

Blessing Hospital

1005 Broadway Quincy, Illinois 62301 (217) 223-5811

30-12108

July 1, 1985

Dr. Bruce Mallett
Material Licensing Section, Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Re: NRC License #12-00780-05

Dear Dr. Mallett:

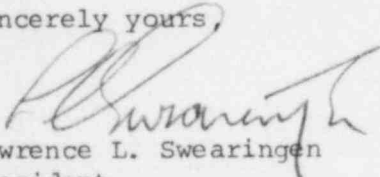
Please amend our radioactive material license to reflect the fact that Mr. S. H. Subramanian has recently replaced Mr. Chin Chang Hwang as the Medical Physicist and Radiation Safety Officer of this hospital. A check for \$120.00 is enclosed.

Mr. Subramanian's qualifications were reviewed and approved by our Radiation Safety Committee on June 28, 1985. He will be performing all of the duties of Mr. Hwang, such as those outlined in our letter sent to you in January 1984 (received by you on January 19, 1984).

Enclosed are the credentials of Mr. S. H. Subramanian. If you have any questions in this matter, please contact him directly at (217) 223-5811, extension 1675.

Thank you for your consideration.

Sincerely yours,


Lawrence L. Swearingen
President

LLS:js

cc: Harry Wolin
Young Yu, M.D.
S. H. Subramanian
Earl Eliason

| | |
|------------------|---------------|
| Applicant | July 15, 1985 |
| Check No. | 117228 |
| Amount | \$120.00 |
| Type of Fee | 7C and |
| Date Check Rec'd | 7/23/85 |
| Received By | [Signature] |

U.S. N.R.C.
LIC. FEE MGMT. BRANCH

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JUL 10 1985

REGION III

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REG3 LIC30
12-00780-05 PDR

CONTROL NO. 7 9311

JUL 10 1985

EXHIBIT B

| NRC Form 3127 Supplement A 8-81 10 CFR 35 | | U.S. NUCLEAR REGULATORY COMMISSION | |
|---|---|---|---|
| TRAINING AND EXPERIENCE PROPOSED AUTHORIZED USER OR RADIATION SAFETY OFFICER | | | |
| 1. NAME OF PROPOSED AUTHORIZED USER OR RADIATION SAFETY OFFICER S. H. Subramanian | | 2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE (if physician) | |
| 3. CERTIFICATION | | | |
| SPECIALTY BOARD | CATEGORY | MONTH AND YEAR CERTIFIED | |
| American Board of Health Physics | Comprehensive Health Physics | August 1975 Renewed 1981 | |
| 4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES (To be completed by institution providing training) | | | |
| FIELD OF TRAINING | LOCATION AND DATE(S) OF TRAINING | TYPE AND LENGTH OF TRAINING | |
| | | LECTURE/LABORATORY COURSE (hours) | FORMAL SUPERVISED OJT LABORATORY EXPERIENCE (hours) |
| RADIATION PHYSICS AND INSTRUMENTATION | Bhabha Atomic Research Temple Univ. Center University of Kansas | 1 year 9 x 16 = 144 12 x 16 = 192 | 9 years 6x16 = 96 9x16 = 144 |
| RADIATION PROTECTION | B.A.R.C. Temple University University of Kansas | 1 year 5 x 16 = 80 9 x 16 = 144 | 9 years 5x16 = 80 3x16 = 48 |
| MATHEMATICS PERTAINING TO THE USE, MEASUREMENT, AND SHIELDING OF RADIOACTIVE SOURCES | B.A.R.C. Temple University University of Kansas | 1 year 5 x 16 = 80 6 x 16 = 96 | 9 years - - |
| RADIATION BIOLOGY | B.A.R.C. Temple University University of Kansas | 50 6 x 16 = 96 6 x 16 = 96 | 150 6x16 = 96 6x16 = 96 |
| 5. EXPERIENCE WITH RADIOACTIVE MATERIALS* (Actual use of radioisotopes or equivalent experience) | | | |
| ISOTOPE | MAXIMUM AMOUNT FOR ANY SINGLE APPLICATION | WHERE EXPERIENCE WAS GAINED | DURATION OF EXPERIENCE |
| Co-60 | 5000 Ci (Teletherapy) | B.A.R.C., Bombay | B.A.R.C. 10yrs. |
| Cs-137, Ir-192 | 1 Ci (Ind Rad) | B.A.R.C. | Temple 1 year |
| Ra-226 | 250 MCi | B.A.R.C. | U. of K. 3 yrs. |
| Various open & sealed | Microcurie - 100 millicuries | B.A.R.C., Univ. of Kansas, Pa., Temple | U. of Pa. 5 yrs. |
| TYPE OF USE | | | |
| Biomedical | | | |
| Teaching | | | |
| Research | | | |
| Clinical | | | |
| *Experience with sealed radioactive sources under the supervision of qualified instructors should include: | | | |
| 1. Review of isotope source operation and periodic spot check measurements of teletherapy units | | 4. Preparation of treatment plans and treatment times for teletherapy and brachytherapy | |
| 2. Isotope source operation of sealed sources other than teletherapy sources that are used for treatment purposes | | 5. Knowledge of appropriate radiation safety quality control and emergency procedures for handling and using sealed sources | |
| 3. Calibration of ion chambers and survey meters | | | |
| 6. I CERTIFY THAT THE INFORMATION PRESENTED ABOVE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF (Signature of program supervisor) | | | |
| TYPED OR PRINTED NAME Harry Wolin, Vice President | | DATE 7-5-85 | |
| NAME OF INSTITUTION Blessing Hospital | | | |
| MAILING ADDRESS Broadway at 11th Street | | | |
| CITY Quincy | STATE Ill. | ZIP CODE 62301 | RADIOACTIVE MATERIALS LICENSE NUMBER 12-00780-05 |
| WARNING: 18 U.S.C. Section 1001, Act of June 25, 1948, 62 Stat. 749, 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. | | | |

*See also enclosed resume.

CURRICULUM VITAE

S.H. Subramanian
129 1/2 North 9th Street
Quincy, Illinois 62301
Phone (217) 222-5687

EDUCATION

- | | | |
|---------|-------|---|
| 1983-84 | MBA | University of Kentucky. Courses included areas of Finance, Management, Data Analysis, Marketing, Information Systems, Business Policy, Business Law, and Personnel. |
| 1980-81 | M.S. | University of Kentucky in Computer Science. Besides basic Computer Science courses, I also took courses in Physics of Diagnostic Radiology, Nuclear Medicine Instrumentation and Methods and Statistics. Gained proficiency in several programming languages including Fortran, Pascal and Assembler. |
| 1978-79 | ABD | University of Kansas in Radiation Biophysics. Courses included Radiation Dosimetry, Medical Physics, Radiobiology, Radiation Therapy Physics, Reactor Safety, Advanced Topics in Radiobiology, Radiation Dosimetry and Shielding. |
| 1971-72 | M.S. | Temple University in Radiological Health. Courses included Xrays, Isotope Methodology, Health Physics, Radioecology, Environmental Radioassay, Radiation Biology, Electronics, Statistics and Programming. |
| 1955-59 | B.Sc. | University of Madras, Madras, India with Physics, Chemistry and Mathematics. |

CERTIFICATION

- | | | |
|------|-------|---|
| 1975 | CHP | Comprehensive certification in Health Physics, American Board of Health Physics, renewed till 1985. Area of specialty - Radiation Safety in Medicine and Biology. |
| 1975 | CRESO | Certification in Radiation Equipment Safety, N.Y. State Department of Health. |

EXPERIENCE

- | | | |
|---------|--|---|
| 1985- | | Medical Physicist/RSO at Blessing Hospital, Quincy, Illinois. Very comprehensive responsibilities in the areas of Radiation Therapy, Nuclear Medicine, Diagnostic Radiology and Radiation Safety. For details, see the job description attached. |
| 1981-84 | | Instructor, Computer Information Systems, Eastern Kentucky University, Richmond, Kentucky. Taught courses in Computers and Data Processing as well as programming in Fortran, RPG and BASIC. |
| 1973-78 | | Health Physicist at the University of Pennsylvania, Philadelphia. Job involved assisting the RSO in all matters of Radiation Safety in a university with a broad license. Specific duties included: <ul style="list-style-type: none">. Surveys of all areas where radiation was used in campus. Calibration and maintenance of radiation measuring equipment. Technical advice to radiation users in campus. Preparation and use of TLD monitors for a variety of reasons. Hazard evaluation for special procedures (protein iodination) |

- . Development of special monitoring techniques
- . Investigation and followup of emergencies
- . Radiation Safety of Xray machines/Brachytherapy sources
- . Collection and disposal of radioactive wastes

The university's broad license encompassed three hospitals, a very large biological research laboratory and nearly 150 users.

1972-73

Research Assistant in Nuclear Medicine, Washington University in St. Louis. Participated in research involving characterization of brain tissue following injection of radioactive microspheres or following tumor induction. Was also responsible for radiation safety on the project.

1969-71 &
1978-79

Graduate Assistant at the University of Kansas. Duties varied each semester and included:

- . Air and water monitoring for a 1 MW research reactor
- . Surveys of campus areas where radiation was used
- . Leak testing of radiation sources
- . Calibration of radiation measuring instruments
- . Collection and disposal of radioactive wastes
- . Teaching lab portions of courses in Radiation Biophysics
- . Teaching high school students in summer science camp

1959-69

Scientific Officer at BARC, Bombay, India. Duties included:

- . Treatment planning for Xray and Teletherapy sources
- . Calibration and Quality Assurance of Xray/Teletherapy units
- . Theoretical and experimental plotting of isodose curves
- . Installation planning and shielding calculations
- . Technical advice to radiation users all over India
- . Primary standardization of radioisotopes using coincidence, semiconductor and liquid scintillation counting
- . Radiation surveys in medical, industrial, agricultural and research institutions all over India
- . Writing of technical pamphlets for radiation users
- . Teaching lab courses in Radiological Physics
- . Maintenance of sources storage room and allied records

HONORS

| | |
|---------|---|
| 1980-81 | University Fellowship, University of Kentucky |
| 1979-80 | Dissertation Fellowship, University of Kansas |
| 1979 | Summer Fellowship, University of Kansas |
| 1978-79 | Teaching Assistant, University of Kansas |
| 1975 | Certification in Radiation Equipment Safety, N.Y. State |
| 1975 | Certification in Health Physics, American Board of Health Physics |
| 1971-72 | U.S.P.H.S. Fellowship, Temple University |
| 1969-71 | Graduate Assistant, University of Kansas |

SOCIETIES

| | |
|-------|--|
| 1972- | American Association of Physicists in Medicine |
| 1972- | Health Physics Society |
| 1972- | International Radiation Protection Association |
| 1969- | Hospital Physicists Association, London |

REFERENCES

Will be provided on request.

American Board of Health Physics

Be it known that

Sivaraman Harihara Subramanian

has satisfactorily met the professional standards established by the

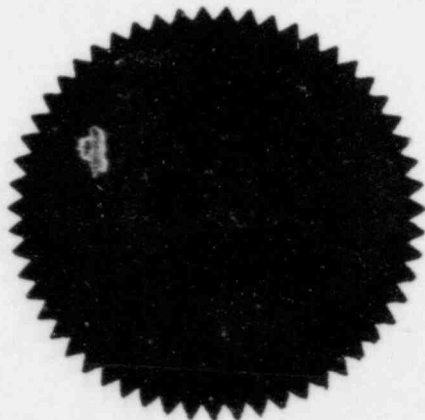
American Board of Health Physics

and is hereby certified in

HEALTH PHYSICS

August 1, 1975
date

W.C. Reineg chairman
Bruce L. Rich secretary



ORIGINAL SEAL



RENEWAL
SEAL

TEMPLE · UNIVERSITY

OF · THE · COMMONWEALTH · SYSTEM · OF · HIGHER · EDUCATION

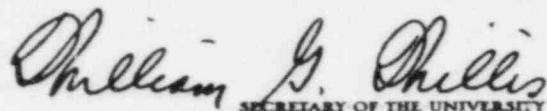
BY · AUTHORITY · OF · THE · BOARD · OF · TRUSTEES · AND · UPON · RECOMMENDATION
OF · THE · FACULTY · HEREBY · CONFERS · UPON

~ Sivaraman K. Subramanian ~


THE · DEGREE · OF
Master of Science

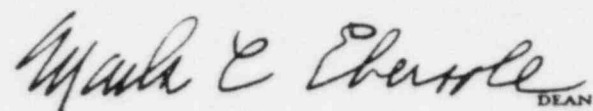
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THERE TO · IN · RECOGNITION · OF · THE · SATISFACTORY · COMPLETION
OF · THE · COURSE · PRESCRIBED · BY · THE · FACULTY · OF · THE · UNIVERSITY
IN · TESTIMONY · WHEREOF · THE · UNDERSIGNED · HAVE · SUBSCRIBED
THEIR · NAMES · AND · AFFIXED · THE · SEAL · OF · THE · UNIVERSITY
GIVEN · AT · PHILADELPHIA · PENNSYLVANIA · ON · THIS · NINETEENTH · DAY · OF
JANUARY · NINETEEN · HUNDRED · AND · SEVENTY · THREE


CHAIRMAN OF THE BOARD OF TRUSTEES


SECRETARY OF THE UNIVERSITY




PRESIDENT OF THE UNIVERSITY


DEAN



TEMPLE UNIVERSITY

OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION
PHILADELPHIA, PENNSYLVANIA 19122

OFFICE OF ACADEMIC RECORDS

02/73

STUDENT NUMBER 277666
SCHOOL OR COLLEGE SCHOOL OF PHARMACY
UNDERGRADUATE DEPT ENVIRONMENTAL HEALTH
GRADUATE DIVISION

BIRTH DATE 00
SEX MALE

NAME SUBRAMANIAN (LAST) SIVARAMAN H
HOME FOREIGN STUDENT OFFICE
ADDRESS TEMPLE UNIVERSITY
PHILA PA 19122

| DEPARTMENT | COURSE NUMBER | COURSE DESCRIPTION | SEM | GRD | DEPARTMENT | COURSE NUMBER | COURSE DESCRIPTION | SEM | GRD | MEMORANDA |
|------------|---------------|--------------------------|-------|-----|------------|---------------|--------------------|-----|-----|------------------------------|
| PHARMACY | SCH. | FALL SEMESTER 1971 | GRAD. | | | | | | | C 5A--853-4C O 5A--753-3E |
| INF SCI | 401. E | INTRO COMP PR & APP | 3.0 A | | | | | | | |
| PHAR CH | 441. | ELECTRONICS I | 3.0 B | | | | | | | |
| PHAR CH | 443. | ELECTRONICS II | 2.5 B | | | | | | | |
| PHAR CH | 447. | X-RAYS I | 2.0 A | | | | | | | |
| PHAR CH | 449. | ISOTOPE METH | 4.0 A | | | | | | | |
| PHAR CH | 523. | RADIOECOTOLOGY | 2.0 A | | | | | | | |
| PHARMACY | SCH. | SPRING SEMESTER 1972 | GRAD. | | | | | | | |
| PHARCOL | 448. | X-RAYS II | 2.0 A | | | | | | | |
| PHARCOL | 524. | RADIATION BIOLOGY | 3.0 A | | | | | | | |
| PHARCOL | 526. | HEALTH PHYSICS | 4.5 A | | | | | | | |
| PHARCOL | 540. | ENVIRONMENTAL RADIOASSAY | 4.0 A | | | | | | | |
| HLTH AD | 501. | ECOLOGY & PUBLIC HEALTH | 3.0 A | | | | | | | |
| RUSSIAN | 006. E | ELEMENTS | 3.0 B | | | | | | | |
| PHARSCI | 558. | PHARM CHEM SEMINAR | 1.0 A | | | | | | | |
| PHARMACY | SCH. | REG. SUMMER SESSION 1972 | GRAD. | | | | | | | |
| STAT | 512. E | STAT ANAL | 3.0 P | | | | | | | |
| | | | | | | | | | | M.S. 01/73 |

GRADING KEY

A - EXCELLENT

B - GOOD

C - FAIR

D - PASSING - NOT ACCEPTABLE FOR GRAD. CR

F - FAILURE

W - WITHDRAWN

I - INCOMPLETE

NR - GRADE NOT REPORTED

P - PASS

IP - INCOMPLETE IN PASS/FAIL COURSE

H - HONORS

CR - CREDIT

NO CR - NO CREDIT

@ - NOT FOR GRADUATE CREDIT

- FOR GRADUATE CREDIT

* - NOT APPLICABLE TOWARD DEGREE

NOT OFFICIAL WITHOUT SEAL AND SIGNATURE OF DIRECTOR OF ACADEMIC RECORDS

CONTROL NO. 7 9311

SUBRAMANIAN Sivaraman Harihara 134986

Name Student No.

July 31, 1940 1954

Date of Birth Year of Graduation from H.S.

B.C.C.C.'s Perambur

Name of High School Town State

India

Sec. Sec. No. Country of Citizenship

Previous Degrees

Institution Degree Major Date GPA

oyola College, India B.Sc Physics '59

Admission: Regular

4/23/69 Admitted for Fall 1969

Date term

to work toward the Ph. D. degree in the
major field of Radiation Biophysics

offered by the Dept. of Radiation Biophysics

Examinations:

9/27/69 Reading Knowledge in French:
Passed8-25-79 Comprehensive Oral for
Doctorate: Satisfactory

Exam.Comm.: B. Friesen, chm.,

L. Boach, J. Zimbrick,

E. Shaw, R. Bearse.

Appointments

Grad Assistant 50%, 6/1/70-7/31/70

Grad Assistant 50%, 7/1/70-5/31/71

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ACT OF 1974: This information is released to you with
the understanding that it will not be released to a third
party without the student's written consent.

Office of the Registrar

THE UNIVERSITY OF KANSAS

Lawrence, Kansas

PERMANENT RECORD

FALL 1969
CHEM 173
BIOP 105
BIOP 107A
BIOP 108

GRADUATE 134986
PHYSICAL CHEMIST I
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RADIA DETEC ELEC I

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SPRING 1970
BIOP 150
BIOP 151
CHEM 174
BIOP 109

GRADUATE 134986
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APPL MATH STATISTC
GENERAL BIOPHYSICS

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BIOL 0404
BIOP 076J
BIOP 0810
BIOP 0922

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SPRING 1979
BIOP 0999

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SUMMER 1979
BIOP 0999

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RESEARCH

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| Dept. | No. | Title | Semester Hours | G. |
|--------|-------|---------------------|----------------|------|
| ALL | 1979 | 134986 6 GRADUATE A | | |
| BIOP | 0923 | MEDICAL PHYSICS | 3 | A |
| BIOP | 0760 | RADIATN BICPHSX SM | 1 | A |
| BIOP | 0765 | NUCLEAR POWR SAFTY | 2 | A |
| BIOP | 0920 | ADV TP:RADIAT BICL | 3 | A |
| BIOP | 0999 | RESEARCH | 6 | P |
| 30.00 | 53.00 | 71.00 | 173.00 | 3.26 |
| .00 | 59.00 | 77.00 | 197.00 | 3.34 |
| PRING | 1980 | 134986 6 GRADUATE A | | |
| BIOP | 0999 | RESEARCH | 12 | P |
| 30.00 | 56.00 | 86.00 | 185.00 | 3.30 |
| .00 | | 89.00 | | |
| SUMMER | 1980 | 134986 6 GRADUATE A | | |
| BIOP | 0999 | RESEARCH | 1 | P |
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| BIOP | 0999 | RESEARCH | 1 | P |
| 30.00 | 56.00 | 88.00 | 185.00 | 3.30 |
| .00 | | 91.00 | | |
| SPRING | 1981 | 134986 6 GRADUATE A | | |
| BIOP | 0999 | RESEARCH | 1 | P |
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| SPRING | 1982 | 134986 6 GRADUATE A | | |
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| FALL | 1982 | 134986 6 GRADUATE A | | |
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Office of the Registrar
THE UNIVERSITY OF KANSAS
 Lawrence, Kansas
 PERMANENT RECORD

134986

Page 2

ISSUED TO
STUDENT

Degrees Awarded

Major

Date

continued on card 2

SUBRAMANIAN, Sivaraman Harihara 134986

Name Student No.

July 31, 1940

Date of Birth

Previous Degrees
Institution Degree Date

Admitted for term

to work toward the degree

offered by the Dept. of

ISSUED TO
STUDENT

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Office of Admissions and Records
THE UNIVERSITY OF KANSAS
Lawrence, Kansas
PERMANENT RECORD

| Term | Year | Course | Grade | Hours | Prerequisites | Score |
|--------|------|---------------------|-------|-------|---------------|-------------|
| SPRING | 1983 | 134986 6 GRADUATE A | | | | |
| BIOP | 0999 | RESEARCH | | | | |
| | | | | 56.00 | 98.00 | 185.00 3.30 |
| SUMMER | 1983 | 134986 6 GRADUATE A | | | | |
| BIOP | 0999 | RESEARCH | | | | |
| | | | | 56.00 | 99.00 | 185.00 3.30 |
| FALL | 1983 | 134986 6 GRADUATE A | | | | |
| BIOP | 0999 | RESEARCH | | | | |
| | | | | 56.00 | 100.00 | 185.00 3.30 |
| SPRING | 1984 | 134986 6 GRADUATE A | | | | |
| BIOP | 0999 | RESEARCH | | | | |
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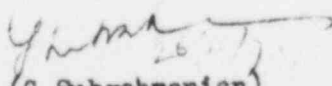
BHABHA ATOMIC RESEARCH CENTRE
Directorate of Radiation Protection

Ref: DRP/SHS/C-1760 /70

October 26, 1970

Mr. S.H.Subramanian has been known to me for the past twelve years. He joined the Directorate of Radiation Protection, Bhabha Atomic Research Centre in the year 1959. During the period of his service here, he has been associated with a large number of projects in radiation protection. He has been primarily interested in radiation installation planning, tendering of advice to radiation users in various fields such as medicine, industry, agriculture and research, radiation standardisation and hospital physics. He has got a quick grasp in all the above topics. Besides he has been associated in the conduct of radiological protection surveys of institutions using radiation sources.

I am confident with his background in all the radiation protection problems and hospital physics, he can be an asset to any institution needing a man of this calibre. His character and conduct are good.


(G. Subrahmanian)

Scientific Officer (SE)

Directorate of Radiation Protection

GS:vnrt
26.10.70

CONTROL NO. 7 9811