

## MATERIALS LICENSE

Amendment No. 01

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 1, 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.

301740

## Licensee

In accordance with letter dated  
July 29, 19963. License Number 13-26510-01 is amended in  
its entirety to read as follows:

4. Expiration Date October 31, 2003

5. Docket or  
Reference No. 030-33227

1. River Cities Cardiology

2. Medical Arts Building  
207 Sparks Avenue, Suite 104  
Jeffersonville, IN 47130-37006. Byproduct, Source, and/or  
Special Nuclear Material7. Chemical and/or Physical  
Form8. Maximum Amount that Licensee  
May Possess at Any One Time  
Under This LicenseA. Any byproduct  
material  
identified in  
10 CFR 35.200A. Any  
radiopharmaceutical  
identified in 10 CFR  
35.200 (excluding  
generators) limited  
to cardiovascular  
clinical procedures

A. As needed

9. Authorized Use:

A. Medical use described in 10 CFR 35.200 (excluding generators) limited to  
cardiovascular clinical procedures.CONDITIONS10. Licensed material shall be used only at the licensee's facilities located at  
207 Sparks Avenue, Suite 104, Jeffersonville, Indiana.

11. Radiation Safety Officer: Dolph Martel Denny, M.D.

12. Licensed material listed in Item 6 above is only authorized for use by, or under the  
supervision of, the following individuals for the materials and uses indicated:Authorized Users

Dolph Martel Denny, M.D.

Material and Use10 CFR 35.200 (excluding generators) limited to  
cardiovascular clinical procedures9612030121 961120  
PDR ADOCK 03033227  
C PDR

COPY

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

13-26510-01

Docket or Reference Number

030-33227

Amendment No. 01

Authorized Users

Material and Use

Mohammed Hussain, M.D.

10 CFR 35.200 (excluding generators) limited to  
cardiovascular clinical procedures

Thomas Matthew Sweat, M.D.

10 CFR 35.200 (excluding generators) limited to  
cardiovascular clinical procedures

13. The licensee shall maintain records of information related to decommissioning at the location listed in Item 2. of this license as specified in 10 CFR 30.35(g) until this license is terminated by the Commission.
14. The licensee may not possess and use materials authorized in Items 6, 7, and 8 until:
  - A. The licensee has constructed the facilities and obtained the equipment described in the application and supporting documentation; and
  - B. The U. S. Nuclear Regulatory Commission, Region III, ATTN: Chief, Materials Licensing Branch, 801 Warrenville Road, Lisle, IL 60532-4351 has been notified that activities authorized by the license will be initiated.
15. Within 30 days of the date of a decision not to complete the facility, acquire equipment, or possess and use authorized material, the licensee must notify the Commission in writing, of the decision.
16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below, except for minor changes in the medical use radiation safety procedures as provided in 10 CFR 35.31. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
  - A. Application dated June 23, 1993; and
  - B. Letters dated July 29, 1996 and November 18, 1996.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date November 20, 1996

By

Nick W. Waffner  
Nuclear Materials Licensing Branch, Region III

COPY

(FOR LFMS USE)  
INFORMATION FROM LTS

R7

BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

Program Code: 02201  
Status Code: 0  
Fee Category: 7C  
Exp. Date: 20031031  
Fee Comments:  
Decom Fin Assur Req'd: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: RIVER CITIES CARDIOLOGY  
Received Date: 960819  
Docket No: 3033227  
Control No.: 301740  
License No.: 13-26510-01  
Action Type: Amendment

2. FEE ATTACHED

Amount: 440  
Check No.: 0925

3. COMMENTS

Signed  
Date

D. Haney  
8-23-96

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /-/-)

1. Fee Category and Amount:

7C

\$440

2. Correct Fee Paid. Application may be processed for:

Amendment ☒  
Renewal ☐  
License ☐

3. OTHER

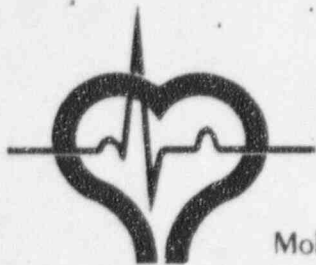
Signed  
Date

R 8/27/96

Log	<u>Aug 11 III</u>
Remitter	
Check No.	<u>925</u>
Amount	<u>\$440</u>
Fee Category	<u>7C</u>
Type of Fee	<u>AMD</u>
Date Check Rec'd	<u>8/26/96</u>
Date Completed	<u>8/27/96</u>
By:	<u>R</u>

SEP 03 1996

1996 AUG 26 AM 11:19



# RIVER CITIES CARDIOLOGY, M.P.C.

207 Sparks Avenue, Suite 104, Medical Arts Building, Jeffersonville, IN 47130

Telephone: (812) 282-1617 Fax: (812) 288-7625

MOHAMMED HUSSAIN, M.D.  
GURDARSHAN THIND, M.D.

M. SALEEM SEYAL, M.D., FACC  
FACP, FCCP, FRCPC

D. MARTY DENNY, M.D., FACC  
William M. Bailey, M.D.

JULY 29, 1996

TO WHOM IT MAY CONCERN:

PLEASE LET THIS LETTER SERVE AS A REQUEST FOR DR. THOMAS MATTHEW SWEAT TO BE ADDED TO OUR NRC LICENSE AS AN AUTHORIZED USER. ALSO, AT THIS TIME WE WOULD LIKE TO REQUEST A NAME CHANGE FROM " DR MOHAMMED HUSSAIN " TO " RIVER CITIES CARDIOLOGY." ALL OF THE APPROPRIATE PAPERWORK IS ATTACHED. IF YOU HAVE ANY QUESTIONS OR PROBLEMS, FEEL FREE TO CONTACT DENISE BROMM AT (812) 282-5975.

NRC LICENSE #: 13-26510-01  
EXPIRATION DATE: OCTOBER 31, 2003  
DOCKET #: 030-33227

THANK YOU,

DENISE BROMM

AUG 19 1996

RECEIVED  
AUG 19 1996  
REGION III

Pm: 8-12-96

301740



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## Department of Medicine

Division of Cardiology

Division of Radionuclide Studies

This is to certify that T. Matthew Sweat, M.D. has satisfactorily completed the training and experience criteria for diagnostic studies limited to Nuclear Cardiology, above the minimum as set by the Nuclear Regulatory Commission standards. This training, from **July 1, 1993 – June 30, 1996**, involved at least 250 hours in basic radioisotope handling techniques, 500 hours of experience with the use of byproduct material, and 500 hours of supervised clinical training in the Nuclear Cardiology Program.

Ibrahim B. Syed

Ibrahim B. Syed, Sc.D., Ph.D.  
Clinical Professor of Medicine  
(Medical Physics and Nuclear Sciences)  
Director, Nuclear Medicine Sciences

Stephen Wagner

Stephen Wagner, M.D.  
Program Director and  
Assistant Professor of Medicine  
Acting Director, Nuclear Cardiology

Roberto Bolli

Roberto Bolli, M.D.  
Professor and Chief  
Cardiovascular Division

Richard Redinger

Richard Redinger, M.D.  
Professor and Chairman  
Department of Medicine

UNIVERSITY  
of LOUISVILLE

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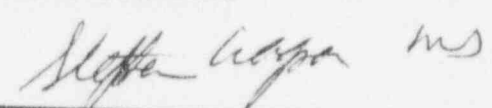
EXHIBIT 2  
SUPPLEMENT A

SUPPLEMENT		U.S. NUCLEAR REGULATORY COMMISSION		
TRAINING AND EXPERIENCE AUTHORIZED USER OR RADIATION SAFETY OFFICER				
1. NAME OF PROPOSED AUTHORIZED USER OR RADIATION SAFETY OFFICER <b>THOMAS MATTHEW SWEAT</b>		2. FOR PHYSICIANS, STATE OR TERRITORY WHERE LICENSED <b>Indiana (pending) Ky</b>		
3. CERTIFICATION				
SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C		
<b>CARDIOLOGY</b> <b>(BOARD ELIGIBLE)</b>	<b>NUCLEAR</b>	<b>ELIGIBLE</b> <b>7/96.</b> <b>EXAM 9/97</b>		
4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES				
FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING		
		CLOCK HOURS IN LECTURE OR LABORATORY	CLOCK HOURS OF SUPERVISED ON-THE-JOB EXPERIENCE	
a. RADIATION PHYSICS AND INSTRUMENTATION	Univ of Louisville Affil hospitals Sept 1 1994 - Jun 30 1995	120	250	
b. RADIATION PROTECTION	11	40	90	
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	11	20	60	
d. RADIATION BIOLOGY	11	30	10	
e. RADIOPHARMACEUTICAL CHEMISTRY	11	40	90	
5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)				
ISOTOPE	NOT USED AT ONE TIME	LOCATION	CLOCK HOURS	TYPE OF USE
Thallium 201		Univ of Louisville Affiliated hospitals.	500	Clinical/Studies  Calibration
Technetium 99m				
Cobalt 60				
Cesium 137				

**EXHIBIT 3  
SUPPLEMENT B**

SUPPLEMENT		U. S. NUCLEAR REGULATORY COMMISSION	
<b>PRECEPTOR STATEMENT</b>			
<i>Supplement B must be completed by the applicant physician's preceptor. If more than one preceptor is necessary to document experience, obtain a separate statement from each.</i>			
<b>1. PROPOSED PHYSICIAN USER'S NAME AND ADDRESS</b> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>FULL NAME</b>  <i>Thomas Matthew Sweet</i> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>STREET ADDRESS</b>  <i>207 Sparks Ave Jeffersonville</i> </div> <div style="display: flex; justify-content: space-between; border: 1px solid black; padding: 2px;"> <div style="width: 30%;"> <b>CITY</b>  <i>Indiana</i> </div> <div style="width: 30%;"> <b>STATE</b> </div> <div style="width: 30%;"> <b>ZIP CODE</b>  <i>47130</i> </div> </div>		<b>KEY TO COLUMN C</b> <b>PERSONAL PARTICIPATION SHOULD CONSIST OF:</b> 1-Supervised examination of patients to determine the suitability for rad isotope diagnosis and/or treatment and recommendation for prescribed dosage. 2-Collaboration in dose calibration and actual administration of dose to the patient including calculation of the radiation dose, related measurements and plotting of data. 3-Adequate period of training to enable physician to manage radioactive patients and follow patients through diagnosis and/or course of treatment.	
<b>2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN</b>			
ISOTOPE <small>A</small>	CONDITIONS DIAGNOSED OR TREATED <small>B</small>	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION <small>C</small>	COMMENTS <small>(Additional information or comments may be submitted in duplicate or separate sheets.) <small>D</small></small>
	Thyroid scan		<div style="font-size: 2em; font-family: cursive;">955 hours</div>
	Thyroid uptake		
	Lung perfusion scan		
	Xenon ventilation study		
	Aerosol ventilation scan		
	Renal flow scan		
	Brain scan		
	Liver/spleen scan		
	Bone scan		
	Gastroesophageal study		
	LeVeen shunt study		
	Cystogram		
	Dacryocystogram		
	Cardiac perfusion scan	440	
Cardiac stress ventriculogram	10		
Cardiac rest ventriculogram	65		
Gallium scan			

## EXHIBIT 3 (Continued)

PROPOSED PHYSICIAN USER THOMAS MATTHEW SWEAT			
PRECEPTOR STATEMENT (Continued)			
2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN (Continued)			
ISOTOPE A	CONDITIONS DIAGNOSED OR TREATED B	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION C	COMMENTS (Additional information or comments may be submitted in duplicate on separate sheet.) D
P-32 (Sodium)	TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA, AND BONE METASTASES		
P-32 (Calcium)	INTRACAVITARY TREATMENT		
I-131	TREATMENT OF THYROID CARCINOMA		
	TREATMENT OF HYPERTHYROIDISM		
Au-198	INTRACAVITARY TREATMENT		
Co-60 or Cs-137	INTERSTITIAL TREATMENT		
	INTRACAVITARY TREATMENT		
I-125 or Ir-192	INTERSTITIAL TREATMENT		
Co-60 or Cs-137	TELETHERAPY TREATMENT		
Sr-90	TREATMENT OF EYE DISEASE		
	RADIOPHARMACEUTICAL PREPARATION		
Mo-99/ Tc-99m	GENERATOR		
Sn-113/ In-113m	GENERATOR		
Tc-99m	REAGENT KITS		
Other			
3. DATES AND TOTAL NUMBER OF HOURS RECEIVED IN CLINICAL RADIOISOTOPE TRAINING			
LOCATION		DATES	CLOCK HOURS OF EXPERIENCE
Univ. of Louisville		July 1993 -	Lecture/Lab - 250 hrs
Affiliated hospitals		June 1996	on the job - >500 hrs
4. THE TRAINING AND EXPERIENCE INDICATED ABOVE WAS OBTAINED UNDER THE SUPERVISION OF:			
a. NAME OF SUPERVISOR		b. PRECEPTOR'S SIGNATURE	
ABRAHAM SIED / STEPHEN WAGNER			
c. NAME OF INSTITUTION		7. PRECEPTOR'S NAME (Please type or print)	
VA MEDICAL CENTER		Stephen Wagner M.D.	
d. MAILING ADDRESS		e. DATE	
800 Zorn Avenue		8 Aug 1996	
f. CITY			
Louisville Ky 40206			
g. MATERIALS LICENSE NUMBER(S)			
16-03121-02			





**ARTICLES OF AMENDMENT OF THE  
ARTICLES OF INCORPORATION**

State Form 38333 (R5 / 9-91)

State Board of Accounts Approved 1988

**APPROVED  
AND  
FILED**

Provided by: JOSEPH H. HOGSETT  
SECRETARY OF STATE OF INDIANA  
CORPORATIONS DIVISION  
302 W. WASHINGTON ST RM E018  
INDIANAPOLIS IN 46204  
TELEPHONE : (317) 232-6576

Indiana Code 23-1-38-1 et seq.  
FILING FEE \$30.00

INSTRUCTIONS: Use 8 1/2 X 11 inch white paper for inserts. Filing requirements - Present original and one copy to  
address in upper right corner of this form.

IND. SECRETARY OF STATE

**ARTICLES OF AMENDMENT OF THE  
ARTICLES OF INCORPORATION OF:**

The undersigned officers of

DPS. M. HUSSAIN & M. SALEEM SEVAL, M.P.C.

(hereinafter referred to as the "Corporation") existing pursuant to the provisions of:

(Indicate appropriate act)

☐ Indiana Business Corporation Law

☐ Indiana Professional Corporation Act of 1983

as amended (hereinafter referred to as the "Act"), desiring to give notice of corporate action effectuating amendment of certain provisions of its  
Articles of Incorporation, certify the following facts:

**ARTICLE I Amendment(s)**

SECTION 1 The date of incorporation of the corporation is:

February 11, 1977

SECTION 2 The name of the corporation following this amendment to the Articles of Incorporation is:

RIVER CITIES CARDIOLOGY MPC

**SECTION 3**

The exact text of Article(s)  
now as follows:

of the Articles of Incorporation is

Article I

Section 1.01. The name of the Corporation is River Cities  
Cardiology MPC.

Here are copies of  
the name change  
papers. There was no  
change of ownership.  
Only name change.

SECTION 4 Date of each amendment's adoption:

STATE OF INDIANA  
OFFICE OF THE SECRETARY OF STATE

ARTICLES OF AMENDMENT

To Whom These Presents Come, Greeting:

WHEREAS, there has been presented to me at this office, Articles of Amendment for:

DRS. M. HUSSAIN & M. SALEEM SEYAL, MED. PRO. CORP.

and said Articles of Amendment have been prepared and signed in accordance with the provisions of the Indiana Business Corporation Law, as amended.

The name of the corporation is amended as follows:

RIVER CITIES CARDIOLOGY MPC.

NOW, THEREFORE, I, SUE ANNE GILROY, Secretary of State of Indiana, hereby certify that I have this day filed said articles in this office.

The effective date of these Articles of Amendment is April 10, 1996.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the State of Indiana, at the City of Indianapolis, this Tenth day of April, 1996.



*Sue Anne Gilroy*  
SUE ANNE GILROY, Secretary of State

*gs*  
April 10, 1996

NOV 21 1996

Mohammed Hussain, M.D.  
River Cities Cardiology  
Medical Arts Building  
207 Sparks Avenue, Suite 104  
Jeffersonville, IN 47130-3700

Dear Dr. Hussain:

Enclosed is Amendment No. 01 to your NRC Material License No. 13-26510-01 in accordance with your request.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Unless your license has been terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Notify NRC, in writing, within 30 days:
  - a. When an authorized user or Radiation Safety Officer permanently discontinues performance of duties under the license or has a name change; or
  - b. When the licensee's mailing address changes (no fee is required if the location of byproduct material remains the same).
3. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license when you decide to terminate all activities involving materials authorized under the license.

301740

4. Request and obtain a license amendment before you:
  - a. Receive or use byproduct material for a clinical procedure permitted under Part 35 but not permitted by your license issued pursuant to this Part;
  - b. Permit anyone, except individuals described in 10 CFR 35.13(b), to work as an authorized user under the license;
  - c. Change Radiation Safety Officers;
  - d. Order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license;
  - e. Add or change the areas of use or address or addresses of use identified in the license application or on the license; or
  - f. Change ownership of your organization.
5. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the General Policy and Procedures for NRC Enforcement Actions. Since serious consequences to employees and the public can result from failure to comply with NRC requirements,

M. Hussain

-3-

prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Sincerely,

Original Signed By  
Gidget Watson  
Nuclear Materials Licensing Branch

License No.: 13-26510-01

Docket No.: 030-33227

Enclosure: Amendment No. 01

DOCUMENT NAME: M:\03033227.CL6

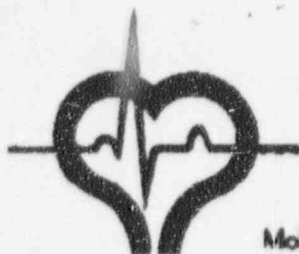
To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	DNMS/RIII									
NAME	GWATSON:jaw									
DATE	10/2/96 JW									

//

OFFICIAL RECORD COPY





# RIVER CITIES CARDIOLOGY, M.P.C.

207 Sports Avenue, Suite 104, Medical Arts Building, Jeffersonville, IN 47130

Telephone: (812) 282-1617 Fax: (812) 286-7625

Mohammed Hussain, M.D.  
Gurdassian Thind, M.D.

M. Saleem Seyal, M.D., FACC  
FACP, FCCP, FROPC

D. Marry Denny, M.D., FACC  
William M. Bailey, M.D.

November 18, 1996

TO WHOM IT MAY CONCERN:

Please let this letter serve as a request for Denise Brown CNMT,  
to act in behalf of the entity (Dr. Mohammed Hussain) in regards  
to the request of amending our NRC License.

CONTROL #301740

NRC LICENSE # 13-26510-01

EXPIRATION DATE: OCTOBER 31, 2003

DOCKET # 030-33227

Thank you.

Mohammed Hussain, M.D.

MH/db