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Hematech, Inc.  
4401 S. Technology Drive  
Sioux Falls, SD 57106

(605) 361-6793 phone  
(605) 361-9702 fax  
www.hematech.com web

United States Nuclear Regulatory Commission Region IV  
ATTN: Carol Hill, Licensing Assistant  
Division of Nuclear Material Safety  
612 East Lamar Boulevard, Suite 400  
Arlington, TX 76011-4125

RECEIVED

OCT 3 2011

DNMS

September 26<sup>th</sup> 2011

Re: Termination of NRC License Number 40-27743-01

Dear Sirs:

We wish to permanently terminate our NRC License Number 40-27743-01, expiration date 31, January 2013. Enclosed please find NRC Form 314, Certificate of Disposition of Materials. I also include results of the Final Status Survey as enclosed. The survey document shows that the facilities at Hematech Inc meet the requirements for unrestricted release.

I appreciate your processing the termination request promptly as we have paid our annual NRC license fee that keep us current only up to September 30, 2011. Thank you for your assistance in termination of license.

Sincerely yours,

Hiroaki Matsushita  
Assistant Director of Molecular Genetics and Immunology,  
Hematech Inc.  
4401 South Technology Drive,  
Sioux Falls,  
SD 57106

### CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of 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.

LICENSEE NAME AND ADDRESS  
Hematech, Inc.  
4401 S. Technology Drive  
Sioux Falls, SD 57106

LICENSE NUMBER  
40-27743-01

DOCKET NUMBER  
03036160

LICENSE EXPIRATION DATE  
09/30/2011

#### A. LICENSE STATUS (Check the appropriate box)

- This license has expired.  This license has not yet expired; please terminate it.

#### B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
- 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:
  - a. Transfer of radioactive materials to the licensee listed below:
  - b. Disposal of radioactive materials:
    - 1. Directly by the licensee:
    - 2. By licensed disposal site:
    - 3. By waste contractor:
  - c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

#### C. SURVEYS PERFORMED AND REPORTED

- 1. A radiation survey was conducted by the licensee. The survey confirms:
  - a. the absence of licensed radioactive materials
  - b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
- 2. A copy of the radiation survey results:
  - a. is attached; or  b. is not attached (Provide explanation); or  c. was forwarded to NRC on: \_\_\_\_\_ Date
- 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
  - a. The results of the latest leak test are attached; and/or
  - b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME Zhongde Wang, Ph.D.	TITLE Radiation Safety Officer, Director	TELEPHONE (Include Area Code) (605) 275-1528	E-MAIL ADDRESS zwang@hematech.com
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Mail all future correspondence regarding this license to:  
Zhongde Wang, Ph.D. Hematech, Inc. 4401 S. Technology Drive Sioux Falls, SD 57106

#### C. CERTIFYING OFFICIAL I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE Hiroaki Matsushita, Assistant Director	SIGNATURE 	DATE 09/26/2011
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WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

## **Introduction**

This report is the Final Status Survey that is required for the termination of Nuclear Regulatory Commission (NRC) by material license number 40-27743-01. It is also intended to serve as a historical reference for Hematech Inc for information on facilities and the activities conducted under the NRC license.

## **Historical Information**

Nuclear Regulatory Commission material license 40-27743-01 was issued to Hematech, LLC. at 4401 South Technology Drive, Sioux Falls, SD 57106 on 3<sup>rd</sup> January, 2003 with the activity limits as followings:

- A. Phosphorus 32 20 millicuries
- B. Phosphorus 33 20 millicuries
- C. Sulfur 35 30 millicuries

and this was amended on April 1<sup>st</sup> 2004 as following new activity limits (Amendment 2).

- A. Phosphorus 32 20 millicuries
- B. Phosphorus 33 20 millicuries
- C. Sulfur 35 30 millicuries
- D. Hydrogen-3 100 millicuries

This license was inherited by Hematech Inc with the amendment on 27<sup>th</sup> July 2006 (Amendment 5).

The RI room was located at 4001 South Valhalla Blvd., Suite 103, Sioux Falls, SD 57106 when we started to use 32P until we moved to the new RI room at 3904 West Technology Circle, Suite 102, Sioux Falls, SD 57106 in July 2006 (Amendment 3) and Amendment 4 issued on February 1<sup>st</sup> 2006 removed the old RI room at 4001 South Valhalla Blvd., Suite 103, Sioux Falls, SD 57106. All RI works were conducted at these above 2 sites with only 32P and 3H. In total we obtained 91 batches of radio isotope from Amersham or MP Biomedicals, which include only 2 batches of 3H and the remaining 89 batches are 32P.

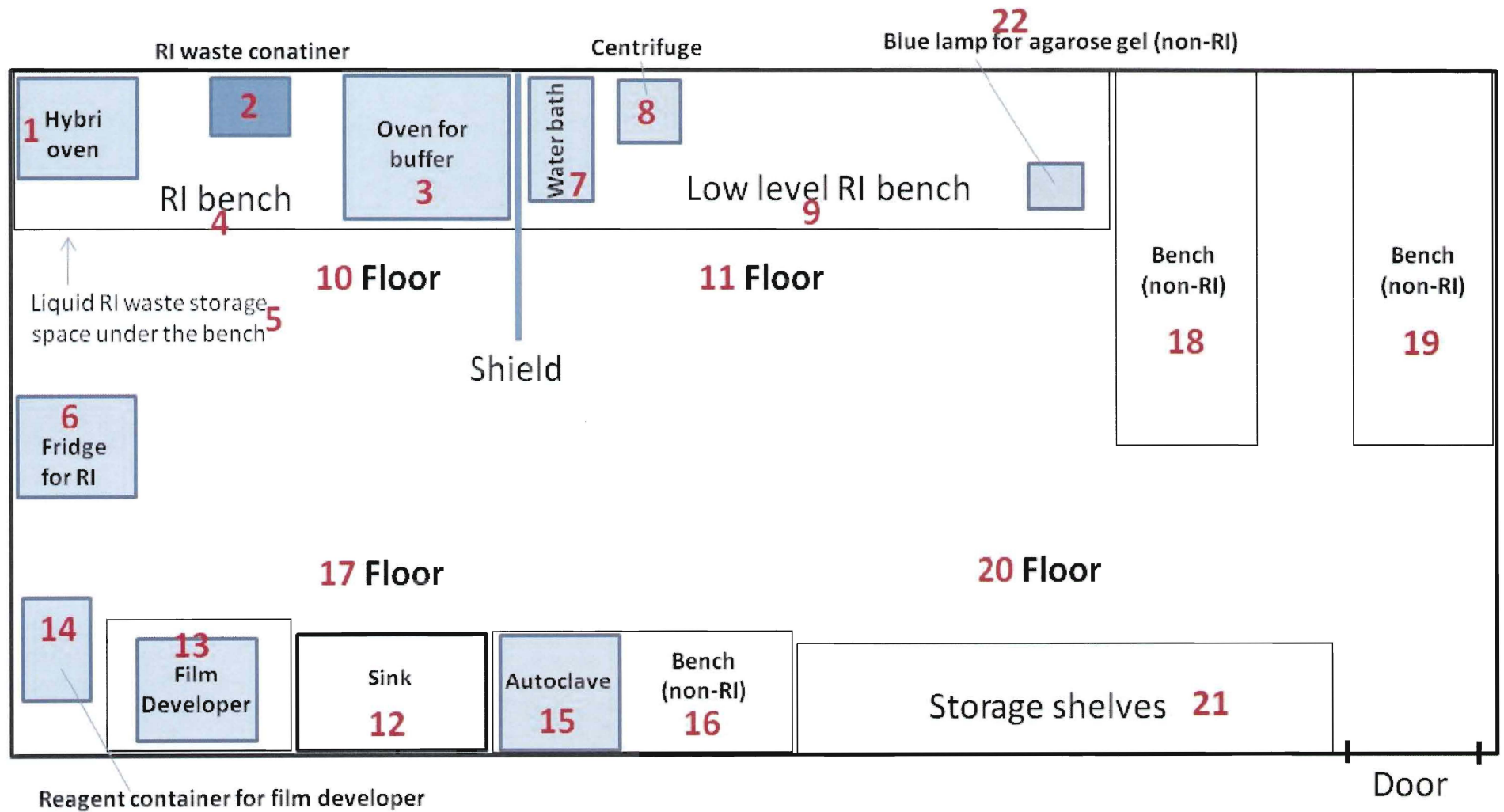
The last 32P acquired under the license was in February 2011, so the most of 32P activity has been removed by radioactive decay (more than 15 half lives passed). Concerning 3H, two batches of [Me3H]Thymidine total 2mCi were obtained and they were picked up for disposal on 4<sup>th</sup> Mar 2010. Since then Hematech facilities didn't have 3H. Also, Hematech facilities never possess 33P and 35S.

## **Surveys**

The previous location of the RI room at 4001 South Valhalla Blvd., Suite 103, Sioux Falls, SD 57106 were surveyed at the time the laboratory were moved.

At the current location of RI room at 3904 West Technology Circle, Suite 102, Sioux Falls, SD 57106, final survey with survey meter was conducted on 23<sup>rd</sup> September 2011 and wipe test with scintillation counter on 24<sup>th</sup> September 2011. There was no detectable residual contamination of radio isotope by both survey meter and the wipe test with scintillation counter as the attached reports.

No. 5 7 6 1 2 7



# RI-Room

at 3904 West Technology Circle, Suite 102, Sioux Falls, SD 57106

# Hematech Final Survey Record

Background CPM: 40

Location	Servay meter reading(cpm)
1	< 40
2	"
3	"
4	"
5	"
6	"
7	"
8	"
9	"
10	"
11	"
12	"
13	"
14	"
15	"
16	"
17	"
18	"
19	"
20	"
21	"
22	"

Radiation Safety Officer:

Signature: 

Date: \_\_\_\_\_  
23 Sept. 2011

1576127

# Hematech Final Survey Record

Location	Scintillation counter reading(net dpm on surface wipe, dpm/100cm <sup>2</sup> )
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0
21	0
22	0

Conducted by: Hiroaki MATSUSHITA

Signature: 

Date: 24<sup>th</sup> Sep 2011



Shipment Receipt

**Address Information**

<b>Ship to:</b> Carol Hill, Licensing Assistant US NRC Region IV 612 E LAMAR BLVD STE 400	<b>Ship from:</b> Hiroaki Matsushita  Hematech Inc. 4401 South Technogy Drive
--	--

ARLINGTON, TX 76011-4125 US 817-860-8140	Sioux Falls, SD 57106 US 6052751549
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**Shipping Information**

Tracking number: 797580018553  
Ship date: 09/30/2011  
Estimated shipping charges: 25.31

**Package Information**

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Package type: FedEx Envelope  
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Declared value: 0.00USD  
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Your reference: Sep 30 2011  
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From: (605) 275-1549  
Hiroaki Matsushita  
Hematech Inc.  
4401 South Technology Drive  
Sioux Falls, SD 57106

Origin ID: FSDA



J11201108050225

Ship Date: 30SEP11  
ActWgt: 0.5 LB  
CAD: 8233724/INET3180

Delivery Address Bar Code



SHIP TO: (817) 860-8140  
**Carol Hill, Licensing Assistant**  
**US NRC Region IV**  
**612 E LAMAR BLVD STE 400**

BILL SENDER

ARLINGTON, TX 76011

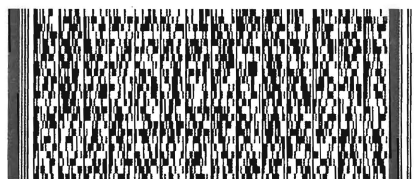
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Invoice #  
PO #  
Dept #

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No. 5 7 6 1 2 7

BETWEEN:  
Accounts Receivable/Payable  
and  
Regional Licensing Branches

[ FOR ARPB USE ]  
INFORMATION FROM LTS

Program Code: 03620  
Status Code: Pending Termination  
Fee Category: 3M  
Exp. Date:  
Fee Comments:  
Decom Fin Assur Reqd: N

## License Fee Worksheet - License Fee Transmittal

### A. REGION

#### 1. APPLICATION ATTACHED

Applicant/Licensee: HEMATECH, INC.  
Received Date: 10/03/2011  
Docket Number: 3036160  
Mail Control Number: 576127  
License Number: 40-27743-01  
Action Type: Termination

#### 2. FEE ATTACHED

Amount: \_\_\_\_\_

Check No.: \_\_\_\_\_

#### 3. COMMENTS

Signed: \_\_\_\_\_

*Carl L. Heise*

Date: \_\_\_\_\_

10/4/11

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

1. Fee Category and Amount: \_\_\_\_\_

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

Amendment: \_\_\_\_\_

Renewal: \_\_\_\_\_

License: \_\_\_\_\_

3. OTHER \_\_\_\_\_

\_\_\_\_\_

Signed: \_\_\_\_\_

Date: \_\_\_\_\_