



PO Box 30542 Honolulu, HI 96820

RECEIVED

APR - 5 2012

DNMS

RTC

April 4, 2012

US NRC Region IV
ATTN: DNMS Licensing Assistant
1600 East Lamar Boulevard
Arlington, Texas 76011-4511

To whom it may concern,

This letter is to request an amendment to the Paina Hawaii Material License, 53-29296-01, Reference No. 030-36974, Amendment No. 01, to change the Radiation Safety Officer (RSO) from Andrew Buchan to Dr. Lyle Wong.

Dr. Wong completed the Gray*Star Manufacturer's Training Course for Radiation Safety Officer & Production Manager in December 2011. The course content and Certification of Completion is attached. The radiation safety course included a 51 question examination which Dr. Wong passed.

Dr. Wong's biography and two diplomas from the University of California, Irvine, are included below.

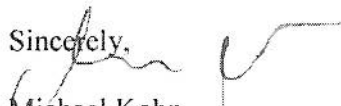
Dr. Wong will also serve as the irradiator operator, in addition to the RSO training above, Dr. Wong will have 3 months of preoperational involvement with the Genesis II irradiator while the irradiator is being constructed and installed in Hawaii, pre-cobalt.

Dr. Wong's security check has been completed by Andrew Buchan, with finger print check through the FBI.

Andrew Buchan's resignation is also attached.

Dr. Wong's contacts are as follows:
Cell: 808-255 1047
e-mail: Lyle@Painahawaii.com

Sincerely,


Michael Kohn
Managing Member
Pa'ina Hawaii LLC

577283

Subj: **Letter of Resignation**
Date: 4/4/2012 8:27:10 A.M. Hawaiian Standard Time
From: aebuchan@aebuchan.net
To: Hawaiiexport@aol.com

Michael,

I would like to offer my resignation as RSO for Paina Hawaii effective 4/1/2012.

It has been a pleasure to work with you in this capacity for the last 6 plus years.

I wish the best for Paina and look forward to maintaining our friendship for years to come.

I am available, should you need help with Paina.

regards,

aeb

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DNMS

577283

GRAY*STAR

Certificate of Completion
is hereby granted to

Lyle Wong

to certify that he has completed to satisfaction
Manufacturer's Training Course for
RSO & Production Manager /
Radiation Safety Course

Granted: December 9, 2011



A handwritten signature in black ink, appearing to read "Russell Stein".

Russell Stein,
Lead Instructor

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

ON THE NOMINATION OF THE
GRADUATE COUNCIL OF THE IRVINE DIVISION
HAVE CONFERRED UPON

LYLE WONG

THE DEGREE OF MASTER OF SCIENCE
IN BIOLOGICAL SCIENCES
WITH ALL THE RIGHTS AND PRIVILEGES THERETO PERTAINING
GIVEN AT IRVINE THIS TWENTIETH DAY OF DECEMBER IN THE
YEAR NINETEEN HUNDRED AND SIXTY-NINE

Ronald Reagan
GOVERNOR OF CALIFORNIA AND
PRESIDENT OF THE REGENTS

Clifford W. Smith
PRESIDENT OF THE UNIVERSITY



David L. Heard, Jr.
CHANCELLOR AT IRVINE

R. W. Howard
DEAN OF THE GRADUATE DIVISION
AT IRVINE

THE REGENTS OF THE
University of California

ON THE NOMINATION OF THE
GRADUATE COUNCIL OF THE IRVINE DIVISION
HAVE CONFERRED UPON

LYLE WONG

WHO HAS PROVED HIS ABILITY BY ORIGINAL RESEARCH
IN BIOLOGICAL SCIENCES
THE DEGREE OF DOCTOR OF PHILOSOPHY
WITH ALL THE RIGHTS AND PRIVILEGES THERETO PERTAINING

GIVEN AT IRVINE
THIS EIGHTEENTH DAY OF DECEMBER IN THE YEAR
NINETEEN HUNDRED AND SEVENTY-ONE

Ronald Reagan
GOVERNOR OF CALIFORNIA AND
PRESIDENT OF THE REGENTS

Chancellor
PRESIDENT OF THE UNIVERSITY



Daniel L. Klauig Jr.
CHANCELLOR AT IRVINE

Howard M. Zerk
DEAN OF THE GRADUATE DIVISION
AT IRVINE

THE REGENTS OF THE
University of California

ON THE NOMINATION OF THE
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Clifford
PRESIDENT OF THE UNIVERSITY



Daniel L. Klauig Jr.
CHANCELLOR AT IRVINE

Howard M. Lenth
DEAN OF THE GRADUATE DIVISION
AT IRVINE

GENESIS II

Radiation Safety Officer

Training Record

Radiation Safety Officer Candidate: Lyle Wong SSN: 000-00--

Notes:

Resume

Biography

Employment History

| | |
|---|---------------------------------|
| <p>Plant Industry Administrator Plant Industry Division Hawaii Department of Agriculture 1428 South King Street Honolulu, Hawaii 96814 Ph. 808-973-9535 FAX: 808-973-9533 e-mail: Lyle.Wong@hawaii.gov</p> | <p>June 1991 - Present</p> |
| <p>Director, Environmental Affairs Dole Packaged Foods Company 801 Dillingham Blvd. Honolulu, Hawaii 96817</p> | <p>Sept. 1984 - May 1991</p> |
| <p>Chief, Pesticides Branch Hawaii Department of Agriculture 1428 South King Street Honolulu, Hawaii 96814</p> | <p>April 1980 - August 1984</p> |
| <p>Director, Pesticide Hazard Assessment Program Pacific Biomedical Research Center University of Hawaii Manoa Honolulu, Hawaii 96822</p> | <p>June 1976 - April 1980</p> |

Education

| | |
|-------------------------|--|
| <p>Postdoctoral</p> | <p>Department of Biology, Rice University, Houston, Texas. 1971-1973. Research Associate 1973 - 1976</p> |
| <p>M.S. & Ph.D.</p> | <p>Department of Cell and Developmental Biology, University of California, Irvine. 1969/1971. Biology</p> |

B.A. University of Hawaii Manoa. Zoology, 1967.

Career:

Dr. Wong has held University, government and private industry positions in research, enforcement and regulatory affairs. At the University of Hawaii, Dr. Wong directed a research program on pesticides and potential impact on human health funded by the U.S. Environmental Protection Agency. As Chief of the Pesticides Branch, State Department of Agriculture, Dr. Wong directed a statewide pesticide enforcement and regulatory program to assure the safe use of pesticides in Hawaii. As Director of Environmental Affairs for Dole Packaged Foods Company (Pineapple operations of Dole Food Company), Dr. Wong worked in the Dole operating divisions (Hawaii, Philippines, Thailand, Korea, Dominican Republic and Honduras) to assure agricultural operations were in compliance with Dole corporate policy and procedures. As Administrator of the Plant Industry Division, HDOA, Dr. Wong oversees the operations of three Branches in the HDOA, Plant Pest Control (biocontrol programs), Pesticides and Plant Quarantine. In Plant Quarantine, Dr. Wong has worked with USDA, International Services, the American Embassy in Tokyo and the Japan Ministry of Agriculture, Forestry and Fisheries (MAFF) to open Japan markets to potted foliage and flowering plants from Hawaii and with the USDA, APHIS, PPQ, growers and contract sterilization companies in the U.S. to open U.S. markets to fresh fruits and vegetables from Hawaii using irradiation as a quarantine treatment. Dr. Wong is member of a research team that directed the highly successful USDA, Agriculture Research Service fruit fly area-wide suppression program in Hawaii which has received national and international recognition, including, the USDA Secretary's Honor Award, USDA – ARS Technology Transfer Award, and the Federal Laboratory Consortium Technology Transfer Team Award for 2005, for Tephritid fruit fly control and technology transfer.. Dr. Wong has served on USDA, APHIS, ARS panels reviewing the priorities and objectives of the USDA, ARS, Pacific Basin Agricultural Research Center, Hilo, and the Plant Biological and Molecular Processes programs of the USDA, ARS, National Program. Dr. Wong served as President of the Western Plant Board from 2008 –

2010, one of four Regional Boards of the National Plant Board in the United States. The WPB membership includes the 13 western U.S. states, the Provinces of Alberta and British Columbia (Canada), and the Republic of Mexico. In 2008, Dr. Wong received the USDA, APHIS, Administrator's Award for his advocacy of protecting Hawaii from invasive species and for his work to establish quarantine treatment procedures for Hawaii fresh agricultural products so pest species already established in the Island are not moved elsewhere. This award acknowledged Dr. Wong's effort to open new markets for Hawaii products and for support of irradiation as a post-harvest quarantine treatment for movement of Hawaii fresh agricultural products to U.S. mainland markets.

Selected Publications

Wong, L. and F. M. Fisher. 1975. Determination of carbofuran and its toxic metabolites in animal tissue by gas-liquid-chromatography of their N-trifluoroacetyl derivatives. *J. Agri. Food Chem.* 23:315-318.

Takahashi, W., A. M. Budy, and L. Wong. Occurrence of leucopenia among workers exposed to pesticides. American Society for Pharmacology and Experimental Therapeutics and Society of Toxicology, Houston, Texas, August 13 – 17, 1978. (Abstract)

Wong, L. and F. M. Fisher. Carbofuran toxicity and detoxification in three terrestrial gastropod species. AAAS, Houston, Texas. January 3 – 8, 1978. (Abstract)

Cummons, C. L., and L. Wong. Poisoning incidents in Hawaii. 1979. *Hawaii Medical Journal* 38:333-337.

Klemmer, H. W., L. Wong, M. M. Sato, E. L. Reichert, R.J. Korsak, and M.N. Rashad. 1980. Clinical findings in workers exposed to pentachlorophenol. *Arch. Environ. Contam. Toxicol.* 9:715-725.

Nelson, J. C., L. Wong, and H. F. Mower. Mutagenicity of N-nitroso derivatives of carbofuran and its toxic metabolites. 64th annual Meeting of the Fed. Am. Soc. Exp. Biol., Anaheim, CA, April 13 – 18, 1980. Fed.

Proc. 39(3):Abstract

Takahashi, W., L. Wong, B. J. Rogers, and R. H. Hale. 1981. Depression of sperm counts among agricultural workers exposed to dibromochloropropane and ethylene dibromide. *Bull. Environ. Contam. Toxicol.* 27:551-558.

Takahashi, W., D. Saidin, G. Takei, and L. Wong. 1981. Organochlorine pesticide residues in human milk in Hawaii, 1979-1980. *Bull. Environ. Contam. Toxicol.* 27:506-511.

Nelson, J. C., E. A. MacKinnon, H. F. Mower, and L. Wong. 1981. Mutagenicity of N-nitroso derivatives of carbofuran and its toxic metabolites. *Journal of Toxicol. Environ. Health* 7:519-531.








Takahashi, W, K. Pfenninger, and L. Wong. 1983. Urinary arsenic, chromium and copper levels in workers exposed to arsenic-based wood preservatives. *Arch. Environ. Health* 38:209-214.



Anderson, B. S., M. K. Koizumi, M. R. Bomgaars, L. Wong, T. Burch, and N. Oyama. 1984. The Queen's Gate Investigation. *Perspectives in Environmental Health, Hawaii State Department of Health, Issue No. 1*


Wong, L., J. W. Hylin, and A. Hepton. Ethylene dibromide persistence and movement in soil in Hawaii. *The 1984 International Chemical Congress of Pacific Basin Societies. Honolulu, Hawaii. Dec. 16 - 21, 1984 (Abstract).*

Moy, J. H. and L. Wong. Current Interest in and prospect for adopting Irradiation as a quarantine treatment procedure in Hawaii. *In: "Workshop on Irradiation as a Quarantine Treatment for Fruits and Vegetables", Gainesville, Florida, Feb. 1 - 3, 1994.*



Moy, J. H. and L. Wong. 2002. The efficacy and progress in using radiation as a quarantine treatment of tropical fruits - a case study in Hawaii. *Radiation Physics and Chemistry* 63:397-401.

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|--|---|---|
| | <i>Workers: Inspection and Investigations</i> |  |
| | 10 CFR 20 <i>Standards for Protection Against Radiation</i> |  |
| | 10 CFR 36 <i>Licenses and Radiation Safety Requirements for Irradiators</i> |  |
| | <i>Application for Material License [Pa'ina Hawaii]</i> |  |
| | NUREG 1556, Vol. 6 |  |
| | 21 CFR 179 |  |
| | Fleurus, Belgium Incident Investigation |  |








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|--|--|---|
| | Selective standards from: "Standards on Dosimetry for Radiation Processing" |  |
| | GRAY*STAR: "Facility Setup Guidelines" |  |

Underpinning Radiation Science, James Mennie Shuler, 2006


Lectures:

| Date | Subject / Material | Hrs | Instructor's |
|---------|-------------------------------------|--------------|---|
| Started | | | Signature |
| 12/8/11 | Material License Application Review | 1 + 15 |  |
| 12/5/11 | Radioactivity and radioactive decay | 1 |  |

| | | | |
|------|---|---|---|
| 12/5 | Interactions of radiation with matter | 1 | Z |
| 12/5 | Biological effects of radiation | 2 | Z |
| 12/5 | Radiation detection using radiation detection instruments and personnel dosimeters | 2 | Z |
| 12/5 | Basic radiation protection principles and good safety practices | 1 | Z |
| 12/8 | Radiation protection regulations | 1 | Z |
| 12/7 | History of irradiator design | 3 | Z |
| 12/7 | History of incidents at irradiators | 4 | Z |

| | | | |
|------|---|------------------|---|
| 12/5 | History of irradiation industry & Products | 3 |  |
| 12/6 | Genesis Design - Safety / Production | 6 |  |
| 12/8 | Genesis Procedures - Safety / Production / Maintenance / Emergency | 4 + Emil/S |  |
| 12/7 | Operator Training | 3 |  |
| | Record Keeping | Emil/S |  |
| 12/6 | Irradiation Processing / non-food / food / phytosanitary | 2 |  |
| 12/5 | Product handling and high level dosimetry for GENESIS | 5 |  |

| | | | |
|------|--|---|---|
| 12/5 | Production Estimation Techniques | 2 | 2 |
| 12/8 | General Operations of a service facility | 2 | 2 |
| 12/5 | Pricing concepts | 1 | 2 |

Radiation Safety Officer Candidate: Lyle Wong , SSN: _____

On-the-Job Training: *- To be trained during installation-pre-accept*

| Date | Training Description | Hrs | Witnessed by: |
|------|----------------------|-----|---------------|
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DATE
04/05/2012

NAME AND ADDRESS OF APPLICANT AND/OR LICENSEE

Pa'ina Hawaii, LLC
ATTN: Michael Kohn
President
P.O. Box 30542
Honolulu, Hawaii 96820

LICENSE NUMBER

53-29296-01

MAIL CONTROL NUMBER

577283

LICENSING AND/OR TECHNICAL REVIEWER

ch

This is to acknowledge the receipt of your:

LETTER and/or APPLICATION DATED: 04/04/2012

The initial processing, which included an administrative review, has been performed.

AMENDMENT TERMINATION NEW LICENSE RENEWAL

- There were no administrative omissions identified during our initial review.
- This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.
- Your application for a new NRC license did not include your taxpayer identification number. Please fill out NRC Form 531, located at the following link:

<http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>

Send the completed NRC Form 531, by facsimile, to the following number: (301) 415-5387

A copy of your action has been emailed to our License Fee and Accounts Receivable Branch, in our Headquarters office in Rockville, MD. You will be contacted separately if there is a fee issue involved.

Your application has been assigned the above listed **MAIL CONTROL NUMBER**. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Region IV
U. S. Nuclear Regulatory Commission
DNMS/NMSB - B
1600 E. Lamar Boulevard
Arlington, TX 76011-4511
(817) 200-1103 or (817) 200-1140

e.mailed 4/5/12

BETWEEN:

Accounts Receivable/Payable
and
Regional Licensing Branches

[FOR ARPB USE]
INFORMATION FROM LTS

Program Code: 03521
Status Code: Pending Amendment
Fee Category: 3G
Exp. Date:
Fee Comments:
Decom Fin Assur Req: Y

License Fee Worksheet - License Fee Transmittal

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: PA'INA HAWAII, LLC
Received Date: 04/05/2012
Docket Number: 3036974
Mail Control Number: 577283
License Number: 53-29296-01
Action Type: Amendment

2. FEE ATTACHED

Amount: _____

Check No.: _____

3. COMMENTS

Signed: Carl P. Hiee

Date: 4/5/12

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: _____

Pa'ina Hawaii, LLC
PO Box 30542
Honolulu, HI 96820
USA

US MRC Region IV
Attn: DMMS Licensing Assistant
1600 East Lamar Boulevard
Arlington, Texas 76011-4511

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