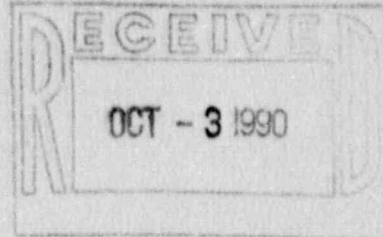


WA. BOADE M.D.,  
**LIMITED**

Diagnostic Medical Imaging



September 27, 1990

Mr. A. Bill Beach  
Director Division of Radiation Safety & Safeguards  
Nuclear Regulatory Commission, Region IV  
611 Ryan Plaza Drive, Suite 1000  
Arlington, TX 76011

Re: License #40-26908-01  
Docket #30-30273/90-01

Dear Mr. Beach:

This letter is in response to your letter dated September 14, 1990 regarding violations identified during NRC inspection of June 20, 1990.

Item #1. It has been the policy of our organization to perform constancy checks on all dose calibrators on a daily basis. Upon discussion with NRC inspector and after review of specifics of 10CFR35.80 (D) and 10CFR35.50 (B) (1) and their requirements, we are in the process of changing our in-house requirements to provide constancy checking at each address of use. It is felt that our mobile units will be in compliance with above mentioned 10CFR regs after receipt of dedicated sources. These have been ordered and are expected to be delivered in approximately 4-6 weeks.

Item #2. License condition 10.A authorizes use of licensed material at 310 Belle Ave., Mankato, MN. contrary to approved address material has been used at 304 Belle Ave, Mankato, MN. a location non-authorized by the license.

Enclosed please find information pertaining to a move from 310 to 304 Belle Ave., by the Laboratory of Clinical Medicine in approximately May of 1982 and documentation of correct address location of 304 Belle Ave. for Minnesota Department of Health Licensure of NARM products. I am fully confident that the Laboratory of Clinical Medicine performed required close-out surveys but cannot understand the obvious oversight in not requesting the address change. In reference to W.A. Boade M.D., Ltd. continuing to list the wrong address this is also a oversight that will be corrected immediately by amendment to you organization. W.A. Boade M.D., Ltd. has never utilized by-product materials at 310 Belle Ave., but has at 304 Belle Ave.

1100 South Euclid Avenue • Sioux Falls, South Dakota 57117 • (605) 335-1455

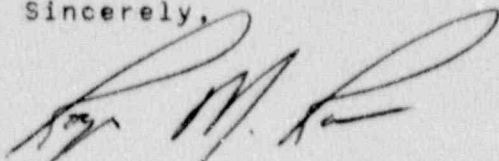
9010160091 900927  
REG4 LIC30  
40-26908-01 PDC

IC-90-286

1E07

Request of this address change will follow in separate letter within 5 working days. Should you have any questions concerning this letter or wish additional documentation, please feel free to contact me at your leisure.

Sincerely,

A handwritten signature in dark ink, appearing to read 'R. M. Rae', written in a cursive style.

Roger M. Rae  
Radiation Safety Officer  
W.A. Boade M.D., Ltd.

RMR/srh

## M I D W E S T R A D I A T I O N P H Y S I C I S T S

Vaughn C. Moore, Ph.D.  
3601 Evergreen Rd.  
Fargo, ND 58102

Home: 701-235-5194  
Office: 701-293-0655

(Certified by the American Board of Radiology)

May 5, 1982

Laboratory of Clinical Medicine  
310 Belle Avenue  
Mankato, MN 56001

Attention: Mobile Services

Subject: Close-out Survey of Old Nuclear Medicine Laboratory

Reference: "Guide for the Preparation of Applications for Medical Programs" NRC 1979

1. A radiation hazard survey of the old nuclear medicine laboratory showed less than 0.5 mR/hr in all areas.
2. Wipe tests of several surfaces of work areas and storage areas located in the old hot lab were counted in a Ludlum Model 2200 Well-Type Scintillation Counter. The resulting activity in each case was less than the minimum detectable activity for  $^{99m}\text{Tc}$ . The results are given in the following table:

Sample Number	Location of Wipe Test	Resulting Activity dpm/100 sq cm
1	East wall & door	29.0
2	South wall	29.0
3	West wall	29.0
4	North wall	29.0
5	Floor	29.0
6	Counter top	29.0
7	Generator storage	29.0
8	Sink	29.0

These results are acceptable since they represent insignificant removable radioactivity.

3. The old nuclear medicine laboratory does not present a radiation hazard to the general public and may be occupied without restriction.

Sincerely,

*Vaughn C. Moore, Ph.D.*

Vaughn C. Moore, Ph. D.

VCM

# NUCLEAR MEDICINE ASSOCIATES, Inc.

9726 PARK HEIGHTS  
CLEVELAND, OHIO 44125  
(216) 663-7000

## CONSULTANT'S REPORT

Hospital Laboratory of Clinical Med. City Sioux Falls, S.D. Date 7/22/82

Dr(s) W.A. Boade, M.D.; et al

Technician(s) Roger Rae, Supervisor Mobile; Kay Reinhartz, Supervisor RTA;  
Wayne Van Berkum, Supervisor Mankato; Larry Boyd

Spent the majority of the time at this instillation reviewing the response to the Nuclear Regulatory Commission with Roger Rae and Wayne Van Berkum. Intent of this visit was to completely review the Radiation Health Safety Program at the Laboratory of Clinical Medicine in the facilities so that I could get a better understanding of the operation. This account has been handled by John Ferrell up to this point and all the work relative to the account has been performed by John Ferrell. It is our intention that this facility be visited only by John Ferrell and myself for some time to come in an effort to lend some continuity to our consulting services. In reviewing the suggested response to the NRC, a couple items of interest were noted:

a. It was not clear to me why a Medical Isotope Committee was even established originally on this license since this is a private practice license rather than an institutional license. A Medical Isotope Committee is only necessary for the latter period. Changed this requirement in the response to indicate that a Medical Isotope Committee was not necessary.

b. Added a close-out survey to Item #11 of that response for the Mankato facility. During the time since this license application was submitted, the Mankato facility has moved to its new location and a requirement of such a move is to submit a close-out survey to the NRC.

c. Because of the accumulation of many records with a large facility like Laboratory of Clinical Medicine, the request to throw away certain records was also amended to this NRC response. This request is to dispose of records that would be acceptable to the NRC and that are not covered by

- ( 1 ) Camera(s)
- ( 2 ) Scanner(s)
  - ( ) Single
  - ( ) Dual
- ( 3 ) Uptake
  - ( ) Single
  - ( ) Dual
- ( 4 ) Well(s)
- ( 5 ) Dose Calibrator
- ( 6 ) G-M
  - ( ) Ion Chamber
- ( 9 ) Procedures
- ( 7 ) License (NRC)
  - ( ) License (State)
- ( 8 ) Area surveys
  - ( ) Disposition
- (10) Waste
  - ( ) Quality control
- (11) Leak/Wipe tests
  - ( ) Interlock
  - ( ) Stickers
- (12) Postings
- (13) Finger badges
  - ( ) Whole Body
- (14) Records
  - ( ) X-ray
- (15) Therapy
  - ( ) Other
- (16) Ultrasound
  - ( ) Laboratory
- (17) Miscellaneous

Signed Paul Early /ka



**Laboratory of Clinical Medicine**  
 Clinical Pathology  
 Anatomic Pathology  
 Nuclear Medicine  
 Diagnostic Ultrasonography

NEW ADDRESS: 304 Belle Ave. Mankato, Minnesota 56001

3 08 82

March 3, 1982

John Ferrell  
 Nuclear Associates Inc.  
 9726 Park Heights  
 Cleveland, Ohio 44125

Dear Mr Ferrell;

Enclosed are some diagrams of a new "Hot Lab" that is in the process of being built in Mankato, Minnesota, a branch of the Mobile Services Department in Sioux Falls, South Dakota. To give you a little history of this branch, we have been in existence for approximately 5 years. We have two portable GE gamma cameras and employ three full-time nuclear medicine technologists. We are under Sioux Fall's license that you may already be aware of. The reason that I am writing this letter is to get some type of protocol on how to amend our existing license to include our new "Hot Lab". I tried to reach you over the phone but you were out of town. I did speak to Paul concerning this matter and hopefully you will have all the necessary information. Please contact me on this matter. We will be moving in by April 1st.

One last note, our generators will be delivered via courier service and locked in our "Hot Lab" each week, usually on Sunday evenings.

Also, could you send me a schedule on all the classes that your company will be presenting this year. Dates, times, etc..

Thank you for all your assistance and look forward to working with you.

Sincerely;

Wayne L. Van Berkum, Supervisor  
 Mobile Services Dept. (Mankato)

**Pathologists**  
 Karl H. Wegner, M.D., Med. Dir.  
 John F. Barlow, M.D.  
 Richard D. Schultz, M.D.  
 Edward M. Lang, M.D.  
 James I. Voss, M.D.  
 Harry T. Pitt-Hart, M.D.  
 Richard A. Jaqua, M.D.  
 W. Allan Boase, M.D.  
 Raymond A. Sanford, M.D.  
 Dwight E. Orr, M.D.  
 John T. Fidd, M.D.  
 Thomas C. Johnson, M.D.  
 Jose B. Crepps, M.D.  
 Beth L. Johnson, M.D.  
 Dennis D. Gravel, M.D.  
 Wesley D. Putnam, M.D.  
 David W. Orr, Ph.D., M.D.  
 Bradley E. Randall, M.D.  
 Jerry L. Simmons, M.D.  
 J. Frank Poes, M.D.  
 L. Jeff Kusman, M.D.  
 Jon K. Wegman, M.D.  
 Leona T. Devary, M.D.

**Chief Technologist**  
 Tom J. Sennabel, MT (ASCP) NM

**Consulting Technologists**  
 Phillip C. Fall, MT (ASCP)  
 William K. Hofer, MT (ASCP)  
 Carolyn E. Seibold, MT (ASCP)  
 Randy D. Cozra, MT (ASCP)

**Research Chemist**  
 Douglas F. Kimball, Ph.D.

**Consultant Neurology**  
 Kenneth G. Koob, M.D.  
 Warren C.V. Opheim, M.D.  
 Harlan A. Payne, M.D.  
 Jerome W. Freeman, M.D.

**Consultant Cardiology**  
 Lloyd E. Selberg, M.D.  
 Charles P. O'Brien, M.D.  
 Mary T. Sherry, M.D.  
 Paul L. Carpenter, M.D.

**Consultant**  
**Electron Microscopy**  
 James A. Burbach, Ph.D.

**Consultant Microbiology**  
 Mary Jo Jaqua, MSPP, Ph.D.

**Consultant Cytopathology**  
 Virginia F. Johnson, M.D.

**Consultant**  
**Veterinary Medicine**  
 Samuel E. Lukens, DVM

**Administration**  
 Charles F. Bowles, Exec. Dir.  
 Arlo J. Flanders  
 Harwin M. Moun  
 Joel C. Frey  
 Leslie C. Young  
 Mike E. Bodek

**Mobile Services**  
 1-88 - Ext: 76  
 Sioux Falls, SD 57101

1487 E.E. Cortez  
 Anasay, IA 50021

St. Ann's Hospital  
 St. Ann's, SD 57000

1212 S Euclid Ave.  
 Sioux Falls, SD 57105  
 605-339-1212

310 Belle Ave.  
 Box 3288  
 Mankato, MN 56001  
 507-625-2000

100 North Main  
 Box 1166  
 Mitchell, SD 57301  
 605-996-3771

West 4th Street  
 Box 94  
 Yankton, SD 57078  
 605-666-2000

DO NOT WRITE HERE



MINNESOTA DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
Section of Radiation Control
717 Delaware Street, S.E.
Minneapolis, Minnesota 55440
RADIATION EMERGENCY PHONE NUMBER: 612-649-5451
Information on Radiation & Registration Forms: 612-623-5323
REGISTRATION OF RADIATION SOURCES (SEE INSTRUCTIONS)
PLEASE PRINT OR TYPE ALL INFORMATION

DO NOT WRITE IN THIS SPACE
Registration Acknowledged When
Signed by Environmental Health
Division Director
Signature Date

This form, when properly completed and filed with the Environmental Health Division Director, Minnesota Department of Health, constitutes partial registration of the source(s) of ionizing radiation herein named in accordance with the Minnesota Department of Health Regulations on Ionizing Radiation. Complete registration consists of the completed form and total fee payment filed with Minnesota Department of Health. Registration does not imply approval or disapproval of the source or the facility.

This constitutes an: Original registration [ ] Biennial renewals [X] Registration of additional sources [ ]
Change of location [ ] Change of Ownership [X] Replacement [ ] Specify \_\_\_\_\_
Present Registration Number: 89-7367

PART I - GENERAL

1. Facility Legal Name: W.A. Boade M.D., Limited
2. Owner(s): W.A. Boade, M.D.
3. Location of Installation - Address: 304 Bell Avenue City: Mankato
Phone # 1-800-333-0365 County: Nicollet State: Min. Zip Code: 56001
4. Person Responsible for Radiation Safety - Name: Roger M. Rae Title: Radiation Safety Officer
Qualifications: See NRC License #40-26908-01

PART II - RADIATION-PRODUCING EQUIPMENT
(Use additional sheets if necessary)

Table with 10 columns: (a) ROOM # or NAME, (b) CONSOLE MANUFACTURER, (c) CONSOLE SERIAL NO., (d) APPLI-CATION, (e) TUBE MANUFACTURER, (f) TYPE R.F.D.T.I, (g) TUBE SERIAL NO., (h) MeV or kVp MAX, (i) mA MAX, (j) FIXED, MOBILE or ROTATING.

Source(s) located in truck or van \_\_\_\_\_ (Check here)
Industrial X-Ray Installations:
(a) Class \_\_\_\_\_ (b) Maximum Operating Conditions: kVp \_\_\_\_\_ mA \_\_\_\_\_
(c) Hours of operation \_\_\_\_\_ per (day) (week)
(d) Date of initial operation at new location \_\_\_\_\_

PART III - RADIOACTIVE MATERIALS
(Use additional sheets if necessary)

Table with 8 columns: (a) N.R.C. LICENSE NO., (b) LICENSE EXP. DATE, (c) SPECIFIC NUCLIDE(S) or GROUP(S), (d) PURPOSE or SOURCE USE, (e) NUMBER of SOURCES, (f) CHEMICAL FORM, (g) MAX QUANTITY ON HAND PER NUCLIDE, (h) ROOM # or NAME. Content: 40-26908-01, 12-31-92, (SEE ENCLOSED COMPUTER PRINT OUT AND NRC MATERIAL LICENSE)

Waste Disposal-State amount and type of radioactive waste discharged monthly to the following:
(a) Sewer \_\_\_\_\_ (b) Atmosphere \_\_\_\_\_ (c) Burial or storage installation \_\_\_\_\_
(d) Commercial disposal service (give name of firm): Waste Returned to SynGene Nuclear Pharmacy Minneapolis, Mn.

PRINTED/TYPED NAME and TITLE: Roger M. Rae, R.S.O. SIGNATURE: [Signature] DATE: 03-06-90
HE-00886-00 ORIGINAL: HEALTH DEPARTMENT COPY: FACILITY