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days of less, or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcurles of alpha-emitting material.
 - Sealed sources need not be tested if they are in storage and are not being used; however, when they are removed from storage for use or transferred to another person and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
 - F. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.

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US NUCLEAR REGUL	ATORY COMMISSION	PAGE 9 of 10 PAG	ES
MATERIALS LICENSE SUPPLEMENTARY SHEET	Duplica	License Number 972-02523-01 Duplicate Docket or Reference Number 030-03021/37-02523-03	
		Amendment No. 92	

- G Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- H. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
- 19. Sealed sources or detector cells containing licensestmaterial shall not be opened or sources removed from source holders by the licensee.
- 20. The licensee shall conduct a physical inventory every six months, a at other intervals approved by the U.S. Nuclear Regulatory Compassion, to account for all sources and/ordevices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radio reclides, quantities, manufacturer's name and inodel numbers, and the date of the inventory.
- 21. The licensee shall not repair, remove the control source or shield the perfect of the control source or shield the perfect of the control source, safety interlocks, or any component that makes the safety retained the irradiator. These activities shall be performed by a person electrical like the performance of the control source. These activities shall be perform such services.
- 22. The procedures contained in the contained in the contained by the license shall be followed and a copy of this many stailed size available to each person using or having responsibility for the use of the device.
- 23. Replacement-exchange of the source/source-holder combination, for diagnostic sources identified in 10 CFR 35.500, may be performed by the licensea in appropriate with the instructions contained in the manufacturer's manual.
- 24. The licensee is authorized to hold byproduct material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal without regard to its radioactivity if the licensee:
 - A. Monitors byproduct material at the surface before disposal and determines that its radioactivity cannot be distinguished from the background radiation level with an appropriate radiation detection survey meter set on its most sensitive scale and with no interposed shielding; and
 - B. Removes or obliterates all radiation labels, except for radiation labels on materials that are within containers and that will be managed as biomedical waste after they have been released from the licensee; and
 - C. Maintains records of the disposal of licensed materials for 3 years. The record must include the date longispessi, the quivey instrument used, he participated radiation level, the radiation level, the radiation favel reasured at melsurate or each waste container, and the halme of the individual who performed the disposal.

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THE CONTROL OF THE CO	AR REGULATORY COMMISSION	PAGE 10	of 10 PAGES
DECLICATE MATERIALS LIK SUPPLEMENTARY	Duplica Duplica	030-03021/37-02523-03	icate
		Amendment No. 92	
25. Nrie licensee is authorized to tran 10.CFR Part 71, "Packaging and	sport licensed material in a Transportation of Radioac	accordance with the provisions tive Material."	of
26 Except as specifically provided of accordance with the statements, any enclosures, listed below. The besubmitted in accordance with licensee's ability to make change the U.S. Nuclear Regulatory Correpresentations, and procedures.	representations, and process license condition applies the regulations. Additional to the reduction protectors shall be applied to the reductions and the reductions and the reductions are applied to the reductions and the reductions and the reductions are reductions.	edures contained in the docume only to those procedures that a ly, this license condition does n depogram as provided for in 10 in fovers unless the statements	ents, including are required to lot limit the CFR 35.26.
B. Letter dated October 22, 24, 200 C. Letter dated October 24, 200 D. Letter dated May 6, 2002 (ME. Letter dated June 4, 2002 (MF. Letter dated June 18, 2002	ML012960161) 3030369) LO. 2) ML0 9) ML0 157	anagement Program (ML01257	0086)
G. Facsimile received Daly 29, H. Letter dated June 27, 2002 J. Letter dated December 20, J. Letter dated June 4, 2003 (M		COMMISSION	
	***		•
	For the U.S	. Nuclear Regulatory Commissi	on
	_	nal signed by Sandra Gabriel	
ete August 12, 2005	Medic	ra Gabriel cal Branch on of Nuclear Materials Safety	

This is to acknowledge the receipt of your letter/application dated					
includes an administrative r	, and to inform you that the initial processing which review has been performed.				
	t (07-1) 153-0) ative omissions. Your application was assigned to a use note that the technical review may identify additional ditional information.				
Please provide to this of	fice within 30 days of your receipt of this card				
	een forwarded to our License Fee & Accounts Receivable u separately if there is a fee issue involved.				
Your action has been assigned Mail Control Number When calling to inquire about this action, please refer to this control number. You may call us on (610) 337-5398, or 337-5260.					
NRC FORM 532 (RI)	Sincerely, Licensing Assistance Team Leader				