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Subject: RE: ACT: AMENDMENT NUMBER 02 TO LICENSE NUMBER 04-29234-01

From: rspillmann@clear-path-tech.com

Date: Fri, Apr 16, 2010 5:21 pm

To: "Cook, Jackie" < Jackie. Cook@nrc.gov>

Attach: bottom.letterhead

RECEIVED

MAY 9 2011

Dear Jackie,

DNMS

Thank you again for providing us the amended license.

Please note that we have communicated to the California Rad Health Branch that we would like to add Dr. Tsuey Fen Chuang as RSO to the California license. They have and are amending the license to include her as RSO. If would be so kind, please advise what I have to do to have the same reflected in our license with USNRC.

Lastly, I noticed that the license is restricted to R&D only. As you may be aware we are a manufacture of the product described in the SSDR for our equipment issued by California. My question is what is the process to have the US NRC license expand usage to manufacture, sale and distribution.

Thank you for your kind attention.

Regards

Roger W.A. Spillmann President/CEO Clear Path Technologies, Inc. 561 W. Rincon Street Corona . CA 92880

Tel: 951-278-3585 Fax: 951-278-2032 Cell: 951-264-2617

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----- Original Message ------

Subject: ACT: AMENDMENT NUMBER 02 TO LICENSE NUMBER 04-29234-01

From: "Cook, Jackie" < Jackie. Cook@nrc.gov>

Date: Fri, April 16, 2010 12:39 pm

To: "rspillmann@clear-path-tech.com" <rspillmann@clear-path-tech.com>

Mr. Spillmann:

Please see attached amendment number 02 for License Number 04-29234-01. A hard

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copy will be coming in the mail via USPS. Please review for accuracy and completeness.

I apologize in the delay of getting this to you.

Please do not hesitate to contact me at your convenience if you have any questions or additional concerns.

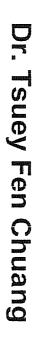
Have a GREAT Friday & Weekend!

Sincerely,

Jacqueline "Jackie" D. Cook
Senior Health Physicist
Division of Nuclear Materials Safety
Nuclear Materials Safety Branch B
612 E. Lamar Blvd., Suite 400
Arlington, TX 76011
817-860-8132 (office)/817-860-8263 (fax)
e-mail address: Jackie.Cook@nrc.gov



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Has successfully completed the Technical Short Course entitled

Radiation Safety Officer

January 11 - 15, 2010

This certificate presented in Las Vegas, Nevada, January 15, 2010

By Nevada Technical Associates, Inc.

What tollway

Approval codes for C.E. units are: ASRT 30.5 units; NVZ0146001, AAHP 32 units; 2008-00-005, ABHH 4.5 units; 08-1362

Robert Holloway, Ph.D. /

Course Coordinator

DR. TSUEY-FEN CHUANG (CHANG)

EDUCATION:

Ph.D., Physics December, 1988

University of California, Riverside

Dissertation Title: Laboratory Simulations of

Solar Wind-Comet Interactions. GPA - 3.96 on the basis of 4.0

Master of Science, Physics December, 1981

University of California, Riverside

Bachelor of Science June, 1976

National Central University Taiwan, R.O.C.

COMPUTER EDUCATION:

Proficient in Visual Basic, Data Structure, Unix, C and C++ Programming, Java, HTML, NI Labview, Adobe Afterffects and Photoshop. I also have knowledge of Fortran, Microsoft Word, Excel, Cricket Graph, MacDraw, Free Hand, and Virtural Instrumentation and FPGA Programming.

present

EXPERIENCE:

Senior Scientist and Radiation Safety Officer August 2007 to

Clear Path Technologies, Inc. 561 W. Rincon Street

Corona, CA 92880

Scientific research and data analysis.

Senior Scientist

HiEnergy Technologies, Inc.

Aug. 2000 to
February 2007

1601 Alton Parkway, Unit B Irvine, CA 92606

Scientific research and data analysis.

Senior Scientist

HiEnergy Technologies, Inc. 1601 Alton Parkway, Unit B

Irvine, CA 92606

Scientific research and data analysis.

Lecturer

Physics Department

University of California, Riverside

Taught general Physics, Electronics and modern physics labs.

Post Graduate Researcher

I.G.P.P.

University of California, Riverside

Experimental Research on space plasma physics.

Research Scientist

Advanced Physics Corporation

Theoretical Research in magnetic fusion.

Lecturer

Summer Session, Physics Department

University of California, Irvine

Taught general physics.

Post Graduate Researcher

Physics Department

University of California, Irvine

Experimental research on z-pinch.

Post Graduate Researcher

I.G.P.P.

University of California, Riverside

Experimental Research on space plasma physics.

Research Assistant

University of California, Riverside Independent research in laboratory

simulations of solar wind-comet interactions.

Research Assistant

University of California, Riverside Independent research in theoretical

atomic and molecular physics.

Aug. 2000 to December 2006

Jan. 1998 to

June 2002

Nov. 1995 to December, 1998

January 1992 to August, 1995

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August 1992 to September 1992

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April 1989 to April 1992

January 1989 to March 1989

February, 1985 to December, 1988

January, 1982 to March, 1983

Teaching Assistant

University of California, Riverside Supervised students in labs and taught discussion sections.

September, 1980 to June, 1982

Teaching Assistant

University of Georgia, Athens Taught undergraduate labs.

September, 1977 to June, 1980

PUBLICATIONS:

- 1. T-F Chang, R-U Rahman and R. S. White, "Laboratory Simulation of Cometary Neutral Gas Ionization," Journal of Geophysical Research, Vol. 94, No. A5, 5533, 1989.
- 2. T-F Chang, A. Fisher and A. Van Drie, "X-ray results from a modified nozzle and double gas puff z pinch", .1. Appl. Phys., 69(6), 3447, 1991.
- 3. B.C. Maglich and T-F Chang, "Stabilization by electron oscillations of stored ions at densities in excess of the space charge limit", Physical Review Letters, Vol. 70, No 3, 299, 1993.
- 4. T-F Chang, "Generalized criterion for controlled fusion in D large orbit plasmas," Nuclear Instruments and Methods in Physics Research, Section A 346, 322, 1994.
- 5. B.C. Maglich, T-F Chang, C. Powell, J. Nering and A. Wilinerding, "Modern Magnetic Fusion", Physics of High Energy Particles in Toroidal Systems, 292, 1994.
- 6. S.C. Maglich, 1-F Chang, D.A. Gross, "Accelerator Driven modular aneutronic production of tritium from d +d to T + p+4 Mev in self- coiling beam of deuterons (without target or blanket)", 1995.
- 7. G. Yur, T-F Chang, H.U. Rahman, and J. Birn, "Magnetotail structures in a laboratory magnetosphere", Journal Geophysical Research, Vol. 104, (No A7), 14517, 1999.

HONORS AND AFFILLATIONS:

Chancellor's Patent Fund - University of California, Riverside, 1987. The best teaching assistant of the year 1978, Dep. of Physics, University of Georgia, Athens.

Chinese Science and Humanity Scholarship, National Central University, R.O.C., 1974.

Member of American Physical Society.

RADIOACTIVE MATERIAL LICENSE

Pursuant to the California Code of Regulations, Division 1, Title 17, Chapter 5, Subchapter 4, Group 2, Licensing of Radioactive Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, use, possess, transfer, or dispose of radioactive material listed below; and to use such radioactive material for the purpose(s) and at the places(s) designated below. This license is subject to all applicable rules, regulations, and orders of the Department of Public Health now or hereafter in effect and to any standard or specific condition specified in this license.

1. Licensee	Clear Path Technologies, Inc.	3. License Number 7127-33	Amendment Alimahan 7
2. Address	561 W. Rincon Street Corona, CA 92880	4. Expiration date August 15, 2012	Amendment Number : 7 (1)
Attention:	Alexander Vaucher, Ph.D. Radiation Safety Officer	5. Inspection agency Radiologic South	Health Branch

License Number 7127-33 is hereby amended as follows:

6. Nuclide	7. Form	8. Possession Limit
A. Hydrogen-3	A. Sealed sources (Thermo MF Physics Corporation Model A-3062 D-T neutron generator)	A. 3 sources not to exceed 2.0 Ci each.
B. Hydrogen-3	B. Sealed sources (Thermo MF Physics Corporation Model A-3093 D-T neutron generator)	B. 2 sources not to exceed 2.0 Ci each.

9. Authorized Use

- A. To be used for research and development of prompt and delayed gamma neutron activation analysis systems. To be used for possession incident to manufacture and distribution of SIEGMA TM 3E3, SIEGMA TM 3M3 and SIEGMA TM 3X3 devices to persons authorized to receive the licensed material pursuant to the terms and conditions of specific licenses issued by the Nuclear Regulatory Commission, Agreement State, or Licensing State, and for possession incident to source installation and removal, relocation, and radiation surveys of SIEGMA TM 3E3, SIEGMA TM 3M3 and SIEGMA TM 3X3 devices, and for training of persons in the use of SIEGMA TM 3E3, SIEGMA TM 3M3 and SIEGMA TM 3X3 devices.
- B. To be used for research and development of prompt and delayed gamma neutron activation analysis systems.

LICENSE CONDITIONS

- 10. Radioactive material shall be used only at the following locations:
 - (a) 1601 Alton Parkway, Suite B. Irvine, CA.
 - (b) 561 W. Rincon Street, Corona, CA.
- 11. This license is subject to an annual fee for sources of radioactive material authorized to be possessed at any one time as specified in Items 6, 7, 8 and 9 of this license. The annual fee for this license is required by and computed in accordance with Title 17, California Code of Regulations, Sections 30230-30232 and is also subject to an annual cost-of-living adjustment pursuant to Section 100425 of the California Health and Safety Code.
- 12. Radioactive material may be used by, or under the supervision of and in the physical presence of, the following individuals:
 - (a) Alexander Vaucher, Ph.D.
 - (b) Tsuey-Fen Chuang, Ph.D.
 - (c) Vladimir Stanich
 - (d) David Morrison
 - (e) Bryan Slack

License Number: 7127-33

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RADIOACTIVE MATERIAL LICENSE

Amendment Number: 7

- 13. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 7, 8 and 9 of this license in accordance with the statements, representations, and procedures contained in the documents listed below. The Department's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - (a) The new application dated September 9, 2002, with attachments, signed by Bogdan C. Maglich, Ph.D., supplemented by the facsimile letter with attachments, dated February 4, 2003, the letters with attachments dated May 9, 2003 and July 17, 2003, and the letters dated June 10, 2003 and June 26, 2003, all signed by Mu Young Lee, Ph.D.
 - (b) The letters with attachments dated October 22, 2004, November 11, 2004, November 23, 2004, all signed by Bogdan Maglich, Ph.D., supplemented by the letters with attachments dated November 18, 2004, November 24, 2004, and November 29, 2004, all signed by Alexander Vaucher, Ph.D., regarding the addition of the Sodern neutron generator, procedures for use at the temporary job sites.
 - (c) The letter with attachments, dated February 7, 2006, and the letter dated March 15, 2006, both signed by Dr. Alexander Vaucher, Vice President, R & D, regarding operation and dose rates related to the addition of API-120 neutron generator.
 - (d) The letter dated June 26, 2006, signed by Roger W. A. Spillmann, President and Chief Executive Officer, with attached application for a manufacturing and distribution license and the letter dated September 29, 2006, signed by Alexander Vaucher, Ph.D., Chief Scientist and Vice President of Research and Development, with attached Radiation Safety Manual, Revision 1, and additional information on radiation safety of SIEGMA TM 3E3 and SIEGMA TM 3M3 devices.
 - (e) The letters dated September 5, 2007, September 21, 2007, and September 28, 2007, all signed by Roger Spillmann, President and Chief Executive Officer, regarding bankruptcy proceedings, change in name and ownership, new use location, changes in operations and possession limits, and changes to personnel.
 - (f) The letter dated November 29, 2007, signed by Roger Spillmann, President and Chief Executive Officer, regarding a request to continue research and development of prompt and delayed gamma neutron activation analysis systems, and to continue manufacture, distribution, and servicing of SIEGMA devices.
 - (g) The letters dated July 15, 2009, and March 11, 2009, with attachments both signed by Roger Spillmann, President and Chief Executive officer, Clear Path Technologies, Inc., regarding incorporating SIEGMA TM 3X3 devices.
- 14. (a) The Radiation Safety Officer in this program shall be Alexander Vaucher, Ph.D.
 - (b) The Alternate Radiation Safety Officer in this program shall be Tsuey-Fen Chuang, Ph.D.
- 15. The licensee shall conduct a physical inventory every six months to account for all sealed sources and/or devices received and possessed under the license. Records of the inventories shall be maintained for inspection, and may be disposed of following Department inspection.
- 16. The licensee shall comply with all requirements of Title 17, California Code of Regulations, Section 30373 when transporting or delivering radioactive materials to a carrier for shipment. These requirements include: (packaging, marking, labeling, loading, storage, placarding, monitoring, and accident reporting). Shipping papers shall be maintained for inspection pursuant to the U.S. Department of Transportation requirements (Title 49, Code of Federal Regulations, Part 172, Sections 172,200 through 172,204).
- 17. Radioactive materials shall be used by occupational workers in such a manner that the dose limits specified in Title 10, Code of Federal Regulations, Part 20, Subpart C, Sections 20.1201 through 20.1208 are not exceeded.
- 18. The licensee shall monitor occupational exposures to radiation and shall supply and require the use of individual monitoring devices by personnel as required by Title 10, Code of Federal Regulations, Part 20, Section 20.1502 (a).

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RADIOACTIVE MATERIAL LICENSE

License Number: 7127-33

Amendment Number: 7

- 19. Records of leak test results shall be kept in units of microcuries and maintained for inspection. Records may be disposed of following Department inspection. Any leak test revealing the presence of 0.005 microcuries or more of removable radioactive material shall be reported to the Department of Public Health, Radiologic Health Branch MS 7610, P.O. Box 997414, Sacramento, CA 95899-7414, within five days of the test. This report shall include a description of the defective source or device, the results of the test, and the corrective action taken.
- 20. The licensee will provide the Low Level Radioactive Waste (LLRW) reports specified in the California Health and Safety Code section 115000.1(h) to the California Department of Public Health (CDPH) on an annual basis for both shipped and stored LLRW. Alternatively, LLRW shipment information may be provided on a per shipment basis. LLRW shipment information and annual reports shall be mailed to:

Attn: LLRW Tracking Program
California Department of Public Health
Radiologic Health Branch MS 7610
P.O. Box 997414
Sacramento, CA 95899-7414

21. The licensec shall distribute only sealed sources and/or devices for which a Sealed Source and Device Registry Certificate has been issued by the California Department of Public Health, the U.S. Nuclear Regulatory Commission, an Agreement State or a Licensing State. Sealed sources and/or devices distributed must adhere to the design specifications described in the Sealed Source and Device Registry Certificate. Any changes in the design or specifications of these sealed sources and/or devices require the manufacturer to apply for and receive an amendment to the Sealed Source and Device Registry Certificate prior to distribution. The licensee may distribute sources and/or devices without a Sealed Source and Device Registry Certificate provided the recipient is authorized to possess such items by license condition or applicable state or federal regulations and laws.

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		Issued for the California Department of Public Health
Date:	3/11/10	By: 🔀 🔾

Ronald Rogus Senior Health Physicist Radiologic Health Branch P.O. Box 997414, MS 7610 Sacramento, CA 95899-7414

NRC FORM 532 (RIV) (10-2010)

INFORMATION FROM LTS Accounts Receivable/Payable Program Code: 03620 and Status Code: Pending Amendment Regional Licensing Branches Fee Category: 3M Exp. Date: Fee Comments: Decom Fin Assur Regd: N License Fee Worksheet - License Fee Transmittal A. REGION 1. APPLICATION ATTACHED Applicant/Licensee: CLEAR PATH TECHNOLOGIES, INC. Received Date: 05/09/2011 Docket Number: 3037298 575117 Mail Control Number: 04-29234-01 License Number: Action Type: Amendment 2. FEE ATTACHED Amount: Check No.: 3. COMMENTS Colleen Murnahan Signed: Date: 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

[FOR ARPB USE]

BETWEEN:

Signed:

Date: