W. F. PETEREIT, M.D.
L. J. LARSON, M.D.
R. P. DeCLARK, M.D.
D. R. WIERDA, M.D.
R. L. READ, M.D.
L. A. HENRICKSON, M.D.
J. L. QUALE, M.D.
D. G. NORDSTROM, M.D.
V. A. DZINTARS, M.D.
T. M. CINK, M.D.
T. MASTERSON, M.D.

RADIOLOGISTS

**Medical X-Ray Center** P.C.

1417 South Minnesota Avenue
Sioux Falls, South Dakota 57105
605/336-0515

DIAGNOSTIC RADIOLOGY
ULTRASOUND
RADIATION THERAPY

MEDICAL PHYSICS
STEVEN M. JONES, M.S.

ADMINISTRATION
F. S. CZESWIK
G. L. LARSON

RECEIVED
AUG 31 1982
U.S. NUCLEAR REGULATORY COMMISSION
NRC
Mail Section

August 24, 1982

Nuclear Regulatory Commission

Washington, D. C. 20555

Dear Sirs:

It is my pleasure to request amendment of our Nuclear Medicine License N040-01493-02 to include an additional practitioner, Andrew I. Soye, M. D.

Two copies of Dr. Soye's credentials are enclosed and you will see that he exceeds all requirements for licensure in group I through V. He would practice within the present restrictions of our license and would limit himself to diagnosis of thyroid disorders, I-131 treatment of hyperthyroidism and P-32 therapy of polycythemia and bony metastases.

Enclosed is the required fee of $40.00. If you have any queries, please do not hesitate to contact me or Dr. Soye at the above address.

Sincerely,

MEDICAL X-RAY CENTER, P. C.

Jerry Larson

J. Larson,
Administrator

JL:mkn

Enclosure

Applicant 04905
Check No. 840178
Amount Fee Category
Type of Fee Amendment
Date Check Rec'd 9/2/82
Received by Brown

RECEIVED BY LFMB
Date 9/2/82
Log Sept-1-9-1-10
By Brown
Orig. To
Action Compl. 9/3/82

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8602060133 851122
REG4 LIC30
40-01493-02 PDR

12428

# THE UNIVERSITY OF KANSAS

Department of Diagnostic Radiology
College of Health Sciences and Hospital
39th and Rainbow Blvd., Kansas City, Kansas 66103
(913) 588-6800


August 18, 1982

ARCH W. TEMPLETON, M.D., CHAIRMAN

Nuclear Regulatory Commission

RE: Andrew Ian Soye, M.D.
Medical X-Ray Center
1417 S. Minnesota Avenue
Sioux Falls, S.D. 57105

Dear Sirs:

Andrew Ian Soye, M.D. was a resident in the Department of Diagnostic Radiology at the University of Kansas Medical Center from July, 1978 through June, 1982. During this time he spent two weeks in September, 1978, January & February, 1979 as well as the months of May and September, 1981 and March and June, 1982 assigned full-time to the Division of Nuclear Medicine in the Department of Diagnostic Radiology

As a result of the above rotation in Nuclear Medicine, Dr. Soye received approximately 1150 hours of closely supervised clinical experience in Nuclear Medicine techniques. The actual number of radioisotope procedures, both diagnostic and therapeutic, which he directly supervised are listed in the statement of "Clinical Training and Experience of Physician", AEC Form 313m, Preceptor Statement.

In addition to this documented clinical experience, Dr. Soye participated in Nuclear Medicine seminars presented by the Nuclear Medicine faculty in a formal classroom at least one hour, twice monthly for nine months each year during his residency (71 hours) and in supervised resident seminars twice monthly during the academic year (66 hours). He also successfully completed our Departmental Radiation Physics and Protection Course of 80 hours.

The training outlined above exceeds the minimum required training in basic radioisotope handling techniques consisting of lectures, laboratory sessions, discussion groups or supervised experience in a nuclear medicine laboratory in radiation physics and in instrumentation (100 hours), radiation protection (30 hours), mathematics pertaining to the use and measurement of radioactivity (20 hours),


**DIAGNOSTIC ROENTGENOLOGY**
C.H. Joseph Chang, M.D., Ph.D.
Errol Levine, M.D., Ph.D.
Norman L. Martin, M.D.
Ryo Rok Lee, M.D.
Solomon Raptopoulos, M.D.
Arthur A. De Smet, M.D.
Stanton J. Rosenthal, M.D.
Hilton E. Price, M.D.
William P. Smith, M.D.
Joy A. Johnson, M.D.
Nancy A. Kirchner, M.D.

**NUCLEAR MEDICINE**
Ralph G. Robinson, M.D.
David F. Preston, M.D.
Norman L. Martin, M.D.
Audley V. Wegst, Ph.D.
Donald E. Wolner, Ph.D.
Jay Spicer, M.S.

**DIAGNOSTIC IMAGING AND RADIOLOGICAL SCIENCE**
Samuel J. Dwyer III, Ph.D.
Steven L. Fritz, Ph.D.
Larry T. Cook, Ph.D.
James L. Fram, Ph.D.
F. Doug Cook, Ph.D.
William H. Anderson, M.S.
Mark A. Tarbin, B.S.
Kenneth S. Hensley, M.S.
Denny Bell


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The University of Kansas
College of Health Sciences and Hospital



radiation biology (20 hours) and radiopharmaceutical chemistry (30 hours).

The above training was received under Kansas Agreement License #18-CO54-02. The lecture material in the Nuclear Medicine Seminars, resident seminars and radiological physics course taught within the Department during the time that he was enrolled as a resident exceeds the requirements for licensure requested for Groups I, II and/or III, Section 35.11(d) of 10 CFR, Part 35. He also had in excess of 1100 hours of supervised clinical training in our Institutional Nuclear Medicine Program, currently approved for resident in training for diagnostic radiology, nuclear radiology and in straight nuclear medicine.

Dr. Soye therefore has received training that exceeds the minimum requirements of licensure for the medical use of by-product Groups I through V.

Sincerely yours,

Ralph G. Robinson, M.D.
Professor of Diagnostic Radiology
Head, Division of Nuclear Medicine

RGR/p

FORM NRC-313M-SUPPLEMENT A
(8-78)

U.S. NUCLEAR REGULATORY COMMISSION

# TRAINING AND EXPERIENCE
# AUTHORIZED USER OR RADIATION SAFETY OFFICER

| 1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER | 2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE |
|---|---|
| ANDREW IAN SOYE. | South Dakota. |

**3. CERTIFICATION**

| SPECIALTY BOARD A | CATEGORY B | MONTH AND YEAR CERTIFIED C |
|---|---|---|
| Diagnostic Radiology | | June 1982 |

**4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES**

| FIELD OF TRAINING A | LOCATION AND DATE(S) OF TRAINING B | TYPE AND LENGTH OF TRAINING: LECTURE/ LABORATORY COURSES (Hours) C | TYPE AND LENGTH OF TRAINING: SUPERVISED LABORATORY EXPERIENCE (Hours) D | |
|---|---|---|---|---|
| a. RADIATION PHYSICS AND INSTRUMENTATION | | | | 100 |
| b. RADIATION PROTECTION | | | | 30 |
| c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY | See enclosed letter. | | | 20 |
| d. RADIATION BIOLOGY | | | | 20 |
| e. RADIOPHARMACEUTICAL CHEMISTRY | | | | 30 |

**5. EXPERIENCE WITH RADIATION.** *(Actual use of Radioisotopes or Equivalent Experience)*

| ISOTOPE | MAXIMUM AMOUNT | WHERE EXPERIENCE WAS GAINED | DURATION OF EXPERIENCE | TYPE OF USE |
|---|---|---|---|---|
| Tc-99m | 30mCi | Dept. of Diagnostic Radiology, | | See Preceptor's statement for specific usage |
| I-131 | 200mCi | University of Kansas Medical Center, | 7/1/78-6/30/82 | |
| P-32 (soluble) | 7mCi | Kansas City, Ks 66103 | | |

FORM NRC-313M Supplement A
(8-78)



12428

Form AEC-313a
(2-73)
Page 3

UNITED STATES ATOMIC ENERGY COMMISSION

# APPLICATION FOR BYPRODUCT MATERIAL LICENSE—MEDICAL

## SUPPLEMENT A—PRECEPTOR STATEMENT

This page is to be completed by the applicant physician's preceptor. If more than one preceptor is necessary to document experience, obtain a separate statement from each. Page 2 may be used for comments and additional information.

10. NAME AND ADDRESS OF APPLICANT PHYSICIAN (*Include ZIP Code.*)

ANDREW I. SOYE M.D.
Medical X-Ray Center,
1417 S. Minnesota Av. Sioux Falls. S.D. 57105

11. CLINICAL TRAINING AND EXPERIENCE OF PHYSICIAN NAMED IN ITEM 10 ABOVE

| (A) ISOTOPE | (B) CONDITIONS DIAGNOSED OR TREATED | (C) No. Cases Observed (See 1 in key below) | (D) No. Cases Involving Personal Participation (See 2 in key below) |
|---|---|---|---|
| I-131 or I-125 | Diagnosis of thyroid function | 119 | 119 |
| | Determination of blood and blood plasma volume | 3 | 3 |
| | Liver function studies | 0 | 0 |
| | Fat absorption studies | 0 | 0 |
| | Kidney function studies | 237 | 237 |
| | In vitro studies | 2257 | 2257 |
| Cr-51 | Gastrointestinal protein loss studies | 1 | 1 |
| | Determination of red blood cell volume and studies of red blood cell survival | 3 | 3 |
| Fe-59 | Iron turn over studies | 0 | 0 |
| Co-58or Co-60 | Intestinal absorption studies | 40 | 40 |
| K-42 | Potassium space determinations | 0 | 0 |
| I-131 | Thyroid imaging | 3 | 3 |
| | Brain tumor localization and cardiac imaging | 0 | 0 |
| | Cisternography (Yb-169 DTPA) | 16 | 16 |
| | Lung imaging | 0 | 0 |
| | Liver imaging | 0 | 0 |
| | Kidney imaging | 237 | 237 |
| | Placenta localization | 0 | 0 |
| Cr-51 | Placenta localization | 0 | 0 |
| | Spleen imaging | 0 | 0 |
| Au-198 | Liver imaging | 0 | 0 |
| Hg-197 | Brain imaging | 0 | 0 |
| | Kidney imaging | 0 | 0 |
| Hg-203 | Brain imaging | 0 | 0 |
| Sr-85 | Bone imaging | 0 | 0 |
| Tc-99m | Brain imaging | 164 | 164 |
| | Thyroid imaging | 120 | 120 |
| | Salivary gland imaging | 0 | 0 |
| | Blood pool imaging | 114 | 114 |

# APPLICATION FOR BYPRODUCT MATERIAL LICENSE—MEDICAL

SUPPLEMENT A—HUMAN USE

| (A) ISOTOPE | (B) CONDITIONS DIAGNOSED OR TREATED | (C) No. Cases Observed (See 1 in key below) | (D) No. Cases Involving Personal Participation (See 2 in key below) |
|---|---|---|---|
| Tc-99m | Placenta localization | 0 | 0 |
| | Liver and spleen imaging | 250 | 250 |
| | Lung imaging | 171 | 171 |
| | Bone imaging | 579 | 579 |
| Xe-133 | Blood flow studies and pulmonary function studies | 157 | 157 |
| Se-75 | Pancreas imaging | 1 | 1 |
| P-32 | Treatment of polycythemia, leukemia, and Bone metastases | 4 | 4 |
| | Intracavitary treatment | 0 | 0 |
| I-131 | Treatment of thyroid carcinoma | 4 | 4 |
| | Treatment of hyperthyroidism and cardiac condition | 16 | 16 |
| Au-198 | Intracavitary treatment | 0 | 0 |
| Co-60 or CO-137 | Interstitial treatment | 0 | 0 |
| | Intracavitary treatment | 0 | 0 |
| Ir-192 | Interstitial treatment | 0 | 0 |
| Co-60 CO-137 | Teletherapy treatment | 0 | 0 |
| Sr-90 | Treatment of eye disease | 0 | 0 |

Key to Column (C) and (D) above

1. Observation should consist of observing radioisotope administration techniques and discussion with preceptor the case histories to establish most appropriate diagnostic and/or therapeutic procedure, limitation, contraindications, etc.

2. Personal participation should consist of (a) supervised examination of patients to determine the suitability for radioisotope diagnosis and/or treatment and recommendation on dosage to be prescribed; (b) collaboration in calibration of the dose and the actual administration of the dose to the patient, including calculation of the radiation dose, related measurements, and plotting of data; and (c) adequate period of training to enable the physician to manage radioactive patients and to follow patients through diagnosis and/or the course of treatment.

12. DATES AND TOTAL NUMBER OF HOURS OF CLINICAL RADIOISOTOPE TRAINING Over 800 hours(See attached letter)

13. THE TRAINING AND EXPERIENCE INDICATED ABOVE WAS OBTAINED UNDER THE SUPERVISION OF Ralph G. Robinson M.D.

University of Kansas Medical Center
Division of Nuclear Medicine
Diagnostic Radiology
39th & Rainbow Boulevard
Kansas City, Kansas 66103

AT _____ (Institution) Name and Address

18-CO54-02 (Byproduct Material License Number)

Ralph G. Robinson (Signature of Preceptor)

# The State Board of Medical Examiners

State of South Dakota

Certificate No.
1209

*This is to Certify that*

## David Ian Soye

*is a licensed Physician & Surgeon ( M.D. ) under the provisions of the laws of the State of South Dakota and is entitled to practice medicine in all its branches*

*Said license granted by* RECIPROCITY.

*In witness whereof, we have hereunto set our hands and affixed the Seal of said Board at* Sioux Falls, *S. Dak. This* 26th *day of* March, *in the year of Our Lord One Thousand Nine Hundred and* 82.

President

Secretary

UNITED STATES OF AMERICA)
DISTRICT OF KANSAS ) ss

Name changed from: David Andrew Ian Soye

to: Andrew Ian Soye

By Order of Court this 1st day of July, 1982.

ARTHUR G. JOHNSON, CLERK

Betty L. Ross

Betty L. Ross, Deputy Clerk