

416 Connable Avenue Petoskey, Michigan 49770 231.487.4000 www.northernhealth.org

11-27-07

United States Nuclear Regulatory Commission Region III, Materials Licensing 2443 Warrenville Road Suite 210 Lisle, IL 60532-4352 630-829-9887

RE: Amendment to NRC License No. <u>21-16732-01</u> Northern Michigan Regional Hospital

Dear Sir/Madam:

<u>ltem #1</u>

Please add the following physician to our current NRC license.

Ryan R. Hoenicke, M.D. Group 35.100 and 35.200 Group 35.300 (For quantities less than or equal to 33 mCi)

We have enclosed a copy of his ABR certificate, State of Michigan license to practice medicine, NRC Form 313A (AUT), (AUD) and "Form A" form the ABR.

If you have any questions or require additional information please contact our MPC consultant Sharon Updike at 734-662-3197 or myself at 231-487-4264.

Respectfully Yours,

Dan Dryden, M**S**, DABR, RSO Medical Physicist

Sherry Háneckow Director of Patient Care Operations Hospital Administration

cc. Dr. William Henry Jim Flickema Steven Cross

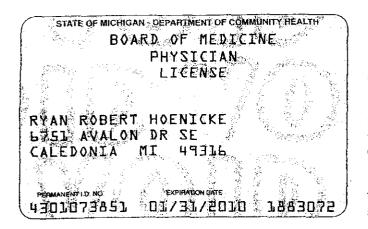
RECEIVED DEC 1 0 2007

DD/dd

The American Board of Radiology Organized through the cooperation of the Organized through the cooperation of the American College of Radiology, the American Roentgen Ray Society, the American Radium Society, the Radiological Society of North America, the Section on Radiology of the American Medical Association, the American Society for Therapeutic Radiology and Oncology, the Association of University Radiologists, and American Association of Physicists in Medicine Hereby certifies that Ryan Robert Hoenicke, MD Has pursued an accepted course of graduate study and clinical work, has met certain standards and qualifications and has passed the examinations conducted under the authority of The American Board of Radiology On this sixth day of June, 2007 Thereby demonstrating to the satisfaction of the Board that he is qualified to practice the specialty of Diagnostic Radiology they o Mederson . R.P. Hatter m

Certificate No. 56261

Balid through 2017



COMPLAINT INFORMATION:

The issuance of this license should not be construed as a waiver, dismissal or acquiescense to any complaints or violations pending against the licensee, its agents or employees.

WALL CERTIFICATE INFORMATION:

If the box below is checked, you are eligible to purchase your State of Michigan Official Wall Certificate. Please call J-8DD-875-3676 X

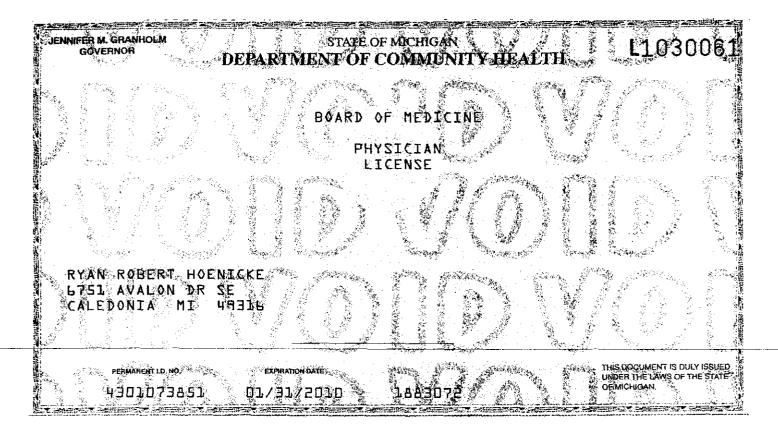
96.010-015-0

FUTURE CONTACTS: You should direct all inquires regarding this license or address changes to the:

DEPARTMENT OF COMMUNITY HEALTH

BOARD OF MEDICINE

YOUR LICENSE MUST BE DISPLAYED IN A PROMINENT PLACE. REVERSE SIDE OF LICENSE CONTAINS IMPORTANT INFORMATION. P.O. BOX 30670 LANSING MI 48909-8170



NRC-FORM 313A (AUD)	U.S. NUCLEAR REGUL	TORY COMMISSION		
(3-2007) AUTHORIZED USER TRA AND PRECEPTO (for uses defined under 3	NINING AND EXPERING ATTESTATION	INCE	APPROVED BY EXPIRES: 10/3	ОМВ: NO. 3150-0120 1/2008
Name of Proposed Authorized User		rritory Where Licens	ed	
Eyan F. Hoericke MD.	M	higan US		
Requested Authorization(s) (check all that a	pply)			
35.100 Uptake, dilution, and excretion s	udies			
35.200 Imaging and localization studies				
35.500 Sealed sources for diagnosis (sp	ecify device)	
	T I TRAINING AND EX			
* Training and Experience, including board the date of application or the individual m the required training and experience was education and experience related to the t	certification, must have be ust have obtained related o completed. Provide dates	en obtained within continuing educatio	n and experier	nce since
✓ 1. Board Certification				
a. Provide a copy of the board certification	tion.			
 b. If using only 35.500 materials, stop Preceptor Attestation. 	nere. If using 35.100 and 3	5.200 materials, sl	kip to and com	plete Part II
2. Current 35.390 Authorized User Se	eking Additional 35.290	Authorization		
a. Authorized user on Materials Licens	e m	eeting 10 CFR 35.3	390 or equivale	ent Agreement
State requirements seeking authoriz	ation for 35.290.			
 b. Supervised Work Experience. (If more than one supervising individ copies of this section.) 	ual is necessary to docum	ent supervised wor	k experience,	provide multiple
Description of Experience	Location of Experience Permit Number of		Clock Hours	Dates of Experience*
Eluting generator systems appropriate for the preparation of radioactive drugs for imaging and localization studies, measuring and testing the eluate for radionuclidic purity, and processing the eluate with reagent kits to prepare labeled radioactive drugs				
	Total Hours of Experie	nce:		
Supervising Individual	License/P authorized	ermit Number listing Luser	supervising indi	vidual as an
Supervisor meets the requirements belo	w, or equivalent Agreemen ator experience in 32.290		nts (check all ti	nat apply).
	ator experience in 32.290			
NRC FORM 313A (AUD) (3-2007)	PRINTED ON RECYCLED PAPER			PAGE 1

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3. <u>Training and Experience for Pro</u> a. Classroom and Laboratory Traini			
Description of Training	Location of Training	Clock Hours	Dates of Training*
Radiation physics and instrumentation	Michigan State University (MSU) East Lonsing, Mã	52	7/00-2/07
Radiation protection	MSU Enstlansmy, MI	9	7/00-2/07
Mathematics pertaining to the use and measurement of radioactivity	MSU	ÍD	7/00-2/07
Chemistry of byproduct material for medical use (not required for 35.590)	MSU	13	7/20-2/07
Radiation biology	MSU	12	7/00-2/07
	Total Hours of Training: mpletion of this table is not required for 35.590 vidual is necessary to document supervised v		
Supervised Work Experience	Total Hours of Experience:		
Description of Experience Must Include:	Location of Experience/License or Permit Number of Facility	Confirm	Dates of Experience*
Ordering, receiving, and unpacking radioactive materials safely and performing the related radiation	Spectrum Health Gaul Popular, ME (Amersham)	Yes	
surveys	(Amersham)	No	
Performing quality control procedures on instruments used to determine the activity of dosages and performing checks for proper operation of survey meters		Yes	

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raining and Experience for Propos		ed)	
b. Supervised Work Experience, (con	T		
Description of Experience Must Include:	Location of Experience/ Permit Number of F		Dates of Experience*
Calculating, measuring, and safely preparing patient or human research ubject dosages		Yes	
Using administrative controls to prevent a medical event involving the se of unsealed byproduct material		Yes	
Ising procedures to contain spilled yproduct material safely and using roper decontamination procedures		Yes	
dministering dosages of radioactive rugs to patients or human research ubjects		Yes	
luting generator systems appropriate or the preparation of radioactive rugs for imaging and localization tudies, measuring and testing the luate for radionuclidic purity, and		Yes No	
rocessing the eluate with reagent its to prepare labeled radioactive rugs			
upervising Individual	License/Pern authorized us	nit Number listing supervising i er	ndividual as an
upervisor meets the requirements be		State requirements (check of erator experience in 35,290	
For 35.590 only, provide document			
Device	Type of Training	Location and	Dates

NRC FC (3-2007)	AUTHORIZED L	SER TRAININ	G AND EXPERI	ENCE AND PR	ECEPTO	U.S. NUCLEAR REGU		ON
			PART II – PREC	CEPTOR ATTES	STATION	1		
lote:	individual as long	as the precept necessary to do	or provides, dire ocument experie	ects, or verifies t nce, obtain a se	raining a	r does not have to be nd experience requir receptor statement fi	ed. If more than	
	Section to ne of the follow	ing for each u	eo reguestado					
	<u>35.190</u>	ing for each u	se lequesteu.					
	Board Certificatio	'n						
			Hopnicker	M. has satisfac	torily cor	npleted the requiren	nents in	
			s achieved a lev cal uses authoriz			nt to function indepe).	endently as an	
	Training and Evo	erionce		OR				
	Training and Exp			has satisfac	torily cor	npleted the 60 hours	s of training and	
	35.190(c)(1),	icluding a minin and has achiev		npetency sufficient	ent to fur	ory training, required action independently).		ĺ
<u>For</u>	<u>35.290</u>							
	Board Certificatio		, <i>F</i>					
	I attest that	Rygn R Name of Propos	Hochickel	1.∬has satisfac	torily cor	npleted the requiren	nents in	
			s achieved a leve al uses authoriz			nt to function indepe) and 35.200.	endently as an	
				OR				
	Training and Expe	e <u>rience</u>						
	I attest that	Nama of Desca	ed Authorized User	has satisfac	torily cor	npleted the 700 hour	rs of training	ſ
	CFR 35.290(c	e, including a n)(1), and has a	ninimum of 80 h	of competency s	ufficient	boratory training, rec to function independ) and 35.200.		
	d Section ete the following t	for preceptor a	ittestation and	signature:	5 7 5 `	,,,.,.,.,.,.,,.,,.,,,,,,,,,,,,,,,,,		•••
	Himeet the req	ulrements below	w, or equivalent	Agreement Stal	te require	ments, as an author	rized user for:	
	35.190	35.290	35.390	-		or experience		
ame of	f Preceptor		Signatyre //			Telephone Number	Date	
Cra	15 V. VI Permit Number/Facil	our win	<u> </u>	n nj	2	616 363 727		-

	AND PRECEP (for uses def	RAINING AND EXPERIEN TOR ATTESTATION fined under 35.300) 5.392, 35.394, and 35.396]	ICE	APPROVED BY OMB: NO. 3150-0120 EXPIRES: 10/31/2008
_	sed Authorized User R. Hoenicke M		tory Where Licens	
	thorization(s) (check all that		J /	
35.300	Use of unsealed byprodu	uct material for which a written di	irective is require	ed
OR				
35.300	Oral administration of so 1.22 gigabecquerels (33	odium iodide I-131 requiring a wri millicuries)	itten directive in	quantities less than or equal to
5.300	Oral administration of so- gigabecquerels (33 millio	odium iodide l-131 requiring a wri curies)	tten directive in e	quantities greater than 1.22
35.300		n of any beta-emitter, or photon- a written directive is required	emitting radionuc	clide with a photon energy less
35.300	Parenteral administration	n of any other radionuclide for wh	nich a written dire	ective is required
		PART I TRAINING AND EXPE		
		Select one of the three method	-	. I. Start and the defe
of applicat experience	ion or the individual must h	have related continuing education dates, duration, and description	n and experience	n the 7 years preceding the date e since the required training and ucation and experience related
1. <u>Board</u>	Certification			
a. Provid	e a copy of the board certif	fication.		
h Ear 25	.390, provide documentation d to document this experie	on on supervised clinical case ex ence.	operience. The t	able in section 3.c. may
	1			
be use c. For 35 and su	.396, provide documentatio	on on classroom and laboratory erience. The tables in sections 3		
be use c. For 35 and su docum	.396, provide documentation pervised clinical case expe	erience. The tables in sections 3		
be use c. For 35 and su docum d. Skip to	.396, provide documentation pervised clinical case experience. ent this experience. and complete Part II Prec	erience. The tables in sections 3	3.a., 3.b., and 3.c	c. may be used to
be use c. For 35 and su docum d. Skip to	.396, provide documentation pervised clinical case experience. ent this experience. and complete Part II Prec	erience. The tables in sections 3 ceptor Attestation. 10 Authorized User Seeking Ad	3.a., 3.b., and 3.c	c. may be used to
be use c. For 35 and su docum d. Skip to 2. <u>Curren</u> a. Authorit	.396, provide documentation pervised clinical case experience. and complete Part II Prect t 35.300, 35.400, or 35.600 zed User on Materials Lice	erience. The tables in sections 3 ceptor Attestation. 10 Authorized User Seeking Ad	3.a., 3.b., and 3.c Iditional Author	: may be used to ization
be use c. For 35 and su docum d. Skip to 2. <u>Curren</u> a. Authori equiva	.396, provide documentation pervised clinical case experience. and complete Part II Prect t 35.300, 35.400, or 35.600 zed User on Materials Lice	erience. The tables in sections 3 ceptor Attestation. 10 Authorized User Seeking Ad	3.a., 3.b., and 3.c Iditional Author	:. may be used to <u>ization</u> er the requirements below or
be use c. For 35 and su docum d. Skip to 2. <u>Curren</u> a. Authori: equiva 35. b. If curre	.396, provide documentation pervised clinical case experience. and complete Part II Prect t 35.300, 35.400, or 35.600 zed User on Materials Lice lent Agreement State requir 390 35.392 antly authorized for a subset	erience. The tables in sections 3 ceptor Attestation. <u>10 Authorized User Seeking Ad</u> ense irements (check all that apply): 35.394 35.490 et of clinical uses under 35.300,	3.a., 3.b., and 3.c Iditional Author unde U 35.69	2. may be used to ization er the requirements below or 0 ntation on additional
be use c. For 35 and su docum d. Skip to 2. <u>Curren</u> a. Authori: equiva 35. <u>b. If curre</u> require	.396, provide documentation pervised clinical case experience. and complete Part II Prect t 35.300, 35.400, or 35.600 zed User on Materials Lice lent Agreement State requinant 390 35.392 antly authorized for a subsect d supervised case experie	erience. The tables in sections 3 ceptor Attestation. 10 Authorized User Seeking Ad ense irrements (check all that apply): 135.394 35.490	3.a., 3.b., and 3.c Iditional Author unde 35.69 provide documentation of the second secon	2. may be used to ization er the requirements below or 0 ntation on additional
be use c. For 35 and su docum d. Skip to 2. <u>Curren</u> a. Authori: equiva 35. b. If curre require experie c. If curre docum case ex	.396, provide documentation pervised clinical case experience. and complete Part II Prece t 35.300, 35.400, or 35.600 zed User on Materials Lice lent Agreement State requinance 390 35.392 antly authorized for a subsect of supervised case experience. Also provide compleantly authorized under 35.440 entation on classroom and	erience. The tables in sections 3 ceptor Attestation. <u>O Authorized User Seeking Ad</u> ense irements (check all that apply): 35.394 35.490 et of clinical uses under 35.300, 1 ence. The table in section 3.c. m eted Part II Preceptor Attestation. 90 or 35.690 and requesting aut Haboratory training, supervised v ections 3.a., 3.b., and 3.c. may b	A., 3.b., and 3.c Iditional Author under 35.69 provide document iay be used to document work experience	2. may be used to ization er the requirements below or 0 ntation on additional ocument this .396, provide , and supervised clinical

	3. <u>Training and Experience for</u> a. Classroom and Laboratory Tra		<u>Authorize</u> 35,390	<u>d User</u> 35.392	35.3	94	35.396
	Description of Training			on of Training		Clock Hours	Dates of Training*
	Radiation physics and instrumentation						
	Radiation protection						
	Mathematics pertaining to the use and measurement of radioactivity						
	Chemistry of byproduct material for medical use						
	Radiation biology	·····	· · · · · · · · · · · · · · · · · · ·				
		Total Hou	s of Train	ling:			·
	b. Supervised Work Experience If more than one supervising in of this page.		35.390 necessary			نالسنك	35.396 nultiple copies
	Supervised Work Experience			Total H Experie	ours of ence:		
	Description of Experience Must Include:	Loc		perience/License	or	Confirm	Dates of Experience*
	Ordering, receiving, and unpacking radioactive materials safely and performing the related radiation surveys					Yes	
	Performing quality control procedures on instruments used to determine the activity of dosages and performing checks for proper operation of survey meters					Yes	
	Calculating, measuring, and safely preparing patient or human research subject dosages			· · · · · · · · · · · · · · · · · · ·		Yes	
	Using administrative controls to prevent a medical event					Yes	
	involving the use of unsealed byproduct material					No No	
	Using procedures to contain		·			Yes	

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Iraming and	Experience for Proposed Author	orized User (continued)
b. Supervise	d Work Experience (continued)	
Supervising Ir	dividual	License/Permit Number listing supervising individual as an authorized user
Supervising apply)**:	ndividual meets the requirements l	below, or equivalent Agreement State requirements (check all that
35.390	With experience administering de	osages of:
35.392 35.394	Oral Nal-131 requiring a writt gigabecquerels (33 millicurie:	en directive in quantities less than or equal to 1.22 s)
	Oral Nal-131 in quantities gre	eater than 1.22 gigabecquerels (33 millicuries)
35.396		peta-emitter, or photon-emitting radionuclide with a photon quiring a written directive is required
		any other radionuclide requiring a written directive

Supervised Clinical Case Experience If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this page.

Description of Experience	Number of Cases Involving Personal Participation	Location of Experience/License or Permit Number of Facility	Dates of Experience*
Oral administration of sodium iodide I-131 requiring a written directive in quantities less than or equal to 1.22 gigabecquerels (33 millicuries)	4	Spectrum Health, Grand Ryads, MI	
Oral administration of sodium iodide I-131 requiring a written directive in quantíties greater than 1.22 gigabecquerels (33 millicuries)	5	Spectrum Health, Grand Ryids, MI	
Parenteral administration of any beta-emitter, or photon-emitting radionuclide with a photon energy less than 150 keV for which a written directive is required		`	
Parenteral adminstration of any other radionuclide for which a written directive is required			
(List radionuclides)			

PAGE 3

supervising individual meets the requirements below.	License/Permit Number listing supervising individual as an authorized user
	authorized user
Supervising individual meets the requirements below, apply)**:	•
	, or equivalent Agreement State requirements (check all that
35.390 With experience administering dosage	s of:
35.394 gigabecquerels (33 millicuries)	rective in quantities less than or equal to 1.22
1 35 396	than 1.22 gigabecquerels (33 millicuries)
energy less than 150 keV requiring	emitter, or photon-emitting radionuclide with a photon a written directive is required
Parenteral administration of any other	her radionuclide requiring a written directive
 Supervising Authorized User must have experience in administ requesting authorized user status. 	tering dosages in the same dosage category or categories as the individual
I. Provide completed Part II Preceptor Attestation.	
PART II-PREGE	PTOR ATTESTATION
individual as long as the preceptor provides, direct	eceptor. The preceptor does not have to be the supervising ts, or verifies training and experience required. If more than ce, obtain a separate preceptor statement from each.
Section cone of the following for each requested authoriz	zation:
or 35.390:	
Board Certification	
I attest that	has satisfactorily completed the training and experience
requirements in 35.390(a)(1).	
	,
	0.D
	OR
Training and Experience	OR
	has satisfactorily completed the 700 hours of training
Training and Experience	

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RC-FORM 313A (AUT)	U.S. NUCLEAR REGULATORY COMMISSION
	D USER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)
receptor Attestation	(continued)
First Section (con	tinued)
For 35.392 (Identi	cal Attestation Statement Regardless of Training and Experience Pathway):
I attest that	<u>Rygn R. Hoenicke M.D.</u> has satisfactorily completed the 80 hours of classroom Name of Proposed Authorized User
	ry training, as required by 10 CFR 35.392(c)(1), and the supervised work and clinical case equired in 35.392(c)(2).
For 35.394 (Identi	cal Attestation Statement Regardless of Training and Experience Pathway):
I attest that	Ryan R. Hornicke MS has satisfactorily completed the 80 hours of classroom
	ry training, as required by 10 CFR 35.394 (c)(1), and the supervised work and clinical case equired in 35.394(c)(2).
Second Section	
I attest that	Pyan P. Hoenicke M.D. has satisfactorily completed the required clinical case Name of Proposed Authorized User
experience r	equired in 35.390(b)(1)(ii)G listed below:
	131 requiring a written directive in quantities less than or equal to 1.22 uerels (33 millicuries)
Oral Nal-	131 in quantities greater than 1.22 gigabecquerels (33 millicuries)
	al administration of beta-emitter, or photon-emitting radionuclide with a photon ss than 150 keV requiring a written directive is required
Parentera	I administration of any other radionuclide requiring a written directive
Third Section	
I attest that	Rygn R. Hornicke M. D. has satisfactorily achieved a level of competency to
function inde	pendently as an authorized user for:
	131 requiring a written directive in quantities less than or equal to 1.22
	uerels (33 millicurles)
U Oral Nal-	131 in quantities greater than 1.22 gigabecquerels (33 millicuries)
	I administration of beta-emitter, or photon-emitting radionuclide with a photon ss than 150 keV requiring a written directive is required

2007)	U.S. NUCLEAR REGULATORY COMMISSION
•	ING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)
ourth Section	
For 35.396:	
Current 35.490 or 35.690 auth	orized_user:
I attest that	is an authorized user under 10 CFR 35.490 or 35.690
laboratory training, as requir	ate requirements, has satisfactorily completed the 80 hours of classroom and ed by 10 CFR 35.396 (d)(1), and the supervised work and clinical case 96(d)(2), and has achieved a level of competency sufficient to function zed user for:
Parenteral administration than 150 keV for which a	of any beta-emitter, or photon-emitting radionuclide with a photon energy less written directive is required
Parenteral adminstration	of any other radionuclide for which a written directive is required
Board Certification:	OR
I attest that	has satisfactorily completed the board certification
required by 10 CFR 35.396 (as satisfactorily completed the 80 hours of classroom and laboratory training d)(1) and the supervised work and clinical case experience required by red a level of competency sufficient to function independently as an
Parenteral administration than 150 keV for which a	of any beta-emitter, or photon-emitting radionuclide with a photon energy less written directive is required
Parenteral adminstration	of any other radionuclide for which a written directive is required
th Section mplete the following for preceptor	r attestation and signature:
I meet the requirements below, o	or equivalent Agreement State requirements, as an authorized user for:
35.390 35.392	35.394 35.396
I have experience administering requesting authorization.	dosages in the following categories for which the proposed Authorized User is
Oral Nal-131 requiring a writt millicuries)	en directive in quantities less than or equal to 1.22 gigabecquerels (33
Mar Mal-131 in quantities gre	eater than 1.22 gigabecquerels (33 millicuries)
	peta-emitter, or photon-emitting radionuclide with a photon energy less than
	any other radionuclide requiring a written directive
ne of Preceptor	Signature Signature Signature (616) 363-7272 (616) 363-7272
	(1 + 1)

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American Board of Radiology - Program Director Attestation

COMPLIANCE WITH NRC TRAINING AND EXPERIENCE REQUIREMENTS

More information can be found at the following link: http://www.nrc.gov/reading-rm /doc-collections/cfr/part035/part035-0290.html

Ryan	R.	Hoeniche MD.
Resident N	ame	···•

<u>GRMERC/MSU</u> 23-10-18-2 Program #

	YES	NO
By the time of the ABR oral examination, this applicant will have successfully completed the hours of training and experience as outlined in 10 CFR 35.290 and 35.392	I	
This applicant has taken part in \geq 3 cases of oral administration of I-131 therapy (\leq 33mCi)	V	
The resident's logbook of these therapy experiences (date, dose, and preceptor) is attached	Ń	
The work and experience cited above for § 35.290 was obtained under the supervision of an Authorized User (AU) who meets the requirements under relevant sections of § 35.290 or equivalent Agreement State requirements	V	
The work and experience cited above for § 35.392 was obtained under the supervision of an Authorized User (AU) who meets the requirements under § 35.390, 35.392 or 35.394 or equivalent Agreement State requirements.	U	

Charles R Lettenten Residency Program Director

(Print Name)

Program Director (Signature)

2 Latent MD 1 Mor 07 Date

I-131 Therapy Experience

Ryan R. Heenicke M.D.

Resident Name

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<u>GRMERC/MSU</u> 23-10-18-2 Program & Number

Date **Dose Administered** Preceptor (AU) Print & Sign Name 1. 2/4/04 25.70 mC; Craig Moore M.A. Print Name R. M.D. Sign Name 2. 2/24/04 11.89 m Gi Morre M.D. Print Name Sign Name 3. 3/2/06 20.50 mC: Craig Moore, M.A. Print Name Sign Name 4. 3/23/06 22.10mCi Moore M.D MR, MD Print Name

